GAIT



GENERAL CATALOGUE

2025

The **Kintek Group** is one of the leading groups in Italy in the production of tool holders for lathes and machining centers, offering a wide range of solutions for CNC machines and related accessories.

This catalog provides a comprehensive overview of the combined offerings of Kintek S.p.A. and Gait S.r.l., designed to meet a wide range of applications. Each product results from a meticulous design and manufacturing process, paying close attention to details and market requirements, aiming to ensure high performance and long-lasting durability.

This collaboration marks a significant strategic evolution, allowing the integration of expertise and experience to offer even more complete solutions and services in the field of machine tool equipment and accessories.

For nearly **40 years**, Kintek has been committed to providing high-quality and innovative products, anticipating market demands through advanced technologies and highly specialized services.

The acquisition of Gait, a company historically rooted in the Emilia region and a benchmark in the Made in Italy mechanical sector since 1960, has enabled an expansion of the product portfolio, introducing solutions known for their excellence and reliability.

The company philosophy is based on essential principles such as quality, innovation, sustainability, and service.

Quality is the foundation of every proposed solution, supported by the use of cutting-edge technologies and rigorous production processes certified according to international standards. Continuous research in innovation translates into ongoing investments in state-of-the-art machinery and staff training.

The catalog is structured for easy consultation, providing detailed information on the products, their applications, and the materials used. Additionally, a team of experts is available to offer support and advice in selecting the most suitable solutions for specific needs, contributing to the optimization of production processes.

We hope this catalog will serve as a useful tool for your daily activities, and we invite you to contact the company for any information or requests.

Thank you for choosing Kintek and Gait. **READY, ALWAYS.**

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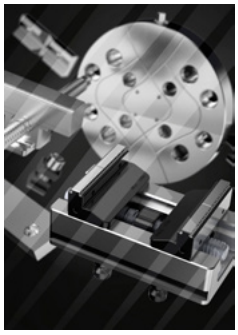
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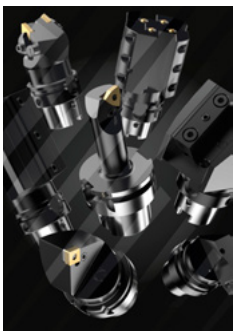
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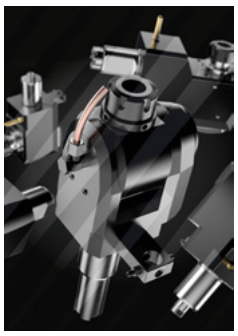
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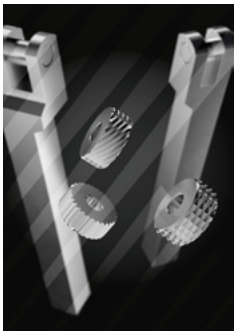
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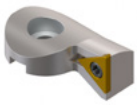
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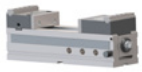
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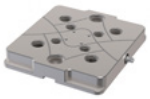
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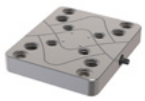
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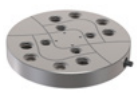
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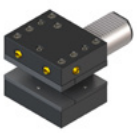
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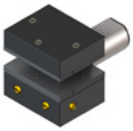
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VDI toolholders for CNC lathes DIN 6988

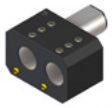
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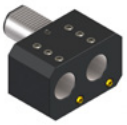
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SERIE-MWS/TU
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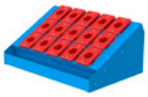
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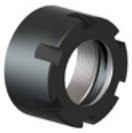
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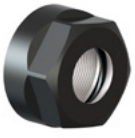
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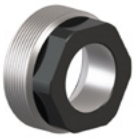
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DIN 69872 pull studs without coolant bore

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DIN 69872 pull studs with coolant bore

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DIN 69872 pull studs with coolant bore and double o-ring

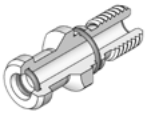
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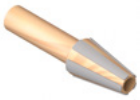
Assembly stands

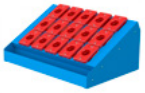
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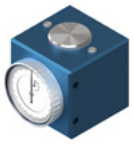
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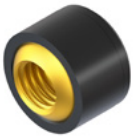

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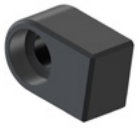

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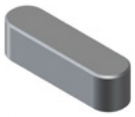

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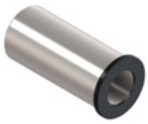
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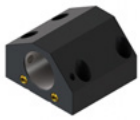
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p. 746

READY, ALWAYS.

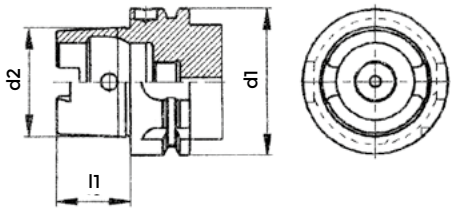


HSK A+C CHUCKS

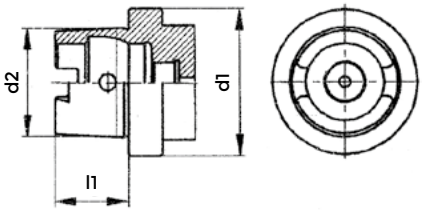
DIN 69893-1

TABLE OF DIMENSIONS ACCORDING TO DIN 69893 STANDARD

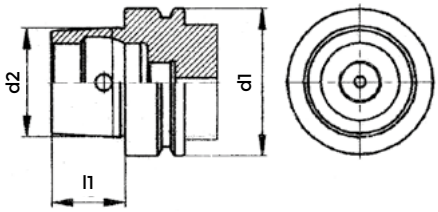
HSK A



HSK C



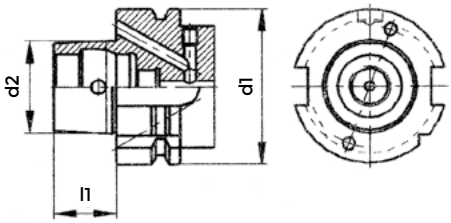
HSK E



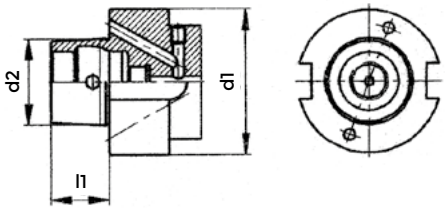
DIN 69893

HSK A - C - E		
NOMINAL DIA. d1	TAPER DIA. d2	TAPER LENGHT l1
32	24	16
40	30	20
50	38	25
63	48	32
100	75	50
125	95	63

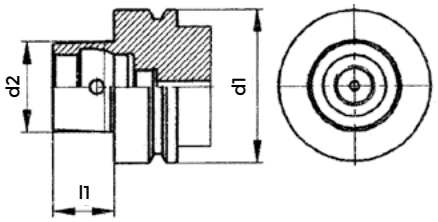
HSK B



HSK D



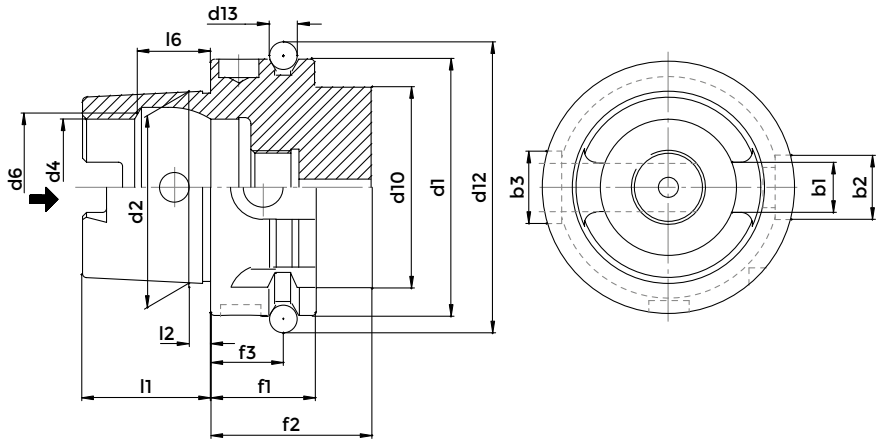
HSK F



DIN 69893

HSK B - D - F		
NOMINAL DIA. d1	TAPER DIA. d2	TAPER LENGHT l1
40	24	16
50	30	20
63	38	25
100	60	40

TAPER SHANKS
DATA SHEET



DIN 69893 A+C

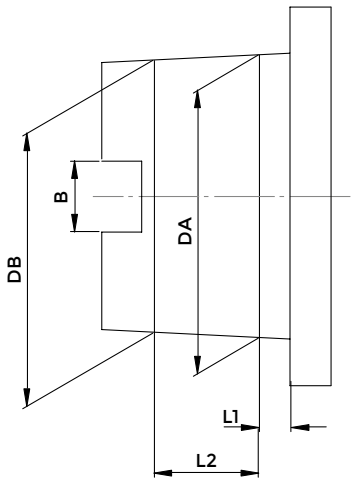
	HSK 32	HSK 40	HSK 50	HSK 63	HSK 100	HSK 125
b1	7.05	8,05	10,54	12,54	20,02	25,02
b2	7	9	12	16	20	25
b3	9	11	14	18	22	28
d1	32	40	50	63	100	125
d2	24	30	38	48	75	95
d4	17	21	26	34	53	67
d6	19	23	29	37	58	73
d10	26	34	42	53	88	111
d12	37	45	59,3	72,3	109,75	134,75
d13	4	4	7	7	7	7
f1	20	20	26	26	29	29
f2	35	35	42	42	45	45
f3	16	16	18	18	20	20
l1	16	20	25	32	50	63
l2	3.2	4	5	6,3	10	12,5
l6	8.92	11,42	14,13	18,13	28,56	36,27

FORM A

- Used on machining centres, milling machines, turning machines, special machines with automatic tool change.
- Central, axial coolant supply through coolant channel.
- Torque transmission via two key slots at end of taper.
- Two slots on collar for tool magazine, location edge.

Hole for data carrier DIN 69893 in collar.

CONE TOLERANCE



DIN 69893 A+C

HSK	L1	L2	DA	DB	B (only type A+C)
32 A+C	3,2	7,3	24 +0.005 +0,007	23,27 +0.003 +0,005	7.05 +/- 0.04
40 A+C+E	4	9,5	30 +0.005 +0,007	29,05 +0.003 +0,005	8.05 +/- 0.04
40 B+D	3,2	7,3	24 +0.005 +0.007	23,27 +0.003 +0,005	-
50 A+C+E	5	11	38 +0.006 +0.009	36,9 +0.003 +0.006	10.54 +/- 0.04
50 B+D+F	4	9,5	30 +0.005 +0.007	29,05 +0.003 +0,005	-
63 A+C+E	6,3	14,7	48 +0.007 +0.011	46,53 +0.003 +0.007	12.54 +/- 0.04
63 B+D+F	5	11	38 +0.006 +0.009	36,9 +0.003 +0.006	-
100 A+C	10	24	75 +0.009 +0.015	72,6 +0.003 +0.009	20.02 +/- 0.04
100 B+D	8	19	60 +0.008 +0.013	58,1 +0.003 +0.008	-
125 A+C	12,5	30,5	95 +0.008 +0.013	91,9 +0.003 +0.008	25,02 +/- 0,04

TECHNICAL DATA KINTEK CHUCKS WITH ISO FITTING

All KINTEK toolholders are manufactured according to DIN norms. (these norms provide the same classes of tolerance for the attachment DIN69893 A+C, B+D, E, F)

COLLET CHUCK'S RUNOUT ACCURACY

The norm DIN 69882-6 permits a runout error of 0,005 mm. for DIN6499/ISO15488 collet chucks.

SHELL END MILL ADAPTOR'S RUNOUT ACCURACY

Our shell end mill adaptors meet the requirements of the norm DIN 69882-2, which prescribes for diameters Ø 16,22,27,32 a runout accuracy of 0,01

WELDON END MILL HOLDER'S RUNOUT ACCURACY

According to norm DIN 69882-4 Weldon end mill holders have to meet the following requirements:

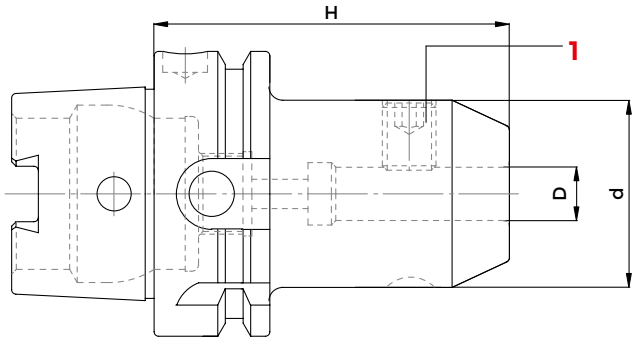
BORE: H5
RUNOUT ACCURACY: 0.005.

CONSTRUCTIVE FEATURES

- Manufactured with casehardening Steel
- Casehardened with depth 0,4 - 0,5 mm
- Hardened-Tempered
- Hardness HRC 58+-2, Strength 800-1000 N/mm^2
- Black oxided
- Internal and external grinding finish of the cone
- Grinding finish on the front side and on the thread of collet nuts
- Tested 100% with certified measuring instruments and supplied with balancing certificate on request

END MILL HOLDERS WELDON





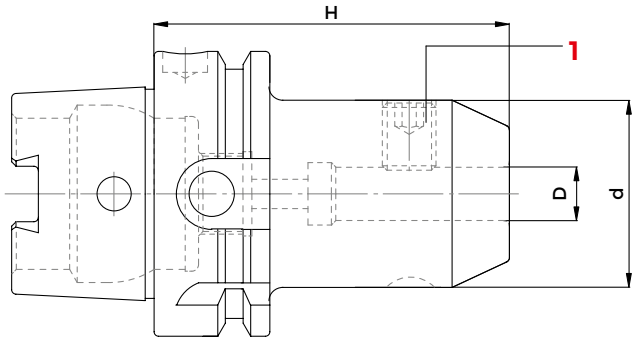
DIN 69893 A+C - DIN 1835/B

COD.	DESCRIPTION	HSK	H	D	d	G6.3 15000	1 SCREW
6110	HSK40AH60WE06	40	60	6	25	•	4970
6112	HSK40AH60WE08	40	60	8	28	•	4971
6114	HSK40AH65WE10	40	65	10	35	•	4972
6116	HSK40AH70WE12	40	70	12	42	•	4973
6120	HSK40AH80WE16	40	80	16	48	•	0074
6124	HSK40AH80WE20	40	80	20	52	•	4975
6140	HSK50AH80WE16	50	80	16	48	•	4974
6144	HSK50AH80WE20	50	80	20	52	•	4975
6146	HSK50AH105WE25	50	105	25	65	•	4976
6150	HSK63AH65WE06	63	65	6	25	•	4970
6993	HSK63AH130WE06	63	130	6	18	•	0020
6152	HSK63AH65WE08	63	65	8	28	•	4971
6994	HSK63AH130WE08	63	130	8	22	•	0372
6154	HSK63AH65WE10	63	65	10	35	•	4972
6995	HSK63AH130WE10	63	130	10	30	•	0060
6156	HSK63AH80WE12	63	80	12	42	•	4973
6996	HSK63AH130WE12	63	130	12	34	•	0200
6158	HSK63AH80WE14	63	80	14	44	•	4973
6160	HSK63AH80WE16	63	80	16	48	•	0074
6997	HSK63AH130WE16	63	130	16	42	•	0261
6162	HSK63AH80WE18	63	80	18	50	•	4974
6164	HSK63AH80WE20	63	80	20	52	•	4975
6998	HSK63AH130WE20	63	130	20	45	•	0070
6166	HSK63AH110WE25	63	110	25	65	•	4976
6999	HSK63AH130WE25	63	130	25	65	•	4976
6168	HSK63AH110WE32	63	110	32	72	•	4977
6974	HSK63AH120WE40	63	120	40	80	•	4977

follows >>

END MILL HOLDERS WELDON



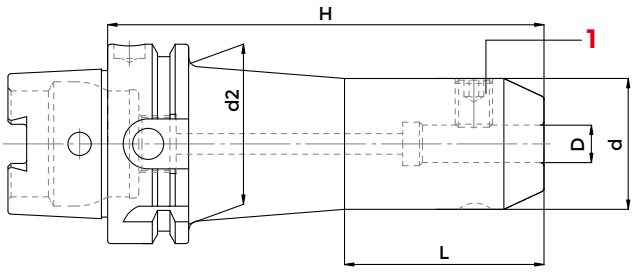


DIN 69893 A+C - DIN 1835/B

COD.	DESCRIPTION	HSK	H	D	d	G6.3 15000	1 SCREW
6170	HSK100AH90WE06	100	90	6	25	•	4970
6172	HSK100AH90WE08	100	90	8	28	•	4971
6174	HSK100AH90WE10	100	90	10	35	•	4972
6176	HSK100AH100WE12	100	100	12	42	•	4973
6178	HSK100AH100WE14	100	100	14	44	•	4973
6180	HSK100AH100WE16	100	100	16	48	•	0074
6717	HSK100AH200WE16	100	200	16	48	•	0074
6182	HSK100AH100WE18	100	100	18	50	•	0074
6184	HSK100AH110WE20	100	110	20	52	•	4975
6186	HSK100AH120WE25	100	120	25	65	•	4976
6720	HSK100AH200WE25	100	200	25	65	•	4976
6188	HSK100AH120WE32	100	120	32	72	•	4977
6190	HSK100AH120WE40	100	120	40	80	•	4977
6191	HSK100AH130WE50	100	130	50	100	•	811-106011

END MILL HOLDERS WELDON LONG



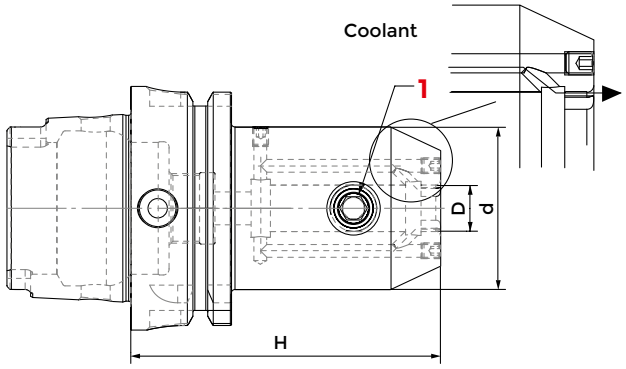


DIN 69893 A+C - DIN 1835/B

COD.	DESCRIPTION	HSK	H	D	d	L	d2	G6.3 15000	1 SCREW
6132	HSK50AH65WE08	50	65	8	20	39	28	•	4971
6136	HSK50AH80WE12	50	80	12	30	54	42	•	4973
6147	HSK50AH120WE32	50	120	32	56	94	72	•	4977
6966	HSK63AH100WE06	63	100	6	18	50	26	•	0020
6967	HSK63AH100WE08	63	100	8	22	50	30	•	0372
6968	HSK63AH100WE10	63	100	10	30	-	-	•	0060
6969	HSK63AH100WE12	63	100	12	34	-	-	•	0200
6159	HSK63AH100WE14	63	100	14	24	74	36	•	4973
6971	HSK63AH100WE16	63	100	16	42	-	-	•	0261
6973	HSK63AH100WE20	63	100	20	45	-	-	•	0070
6151	HSK63AH160WE06	63	160	6	18	50	34	•	0020
6153	HSK63AH160WE08	63	160	8	22	50	38	•	0372
6155	HSK63AH160WE10	63	160	10	30	65	46	•	0060
6157	HSK63AH160WE12	63	160	12	34	70	50	•	0200
6161	HSK63AH160WE16	63	160	16	42	70	50	•	0261
6165	HSK63AH160WE20	63	160	20	45	70	53	•	0070
6167	HSK63AH160WE25	63	160	25	45	70	53	•	0076
6169	HSK63AH160WE32	63	160	32	64,5	80	52	•	811-106022
6171	HSK100AH160WE06	100	160	6	18	50	46	•	0020
6173	HSK100AH160WE08	100	160	8	22	50	50	•	0372
6175	HSK100AH160WE10	100	160	10	30	65	48	•	0060
6177	HSK100AH160WE12	100	160	12	34	70	51	•	0200
6181	HSK100AH160WE16	100	160	16	42	70	59	•	0261
6185	HSK100AH160WE20	100	160	20	45	70	55	•	0070
6187	HSK100AH160WE25	100	160	25	55	80	66	•	0075
6189	HSK100AH160WE32	100	160	32	71,5	-	-	•	4977

END MILL HOLDERS WELDON WITH COOLANT CHANNELS



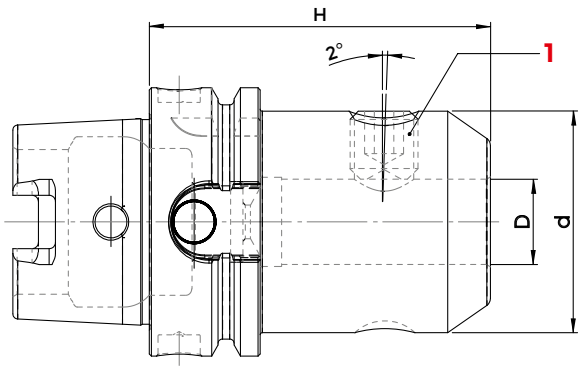


DIN 69893 A+C - DIN 1835/B

COD.	DESCRIPTION	HSK	H	D	d	G6.3 15000	1 SCREW
6912	HSK63AH65WE06-IK	63	65	6	25	•	4970
6913	HSK63AH65WE08-IK	63	65	8	28	•	4971
6914	HSK63AH65WE10-IK	63	65	10	35	•	4972
6915	HSK63AH80WE12-IK	63	80	12	42	•	4973
6917	HSK63AH80WE16-IK	63	80	16	48	•	4974
6919	HSK63AH80WE20-IK	63	80	20	52	•	4975
6920	HSK63AH110WE25-IK	63	110	25	65	•	4976
6921	HSK63AH110WE32-IK	63	110	32	72	•	4977
6922	HSK63AH125WE40-IK	63	125	40	80	•	4977

END MILL HOLDES FOR DIN 1835-E SHANKS



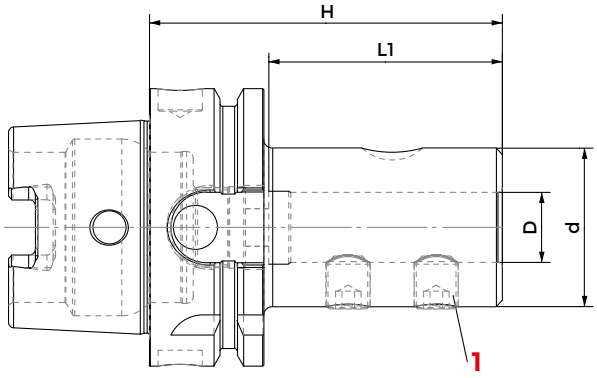


DIN 69893 A+C - DIN 1835/B

COD.	DESCRIPTION	HSK	H	d	D	G6.3 12000	1 SCREW
6225	HSK63AH100WN20	63	100	51,5	20	•	4975
6226	HSK63AH110WN25	63	110	64,5	25	•	4976
6227	HSK63AH110WN32	63	110	71,5	32	•	4977
6233	HSK100AH100WN16	100	100	47,5	16	•	4974
6235	HSK100AH110WN20	100	110	51,5	20	•	4975

INDEXABLE DRILL HOLDERS



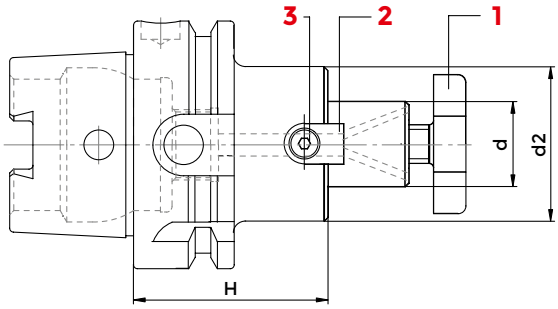


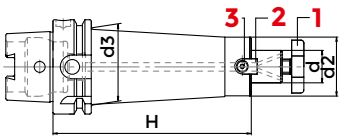
DIN 69893 A+C

COD.	DESCRIPTION	HSK	H	D	d	L1	G6.3 8000	1 SCREW
6403	HSK63AH80D16-E1	63	80	16	36	54	•	0403
6404	HSK63AH80D20-E1	63	80	20	40	54	•	0403
6405	HSK63AH90D25-E1	63	90	25	45	59	•	0417
6406	HSK63AH90D32-E1	63	90	32	52	63	•	0417

FACE MILL HOLDERS-TENONS DRIVE







DIN 69893 A+C - ISO 3937

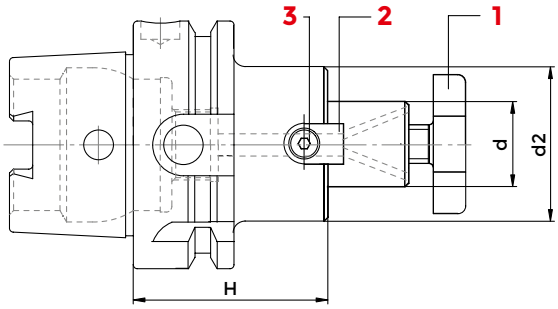
F VERSION ONLY A-D SHAPE

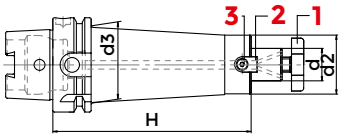
COD.	DESCRIPTION	HSK	H	d	d2	d3	G6.3 15000	1 CROSS SCREW	1 CROSS SCREW ON ENQUIRY	2 DOWELS	3 SCREW	WRENCH
6298	HSK32AH45D16F	32	45	16	38	-	•	4985	2739	7421	0255	4562
6299	HSK32AH50D22F	32	50	22	48	-	•	4986	2740	7427	0256	4563
6300	HSK40AH45D16F	40	45	16	38	-	•	4985	2739	7421	0255	4562
6302	HSK40AH50D22F	40	50	22	48	-	•	4986	2740	7427	0256	4563
6309	HSK50AH60D22F	60	55	22	48	-	•	4986	2740	7427	0256	4563
6317	HSK63AH45D16F-L	63	45	16	38	-	•	4985	2739	7421	0255	4562
6318	HSK63AH100D16F-L	63	100	16	38	40	•	4985	2739	7421	0255	4562
6319	HSK63AH160D16F-L	63	160	16	32	38	•	4985	2739	7421	0255	4562
6811	HSK63AH200D16F-L	63	200	16	38	-	•	4985	-	7421	0255	4562
6320	HSK63AH50D22F-L	63	50	22	48	-	•	4986	2740	7427	0256	4563
6321	HSK63AH100D22F-L	63	100	22	48	-	•	4986	2740	7427	0256	4563
6322	HSK63AH160D22F-L	63	160	22	40	48	•	4986	2740	7435	0203	4563
6812	HSK63AH200D22F-L	63	200	22	48	-	•	4986	-	7427	0256	4563
6323	HSK63AH55D27F-L	63	55	27	58	-	•	4987	2741	7428	7414	4564
6324	HSK63AH100D27F-L	63	100	27	58	-	•	4987	2741	7428	7414	4564
6325	HSK63AH160D27F-L	63	160	27	48	50	•	4987	2741	7436	0205	4564
6326	HSK63AH60D32F-L	63	60	32	78	-	•	4988	2742	7439	0099	4565
6327	HSK63AH100D32F-L	63	100	32	78	-	•	4988	2742	7439	0099	4565
6328	HSK63AH160D32F-L	63	160	32	58	-	•	4988	2742	7437	0482	4565
6567	HSK63AH60D40F-L	63	60	40	88	-	•	4989	-	7430	0099	4566
6329	HSK63AH65D40F-L	63	65	40	88	-	•	4989	2743	7430	0099	4566
6330	HSK63AH100D40F-L	63	100	40	88	-	•	4989	-	7430	0099	4566
6331	HSK63AH160D40F-L	63	160	40	88	-	•	4989	-	7430	0099	4566
6568	HSK100AH50D16F-L	100	50	16	38	-	•	4985	-	7421	0255	4562
6332	HSK100AH55D16F-L	100	55	16	38	-	•	4985	2739	7421	0255	4562
6613	HSK100H100D16F-L	100	100	16	38	-	•	4985	-	7421	0255	4562
6334	HSK100AH160D16F-L	100	160	16	32	42	•	4985	2739	7421	0255	4562
6569	HSK100AH50D22F-L	100	50	22	48	-	•	4986	-	7427	0256	4563

follows >>

FACE MILL HOLDERS-TENONS DRIVE







DIN 69893 A+C - ISO 3937

F VERSION ONLY A-D SHAPE

COD.	DESCRIPTION	HSK	H	d	d2	d3	G6.3 15000	1 CROSS SCREW	1 CROSS SCREW ON ENQUIRY	2 DOWELS	3 SCREW	WRENCH
6335	HSK100AH55D22F-L	100	55	22	48	-	•	4986	2740	7427	0256	4563
6336	HSK100AH100D22F-L	100	100	22	48	50	•	4986	2740	7427	0256	4563
6337	HSK100AH160D22F-L	100	160	22	40	50	•	4986	2740	7435	0203	4563
6623	HSK100AH200D22F-L	100	200	22	48	-	•	4986	-	7427	0256	4563
6570	HSK100AH50D27F-L	100	50	27	58	-	•	4987	-	7428	7414	4564
6338	HSK100AH55D27F-L	100	55	27	58	-	•	4987	2741	7428	7414	4564
6339	HSK100AH100D27F-L	100	100	27	58	60	•	4987	2741	7428	7414	4564
6340	HSK100AH160D27F-L	100	160	27	48	68	•	4987	2741	7436	0205	4564
6629	HSK100AH200D27F-L	100	200	27	58	-	•	4987	-	7428	7414	4564
6630	HSK100AH250D27F-L	100	250	27	58	-	•	4987	-	7428	7414	4564
6571	HSK100AH50D32F-L	100	50	32	66	-	•	4988	-	7429	0099	4565
6341	HSK100AH60D32F-L	100	60	32	66	-	•	4988	2742	7439	0099	4565
6342	HSK100AH100D32F-L	100	100	32	78	80	•	4988	2742	7439	0099	4565
6343	HSK100AH160D32F-L	100	160	32	58	76	•	4988	2742	7437	0482	4565
6360	HSK100AH200D32F-L	100	200	32	66	-	•	4988	-	7439	0099	4565
6344	HSK100AH60D40F-L	100	60	40	88	-	•	4989	2743	7430	0099	4566
6346	HSK100AH160D40F-L	100	160	40	70	84	•	4986	2740	7435	0203	4563

ACCESSORIES

p. 674



p. 676

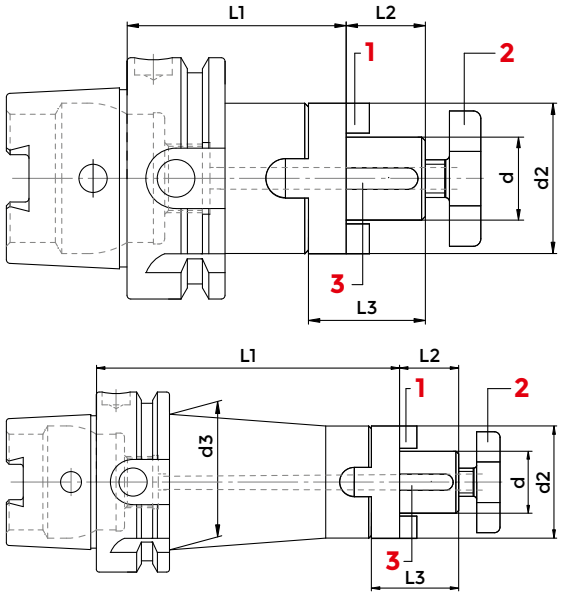


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COMBI-SHELL MILL ADAPTORS





DIN 69893 A+C - DIN 6358

										1	2	3	
COD.	DESCRIPTION	HSK	d	L1	L2	L3	d2	d3	G6.3 8000	RING	CROSS SCREW	KEY	WRENCH
6368	HSK63AH60D16C	63	16	60	17	27	32	-	•	4090	4985	0115	4562
6369	HSK63AH100D16C	63	16	100	17	27	32	40	•	4090	4985	0115	4562
6370	HSK63AH160D16C	63	16	160	17	27	32	-	•	4090	4985	0115	4562
6371	HSK63AH60D22C	63	22	60	19	31	40	-	•	4091	4986	0116	4563
6372	HSK63AH100D22C	63	22	100	19	31	40	-	•	4091	4986	0116	4563
6373	HSK63AH160D22C	63	22	160	19	31	40	50	•	4091	4986	0116	4563
6374	HSK63AH60D27C	63	27	60	21	33	48	-	•	4092	4987	0122	4564
6375	HSK63AH100D27C	63	27	100	21	33	48	-	•	4092	4987	0122	4564
6376	HSK63AH160D27C	63	27	160	21	33	48	-	•	4092	4987	0122	4564
6377	HSK63AH65D32C	63	32	65	24	38	58	-	•	4093	4988	0125	4565
6378	HSK63AH100D32C	63	32	100	24	38	58	-	•	4093	4988	0125	4565
6380	HSK63AH70D40C	63	40	70	27	41	70	-	•	4094	4989	0133	4566
6381	HSK63AH100D40C	63	40	100	27	41	70	-	•	4094	4989	0133	4566
6379	HSK63AH160D32C	100	32	160	24	38	58	-	•	4093	4988	0125	4565
6387	HSK100AH100D22C	100	22	100	19	31	40	46	•	4091	4986	0116	4563
6390	HSK100AH100D27C	100	27	100	21	33	48	54	•	4092	4987	0122	4564
6393	HSK100AH100D32C	100	32	100	24	38	58	64	•	4093	4988	0125	4565

ACCESSORIES

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p. 674

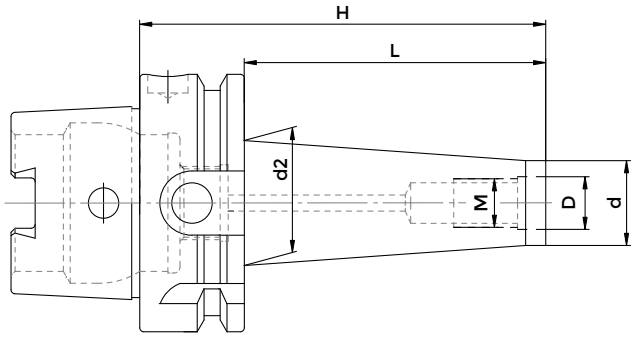


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END MILL HOLDERS FOR MILLING CUTTERS WITH THREADED SHANKS





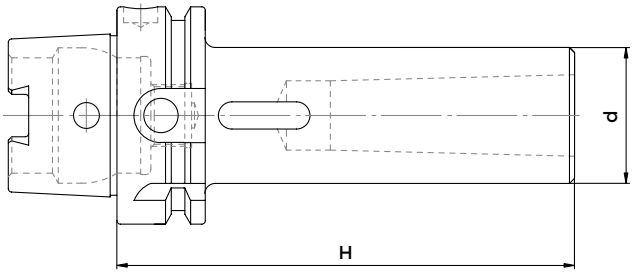
DIN 69893 A+C

HIGH SPEED LINE

COD.	DESCRIPTION	HSK	M	D	d	d2	H	L	G2.5 25000
6669	HSK63AH59M6	63	M6	6,5	10	10	59	33	•
6671	HSK63AH84M6	63	M6	6,5	10	20	84	58	•
6672	HSK63AH109M6	63	M6	6,5	10	23	109	83	•
6673	HSK63AH59M8	63	M8	8,5	13	15	59	33	•
6674	HSK63AH76M8	63	M8	8.5	13	23	76	50	•
6675	HSK63AH101M8	63	M8	8,5	13	23	101	75	•
6676	HSK63AH126M8	63	M8	8,5	13	26	126	100	•
6677	HSK63AH59M10	63	M10	10,5	18	19,5	59	33	•
6678	HSK63AH76M10	63	M10	10.5	18	23	76	50	•
6679	HSK63AH101M10	63	M10	10.5	18	28	101	75	•
6680	HSK63AH126M10	63	M10	10.5	18	28	126	100	•
6681	HSK63AH159M10	63	M10	10,5	18	34	159	133	•
6682	HSK63AH59M12	63	M12	12,5	21	24	59	33	•
6683	HSK63AH76M12	63	M12	12.5	21	24	76	50	•
6684	HSK63AH101M12	63	M12	12.5	21	31	101	75	•
6685	HSK63AH126M12	63	M12	12.5	21	31	126	100	•
6686	HSK63AH159M12	63	M12	12,5	21	31	159	133	•
6687	HSK63AH184M12	63	M12	12,5	21	39	184	158	•
6701	HSK63AH209M12	63	M12	12,5	21	42	209	183	•
6688	HSK63AH59M16	63	M16	17	29	34	59	33	•
6689	HSK63AH76M16	63	M16	17	29	34	76	50	•
6690	HSK63AH101M16	63	M16	17	29	34	101	75	•
6691	HSK63AH126M16	63	M16	17	29	36	126	100	•
6692	HSK63AH159M16	63	M16	17	29	39	159	133	•
6693	HSK63AH184M16	63	M16	17	29	39	184	158	•
6703	HSK63AH209M16	63	M16	17	29	42	209	183	•
6694	HSK100AH87M12	100	M12	12,5	21	24	87	58	•
6695	HSK100AH137M12	100	M12	12,5	21	47	137	108	•
6697	HSK100AH87M16	100	M16	17	29	32	87	58	•
6698	HSK100AH137M16	100	M16	17	29	42	137	108	•
6705	HSK100AH237M16	100	M16	17	29	55	237	208	•

MORSE TAPER ADAPTORS FOR DRILLS



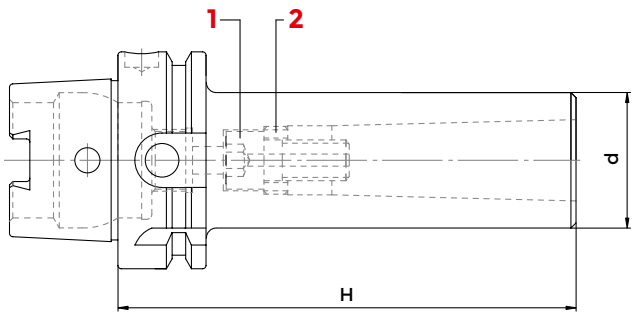


DIN 69893 A+C - DIN 228-2 FORM D

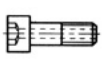
COD.	DESCRIPTION	HSK	MORSE	H	d	G6.3 8000
6256	HSK63AH100CM1P	63	1	100	25	•
6257	HSK63AH115CM2P	63	2	115	32	•
6258	HSK63AH135CM3P	63	3	135	40	•
6259	HSK63AH160CM4P	63	4	160	48	•
6261	HSK100AH120CM2P	100	2	120	32	•
6262	HSK100AH150CM3P	100	3	150	40	•
6263	HSK100AH170CM4P	100	4	170	48	•

MORSE TAPER ADAPTERS FOR MILLING CUTTERS



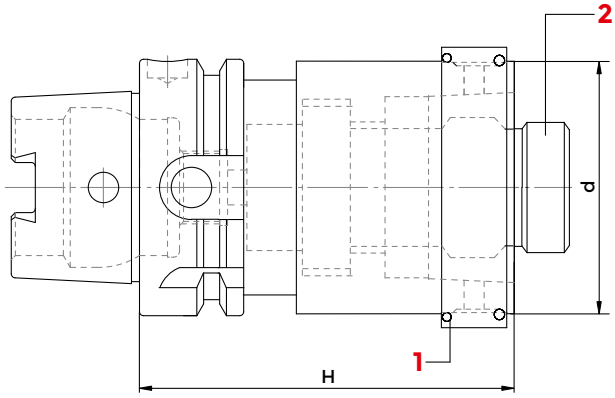


DIN 69893 A+C - DIN 228-2 FORM C

COD.	DESCRIPTION	HSK	MORSE	H	d	G6.3 8000	1 SCREW	2 RING
								
6281	HSK63AH100CM1F	63	1	100	25	•	811-401100	7419
6282	HSK63AH115CM2F	63	2	115	32	•	7452	7422
6283	HSK63AH135CM3F	63	3	135	40	•	811-401078	7423
6284	HSK63AH160CM4F	63	4	160	48	•	7454	7424
6287	HSK100AH150CM3F	100	3	150	40	•	811-401098	7423
6288	HSK100AH170CM4F	100	4	170	48	•	811-401092	7424

TOOL EXTENSIONS / REDUCERS HSK A+C / HSK



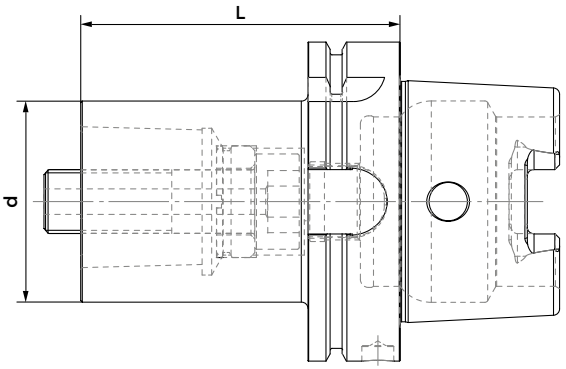


DIN 69893 A+C

					1	2
COD.	DESCRIPTION	HSK	d	H	RING (complete)	LOCKING UNIT (complete)
6197	HSK63H80HSK50	63	50	80	HN50-AN	HN50C
6216	HSK63AH100HSK63	63	63	100	L0701460	HN63C
6199	HSK100AH100HSK63	100	63	100	L0701480	HN100C
6217	HSK100AH140HSK100	100	100	140	L0701480	HN100C

REDUCERS HSK A+C / POLYGONAL



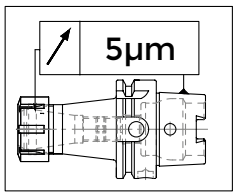


DIN 69893 A+C

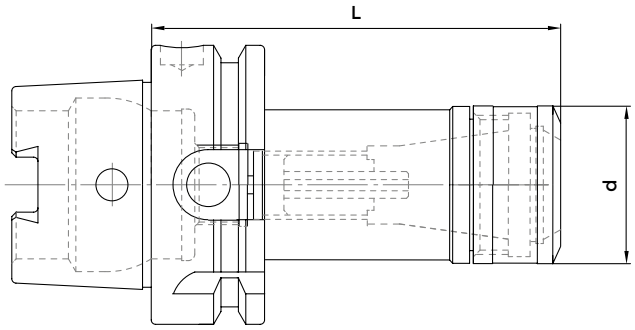
COD.	DESCRIPTION	HSK	d	L
11051	DIN69893 HSK63	63	40	80
11052	DIN69893 HSK63	63	50	90
11053	DIN69893 HSK63	63	63	110
11054	DIN69893 HSK100	100	40	90
11055	DIN69893 HSK100	100	50	100
11056	DIN69893 HSK100	100	63	90
11057	DIN69893 HSK100	100	63	150
11058	DIN69893 HSK100	100	80	120

ER COLLET CHUCKS - HIGH PRECISION



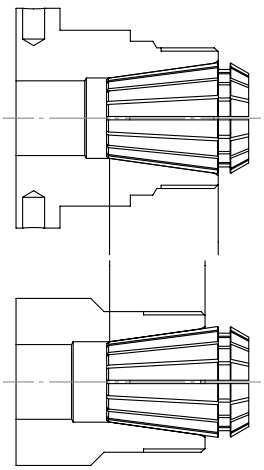


H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm



DIN 69893 HSKA - DIN 6499

COD.	DESCRIPTION	HSK	L	d	ER	G2.5 30000	NUT	WRENCH
214-91747	HSK63AH75ER16-HP	63	75	30	16	•	812-203085	816-203069
214-91748	HSK63AH75ER25-HP	63	75	40	25	•	812-203086	816-203070
214-91749	HSK63AH75ER32-HP	63	75	50	32	•	812-203087	816-203071
214-91738	HSK63AH100ER16-HP	63	100	30	16	•	812-203085	816-203069
214-91739	HSK63AH100ER25-HP	63	100	40	25	•	812-203086	816-203070
214-91740	HSK63AH100ER32-HP	63	100	50	32	•	812-203087	816-203071
214-91742	HSK63AH160ER16-HP	63	160	30	16	•	812-203085	816-203069
214-91743	HSK63AH160ER25-HP	63	160	40	25	•	812-203086	816-203070
214-91744	HSK63AH160ER32-HP	63	160	50	32	•	812-203087	816-203071



HIGH PRECISION LINE

STANDARD



Kit Box:
- 1 Collet chuck
- 10 ER collets

ORDER CODE	COMPOSITION
KIT HSK63 ER16 HP	N°1 HSK63 AH75 ER16 HP + N°10 COLLETS ER16 HP
KIT HSK63 ER25 HP	N°1 HSK63 AH75 ER25 HP + N°10 COLLETS ER25 HP
KIT HSK63 ER32 HP	N°1 HSK63 AH75 ER32 HP + N°10 COLLETS ER32 HP

ACCESSORIES

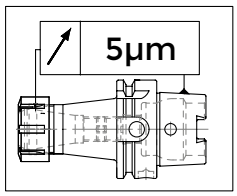

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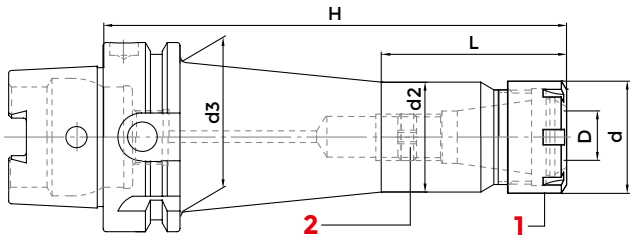

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ER MINI COLLET CHUCKS - HIGH SPEED LINE





H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm



DIN 69893 A+C - DIN 6499/ISO 15488

HIGH SPEED LINE

											1	2
COD.	DESCRIPTION	HSK	H	D	d	ER	L	d2	d3	G2.5 30000	NUT	SCREW
												
6000	HSK32AH65ER16M	32	65	0,5÷10	22	16M	-	20	-	•	5694	811-303119
6004	HSK32AH70ER25M	32	70	1÷16	35	25M	-	30	-	•	5696	811-303121
6006	HSK40AH60ER16M	40	60	0,5÷10	22	16M	-	20	-	•	5694	811-303119
214-31722	HSK40AH70ER16M	40	70	0,5÷10	22	16M	-	20	-	•	5694	811-303119
6007	HSK40AH120ER16M	40	120	0,5÷10	22	16M	47	20	29	•	5694	811-303119
6002	HSK50AH80ER16M	50	80	0,5÷10	22	16M	-	20	-	•	5694	811-303119
6013	HSK50AH160ER16M	50	160	0,5÷10	22	16M	57	20	28	•	5694	811-303119
6003	HSK63AH70ER11M	63	70	1÷8	16	11M	-	15	-	•	5691	5718
6005	HSK63AH130ER11M	63	130	1÷8	16	11M	-	15	-	•	5691	5718
6008	HSK63AH70ER16M	63	70	0,5÷10	22	16M	-	21	-	•	5694	811-303119
6018	HSK63AH90ER16M	63	90	0,5÷10	22	16M	-	20	-	•	5694	811-303119
6009	HSK63AH130ER16M	63	130	0,5÷10	22	16M	-	22	-	•	5694	811-303119
6019	HSK63AH160ER16M	63	160	0,5÷10	22	16M	57	20	28	•	5694	811-303119
6109	HSK63AH200ER16M	63	200	0,5÷10	22	16 M	-	22	-	•	5694	811-303119
6119	HSK63AH70ER20M	63	70	1÷15	28	20M	-	27	-	•	5695	5720
6301	HSK63AH130ER20M	63	130	1÷15	29	20M	-	27	-	•	5695	5720
6303	HSK63AH200ER20M	63	200	1÷15	30	20M	-	27	-	•	5695	5720
6121	HSK63AH70ER25M	63	70	1÷16	35	25M	-	33	-	•	5696	811-303121
6123	HSK63AH130ER25M	63	130	1÷16	35	25M	-	34	-	•	5696	811-303121
6023	HSK63AH160ER25M	63	160	1÷16	35	25M	68	20	42	•	5696	811-303121
6129	HSK63AH200ER25M	63	200	1÷16	35	25M	-	33	-	•	5696	811-303121
6025	HSK100AH160ER16M	100	160	0,5÷10	22	16M	57	20	30	•	5694	811-303119
6307	HSK100AH100ER20M	100	100	1÷15	28	20M	-	27	-	•	5695	5720
6308	HSK100AH160ER20M	100	160	1÷15	28	20M	-	27	-	•	5695	5720
6310	HSK100AH200ER20M	100	200	1÷15	28	20M	-	27	-	•	5695	5720
6311	HSK100AH100ER25M	100	100	1÷16	35	25M	-	34	-	•	5696	811-303121
6026	HSK100AH160ER25M	100	160	1÷16	35	25M	68	20	46	•	5696	811-303121
6313	HSK100AH200ER25M	100	200	1÷16	35	25M	-	20	-	•	5696	811-303121

ACCESSORIES

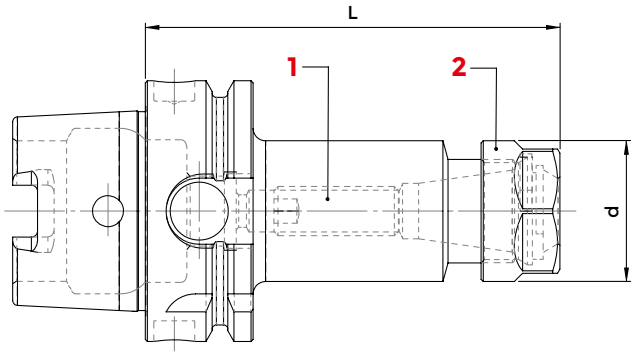

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ER COLLET CHUCKS WITH HEXAGONAL NUT





DIN 69893 A+C

COD.	DESCRIPTION	HSK	ER	d	L	G6.3 15000	2 NUT	1 SCREW	WRENCH
6200	HSK 63 A - ER 16 GE / H 70	63	ER 16 1÷12	28	70	•	1214	811-303119	2906
6201	HSK 63 A - ER 16 GE / H 100	63	ER 16 1÷12	28	100	•	1215	811-303119	2906
6202	HSK 63 A - ER 16 GE / H 130	63	ER 16 1÷12	28	130	•	1216	811-303119	2906
6203	HSK 63 A - ER 16 GE / H 160	63	ER 16 1÷12	28	160	•	1217	811-303119	2906
6204	HSK 63 A - ER 16 GE / H 200	63	ER 16 1÷12	28	200	•	1218	811-303119	2906
6206	HSK 63 A - ER 20 GE / H 100	63	ER 20 1÷15	34	100	•	1215	811-303120	2907
6211	HSK 100 A - ER 16 GE / H 160	100	ER 16 1÷12	28	160	•	1214	811-303119	2906

ACCESSORIES



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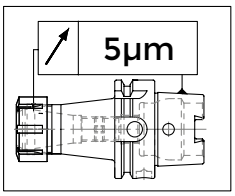


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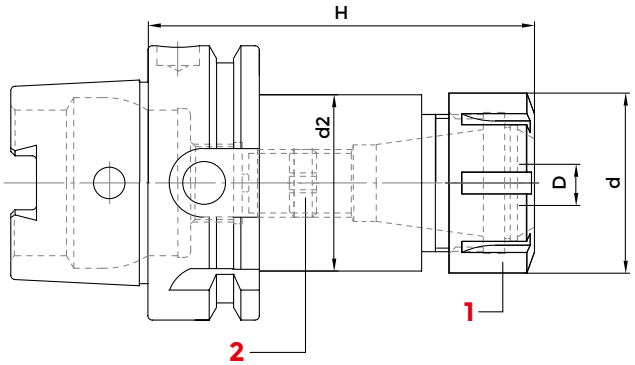


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ER COLLET CHUCKS







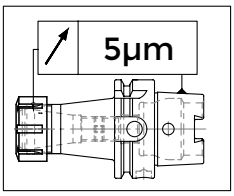
H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

DIN 69893 A+C - DIN 6499/ISO 15488

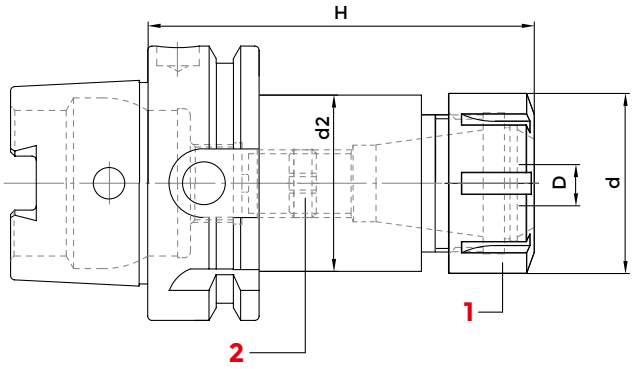
									1	2
COD.	DESCRIPTION	HSK	H	D	d	ER	d2	G6.3 20000	NUT	SCREW
										
6030	HSK40AH65ER25	40	65	1÷16	42	25	32	•	4995	811-303121
6031	HSK40AH80ER25	40	80	1÷16	42	25	32	•	4995	811-303121
6032	HSK40AH65ER32	40	65	2÷20	50	32	40	•	4996	0191
6033	HSK40AH100ER32	40	100	2÷20	50	32	40	•	4996	0191
6038	HSK50AH70ER25	50	70	1÷16	42	25	41	•	4995	811-303121
6039	HSK50AH95ER25	50	95	1÷16	42	25	32	•	4995	811-303121
6040	HSK50AH70ER32	50	70	2÷20	50	32	35	•	4996	0191
6041	HSK50AH100ER32	50	100	2÷20	50	32	40	•	4996	0191
6247	HSK50AH75ER40	50	75	3÷30	63	40	42	•	4997	811-303122
6044	HSK63AH75ER16	63	75	0,5÷10	32	16	22	•	4993	811-303119
6045	HSK63AH100ER16	63	100	0,5÷10	32	16	31,5	•	4993	811-303119
6046	HSK63AH130ER16	63	130	0,5÷10	32	16	28	•	4993	811-303119
6047	HSK63AH160ER16	63	160	0,5÷10	32	16	31,5	•	4993	811-303119
6747	HSK63AH200ER16	63	200	0,5÷10	32	16	28	•	4993	811-303119
6048	HSK63AH75ER20	63	75	1÷13	35	20	25	•	4994	811-303120
6049	HSK63AH100ER20	63	100	1÷13	35	20	34,5	•	4994	811-303120
6050	HSK63AH130ER20	63	130	1÷13	35	20	34	•	4994	811-303120
6051	HSK63AH160ER20	63	160	1÷13	35	20	34,5	•	4994	811-303120
6751	HSK63AH200ER20	63	200	1÷13	35	20	34	•	4994	811-303120
6052	HSK63AH75ER25	63	75	1÷16	42	25	32	•	4995	811-303121
6053	HSK63AH100ER25	63	100	1÷16	42	25	41,5	•	4995	811-303121
6054	HSK63AH130ER25	63	130	1÷16	42	25	41	•	4995	811-303121
6055	HSK63AH160ER25	63	160	1÷16	42	25	41,5	•	4995	811-303121
6755	HSK63AH200ER25	63	200	1÷16	42	25	41	•	4995	811-303121
6056	HSK63AH75ER32	63	75	2÷20	50	32	40	•	4996	0191
6057	HSK63AH100ER32	63	100	2÷20	50	32	49,5	•	4996	0191
6058	HSK63AH130ER32	63	130	2÷20	50	32	49	•	4996	0191
6059	HSK63AH160ER32	63	160	2÷20	50	32	49,5	•	4996	0191
6785	HSK63AH200ER32	63	200	2÷20	50	32	49	•	4996	0191

follows >>

ER COLLET CHUCKS







H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

DIN 69893 A+C - DIN 6499/ISO 15488

									1	2
COD.	DESCRIPTION	HSK	H	D	d	ER	d2	G6.3 20000	NUT	SCREW
6060	HSK63AH80ER40	63	80	3÷30	63	40	50	•	4997	811-303122
6106	HSK63AH100ER40	63	100	3÷30	63	40	50	•	4997	811-303122
6061	HSK63AH120ER40	63	120	3÷30	63	40	50	•	4997	811-303122
6062	HSK63AH160ER40	63	160	3÷30	63	40	50	•	4997	811-303122
6790	HSK63AH200ER40	63	200	3÷30	63	40	50	•	4997	811-303122
6064	HSK63AH105ER50	63	105	6÷36	78	50	53	•	4998	
6464	HSK100AH100ER16	100	100	0,5÷10	32	16	28	•	4993	811-303119
6465	HSK100AH160ER16	100	160	0,5÷10	32	16	28	•	4993	811-303119
6467	HSK100AH100ER20	100	100	1÷13	35	20	34	•	4994	811-303120
6468	HSK100AH160ER20	100	160	1÷13	35	20	34	•	4994	811-303120
6065	HSK100AH160ER25	100	160	1÷16	42	25	41,5	•	4995	811-303121
6469	HSK100AH200ER20	100	200	1÷13	35	25	34	•	4994	811-303120
6063	HSK100AH100ER25	100	100	1÷16	42	25	41,5	•	4995	811-303121
6066	HSK100AH200ER25	100	200	1÷16	42	25	41	•	4995	811-303121
6067	HSK100AH100ER32	100	100	2÷20	50	32	49,5	•	4996	0191
6107	HSK100AH120ER32	100	120	2÷20	50	32	49	•	4996	0191
6069	HSK100AH160ER32	100	160	2÷20	50	32	49,5	•	4996	0191
6070	HSK100AH200ER32	100	200	2÷20	50	32	49	•	4996	0191
6108	HSK100AH100ER40	100	100	3÷30	63	40	50	•	4997	811-303122
6071	HSK100AH120ER40	100	120	3÷30	63	40	62,5	•	4997	811-303122
6072	HSK100AH160ER40	100	160	3÷30	63	40	62,5	•	4997	811-303122
6076	HSK100AH200ER40	100	200	3÷30	63	40	50	•	4997	811-303122
6068	HSK100AH120ER50	100	120	6-36	78	50	64,5	•	4998	-
264-31747	HSK125AH100ER25	125	100	1÷16	42	25	41,5	•	4995	811-303121
264-31748	HSK125AH100ER32	125	100	2÷20	50	32	49,5	•	4996	0191
264-31749	HSK125AH120ER40	125	120	3÷30	63	40	62,5	•	4997	811-303122

ACCESSORIES

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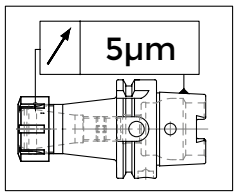


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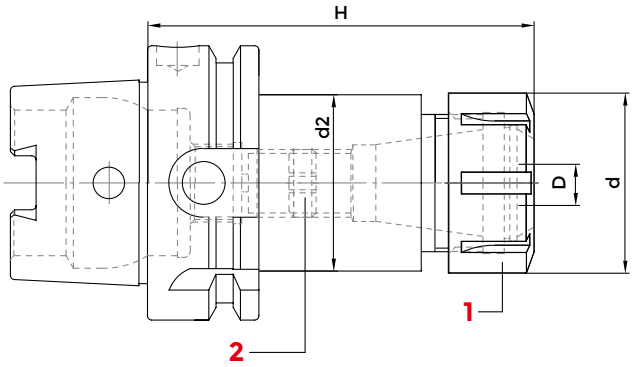


ER COLLET CHUCKS - HIGH SPEED LINE





H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm



DIN 69893 A+C - DIN 6499/ISO 15488

HIGH SPEED LINE

									1	2
COD.	DESCRIPTION	HSK	H	D	d	ER	d2	G2.5 30000	NUT	SCREW
										
214-91731	HSK63AH75ER16	63	75	0,5÷10	32	16	22	•	1202	811-303119
214-91734	HSK63AH75ER25	63	75	1÷16	42	25	32	•	1207	811-303121
214-91737	HSK63AH75ER32	63	75	2÷20	50	32	40	•	1208	0191
214-91735	HSK63AH80ER40	63	80	3÷30	63	40	50	•	1211	811-303122
214-91732	HSK63AH100ER16	63	100	0,5÷10	32	16	31,5	•	1202	811-303119
214-91733	HSK63AH75ER20	63	75	-	34,5	20	-	•	1203	811-303120
214-91702	HSK63AH100ER25	63	100	1÷16	42	25	41,5	•	1207	811-303121
214-91703	HSK63AH100ER32	63	100	2÷20	50	32	49,5	•	1208	0191
214-91704	HSK63AH120ER40	63	120	3÷30	63	40	50	•	1211	811-303122
214-91710	HSK63AH160ER32	63	160	2÷20	50	32	49,5	•	1208	0191

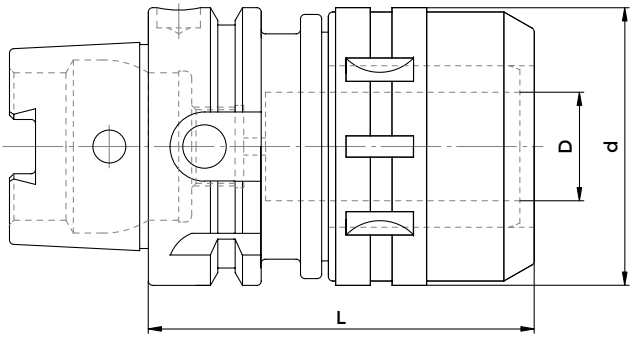
ACCESSORIES
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MILLING CHUCK



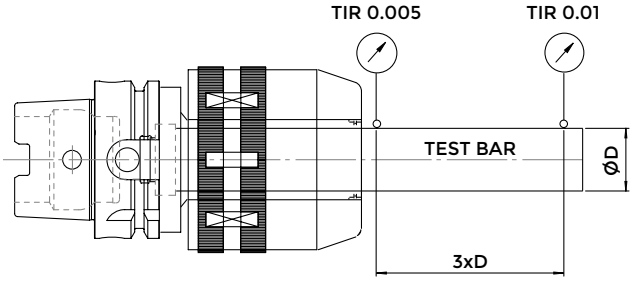


DIN 69893 A+C

COD.	DESCRIPTION	HSK	D	d	L	G6.3 12000
6243	HSK63AH105C20	63	20	54	105	•
6709	HSK63AH110C32	63	32	63	110	•
6244	HSK63AH130C32	63	32	72	130	•
6245	HSK100AH110C20	100	20	54	110	•
6246	HSK100AH123C32	100	32	72	123	•

Supplied with wrench

MILLING CHUCK (diameter)	SPECIFICATION (DIN)	RUN-OUT (3xD)	CLAMPING TORQUE
C20	DIN 69893 A	0~0,01	980M.m (100 Kgf.m)
C32	DIN 69893 A	0~0,01	3430M.m (350 Kgf.m)



ORDER CODE	COMPOSITION
KIT HSK63A C20	N° HSK63AH105C20 + 5 collets K20: Ø6,8,10,12,16 + wrench
KIT HSK63A C32	N° HSK63AH130C32 + 7 collets K32: Ø6,8,10,12,16,20,25 + wrench



Kit box:
- 1 milling chuck
- 1 collets kit
- 1 wrench

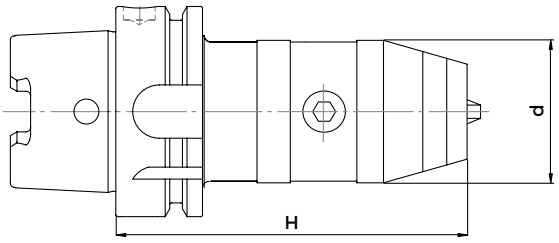
ACCESSORIES



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NC-DRILL CHUCKS FOR LEFT AND RIGHT ROTATION

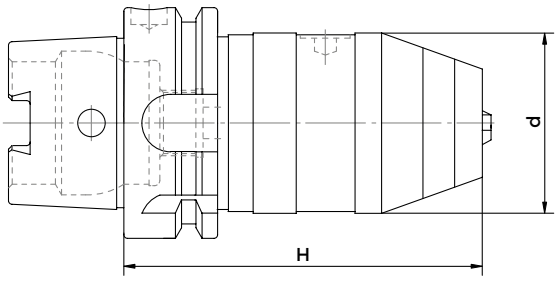




DIN 69893 A+C

COD.	DESCRIPTION	HSK	H	d	CLAMPING CAPACITY
252-11751	HSK63AH130R0,5-13X	63	130	50	0,5-13
252-11752	HSK63AH140R2,5-16X	63	140	57	2,5-16
252-11753	HSK100AH111R0,5-13X	100	111	50	0,5-13
252-11754	HSK100AH116R2,5-16X	100	116	57	2,5-16





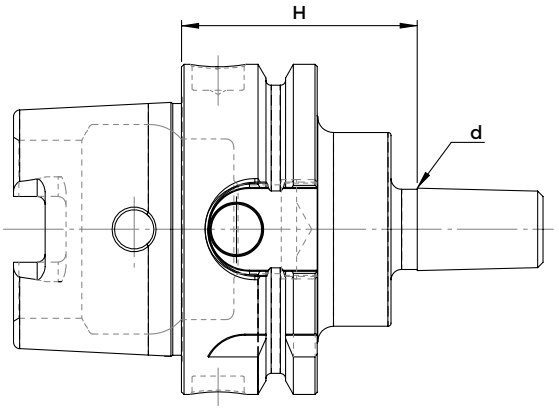
DIN 69893 A+C

COD.	DESCRIPTION	HSK	H	d	CLAMPING CAPACITY
8831	HSK63AH105R1-13X	63 *	105	50	1-13
8832	HSK63AH110R3-16X	63 *	110	57	3-16

*with internal coolant

SHANKS FOR DRILL CHUCKS



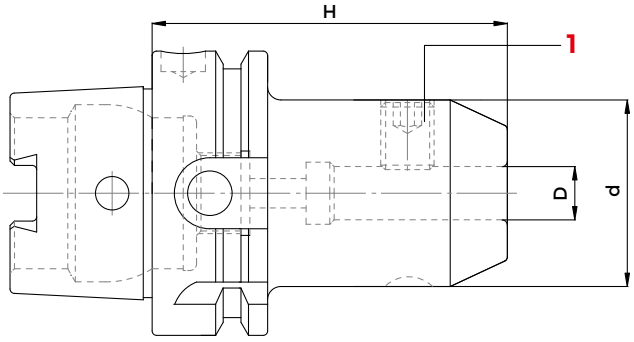


DIN 69893 A+C

COD.	DESCRIPTION	HSK	d	H
6014	HSK 63 A- B 12	63	12,065	45
6015	HSK 63 A- B 16	63	15,733	45
6016	HSK 63 A- B 18	63	17,78	45

END MILL HOLDERS WELDON - HIGH SPEED LINE





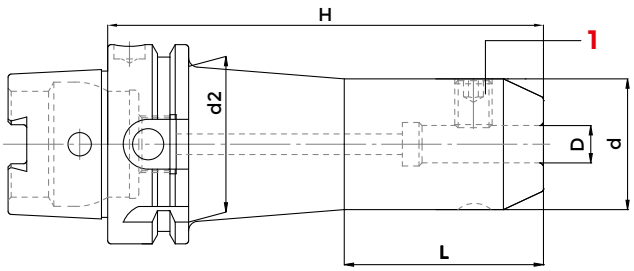
DIN 69893 E - DIN 1835/B

HIGH SPEED LINE

COD.	DESCRIPTION	H	D	d	G2.5 25000	1 SCREW
213-91701	HSK63AH65WE06	65	6	25	•	4970
213-91702	HSK63AH65WE08	65	8	28	•	4971
213-91703	HSK63AH65WE10	65	10	35	•	4972
213-91704	HSK63AH80WE12	80	12	42	•	4973
213-91705	HSK63AH80WE14	80	14	44	•	4973
213-91706	HSK63AH80WE16	80	16	48	•	0074
213-91707	HSK63AH80WE18	80	18	50	•	0074
213-91708	HSK63AH80WE20	80	20	52	•	4975
213-91709	HSK63AH110WE25	110	25	65	•	4976
213-91710	HSK63AH110WE32	110	32	72	•	4977

END MILL HOLDERS WELDON LONG - HIGH SPEED LINE





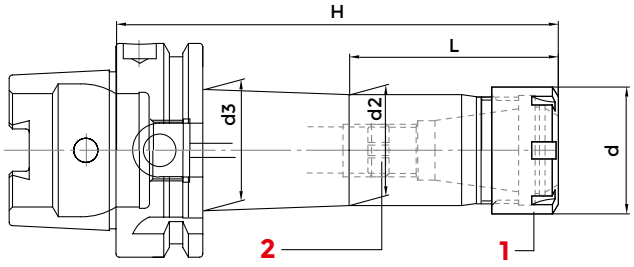
DIN 69893 A+C

HIGH SPEED LINE

COD.	DESCRIPTION	H	D	d	d2	L	G2.5 25000	1 SCREW
213-91722	HSK63AH100WE06	100	6	18	26	50	•	0020
213-91723	HSK63AH100WE08	100	8	22	30	50	•	0372
213-91724	HSK63AH100WE10	100	10	30	-	-	•	0060
213-91725	HSK63AH100WE12	100	12	34	-	-	•	0200
213-91727	HSK63AH100WE16	100	16	42	-	-	•	0261
213-91729	HSK63AH100WE20	100	20	45	-	-	•	0070

ER MINI COLLET CHUCKS EXTRA THIN - HIGH SPEED LINE





DIN 69893 A+C - DIN 6499/ISO 15488

HIGH SPEED LINE

										1	2
COD.	DESCRIPTION	HSK	ER	d	H	L	d2	d3	G2.5 30000	NUT	SCREW
											
214-91723	HSK40AH70ER11M	40	11M	16	70	20	14	16	•	5691	0235
214-91724	HSK40AH100ER11M	40	11M	16	100	40	14	20	•	5691	0235
6073	HSK63AH100ER11M	63	11M	16	100	40	14	20	•	5691	0235
6018	HSK63AH100ER16M	63	16M	22	100	42	20	25	•	5694	811-303119
6019	HSK63AH160ER16M	63	16M	22	160	90	20	26	•	5694	811-303119
6020	HSK63AH100ER20M	63	20M	28	100	48	26	30	•	5695	811-303120
6022	HSK63AH100ER25M	63	25M	35	100	-	33	-	•	5696	811-303121
6074	HSK63AH160ER11M	63	11M	16	160	50	14	23	•	5691	0235
6021	HSK63AH160ER20M	63	20M	28	160	98	26	31	•	5695	811-303120
6023	HSK63AH160ER25M	63	25M	35	160	95	33	35	•	5696	811-303121
6024	HSK100AH100ER16M	100	16M	22	100	47	22	26	•	5694	811-303119

ACCESSORIES

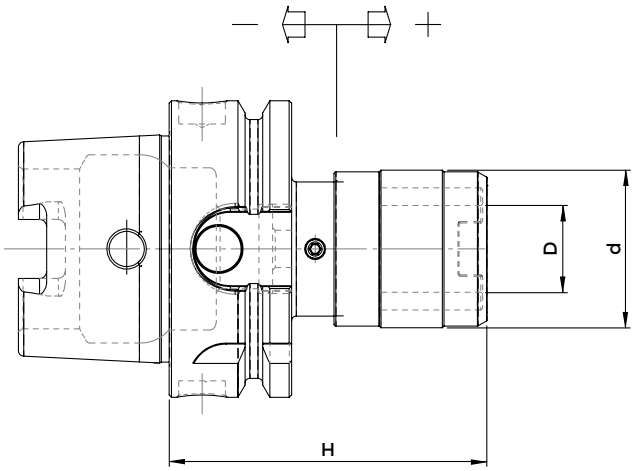

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TENSION AND COMPRESSION TAPPING HEADS



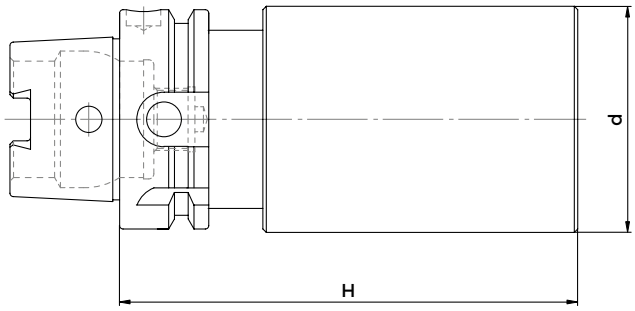


DIN 69893 A+C

COD.	DESCRIPTION	HSK	SIZE	TAP SIZE RANGE	RANGE	D	d	H
6454	HSK63AH72GR1	63	1	M3-M12	- 7,5 + 7,5	19	48	72
6455	HSK63AH110GR2	63	2	M6-M20	- 10 + 10	31	60	110
6457	HSK100AH100GR2	100	1	M3÷M12	- 7,5 + 7,5	19	48	80
6458	HSK100AH100GR2	100	2	M6÷M20	- 10 + 10	31	60	100
6459	HSK100AH144GR3	100	3	M14÷M33	- 17,5 + 17,5	48	79	144

BLANK TOOLHOLDERS WITH SOFT SHANK





DIN 69893 A+C

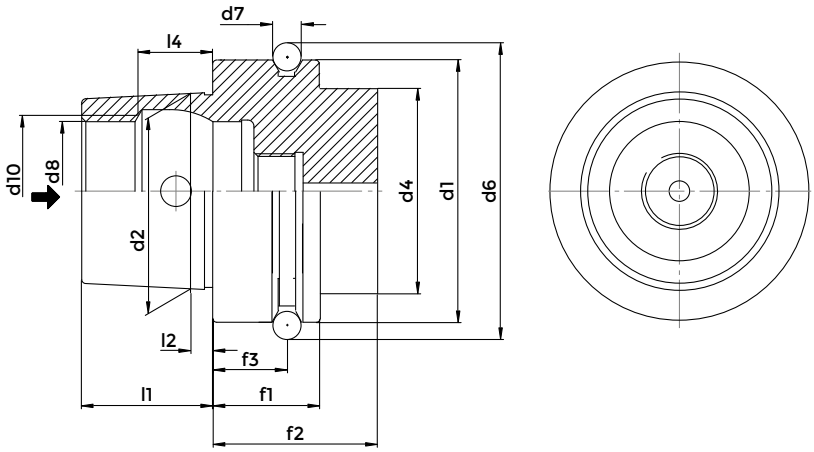
COD.	DESCRIPTION	HSK	H	d
6440	HSK32AH150D35SM	32	150	35
6441	HSK40AH150D40SM	40	150	40
6442	HSK40AH200D52SM	40	200	52
6443	HSK50AH200D52SM	50	200	52
6444	HSK50AH200D63SM	50	200	63
217-11783	HSK63AH160D63SM	63	160	63
6445	HSK63AH250D63SM	63	250	63
217-11784	HSK63AH160D80SM	63	160	80
6446	HSK63AH250D80SM	63	250	80
6447	HSK100AH200D63SM	100	200	63
6448	HSK100AH250D80SM	100	250	80
6449	HSK100AH300D90SM	100	300	90



HSK E CHUCKS

DIN 69893-5

TAPER SHANKS
DATA SHEET



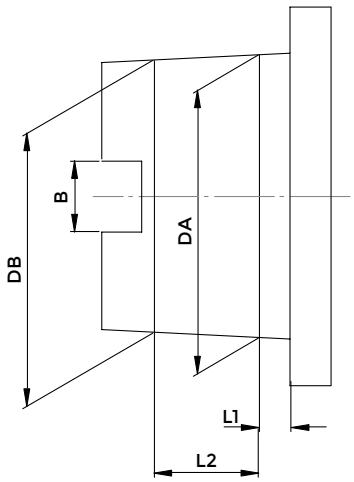
DIN 69893 E

	HSK 25	HSK 32	HSK 40	HSK 50	HSK 63
d1	25	32	40	50	63
d2	19	24	30	38	48
d4	20	26	34	42	53
d6	28,5	37	45	59,3	72,3
d7	3	4	4	7	7
d8	14	17	21	26	34
d10	15	19	23	29	37
f1	10	20	20	26	26
f2	20	35	35	42	42
f3	4,5	16	16	18	18
l1	13	16	20	25	32
l2	2,5	3,2	4	5	6,3
l4	7,21	8,92	11,42	14,13	18,13

FORM E

- Used for high frequency spindles and wood machining.
- Rotationally symmetrical, without key slots.
- Torque transmission via friction
- Central coolant supply possible through coolant channel.

CONE TOLERANCE



DIN 69893 E

HSK	L1	L2	DA	DB	B (only tipe A+C)
25 A+C+E	2,5	8,5	19 +0,005 +0,007	18,15 +0,003 +0,005	6.05 +/- 0.04
32 A+C	3,2	7,03	24 +0.005 +0.007	23,27 +0.003 +0.005	7.05 +/- 0.04
40 A+C+E	4	9,05	30 +0.005 +0.007	29,05 +0.003 +0.005	8.05 +/- 0.04
40 B+D	3,2	7,03	24 +0.005 +0.007	23,27 +0.003 +0.005	-
50 A+C+E	5	11	38 +0.006 +0.009	36,9 +0.003 +0.006	10.54 +/- 0.04
50 B+D+F	4	9,05	30 +0.005 +0.007	29,05 +0.003 +0.005	-
63 A+C+E	6,3	14,07	48 +0.007 +0.011	46,53 +0.003 +0.007	12.54 +/- 0.04
63 B+D+F	5	11	38 +0.006 +0.009	39,9 +0.003 +0.006	-
100 A+C	10	24	75 +0.009 +0.015	72,6 +0.003 +0.009	20.02 +/- 0.04
100 B+D	8	19	60 +0.008 +0.013	58,1 +0.003 +0.008	-

TECHNICAL DATA
KINTEK CHUCKS WITH ISO FITTING

All KINTEK toolholders are manufactured according to DIN norms. (these norms provide the same classes of tolerance for the attachment DIN69893 A+C, B+D, E, F)

COLLET CHUCK RUNOUT ACCURACY

The norm DIN 69882-6 permits a runout error of 0,005 mm. for DIN6499/ISO15488 collet chucks.

SHELL END MILL ADAPTOR RUNOUT ACCURACY

Our shell end mill adaptors meet the requirements of the norm DIN 69882-2, which prescribes for diameters Ø 16,22,27,32 a runout accuracy of 0,01.

WELDON END MILL HOLDER RUNOUT ACCURACY

According to norm DIN 69882-4 Weldon end mill holders have to meet the following requirements:

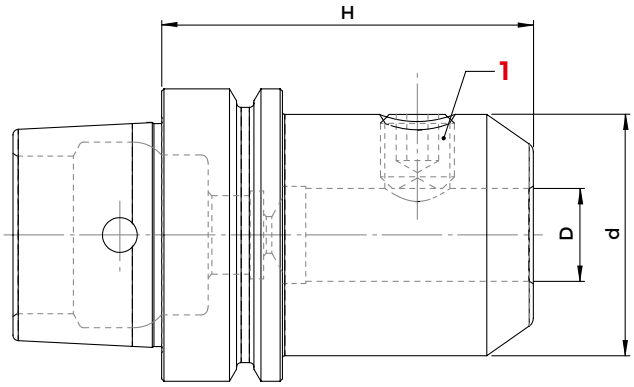
BORE: H5
RUNOUT ACCURACY: 0.005.

CONSTRUCTIVE FEATURES

- Manufactured with Casehardening Steel.
- Casehardened with depth 0,4 - 0,5 mm
- Hardened-Tempered
- Hardness HRC 58+-2, Strength 800-1000 N/mm^2
- Black oxided
- Thread of collet nuts, internal and external diameters are completely grinding finished
- Tested 100% with certified measuring instruments

END MILL HOLDERS WELDON - HIGH SPEED LINE





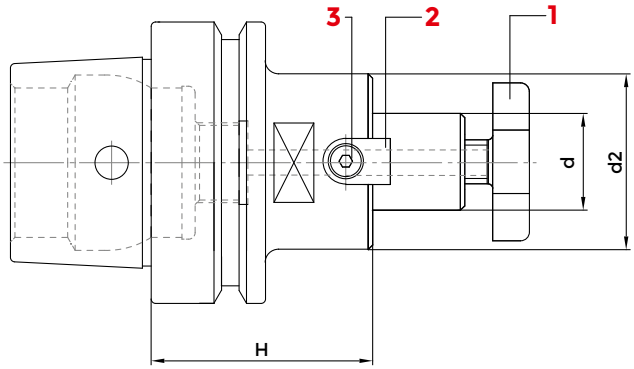
DIN 69893 A+C - DIN 1835/B

HIGH SPEED LINE

							1
COD.	DESCRIPTION	HSK	D	d	H	G2.5 25000	SCREW
							
6637	HSK50EH80W20	50	20	52	80	•	4975
6640	HSK50EH105W25	50	25	65	105	•	4976
6646	HSK63EH65W08	63	8	28	65	•	4971
6658	HSK63EH80W16	63	16	48	80	•	4974
6664	HSK63EH80W20	63	20	52	80	•	4975
6667	HSK63EH105W25	63	25	65	105	•	4976
6670	HSK63EH110W32	63	32	72	110	•	4977

FACE MILL HOLDERS-TENONS DRIVE





DIN 69893 E - ISO 3937

							1	1	2	3	
COD.	DESCRIPTION	HSK	H	d	d2	G6.3 8000	CROSS SCREW	CROSS SCREW ON ENQUIRY	DOWELS	SCREW	WRENCH
											
6850	HSK40EH45D16F	40	45	16	38	•	4985	2739	7421	0255	4562
6851	HSK40EH50D22F	40	50	22	48	•	4986	2740	7427	0256	4563
6853	HSK50EH50D16F	50	50	16	38	•	4985	2739	7421	0255	4562
6855	HSK50EH60D22F	50	60	22	48	•	4986	2740	7427	0256	4563
216-77318	HSK50EH60D27F	50	60	27	58	•	4987	2741	7428	7414	4564
6863	HSK63EH50D22F	63	50	22	48	•	4986	2740	7427	0256	4563
6864	HSK63EH100D22F	63	100	22	48	•	4986	2740	7427	0256	4563
216-77310	HSK63EH55D27F	63	55	27	58	•	4987	2741	7428	7414	4564
6865	HSK63EH60D27F	63	60	27	58	•	4987	2741	7428	7414	4564
6866	HSK63EH100D27F	63	100	27	58	•	4987	2741	7428	7414	4564

ACCESSORIES

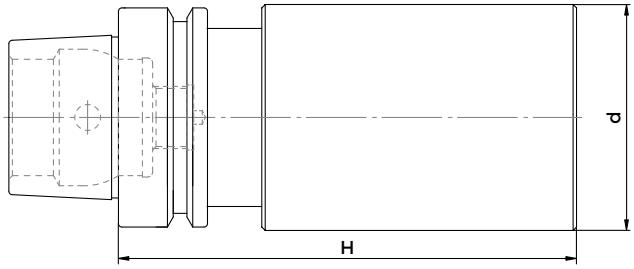

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BLANK TOOLHOLDERS WITH SOFT SHANK



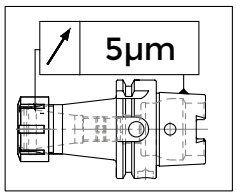


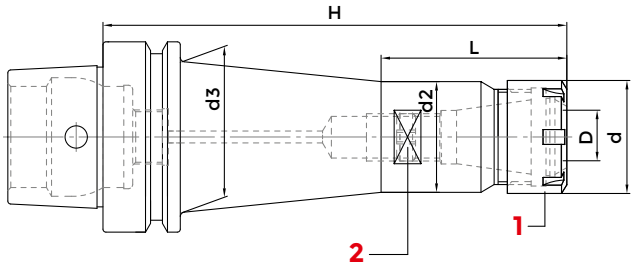
DIN 69893 E

COD.	DESCRIPTION	HSK	H	d
6947	HSK63EH200D63SM	63	200	63

ER MINI COLLET CHUCKS - HIGH SPEED LINE







H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

DIN 6499 - ISO 15488

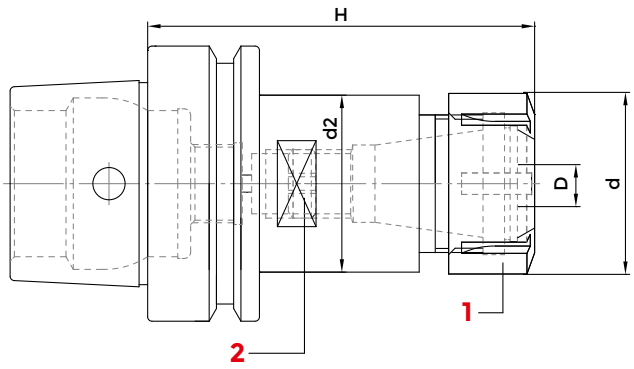
HIGH SPEED LINE

											1	2	
COD.	DESCRIPTION	HSK	H	D	d	ER	L	d2	d3	G2.5 30000	NUT	SCREW	WRENCH
													
6610	HSK25EH43ER16M	25	43	0,5÷10	22	16M	-	19	-	•	5694	811-303119	5719
6612	HSK32EH60ER16M	32	60	0,5÷10	22	16M	-	20	-	•	5694	811-303119	5719
6614	HSK32EH60ER25M	32	60	1÷16	35	25M	-	30	-	•	5696	811-303121	5721
6500	HSK40EH70ER16M	40	70	0,5÷10	22	16M	-	20	-	•	5694	811-303119	5719
6502	HSK40EH120ER16M	40	120	0,5÷10	22	16M	47	20	29	•	5694	811-303119	5719
6508	HSK40EH80ER25M	40	80	1÷16	35	25M	-	34	-	•	5696	811-303121	5721
6513	HSK50EH80ER16M	50	80	0,5÷10	22	16M	-	20	-	•	5694	811-303119	5719
6514	HSK50EH150ER16M	50	150	0,5÷10	22	16M	47	20	40	•	5694	811-303119	5719
6521	HSK63EH90ER16M	63	90	0,5÷10	22	16M	-	20	-	•	5694	811-303119	5719
6523	HSK63EH160ER16M	63	160	0,5÷10	22	16M	47	20	39	•	5694	811-303119	5719

ACCESSORIES
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ER COLLET CHUCKS - HIGH SPEED LINE





DIN 6499 - ISO 15488

HIGH SPEED LINE

									1	2
COD.	DESCRIPTION	HSK	H	D	d	ER	d2	G2.5 30000	NUT	SCREW
										
6526	HSK40EH65ER32	40	65	2÷20	50	32	33	•	4996	811-303121
6537	HSK50EH95ER25	50	95	1÷16	42	25	41,5	•	4995	811-103118
6539	HSK50EH100ER32	50	100	2÷20	50	32	42	•	4996	811-303121
6543	HSK63EH70ER25	63	70	1÷16	42	25	41	•	4995	811-303121
214-37307	HSK63EH90ER25	63	90	1÷16	35	25	42	•	4995	811-303121
6544	HSK63EH100ER25	63	100	1÷16	42	25	41	•	4995	811-103118
6545	HSK63EH75ER32	63	75	2÷20	50	32	49	•	4996	811-103118
6546	HSK63EH100ER32	63	100	2÷20	50	32	49,5	•	4996	811-303122
6550	HSK63EH80ER40	63	80	3÷30	63	40	50	•	4997	3671

ACCESSORIES


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GAIT

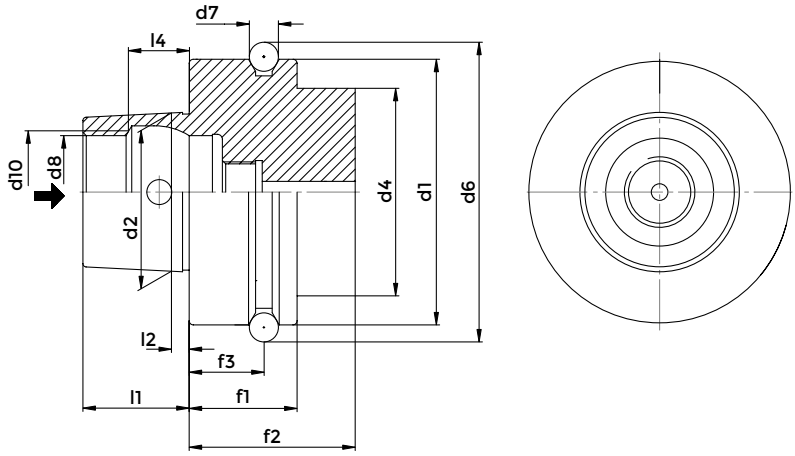
READY, ALWAYS.



HSK F CHUCKS

DIN 69893-6

TAPER SHANKS
DATA SHEET



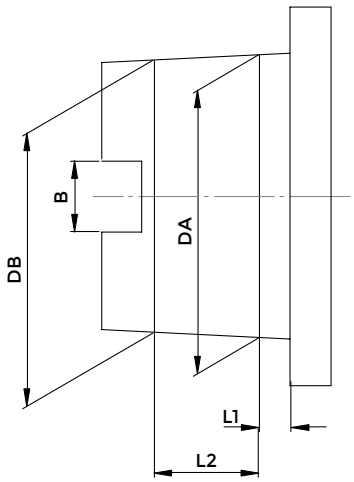
DIN 69893 F

	HSK 50	HSK 63
d1	50	63
d2	30	38
d4	42	53
d6	59,3	72,3
d7	7	7
d8	21	26
d10	23	29
f1	26	26
f2	42	42
f3	18	18
l1	20	25
l2	4	5
l4	11,42	14,13

FORM F

- Used for high frequency spindles and wood machining.
- With larger collar.
- Central coolant supply possible trough coolant hose.

CONE TOLERANCE



DIN 69893 F

HSK	L1	L2	DA	DB	B (only type A+C)
32 A+C	3,2	7,3	24 +0.005 +0.007	23,27 +0.003 +0.005	7.05 +/- 0.04
40 A+C+E	4	9,5	30 +0.005 +0.007	29,05 +0.003 +0.005	8.05 +/- 0.04
40 B+D	3,2	7,3	24 +0.005 +0.007	23,27 +0.003 +0.005	-
50 A+C+E	5	11	38 +0.006 +0.009	36,9 +0.003 +0.006	10.54 +/- 0.04
50 B+D+F	4	9,5	30 +0.005 +0.007	29,05 +0.003 +0.005	-
63 A+C+E	6,3	14,7	48 +0.007 +0.011	46,53 +0.003 +0.007	12.54 +/- 0.04
63 B+D+F	5	11	38 +0.006 +0.009	36,9 +0.003 +0.006	-
100 A+C	10	24	75 +0.009 +0.015	72,6 +0.003 +0.009	20.02 +/- 0.04
100 B+D	8	19	60 +0.008 +0.013	58,1 +0.003 +0.008	-

TECHNICAL DATA
KINTEK CHUCKS WITH ISO FITTING

All KINTEK toolholders are manufactured according to DIN norms. (these norms provide the same classes of tolerance for the attachment DIN69893 A+C, B+D, E, F)

COLLET CHUCK RUNOUT ACCURACY

The norm DIN 69882-6 permits a runout error of 0,005 mm. for DIN6499/ISO15488 collet chucks.

SHELL END MILL ADAPTOR RUNOUT ACCURACY

Our shell end mill adaptors meet the requirements of the norm DIN 69882-2, which prescribes for diameters Ø 16,22,27,32 a runout accuracy of 0,01

WELDON END MILL HOLDER RUNOUT ACCURACY

According to norm DIN 69882-4 Weldon end mill holders have to meet the following:

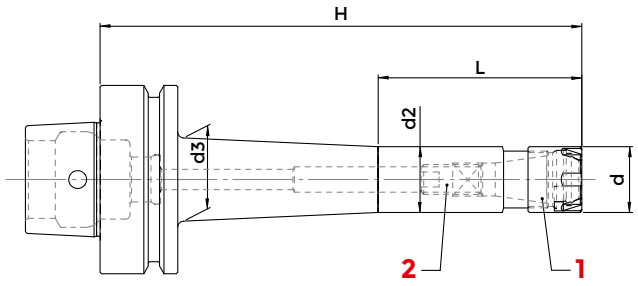
BORE: H5
RUNOUT ACCURACY: 0.005.

CONSTRUCTIVE FEATURES

- Manufactured with Casehardening Steel.
- Casehardened with depth 0,4 - 0,5 mm
- Hardened-Tempered
- Hardness HRC 58+-2, Strength 800-1000 N/mm^2
- Black oxided
- Thread of collet nuts, internal and external diameters are completely grinding finished
- Tested 100% with certified measuring instruments

ER MINI COLLET CHUCKS - HIGH SPEED LINE





DIN 69893F - DIN 6499/ISO 15488

HIGH SPEED LINE

											1	2	
COD.	DESCRIPTION	HSK	H	D	d	ER	L	d2	d3	G2.5 30000	NUT	SCREW	WRENCH
													
6756	HSK50FH80ER16M	50	80	0,5÷10	22	16M	-	21,5	-	•	5694	811-303119	5719
6759	HSK63FH100ER16M	63	100	0,5÷10	22	16M	47	21,5	26	•	5694	811-303119	5719
6856	HSK63FH100ER20M	63	100	1÷15	28	20M	-	27	-	•	5695	0200	5720
6858	HSK63FH100ER25M	63	100	1÷16	35	25M	-	33	-	•	5696	811-303121	5721
6761	HSK63FH160ER25M	63	160	1÷16	35	25M	68	35	46	•	5696	811-303121	5721
6760	HSK63FH160ER16M	63	160	0,5÷10	22	16M	57	20	28	•	5694	811-303119	5719

ACCESSORIES

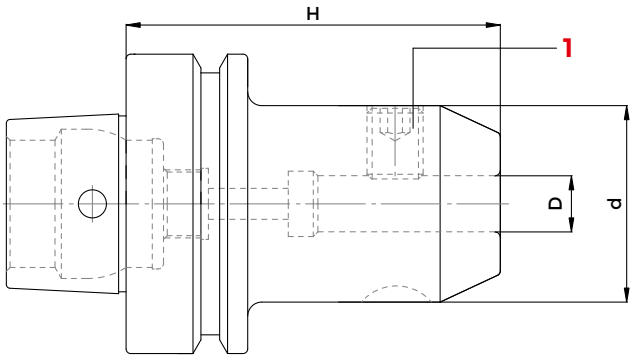
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END MILL HOLDERS WELDON - HIGH SPEED LINE





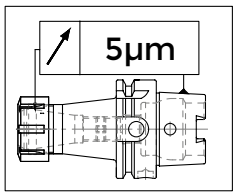
DIN 69893F - DIN 1835/B

HIGH SPEED LINE

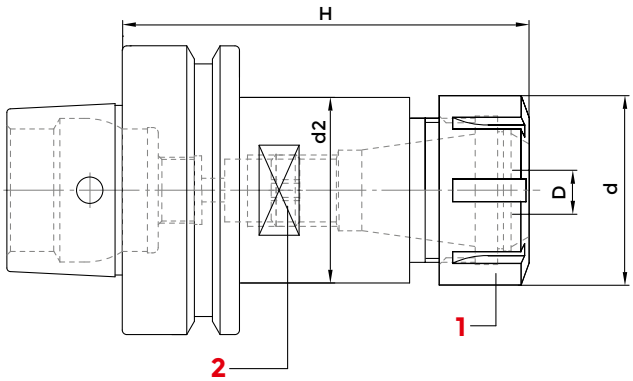
COD.	DESCRIPTION	HSK	H	D	d	G2.5 30000	1 SCREW
							
6079	HSK50FH70WE10	50	70	10	40	•	4972
6080	HSK50FH80WE12	50	80	12	48	•	4973
6083	HSK63FH65WE06	63	65	6	25	•	4970
6084	HSK63FH65WE08	63	65	8	28	•	4971
6085	HSK63FH65WE10	63	65	10	35	•	4972
6086	HSK63FH80WE12	63	80	12	42	•	4973
6087	HSK63FH80WE16	63	80	16	48	•	4974
6088	HSK63FH85WE20	63	85	20	52	•	4975
6089	HSK63FH110WE25	63	110	25	65	•	4976
6839	HSK63FH110WE32	63	110	32	72	•	4977

ER COLLET CHUCKS - HIGH SPEED LINE





H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm



DIN 69893 F - DIN 6499/ISO 15488

HIGH SPEED LINE

COD.	DESCRIPTION	HSK	H	D	d	ER	L	d2	d3	G2.5 30000	1 NUT	2 SCREW	WRENCH
6762	HSK50FH80ER25	50	80	1÷16	42	25	-	32	-	•	4995	811-303121	3669
6602	HSK50FH73ER32	50	73	2÷20	50	32	-	40	-	•	4996	0191	3670
6763	HSK50FH100ER32	50	100	2÷20	50	32	-	40	-	•	4996	0191	3670
6793	HSK63FH120ER16	63	120	1÷12	32	16	-	28	-	•	4993	0186	3698
6794	HSK63FH160ER16	63	160	1÷12	32	16	-	28	-	•	4993	0186	3698
6795	HSK63FH100ER20	63	100	1÷15	35	20	-	34	-	•	4994	0188	3699
6796	HSK63FH120ER20	63	120	1÷15	35	20	-	34	-	•	4994	0188	3699
6797	HSK63FH160ER20	63	160	1÷15	35	20	-	34	-	•	4994	0188	3699
6604	HSK63FH73ER25	63	73	1÷16	42	25	-	41,5	-	•	4995	811-303121	3669
6765	HSK63FH100ER25	63	100	1÷16	42	25	-	41,5	-	•	4995	811-303121	3669
6798	HSK63FH120ER25	63	120	1÷16	42	25	-	41,5	-	•	4995	811-303121	3669
6799	HSK63FH160ER25	63	160	1÷16	42	25	-	41,5	-	•	4995	811-303121	3669
6606	HSK63FH73ER32	63	73	2÷20	50	32	-	49,5	-	•	4996	0191	3670
6766	HSK63FH100ER32	63	100	2÷20	50	32	-	49,5	-	•	4996	0191	3670
6809	HSK63FH120ER32	63	160	0,5÷10	22	32	57	21,5	35	•	5694	811-303119	5719
6767	HSK63FH160ER32	63	160	2÷20	50	32	-	49,5	-	•	4996	0191	3670
6768	HSK63FH80ER40	63	80	3÷30	63	40	-	50	-	•	4997	-	3671
6769	HSK63FH120ER40	63	120	3÷30	63	40	-	50	-	•	4997	-	3671
6810	HSK63FH160ER40	63	160	3÷30	63	40	-	50	-	•	4997	-	3671

ACCESSORIES

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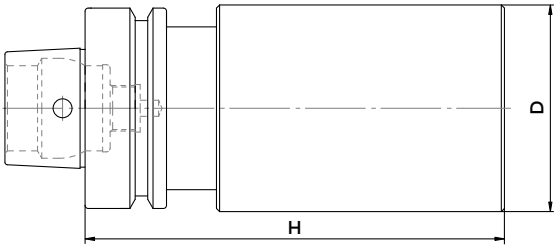


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BLANCK TOOLHOLDERS WITH SOFT SHANK



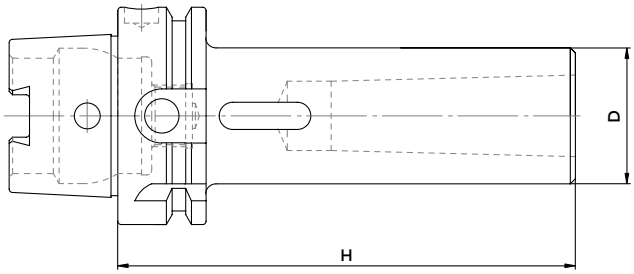


DIN 69893 F

COD.	DESCRIPTION	HSK	H	d
6787	HSK63FH200D63SM	63	200	63

MORSE TAPER MILL ADAPTERS WITH INTERNAL COOLANT

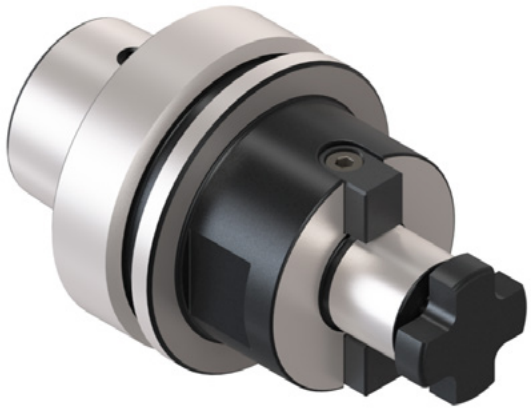


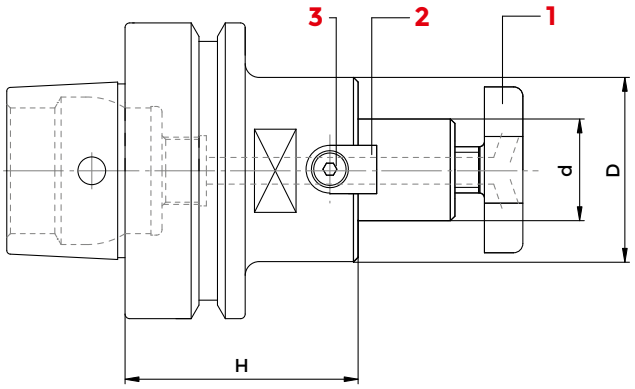


DIN 69893 F - ISO 3937

COD.	DESCRIPTION	HSK	CM	d	H
6294	HSK63FH120CM2P	63	2	32	120
6295	HSK63FH140CM3P	63	3	40	140
6296	HSK63FH165CM4P	63	4	48	165

FACE MILL HOLDERS-TENONS DRIVE





DIN 69893 F - ISO 3937

COD.	DESCRIPTION	HSK	H	d	d2	G2.5 20000	1 CROSS SCREW	1 CROSS SCREW ON ENQIRY	2 DOWELS	3 SCREW	WRENCH
6267	HSK50FH50D16F	50	50	16	38	•	4985	2739	7421	0255	4562
6268	HSK50FH50D22F	50	50	22	48	•	4986	2740	7427	0256	4563
6269	HSK50FH50D27F	50	50	27	58	•	4987	2741	7428	7414	4564
6270	HSK63FH45D16F	63	45	16	38	•	4985	2739	7421	0255	4562
6503	HSK63FH100D16F	63	100	16	38	•	4985	2739	7421	0255	4562
6271	HSK63FH50D22F	63	50	22	48	•	4986	2740	7427	0256	4563
6504	HSK63F100D22F	63	100	22	48	•	4986	2740	7427	0256	4563
6272	HSK63FH55D27F	63	55	27	58	•	4987	2741	7428	7414	4564
6505	HSK63FH100D27F	63	100	27	58	•	4987	2741	7428	7414	4564
6273	HSK63FH60D32F	63	60	32	78	•	4988	2742	7429	0099	4565
6506	HSK63FH100D32F	63	100	32	66	•	4988	2742	7429	0099	4565
6274	HSK63FH60D40F	63	60	40	80	•	4989	2743	7430	0099	4566
6507	HSK63FH100D40F	63	100	40	80	•	4989	2743	7430	0099	4566

ACCESSORIES

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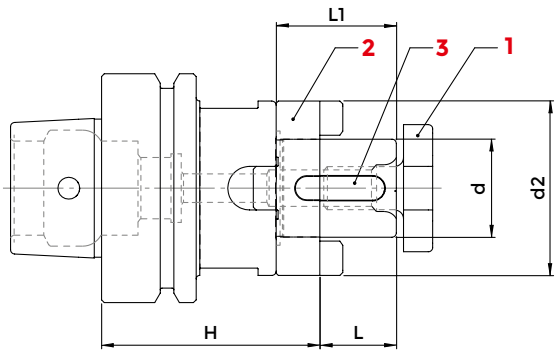


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COMBI-SHELL MILL ADAPTORS



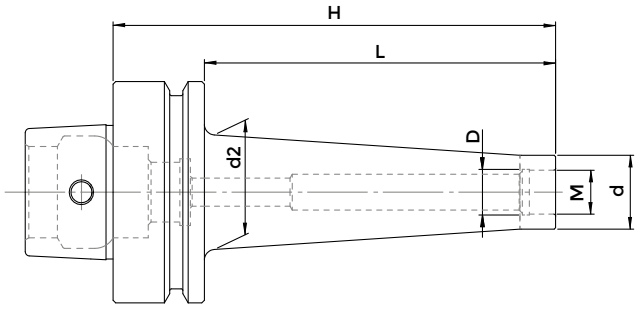


DIN 69893 F

COD.	DESCRIPTION	HSK	H	d	d2	L	L1	G6,3 8000	1 RING	2 CROSS SCREW	3 KEY	WRENCH
6398	HSK63FH60D16C	63	60	16	32	17	27	•	4985	4090	0115	4562
6399	HSK63FH60D22C	63	60	22	40	19	31	•	4986	4091	0116	4563
6400	HSK63FH60D27C	63	60	27	48	21	33	•	4987	4092	0122	4564
6401	HSK63FH60D32C	63	60	32	58	24	38	•	4988	4093	0125	4565
6402	HSK63FH70D40C	63	40	40	70	27	41	•	4989	4094	0133	4566

END MILL HOLDERS FOR MILLING CUTTERS WITH THREADED SHANKS



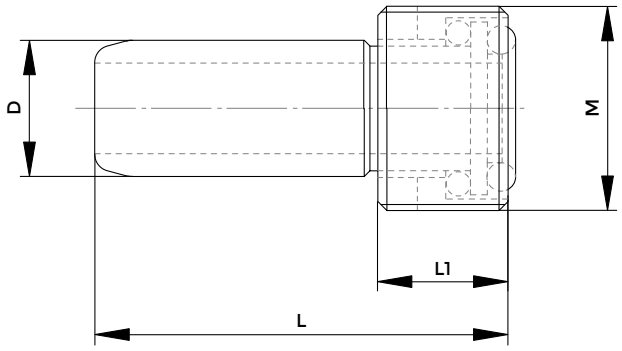


DIN 69893 F

COD.	DESCRIPTION	HSK	M	D	d	d2	H	L	G2,5 20000
6875	HSK63FH84M8	63	M8	8,5	13	23	84	50	•
6879	HSK63FH84M10	63	M10	10,5	18	23	84	50	•
6880	HSK63FH109M10	63	M10	10,5	18	28	109	75	•
6883	HSK63FH84M12	63	M12	12,5	21	24	84	50	•
6885	HSK63FH134M12	63	M12	12,5	21	33	134	100	•
6886	HSK63FH59M16	63	M16	17	29	34	59	33	•
6887	HSK63FH84M16	63	M16	17	29	34	84	50	•
6888	HSK63FH109M16	63	M16	17	29	34	109	75	•
6889	HSK63FH134M16	63	M16	17	29	36	134	100	•

COOLANT SUPPLY UNIT

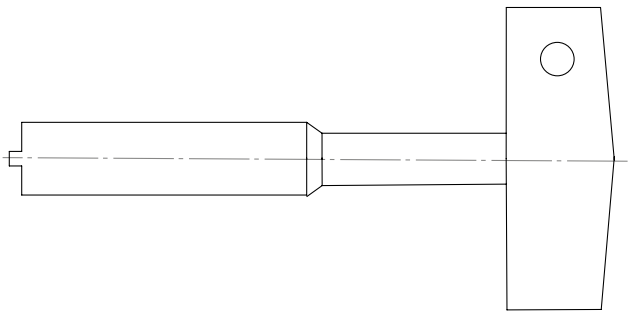




COD.	HSK	M	d	L	L1
0413	A+C32, B+D40	M10x1	6	26	5,5
0414	A+C40, B+D50, E40, F50	M12x1	8	29,3	7,5
0415	A+C50, B+D63, E50, F63	M16x1	10	33	9,5
0416	A+C63, E63	M18x1	12	36,6	11,5
832-016050	B+D100-80A	M20x1,5	14	40	13,5
0418	A+C100	M24x1,5	16	44	15,5

KEY FOR COOLANT SUPPLY UNIT



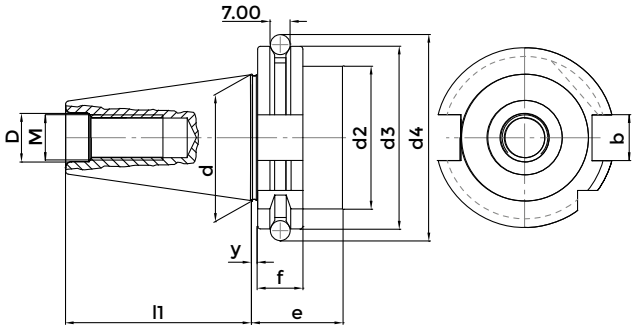


COD.	HSK
0470	32
0471	40
0472	50
0473	63
0474	100



SK CHUCKS
DIN 69871

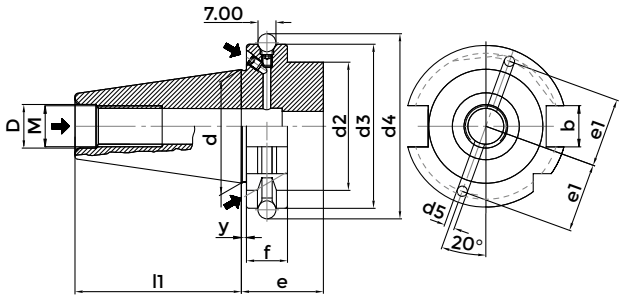
TAPER SHANKS DATA SHEET

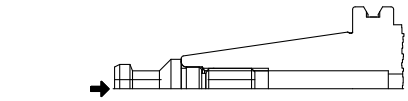


DIN 69871 - SK - SHAPE A

ISO	d	l1	D	M	y	d2	f	d3	d4	e	b
30	31,75	47,8	13	M12	3,2	45	15,9	50	59,3	35	16,1
40	44,45	68,4	17	M16	3,2	50	15,9	63,55	72,3	35	16,1
45	57,15	82,7	21	M20	3,2	63	15,9	82,55	91,35	35	19,3
50	69,85	101,75	25	M24	3,2	80	15,9	97,5	107,25	35	25,7

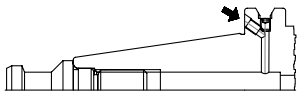
TECHNICAL FEATURES KINTEK SK TOOLHOLDERS





AD SHAPE

B SHAPE



DIN 69871 - SK - SHAPE AD / B

ISO	d	l1	D	M	y	d2	f	d3	d4	e	b	d5	e1
40	44,45	68,4	17	M16	3,2	50	15,9	63,55	72,3	35	16,1	4	27
45	57,15	82,7	21	M20	3,2	63	15,9	82,55	91,35	35	19,3	6	35
50	69,85	101,75	26	M24	3,2	80	15,9	97,5	107,25	35	25,7	5	42

For coolant through V-flange bores (B) or center of toolholders (AD). For central coolant, the V-flange channels are closed by socket screws.

TECHNICAL FEATURES KINTEK SK TOOLHOLDERS

DIN 69871 A DIN 69871 AD/B

All Kintek Toolholders are manufactured according to DIN norm.

COLLET CHUCK RUNOUT ACCURACY

The norm DIN6391 permits a runout error between external cone and internal cone / collet seat of 0.016. Our production has a runout accuracy which is guaranteed to be within 0,003 / 0,010 m at the tool seat.

SHELL END MILL ADAPTOR RUNOUT ACCURACY

Our shell end mill adaptors meet the requirements of the norm DIN6358, which prescribes for diameters 16-22-27-32-40 a runout accuracy of: 0,01 for SK 30/40 0,015 for SK 50.

SHELL END MILL ADAPTOR'S RUNOUT ACCURACY

According to the norm DIN6359-1 Weldon end mill holders have to meet the following requirements:
BORE: H5 tolerance
RUNOUT ACCURACY: < 0.01 (for SK 40)
Our end mill adaptors ensure the prescribed holes' tolerance and have a runout accuracy which is normally 0.005.

BALANCING

The major part of toolholders of this category can run up to 8000 rpm grade G 6,3 or 12000 rpm. Besides the descriptive and dimensional table of products, you can find the addictive balancing grade.

CONSTRUCTIVE FEATURES

- Manufactured with Casehardening Steel.
- Casehardened with depth 0,6 - 0,8 mm
- Hardened-Tempered
- Hardness HRC 58+-2, Strength 800-1000 N/mm^2
- Black oxided
- Internal and external grinding finished.

NEW HIGH-SPEED BALANCING TOOLHOLDERS

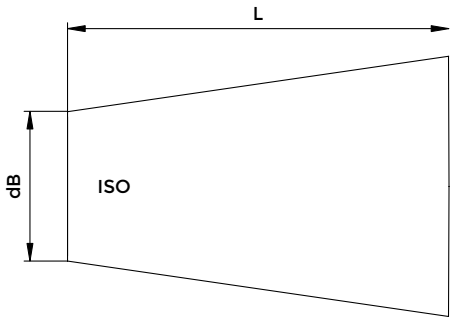
The new high-speed toolholders are balanced in the Grade G 2,5 at 25000 rpm.

CONSTRUCTIVE FEATURES FOR HIGH-SPEED TOOLHOLDERS

- Manufactured with casehardening Steel.
- Casehardened with depth 0,6 - 0,8 mm
- Hardened-Tempered
- Hardness HRC 58+-2, Strength 800-1000 N/mm^2
- Black oxided
- Internal and external grinding finish of the cone
- Grinding finish on the front side and on the thread of collet nuts.
- Tested 100% with certified measuring instruments and supplied with balancing certificate

CONE TOLERANCE

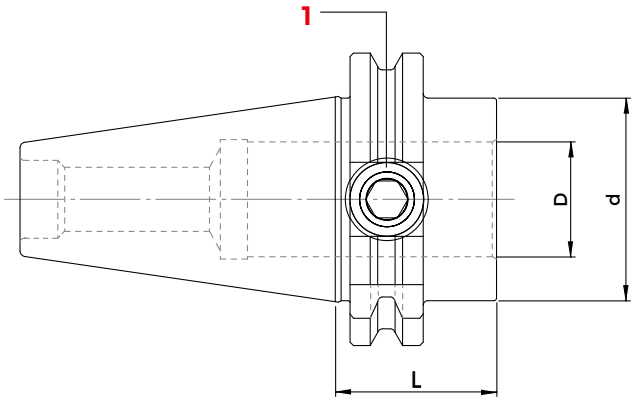
ACCORDING TO THE CLASS AT3.



ISO	L	dA-dB	AT3
30	42	12.250	+0.002
40	59	17.208	+0.003
45	73	21.292	+0.003
50	92	26.833	+0.004

SHORT TYPE END MILL HOLDERS



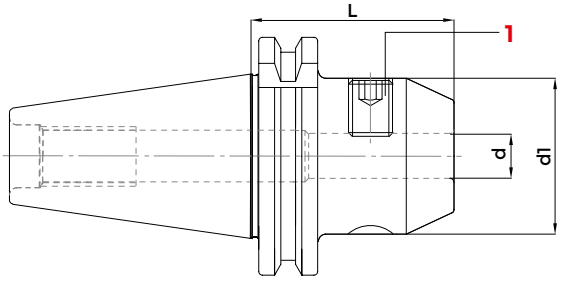


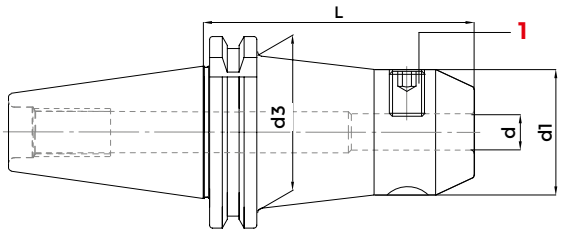
DIN69871

COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	D	L	d	G6,3 12000	1 SCREW 1	1 SCREW 2
									
3079	8341	TC 40 - WE 12 / H 35	40	12	35	44	•	4973	-
3080	2231	TC 40 - WE 16 / H 35	40	16	35	44	•	0068	-
3081	2242	TC 40 - WE 20 / H 35	40	20	35	44	•	0070	-
3082	2243	TC 40 - WE 25 / H 35	40	25	35	44	•	0076	-
3015	4641	TC 40 - WE 25 / H 60	40	25	60	49	•	0076	0076
3083	4642	TC 40 - WE 32 / H 40	40	32	40	44	•	0074	-
4640	4643	TC 40 - WE 32 / H 70	40	32	70	72	•	0082	4977
3086	2234	TC 50 - WE 16 / H 35	50	16	35	70	•	4974	-
3087	2237	TC 50 - WE 20 / H 35	50	20	35	70	•	4975	-
3088	2251	TC 50 - WE 25 / H 35	50	25	35	70	•	4976	-
3089	2252	TC 50 - WE 32 / H 35	50	32	35	80	•	4977	-
3136	8345	TC 50 - WE 40 / H 35	50	40	35	80	•	0259	-

WELDON END MILL HOLDERS







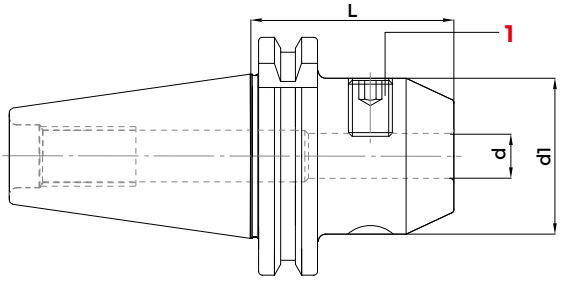
DIN69871 AD - DIN 1835 B

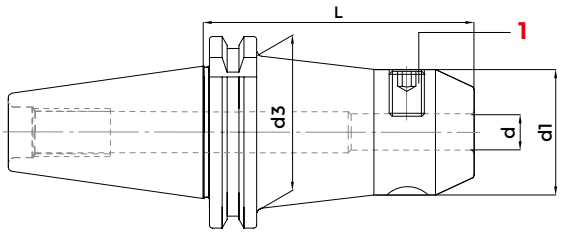
COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	d	L	d1	d3	G6,3 12000	1 SCREW
3707	-	TC 30 - WE 6 / H 45	30	6	45	25	-	•	4970
3708	-	TC 30 - WE 8 / H 45	30	8	45	28	-	•	4971
3709	-	TC 30 - WE 10 / H 50	30	10	50	35	-	•	4972
3710	-	TC 30 - WE 12 / H 50	30	12	50	42	-	•	4973
3711	-	TC 30 - WE 16 / H 70	30	16	70	48	-	•	4974
3712	-	TC 30 - WE 20 / H 70	30	20	70	52	-	•	4975
3714	4761	TC 40 - WE 6 / H 50	40	6	50	25	-	•	4970
5001	5028	TC 40 - WE 6 / H 100	40	6	100	25	35	•	4970
5400	5416	TC 40 - WE 6 / H 130	40	6	130	25	35	•	4970
5519	5551	TC 40 - WE 6 / H 160	40	6	160	25	35	•	4970
4029	4144	TC 40 - WE 6 / H 200	40	6	200	25	38	•	4970
3715	4762	TC 40 - WE 8 / H 50	40	8	50	28	-	•	4971
5002	5029	TC 40 - WE 8 / H 100	40	8	100	28	38	•	4971
5401	5417	TC 40 - WE 8 / H 130	40	8	130	28	38	•	4971
5520	5552	TC 40 - WE 8 / H 160	40	8	160	28	38	•	4971
4030	4146	TC 40 - WE 8 / H 200	40	8	200	28	41	•	4971
3716	4763	TC 40 - WE 10 / H 50	40	10	50	35	-	•	4972
5003	5030	TC 40 - WE 10 / H 100	40	10	100	35	40	•	4972
5402	5418	TC 40 - WE 10 / H 130	40	10	130	35	40	•	4972
5521	5553	TC 40 - WE 10 / H 160	40	10	160	35	40	•	4972
4031	4148	TC 40 - WE 10 / H 200	40	10	200	35	43	•	4972
3717	4764	TC 40 - WE 12 / H 50	40	12	50	42	-	•	4973
5004	5031	TC 40 - WE 12 / H 100	40	12	100	42	-	•	4973
5403	5419	TC 40 - WE 12 / H 130	40	12	130	42	-	•	4973
5524	5554	TC 40 - WE 12 / H 160	40	12	160	42	-	•	4973
4032	4150	TC 40 - WE 12 / H 200	40	12	200	42	48	•	4973
3594	4765	TC 40 - WE 14 / H 50	40	14	50	44	-	•	4973
5005	5032	TC 40 - WE 14 / H 100	40	14	100	44	-	•	4973
4033	4155	TC 40 - WE 14 / H 130	40	14	130	44	-	•	4973
4034	4157	TC 40 - WE 14 / H 160	40	14	160	44	-	•	4973
3718	4766	TC 40 - WE 16 / H 63	40	16	63	48	-	•	4974
5006	5033	TC 40 - WE 16 / H 100	40	16	100	48	-	•	4974
5404	5420	TC 40 - WE 16 / H 130	40	16	130	48	-	•	4974
5007	5035	TC 40 - WE 16 / H 160	40	16	160	48	-	•	4974
4036	4159	TC 40 - WE 16 / H 200	40	16	200	48	-	•	4974
3595	4767	TC 40 - WE 18 / H 63	40	18	63	50	-	•	4974
5008	5036	TC 40 - WE 18 / H 100	40	18	100	50	-	•	4974

follows >>

WELDON END MILL HOLDERS







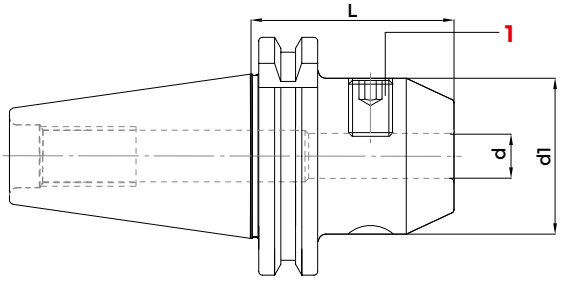
DIN69871 AD - DIN 1835 B

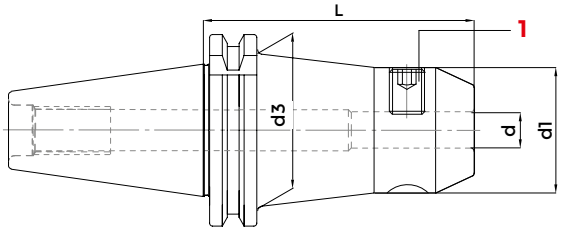
COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	d	L	d1	d3	G6,3 12000	1 SCREW
4037	4160	TC 40 - WE 18 / H 130	40	18	130	50	-	•	4974
3719	4768	TC 40 - WE 20 / H 63	40	20	63	52	-	•	4975
5010	5038	TC 40 - WE 20 / H 100	40	20	100	52	-	•	4975
5011	5039	TC 40 - WE 20 / H 130	40	20	130	52	-	•	4975
5012	5040	TC 40 - WE 20 / H 160	40	20	160	50	-	•	4975
4043	4164	TC 40 - WE 20 / H 200	40	20	200	50	-	•	4975
3720	4769	TC 40 - WE 25 / H 100	40	25	100	50	-	•	4976
5013	5041	TC 40 - WE 25 / H 130	40	25	130	50	-	•	4976
5014	5042	TC 40 - WE 25 / H 160	40	25	160	65	-	•	4976
4044	4166	TC 40 - WE 25 / H 200	40	25	200	65	-	•	4976
3721	4770	TC 40 - WE 32 / H 100	40	32	100	65	-	•	4977
5015	5043	TC 40 - WE 32 / H 130	40	32	130	65	-	•	4977
5016	5044	TC 40 - WE 32 / H 160	40	32	160	72	-	•	4977
4045	4168	TC 40 - WE 32 / H 200	40	32	200	72	-	•	4977
4457	4771	TC 40 - WE 40 / H 115	40	40	115	80	-	•	4977
3722	-	TC 45 - WE 6 / H 63	45	6	63	25	-	•	4970
3723	-	TC 45 - WE 8 / H 63	45	8	63	28	-	•	4971
3724	-	TC 45 - WE 10 / H 63	45	10	63	35	-	•	4972
3725	-	TC 45 - WE 12 / H 63	45	12	63	42	-	•	4973
3726	-	TC 45 - WE 16 / H 63	45	16	63	48	-	•	4974
3727	-	TC 45 - WE 20 / H 63	45	20	63	52	-	•	4975
3728	-	TC 45 - WE 25 / H 100	45	25	100	65	-	•	4976
3729	-	TC 45 - WE 32 / H 100	45	32	100	72	-	•	4977
4515	-	TC 45 - WE 40 / H 100	45	40	100	80	-	•	4977
3730	4783	TC 50 - WE 6 / H 63	50	6	63	25	-	•	4970
5017	5045	TC 50 - WE 6 / H 100	50	6	100	25	35	•	4970
5405	5426	TC 50 - WE 6 / H 130	50	6	130	25	35	•	4970
5525	5555	TC 50 - WE 6 / H 160	50	6	160	25	35	•	4970
4123	4173	TC 50 - WE 6 / H 200	50	6	200	25	38	•	4970
3731	4784	TC 50 - WE 8 / H 63	50	8	63	28	-	•	4971
5018	5046	TC 50 - WE 8 / H 100	50	8	100	28	38	•	4971
5406	5427	TC 50 - WE 8 / H 130	50	8	130	28	38	•	4971
5526	5556	TC 50 - WE 8 / H 160	50	8	160	28	38	•	4971
4125	4175	TC 50 - WE 8 / H 200	50	8	200	28	41	•	4971
3732	4785	TC 50 - WE 10 / H 63	50	10	63	35	-	•	4972
5019	5047	TC 50 - WE 10 / H 100	50	10	100	35	42	•	4972
5407	5428	TC 50 - WE 10 / H 130	50	10	130	35	42	•	4972

follows >>

WELDON END MILL HOLDERS





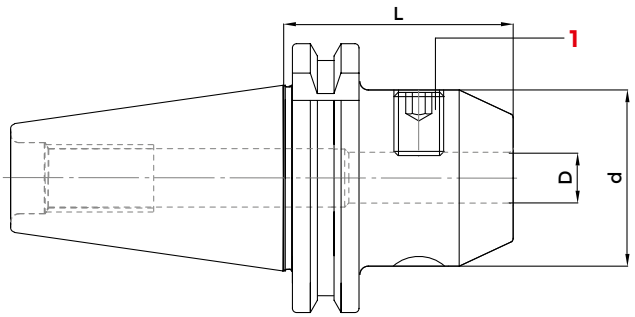


DIN69871 AD - DIN 1835 B

COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	d	L	d1	d3	G6,3 12000	1 SCREW
5527	5558	TC 50 - WE 10 / H 160	50	10	160	35	42	•	4972
4128	4177	TC 50 - WE 10 / H 200	50	10	200	35	45	•	4972
3733	4786	TC 50 - WE 12 / H 63	50	12	63	42	-	•	4973
5528	5559	TC 50 - WE 12 / H 100	50	12	100	42	48	•	4973
5408	5429	TC 50 - WE 12 / H 130	50	12	130	42	48	•	4973
5020	5048	TC 50 - WE 12 / H 160	50	12	160	42	48	•	4973
4129	4179	TC 50 - WE 12 / H 200	50	12	200	42	51	•	4973
4516	4787	TC 50 - WE 14 / H 63	50	14	63	44	-	•	4973
5529	5560	TC 50 - WE 14 / H 100	50	14	100	44	50	•	4973
4130	4182	TC 50 - WE 14 / H 130	50	14	130	44	50	•	4973
4132	4183	TC 50 - WE 14 / H 160	50	14	160	44	54	•	4973
3734	4788	TC 50 - WE 16 / H 63	50	16	63	48	-	•	4974
5534	5561	TC 50 - WE 16 / H 100	50	16	100	48	54	•	4974
5409	5430	TC 50 - WE 16 / H 130	50	16	130	48	54	•	4974
5022	5050	TC 50 - WE 16 / H 160	50	16	160	48	54	•	4974
4136	4206	TC 50 - WE 16 / H 200	50	16	200	48	57	•	4974
4517	4789	TC 50 - WE 18 / H 63	50	18	63	50	-	•	4974
5535	5562	TC 50 - WE 18 / H 100	50	18	100	50	56	•	4974
4137	4213	TC 50 - WE 18 / H 130	50	18	130	50	56	•	4974
4138	4215	TC 50 - WE 18 / H 160	50	18	160	50	56	•	4974
3735	4790	TC 50 - WE 20 / H 63	50	20	63	52	-	•	4975
5536	5563	TC 50 - WE 20 / H 100	50	20	100	52	59	•	4975
5410	5431	TC 50 - WE 20 / H 130	50	20	130	52	59	•	4975
5024	5052	TC 50 - WE 20 / H 160	50	20	160	52	59	•	4975
4140	4242	TC 50 - WE 20 / H 200	50	20	200	52	61	•	4975
3736	4791	TC 50 - WE 25 / H 80	50	25	80	65	-	•	4976
5413	5051	TC 50 - WE 25 / H 100	50	25	100	65	-	•	4976
5414	5432	TC 50 - WE 25 / H 130	50	25	130	65	-	•	4976
5025	5054	TC 50 - WE 25 / H 160	50	25	160	65	70	•	4976
4141	4244	TC 50 - WE 25 / H 200	50	25	200	65	72	•	4976
3737	4792	TC 50 - WE 32 / H 100	50	32	100	72	-	•	4977
5415	5433	TC 50 - WE 32 / H 130	50	32	130	72	-	•	4977
5026	5055	TC 50 - WE 32 / H 160	50	32	160	72	-	•	4977
4142	4245	TC 50 - WE 32 / H 200	50	32	200	72	-	•	4977
3738	4793	TC 50 - WE 40 / H 120	50	40	120	80	-	•	4977
5027	5056	TC 50 - WE 40 / H 160	50	40	160	80	-	•	4977
3739	4247	TC 50 - WE 50 / H 120	50	50	120	100	-	•	4978

WELDON END MILL HOLDERS - HIGH SPEED LINE



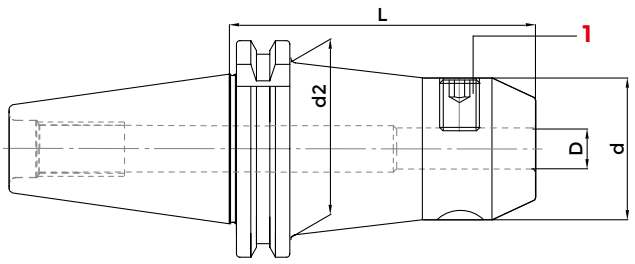


DIN 69871 AD - DIN 1835 B **HIGH SPEED LINE**

COD.	DESCRIPTION	ISO	D	d	L	G6.3 20000	1 SCREW
WE91301	TC40H50WE06	40	6	50	25	•	4970
WE91302	TC40H50WE08	40	8	50	28	•	4971
WE91303	TC40H50WE10	40	10	50	35	•	4972
WE91304	TC40H50WE12	40	12	50	42	•	4973
WE91306	TC40H63WE16	40	16	63	48	•	4974
WE91308	TC40H63WE20	40	20	63	52	•	4975
WE91309	TC40H100WE25	40	25	100	65	•	4976
WE91310	TC40H100WE32	40	32	100	72	•	4977
WE91319	TC50H63WE20	50	20	63	52	•	4975
WE91320	TC50H80WE25	50	25	80	65	•	4976
WE91321	TC50H100WE32	50	32	100	72	•	4977

WELDON END MILL HOLDERS - LONG SERIES - HIGH SPEED LINE



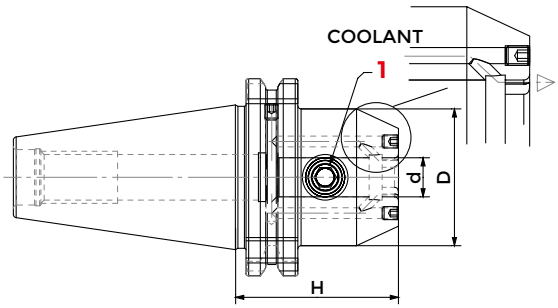


DIN 69871 AD - DIN 1835 B **HIGH SPEED LINE**

COD.	DESCRIPTION	ISO	D	L	d	d2	G2.5 25000	1 SCREW
WE91324	TC40H100WE06	40	6	100	25	35	•	4970
WE91325	TC40H100WE08	40	8	100	28	38	•	4971
WE91326	TC40H100WE10	40	10	100	35	40	•	4972
WE91327	TC40H100WE12	40	12	100	42	-	•	4973
WE91329	TC40H100WE16	40	16	100	48	-	•	4974
WE91331	TC40H100WE20	40	20	100	50	-	•	4975

WELDON END MILL HOLDERS - SHORT SERIES WITH COOLANT CHANNELS



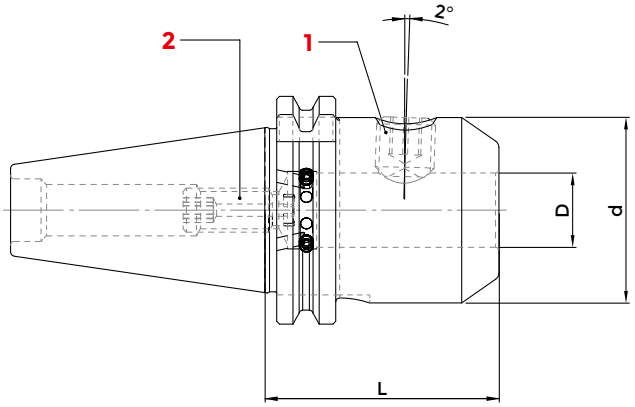


DIN69871 AD - DIN 1835 B

							1
COD.	DESCRIPTION	ISO	D	H	d	G6,3 12000	SCREW
							
7850	TC 40 - WEC 6 / H 50	40	25	50	6	•	4970
7851	TC 40 - WEC 8 / H 50	40	28	50	8	•	4971
7852	TC 40 - WEC 10 / H 50	40	35	50	10	•	4972
7853	TC 40 - WEC 12 / H 50	40	42	50	12	•	4973
7854	TC 40 - WEC 14 / H 50	40	44	50	14	•	4973
7855	TC 40 - WEC 16 / H 63	40	48	63	16	•	4974
7856	TC 40 - WEC 18 / H 63	40	50	63	18	•	4974
7857	TC 40 - WEC 20 / H 63	40	52	63	20	•	4975
7858	TC 40 - WEC 25 / H 100	40	65	100	25	•	4976
7859	TC 40 - WEC 32 / H 100	40	72	100	32	•	4977
7860	TC 40 - WEC 40 / H 115	40	80	115	40	•	4977
7861	TC 50 - WEC 6 / H 63	50	25	63	6	•	4970
7862	TC 50 - WEC 8 / H 63	50	28	63	8	•	4971
7863	TC 50 - WEC 10 / H 63	50	35	63	10	•	4972
7864	TC 50 - WEC 12 / H 63	50	42	63	12	•	4973
7865	TC 50 - WEC 14 / H 63	50	44	63	14	•	4973
7866	TC 50 - WEC 16 / H 63	50	48	63	16	•	4974
7867	TC 50 - WEC 18 / H 63	50	50	63	18	•	4974
7868	TC 50 - WEC 20 / H 63	50	52	63	20	•	4975
7869	TC 50 - WEC 25 / H 80	50	65	80	25	•	4976
7870	TC 50 - WEC 32 / H 100	50	72	100	32	•	4977
7871	TC 50 - WEC 40 / H 120	50	80	120	40	•	4977

WHISTLE NOTCH END MILL HOLDERS



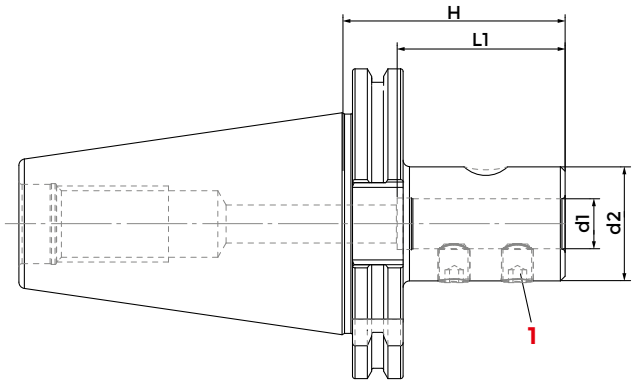


DIN69871 AD/B

							1	2
COD.	DESCRIPTION	ISO	D	L	d	G6.3 12000	SCREW	LOCKING SCREW
								
4795	TC 40 - WN 6 / H 50	40	6	50	25	•	4970	0233
4796	TC 40 - WN 8 / H 50	40	8	50	28	•	4971	0235
4797	TC 40 - WN 10 / H 50	40	10	50	35	•	4972	0238
4798	TC 40 - WN 12 / H 50	40	12	50	42	•	4973	0240
4799	TC 40 - WN 14 / H 50	40	14	50	44	•	4973	0240
4800	TC 40 - WN 16 / H 63	40	16	63	48	•	4974	0245
4801	TC 40 - WN 18 / H 63	40	18	63	50	•	4974	0245
4802	TC 40 - WN 20 / H 63	40	20	63	52	•	4975	0245
4803	TC 40 - WN 25 / H 100	40	25	100	65	•	4976	0212
4804	TC 40 - WN 32 / H 100	40	32	100	72	•	4977	0212
4805	TC 40 - WN 40 / H 115	40	40	115	80	•	4977	0212
4815	TC 50 - WN 6 / H 63	50	6	63	25	•	4970	0233
4816	TC 50 - WN 8 / H 63	50	8	63	28	•	4971	0235
4817	TC 50 - WN 10 / H 63	50	10	63	35	•	4972	0238
4818	TC 50 - WN 12 / H 63	50	12	63	42	•	4973	0240
4819	TC 50 - WN 14 / H 63	50	14	63	44	•	4973	0240
4820	TC 50 - WN 16 / H 63	50	16	63	48	•	4974	0245
4821	TC 50 - WN 18 / H 63	50	18	63	50	•	4974	0245
4822	TC 50 - WN 20 / H 63	50	20	63	52	•	4975	0245
4823	TC 50 - WN 25 / H 80	50	25	80	65	•	4976	0247
4824	TC 50 - WN 32 / H 100	50	32	100	72	•	4977	0247
4825	TC 50 - WN 40 / H 120	50	40	120	80	•	4977	0247

INDEXABLE DRILL HOLDERS



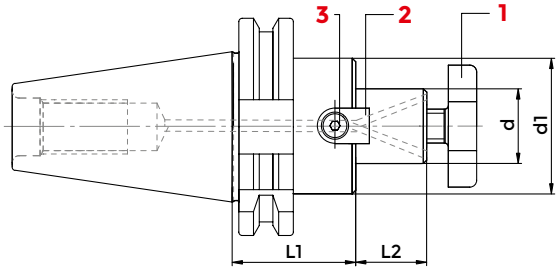


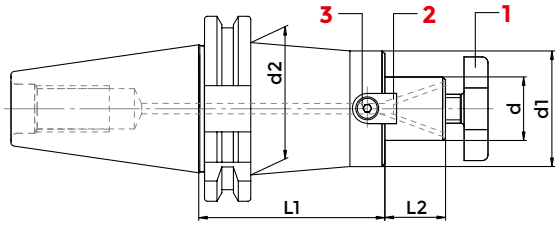
DIN69871 AD

COD.	DESCRIPTION	ISO	D	d	H	L	G6,3 12000	1 SCREW
8677	TC 40 - D. 16 P	40	16	36	65	54	•	0403
8678	TC 40 - D. 20 P	40	20	40	65	54	•	0403
8679	TC 40 - D. 25 P	40	25	45	70	59	•	0417
8680	TC 40 - D. 32 P	40	32	52	70	63	•	0417
8681	TC 50 - D. 16 P	50	16	36	70	54	•	0403
8682	TC 50 - D. 20 P	50	20	40	70	54	•	0403
8683	TC 50 - D. 25 P	50	25	45	70	59	•	0417
8684	TC 50 - D. 32 P	50	32	52	70	63	•	0417
8685	TC 50 - D. 40 P	50	40	60	80	73	•	0493

FACE MILL HOLDERS - TENONS DRIVE







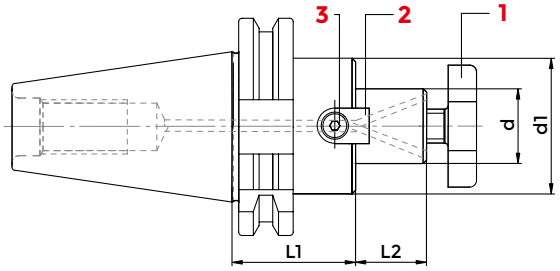
DIN69871 AD/B - ISO 3937

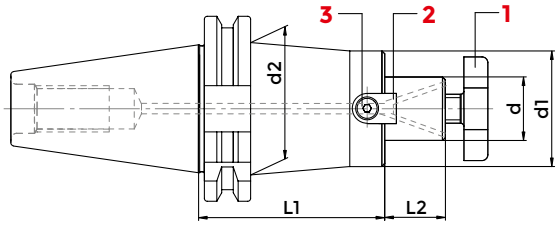
COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	d	L1	L2	d1	d2	G6, 3 8000	1 CROSS SCREW	2 TENON	3 SCREW	WRENCH
4122	-	TC 30 - D. 16 FISSO / H 35	30	16	35	17	38	-	•	4985	7421	0255	4562
4124	-	TC 30 - D. 22 FISSO / H 50	30	22	50	19	48	-	•	4986	7427	0256	4563
4126	-	TC 30 - D. 27 FISSO / H 50	30	27	50	21	58	-	•	4987	7428	7414	4564
4143	-	TC 30 - D. 32 FISSO / H 55	30	32	55	24	58	-	•	4988	7439	0207	4565
4127	5844	TC 40 - D. 16 FISSO / H 45	40	16	45	17	38	-	•	4985	7421	0255	4562
5537	5845	TC 40 - D. 16 FISSO / H 100	40	16	100	17	38	-	•	4985	7421	0255	4562
9400	9410	TC 40 - D. 16 FISSO / H 130	40	16	130	17	38	-	•	4985	7421	0255	4562
8364	8385	TC 40 - D. 16 FISSO / H 160	40	16	160	17	38	-	•	4985	7421	0255	4562
-	8386	TC 40 - D. 16 FISSO / H 200	40	16	200	17	38	-	•	4985	7421	0255	4562
4652	5846	TC 40 - D. 22 FISSO / H 45	40	22	45	19	48	-	•	4986	7427	0256	4563
5538	5847	TC 40 - D. 22 FISSO / H 100	40	22	100	19	48	-	•	4986	7427	0256	4563
9401	9411	TC 40 - D. 22 FISSO / H 130	40	22	130	19	46	-	•	4986	7427	0256	4563
5539	8387	TC 40 - D. 22 FISSO / H 160	40	22	160	19	46	48	•	4986	7427	0256	4563
-	8388	TC 40 - D. 22 FISSO / H 200	40	22	200	19	46	48	•	4986	7427	0256	4563
4653	5848	TC 40 - D. 27 FISSO / H 50	40	27	50	21	58	-	•	4987	7428	7414	4564
5540	5849	TC 40 - D. 27 FISSO / H 100	40	27	100	21	48	-	•	4987	7428	7414	4564
9402	9412	TC 40 - D. 27 FISSO / H 130	40	27	130	21	48	-	•	4987	7428	7414	4564
5541	8389	TC 40 - D. 27 FISSO / H 160	40	27	160	21	58	-	•	4987	7428	7414	4564
-	8390	TC 40 - D. 27 FISSO / H 200	40	27	200	21	58	-	•	4987	7428	7414	4564
4654	5850	TC 40 - D. 32 FISSO / H 55	40	32	55	24	78	-	•	4988	7439	0207	4565
5542	5851	TC 40 - D. 32 FISSO / H 100	40	32	100	24	58	-	•	4988	7439	0207	4565
8368	8391	TC 40 - D. 32 FISSO / H 160	40	32	160	24	78	-	•	4988	7439	0207	4565
4655	5852	TC 40 - D. 40 FISSO / H 55	40	40	55	27	88	-	•	4989	7430	0099	4566
4694	8392	TC 40 - D. 40 FISSO / H 100	40	40	100	27	70	-	•	4989	7430	0099	4566
8369	8393	TC 40 - D. 40 FISSO / H 160	40	40	160	27	80	-	•	4989	7430	0099	4566
4661	5853	TC 50 - D. 16 FISSO / H 45	50	16	45	17	38	-	•	4985	7421	0255	4562
4695	5854	TC 50 - D. 16 FISSO / H 100	50	16	100	17	38	-	•	4985	7421	0255	4562
9405	9415	TC 50 - D. 16 FISSO / H 130	50	16	130	17	38	-	•	4985	7421	0255	4562
8370	8394	TC 50 - D. 16 FISSO / H 160	50	16	160	17	38	-	•	4985	7421	0255	4562
-	8395	TC 50 - D. 16 FISSO / H 200	50	16	200	17	38	-	•	4985	7421	0255	4562

follows >>

FACE MILL HOLDERS - TENONS DRIVE







DIN69871 AD/B - ISO 3937

COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	d	L1	L2	d1	d2	G6, 3 8000	1 CROSS SCREW	2 TENON	3 SCREW	WRENCH
4662	5855	TC 50 - D. 22 FISSO / H 45	50	22	45	19	48	-	•	4986	7427	0256	4563
5544	5856	TC 50 - D. 22 FISSO / H 100	50	22	100	19	46	48	•	4986	7427	0256	4563
9004	-	TC 50 - D. 22 FISSO / H 100 FIS.63	50	22	100	19	50	60	•	4986	7427	0256	4563
9406	9416	TC 50 - D. 22 FISSO / H 130	50	22	130	19	46	60	•	4986	7427	0256	4563
5545	8396	TC 50 - D. 22 FISSO / H 160	50	22	160	19	46	48	•	4986	7427	0256	4563
9005	-	TC 50 - D. 22 FISSO / H 160 FIS.63	50	22	160	19	50	60	•	4986	7427	0256	4563
-	8397	TC 50 - D. 22 FISSO / H 200	50	22	200	19	46	48	•	4986	7427	0256	4563
-	8398	TC 50 - D. 22 FISSO / H 250	50	22	250	19	48	60	•	4986	7427	0256	4563
-	8399	TC 50 - D. 22 FISSO / H 300	50	22	300	19	48	60	•	4986	7427	0256	4563
4663	5857	TC 50 - D. 27 FISSO / H 45	50	27	45	21	58	-	•	4987	7428	7414	4564
5546	5858	TC 50 - D. 27 FISSO / H 100	50	27	100	21	55	78	•	4987	7428	7414	4564
9407	9417	TC 50 - D. 27 FISSO / H 130	50	27	130	21	55	78	•	4987	7428	7414	4564
5547	8400	TC 50 - D. 27 FISSO / H 160	50	27	160	21	55	78	•	4987	7428	7414	4564
-	8401	TC 50 - D. 27 FISSO / H 200	50	27	200	21	55	78	•	4987	7428	7414	4564
-	8402	TC 50 - D. 27 FISSO / H 250	50	27	250	21	55	78	•	4987	7428	7414	4564
-	8403	TC 50 - D. 27 FISSO / H 300	50	27	300	21	55	78	•	4987	7428	7414	4564
4664	5859	TC 50 - D. 32 FISSO / H 55	50	32	55	24	78	-	•	4988	7439	0207	4565
5548	5860	TC 50 - D. 32 FISSO / H 100	50	32	100	24	66	78	•	4988	7439	0207	4565
9408	9418	TC 50 - D. 32 FISSO / H 130	50	32	130	24	66	78	•	4988	7439	0207	4565
5549	8404	TC 50 - D. 32 FISSO / H 160	50	32	160	24	66	78	•	4988	7439	0207	4565
-	8405	TC 50 - D. 32 FISSO / H 200	50	32	200	24	66	78	•	4988	7439	0207	4565
-	8406	TC 50 - D. 32 FISSO / H 250	50	32	250	24	66	78	•	4988	7439	0207	4565
-	8407	TC 50 - D. 32 FISSO / H 300	50	32	300	24	66	-	•	4988	7439	0207	4565
4665	5861	TC 50 - D. 40 FISSO / H 55	50	40	55	27	88	-	•	4989	7430	0099	4566
5550	5862	TC 50 - D. 40 FISSO / H 100	50	40	100	27	70	-	•	4989	7430	0099	4566
9007	-	TC 50 - D. 40 FISSO / H 130 FIS. 63	50	40	130	27	70	78	•	4989	7430	0099	4566
8381	8408	TC 50 - D. 40 FISSO / H 160	50	40	160	27	70	78	•	4989	7430	0099	4566
-	8409	TC 50 - D. 40 FISSO / H 200	50	40	200	27	70	78	•	4989	7430	0099	4566

ACCESSORIES



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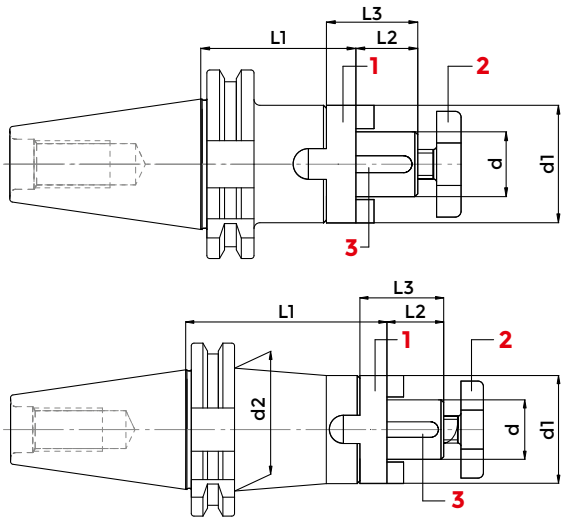
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GAIT

COMBI-SHELL MILL HOLDERS



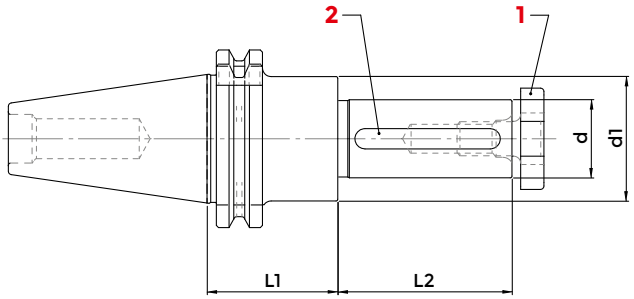


DIN69871 A

										1	2	3	
COD.	DESCRIPTION	ISO	d	L1	L2	L3	d1	d2	G6, 3 8000	COUPLING RING	CROSS SCREW	KEY	WRENCH
													
3828	TC 30 - D.16 C/ H 50	30	16	50	17	27	32	-	•	4090	4985	0115	4562
3829	TC 30 - D.22 C/ H 50	30	22	50	19	31	40	-	•	4091	4986	0116	4563
3831	TC 40 - D.16 C/ H 55	40	16	55	17	27	32	-	•	4090	4985	0115	4562
4100	TC 40 - D.16 C/ H 100	40	16	100	17	27	32	44	•	4090	4985	0015	4562
8474	TC 40 - D.16 C/ H 160	40	16	160	17	27	32	44	•	4090	4985	0015	4562
3832	TC 40 - D.22 C/ H 55	40	22	55	19	31	40	-	•	4091	4986	0116	4563
4101	TC 40 - D.22 C/ H 100	40	22	100	19	31	40	-	•	4091	4986	0116	4563
8475	TC 40 - D.22 C/ H 160	40	22	160	19	31	40	-	•	4091	4986	0116	4563
3833	TC 40 - D.27 C/ H 55	40	27	55	21	33	48	-	•	4092	4987	0122	4564
4102	TC 40 - D.27 C/ H 100	40	27	100	21	33	48	-	•	4092	4987	0122	4564
8476	TC 40 - D.27 C/ H 160	40	27	160	21	33	48	-	•	4092	4987	0122	4564
3834	TC 40 - D.32 C/ H 60	40	32	60	24	32	58	-	•	4093	4988	0125	4565
4103	TC 40 - D.32 C/ H 100	40	32	100	24	32	58	-	•	4093	4988	0125	4565
8477	TC 40 - D.32 C/ H 160	40	32	160	24	32	58	-	•	4093	4988	0125	4565
3835	TC 40 - D.40 C/ H 60	40	40	60	27	40	70	-	•	4094	4989	0133	4566
3863	TC 40 - D.40 C/ H 100	40	40	100	27	40	70	-	•	4094	4989	0133	4566
3836	TC 45 - D.16 C/ H 60	45	16	60	17	16	32	-	•	4090	4985	0115	4562
3837	TC 45 - D.22 C/ H 65	45	22	65	19	11	40	-	•	4091	4986	0116	4563
4105	TC 45 - D.22 C/ H 100	45	22	100	19	22	40	-	•	4091	4986	0116	4563
3838	TC 45 - D.27 C/ H 65	45	27	65	21	27	48	-	•	4092	4987	0122	4564
4106	TC 45 - D.27 C/ H 100	45	27	100	21	27	48	-	•	4092	4987	0122	4564
3839	TC 45 - D.32 C/ H 65	45	32	65	24	32	58	-	•	4093	4988	0125	4565
3840	TC 45 - D.40 C/ H 70	45	40	70	27	40	70	-	•	4094	4989	0133	4566
3841	TC 50 - D.16 C/ H 55	50	16	55	17	16	32	-	•	4090	4985	0115	4562
4108	TC 50 - D.16 C/ H 100	50	16	100	17	16	32	50	•	4090	4985	0115	4562
3842	TC 50 - D.22 C/ H 55	50	22	55	19	22	40	-	•	4091	4986	0116	4563
4109	TC 50 - D.22 C/ H 100	50	22	100	19	22	40	60	•	4091	4986	0116	4563
3843	TC 50 - D.27 C/ H 55	50	27	55	21	27	48	-	•	4092	4987	0122	4564
4110	TC 50 - D.27 C/ H 100	50	27	100	21	27	48	60	•	4092	4987	0122	4564
3844	TC 50 - D.32 C/ H 55	50	32	55	24	32	58	-	•	4093	4988	0125	4565
4111	TC 50 - D.32 C/ H 100	50	32	100	24	32	58	-	•	4093	4988	0125	4565
3845	TC 50 - D.40 C/ H 55	50	40	55	27	40	70	-	•	4094	4989	0133	4566
4112	TC 50 - D.40 C/ H 100	50	40	100	27	40	70	-	•	4094	4989	0133	4566
4522	TC 50 - D.50 C/ H 70	50	50	70	30	50	90	-	•	4095	4990	0137	4567

MILL HOLDERS WITH FEATHER KEY





DIN69871 A

								1	2	3
COD.	DESCRIPTION	ISO	d	L1	L2	d1	G6, 3 8000	CROSS SCREW	KEY	WRENCH
										
8493	TC 40 - D. 16 CHT	40	16	45	30	28	•	4985	0147	4562
8494	TC 40 - D. 22 CHT	40	22	45	40	36	•	4986	0148	4563
8495	TC 40 - D. 27 CHT	40	27	45	60	43	•	4987	0149	4564
8496	TC 40 - D. 32 CHT	40	32	45	60	48	•	4988	0150	4565
8497	TC 40 - D. 40 CHT	40	40	45	60	56	•	4989	0151	4566

ACCESSORIES

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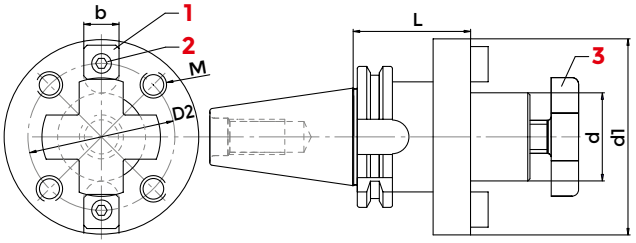


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FACE MILL HOLDER FOR FACE MILLING CUTTERS





DIN69871 A - DIN 6357

										1	2	3
COD.	DESCRIPTION	ISO	d	L	d1	D2	M	b	G6, 3 8000	SCREW	TENON	CROSS SCREW
												
4181	TC 40 - D. 40 FM	40	40	60	89	66,7	M 12	15,9	•	0207	0210	4989
4184	TC 50 - D. 40 FM	50	40	70	89	66,7	M 12	15,9	•	0207	0210	4989
4185	TC 50 - D. 60 FM	50	60	70	129	101,6	M 16	25,4	•	0407	0211	-

ACCESSORIES

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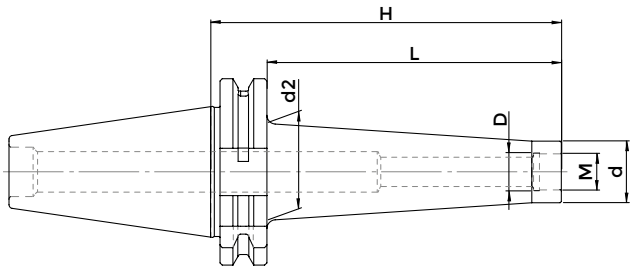


p. 674



END MILL HOLDERS FOR MILLING CUTTERS WITH THREADED SHANKS



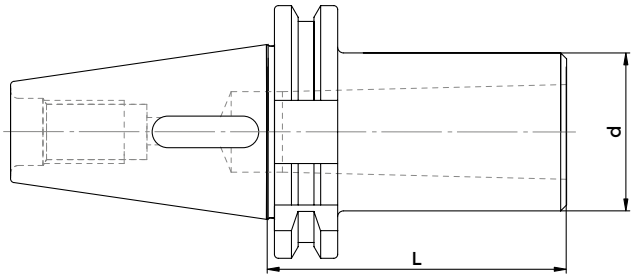


DIN69871 AD - DIN 6358

COD.	DESCRIPTION	ISO	M	D	d	d2	H	L	G6,3 12000
7800	TC 40 - M 8 / H 55	40	M 8	8,5	13	15	55	36	•
7801	TC 40 - M 8 / H 69	40	M 8	8,5	13	23	69	50	•
7802	TC 40 - M 8 / H 94	40	M 8	8,5	13	23	94	75	•
7803	TC 40 - M 8/ H 119	40	M 8	8,5	13	25	119	100	•
7804	TC 40 - M 10 / H 55	40	M 10	10,5	18	20	55	36	•
7805	TC 40 - M 10 / H 69	40	M 10	10,5	18	23	69	50	•
7806	TC 40 - M 10 / H 94	40	M 10	10,5	18	28	94	75	•
7807	TC 40 - M 10 / H 119	40	M 10	10,5	18	32	119	100	•
7808	TC 40 - M 10 / H 145	40	M 10	10,5	18	34	145	126	•
7809	TC 40 - M 12 / H 55	40	M 12	12,5	21	24	55	36	•
7810	TC 40 - M 12 / H 69	40	M 12	12,5	21	24	69	50	•
7811	TC 40 - M 12 / H 94	40	M 12	12,5	21	31	94	75	•
7812	TC 40 - M 12 / H 119	40	M 12	12,5	21	33	119	100	•
7813	TC 40 - M 12 / H 145	40	M 12	12,5	21	38	145	126	•
7814	TC 40 - M 12 / H 175	40	M 12	12,5	21	42	175	156	•
7815	TC 40 - M 16 / H 55	40	M 16	17	29	32	55	36	•
7816	TC 40 - M 16 / H 69	40	M 16	17	29	34	69	50	•
7817	TC 40 - M 16 / H 94	40	M 16	17	29	34	94	75	•
7818	TC 40 - M 16 / H 119	40	M 16	17	29	36	119	100	•
7819	TC 40 - M 16 / H 145	40	M 16	17	29	40	145	126	•
7820	TC 40 - M 16 / H 175	40	M 16	17	29	39	175	156	•
7999	TC 40 - M 16 / H 195	40	M 16	17	29	44	195	176	•
8713	TC 50 - M 10 / H 69	50	M 16	10,5	18	19,5	69	50	•
8714	TC 50 - M 10 / H 119	50	M 16	10,5	18	28	119	100	•
8715	TC 50 - M 10 / H 169	50	M 16	10,5	18	32	169	150	•
7821	TC 50 - M 12 / H 69	50	M 12	12,5	21	24	69	50	•
7822	TC 50 - M 12 / H 119	50	M 12	12,5	21	33	119	100	•
7823	TC 50 - M 12 / H 169	50	M 12	12,5	21	40	169	150	•
8716	TC 50 - M 12 / H 235	50	M 12	12,5	21	42	235	216	•
7824	TC 50 - M 16 / H 69	50	M 16	17	29	34	69	50	•
7825	TC 50 - M 16 / H 119	50	M 16	17	29	36	119	100	•
7826	TC 50 - M 16 / H 169	50	M 16	17	29	42,5	169	150	•
8717	TC 50 - M 16 / H 235	50	M 16	17	29	44	235	216	•

INDEXABLE MORSE TAPER DRILL HOLDERS



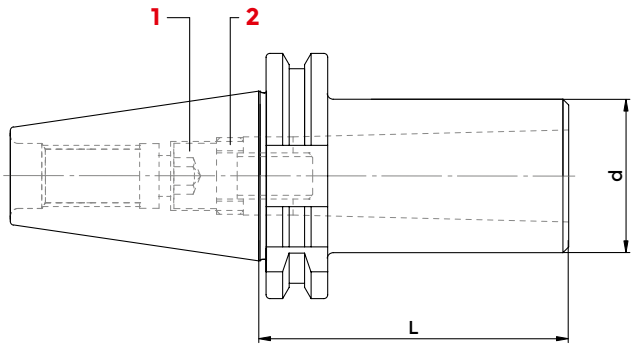


DIN69871 AD

COD.	DESCRIPTION	ISO	CM	d	L
3600	TC 30 - CM 1 PUNTE	30	1	25	55
3631	TC 30 - CM 2 PUNTE	30	2	32	60
3632	TC 30 - CM 3 PUNTE	30	3	40	90
3601	TC 40 - CM 1 PUNTE	40	1	25	50
3602	TC 40 - CM 2 PUNTE	40	2	32	60
3635	TC 40 - CM 3 PUNTE	40	3	40	75
3636	TC 40 - CM 4 PUNTE	40	4	48	95
3603	TC 50 - CM 1 PUNTE	50	1	25	45
3604	TC 50 - CM 2 PUNTE	50	2	32	60
3605	TC 50 - CM 3 PUNTE	50	3	40	65
3645	TC 50 - CM 4 PUNTE	50	4	48	95
3646	TC 50 - CM 5 PUNTE	50	5	63	105

END MILL HOLDERS FOR MORSE TAPER CUTTERS

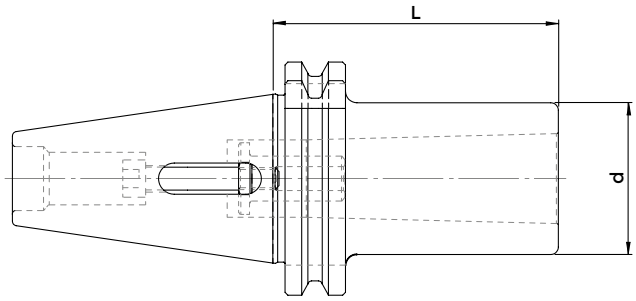


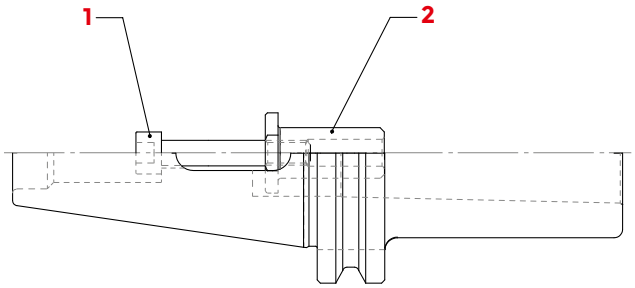


DIN69871 A - DIN 6357

						1	2	3
COD.	DESCRIPTION	ISO	MORSE	d	L	SCREW	LEFT NUT	WRENCH
								
3893	TC 30- CM 3 FRESE	30	3	40	80	7402	7423	4570
5100	TC 40- CM 1 FRESE	40	1	25	50	0099	7420	816-20204002
3681	TC 40- CM 2 FRESE	40	2	32	50	7448	7422	4569
3894	TC 40- CM 3 FRESE	40	3	40	70	7403	7423	4570
3895	TC 40- CM 4 FRESE	40	4	48	95	7404	7424	4571
3896	TC 45- CM 4 FRESE	45	4	48	110	7407	7424	4571
5101	TC 50- CM 1 FRESE	50	1	25	45	0099	7420	816-20204002
3666	TC 50- CM 2 FRESE	50	2	32	50	7448	7422	4569
3897	TC 50- CM 3 FRESE	50	3	40	65	7403	7423	4570
3898	TC 50- CM 4 FRESE	50	4	48	95	7407	7424	4571
3899	TC 50- CM 5 FRESE	50	5	63	120	7408	7425	4572

COMBI MORSE TAPER HOLDERS FOR DRILLS AND MILLING CUTTERS

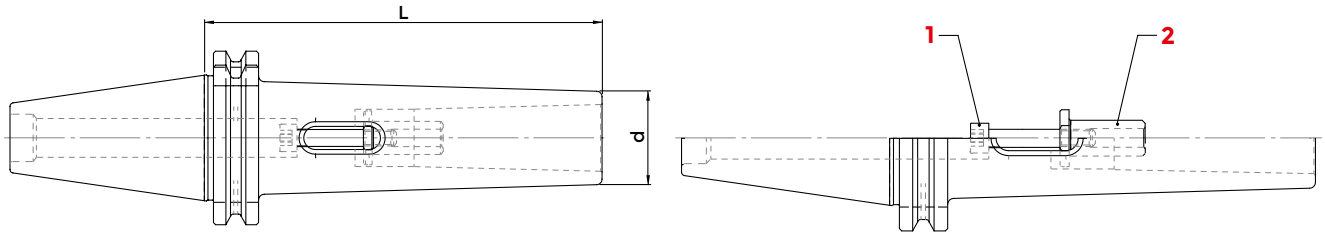




DIN69871 AD - DIN 228-2 FORM C/D

						1	2
COD.	DESCRIPTION	ISO	MORSE	d	L	SCREW	REDUCER
							
3633	TC 40 - CM 1 P+ F	40	1	25	50	7400	-
3634	TC 40 - CM 2 P+ F	40	2	32	60	7401	-
3607	TC 40 - CM 3 P+ F	40	3	40	75	7400	0130
3637	TC 45 - CM 1 P+ F	45	1	25	50	7400	-
3638	TC 45 - CM 2 P+ F	45	2	32	60	7405	-
3639	TC 45 - CM 3 P+ F	45	3	40	80	7455	-
3641	TC 45 - CM 4 P+ F	45	4	48	100	0056	0129
3642	TC 50 - CM 1 P+ F	50	1	25	45	7400	-
3643	TC 50 - CM 2 P+ F	50	2	32	60	7405	-
3644	TC 50 - CM 3 P+ F	50	3	40	65	7406	-
3682	TC 50 - CM 4 P+ F	50	4	48	105	7406	0131

COMBI MORSE TAPER HOLDERS FOR DRILLS AND MILLING CUTTERS - LONG SERIES

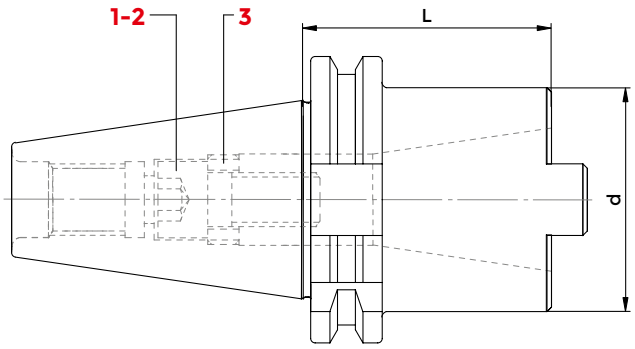


DIN69871 AD - DIN 228-2 FORM C/D

							1	2
COD. DRILLS	COD. DRILLS + MILLING CUTTERS	DESCRIPTION	ISO	MORSE	d	L	SCREW	REDUCER
								
3778	4238	TC 40 - CM 1	40	1	18	120	7400	-
3779	4239	TC 40 - CM 2	40	2	25	120	7401	-
3780	4240	TC 40 - CM 3	40	3	33	140	7400	0130
4241	-	TC 40 - CM 4	40	4	48	165	-	-
3745	4248	TC 50 - CM 1	50	1	18	120	7400	-
3746	4249	TC 50 - CM 2	50	2	25	140	7405	-
3747	4250	TC 50 - CM 3	50	3	33	150	7406	-
3748	4251	TC 50 - CM 4	50	4	40	180	7409	-
3749	-	TC 50 - CM 5	50	5	55	220	-	-

ADAPTER FROM DIN69871(SK) TO MAS403BT/SK/DIN2080





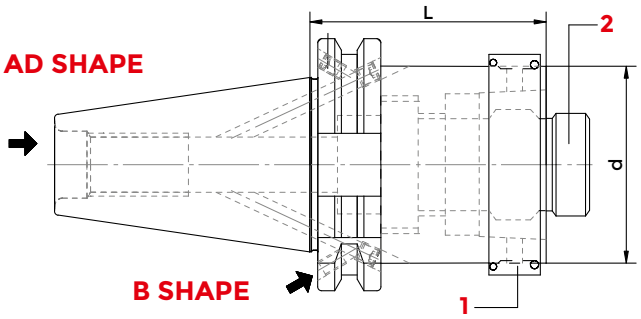
DIN69871 A

							1	2	3	
COD.	DESCRIPTION	ISO	ISO	d	L	G6.3 8000	SCREW DIN 2080	SCREW BT DIN 69871	NUT	WRENCH
										
4203	TC 40 - ISO 30 / TC 30 / BT 30	40	30	50	60	•	*7410	* 0177	* 7423	4570
8670	TC 40 - ISO 40 / TC 40 / BT 40	40	40	68	100	•	*7411	* 0179	* 7424	4571
4257	TC 50 - ISO 40 / TC 40 / BT 40	50	40	68	70	•	*7411	* 0179	* 7424	4571
8671	TC 50 - ISO 50 / TC 50 / BT 50	50	50	100	120	•	*7417	* 0254	* 7426	4780

* included in delivery

ADAPTER FROM DIN69871(SK) TO DIN69893-1 (HSK A+C)



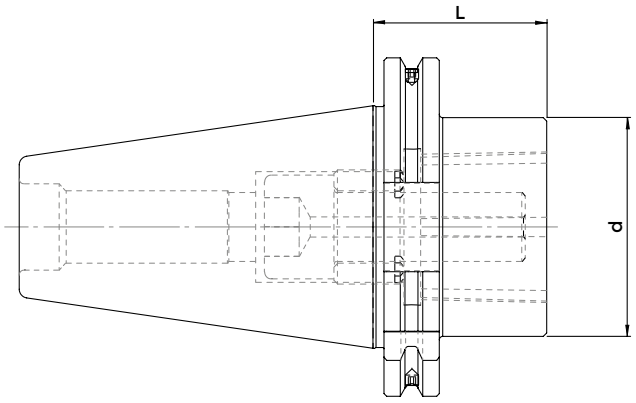


DIN69871 AD/B

						1	2
COD.	DESCRIPTION	ISO	d	L	G6.3 8000	LOCKING RING	CLAMPING UNIT
6594	TC 40 - HSK 50 A+C	40	50	60	•	H50A-AN	H50A-UBL
6595	TC 40 - HSK 63 A+C	40	63	80	•	H63A-AN	H63A-UBL
6596	TC 50 - HSK 63 A+C	50	63	60	•	H63A-AN	H63A-UBL

ADAPTER FROM DIN69871(SK) TO ISO26623-1 (POLYGONAL)



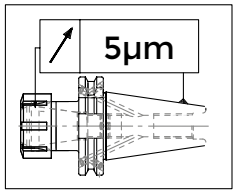


DIN69871 AD/B

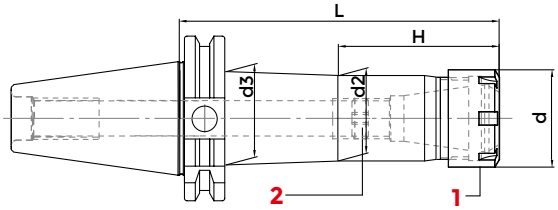
COD.	DESCRIPTION	ISO	d	L	G6.3 8000
11000	TC 40 - C 40 / H 30	40	40	30	•
11001	TC 40 - C 40 / H 60	40	40	60	•
11002	TC 40 - C 50 / H 40	40	50	40	•
11003	TC 40 - C 63 / H 85	40	63	85	•
11004	TC 50 - C 40/ H 30	50	40	30	•
11005	TC 50 - C 40/ H 60	50	40	60	•
11006	TC 50 - C 50 / H 30	50	50	30	•
11007	TC 50 - C 50 / H 70	50	50	70	•
11008	TC 50 - C 50 / H 110	50	50	110	•
11009	TC 50 - C 63 / H 30	50	63	30	•
11010	TC 50 - C 63 / H 50	50	63	50	•
11011	TC 50 - C 63 / H 80	50	63	80	•
11012	TC 50 - C 80 / H 70	50	80	70	•
11013	TC 50 - C 80 / H 120	50	80	120	•

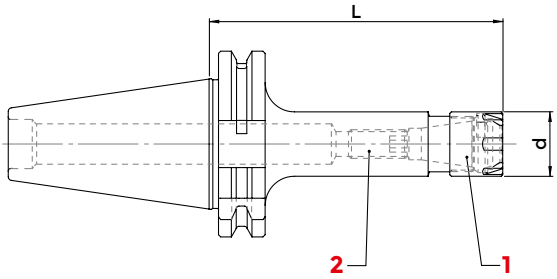
ER COLLET CHUCK WITH MINI NUT





H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm





DIN 69871 AD - DIN6499/ISO15488 - DIN 69871 AD/B

COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	ER	d	d2	d3	H	L	G6.3 12000	G6.3 15000	1 NUT	2 SCREW	WRENCH	COLLET
4073	4720	TC 40 - ER 11 GM / H 70 SLIM LINE	40	ER 11 1÷ 8	16	14	20	22	70	-	•	5691	0181	5718	5573
4020	4721	TC 40 - ER 11 GM / H100 SLIM LINE	40	ER 11 1÷ 8	16	14	20	40	100	-	•	5691	0181	5718	5573
4057	4722	TC 40 - ER 11 GM / H130 SLIM LINE	40	ER 11 1÷ 8	16	16	-	-	130	-	•	5691	0181	5718	5573
3416	4723	TC 40 - ER 11 GM / H160 SLIM LINE	40	ER 11 1÷ 8	16	14	27	50	160	-	•	5691	0181	5718	5573
3417	4724	TC 40 - ER 16 GM / H 70 SLIM LINE	40	ER 16 1÷12	22	20	25	27	70	-	•	5694	0186	5719	0364
4074	4748	TC 40 - ER 16 GM / H100 SLIM LINE	40	ER 16 1÷12	22	20	26	47	100	-	•	5694	0186	5719	0364
3433	4749	TC 40 - ER 16 GM / H130 SLIM LINE	40	ER 16 1÷12	22	22	-	-	130	-	•	5694	0186	5719	0364
4014	4021	TC 40 - ER 16 GM / H160 SLIM LINE	40	ER 16 1÷12	22	20	26	97	160	-	•	5694	0186	5719	0364
3418	4026	TC 40 - ER 16 GM / H200 SLIM LINE	40	ER 16 1÷12	22	22	-	-	200	-	•	5694	0186	5719	0364
3005	4000	TC 40 - ER 20 GM / H 70 SLIM LINE	40	ER 20 1÷15	28	28	-	-	70	-	•	5695	4973	5720	0787
4015	4022	TC 40 - ER 20 GM / H100 SLIM LINE	40	ER 20 1÷15	28	26	30	48	100	-	•	5695	4973	5720	0787
3434	4750	TC 40 - ER 20 GM / H130 SLIM LINE	40	ER 20 1÷15	28	28	-	-	130	-	•	5695	4973	5720	0787
4016	4691	TC 40 - ER 20 GM / H160 SLIM LINE	40	ER 20 1÷15	28	26	31	98	160	-	•	5695	4973	5720	0787
4017	4729	TC 40 - ER 20 GM / H200 SLIM LINE	40	ER 20 1÷15	28	28	-	-	200	-	•	5695	4973	5720	0787
3007	4001	TC 40 - ER 25 GM / H 70 SLIM LINE	40	ER 25 1÷20	35	35	-	-	70	-	•	5696	0190	5721	0996
4075	4751	TC 40 - ER 25 GM / H100 SLIM LINE	40	ER 25 1÷20	35	35	-	-	100	-	•	5696	0190	5721	0996
3435	4730	TC 40 - ER 25 GM / H130 SLIM LINE	40	ER 25 1÷20	35	35	-	-	130	-	•	5696	0190	5721	0996
3436	4752	TC 40 - ER 25 GM / H160 SLIM LINE	40	ER 25 1÷20	35	35	-	-	160	-	•	5696	0190	5721	0996
3437	4753	TC 40 - ER 25 GM / H200 SLIM LINE	40	ER 25 1÷20	35	35	-	-	200	-	•	5696	0190	5721	0996
3008	4046	TC 50 - ER 16 GM / H100 SLIM LINE	50	ER 16 1÷12	22	22	26	47	100	•	-	5694	0190	5719	0364
3440	4756	TC 50 - ER 16 GM / H130 SLIM LINE	50	ER 16 1÷12	22	22	-	-	130	•	-	5694	0190	5719	0364
4018	4693	TC 50 - ER 16 GM / H160 SLIM LINE	50	ER 16 1÷12	22	22	28	97	160	•	-	5694	0190	5719	0364
4019	4757	TC 50 - ER 16 GM / H200 SLIM LINE	50	ER 16 1÷12	22	22	-	-	200	•	-	5694	0190	5719	0364
3010	4047	TC 50 - ER 20 GM / H100 SLIM LINE	50	ER 20 1÷15	28	28	32	48	100	•	-	5695	4973	5720	0787
3441	4758	TC 50 - ER 20 GM / H130 SLIM LINE	50	ER 20 1÷15	28	28	-	-	130	•	-	5695	4973	5720	0787
3419	4760	TC 50 - ER 20 GM / H160 SLIM LINE	50	ER 20 1÷15	28	28	32	98	160	•	-	5695	4973	5720	0787
3012	4070	TC 50 - ER 20 GM / H200 SLIM LINE	50	ER 20 1÷15	28	28	-	-	200	•	-	5695	4973	5720	0787
3016	4071	TC 50 - ER 25 GM / H100 SLIM LINE	50	ER 25 1÷20	35	35	-	-	100	•	-	5696	0190	5721	0996
3024	4483	TC 50 - ER 25 GM / H130 SLIM LINE	50	ER 25 1÷20	35	35	-	-	130	•	-	5696	0190	5721	0996
3420	4759	TC 50 - ER 25 GM / H160 SLIM LINE	50	ER 25 1÷20	35	35	40	103	160	•	-	5696	0190	5721	0996
3025	4484	TC 50 - ER 25 GM / H200 SLIM LINE	50	ER 25 1÷20	35	35	-	-	200	•	-	5696	0190	5721	0996

ACCESSORIES

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p. 615

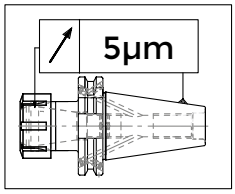


p. 635

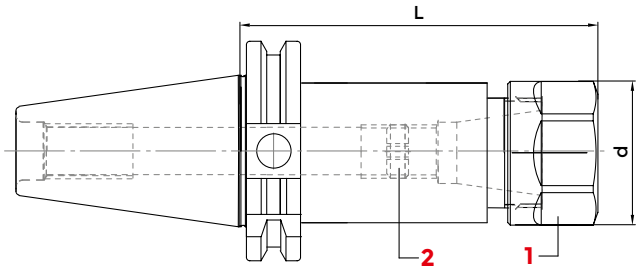


ER COLLET CHUCK WITH HEXAGONAL NUT





H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm



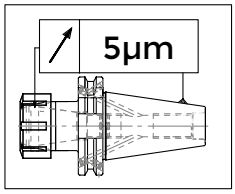
DIN 69871 AD/B - DIN6499/ISO15488

								1	2		
COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	ER	d	L	G6,3 8000	NUT	SCREW	WRENCH	COLLET
											
8048	-	TC 30 - ER 16 GE / H 55	30	ER 16 1÷12	28	55	•	1214	0183	2906	0364
8049	-	TC 30 - ER 16 GE / H 100	30	ER 16 1÷12	28	100	•	1214	0183	2906	0364
8050	-	TC 30 - ER 20 GE / H 55	30	ER 20 1÷15	34	55	•	1215	0183	2907	0787
8051	-	TC 30 - ER 20 GE / H 100	30	ER 20 1÷15	34	100	•	1215	0183	2907	0787
3336	4725	TC 40 - ER 11 GE / H 70	40	ER 11 1÷ 8	19	70	•	1157	0181	2905	5573
3337	4726	TC 40 - ER 11 GE / H 100	40	ER 11 1÷ 8	19	100	•	1157	0181	2905	5573
3338	4727	TC 40 - ER 11 GE / H 130	40	ER 11 1÷ 8	19	130	•	1157	0181	2905	5573
3339	4728	TC 40 - ER 11 GE / H 160	40	ER 11 1÷ 8	19	160	•	1157	0181	2905	5573
8052	8068	TC 40 - ER 16 GE / H 70	40	ER 16 1÷12	28	70	•	1214	0186	2906	0364
8053	8069	TC 40 - ER 16 GE / H 100	40	ER 16 1÷12	28	100	•	1214	0186	2906	0364
8054	8070	TC 40 - ER 16 GE / H 130	40	ER 16 1÷12	28	130	•	1214	0186	2906	0364
8055	8071	TC 40 - ER 16 GE / H 160	40	ER 16 1÷12	28	160	•	1214	0186	2906	0364
8056	8072	TC 40 - ER 16 GE / H 200	40	ER 16 1÷12	28	200	•	1214	0186	2906	0364
8057	8073	TC 40 - ER 20 GE / H 70	40	ER 20 1÷15	34	70	•	1215	4973	2907	0787
8058	8074	TC 40 - ER 20 GE / H 100	40	ER 20 1÷15	34	100	•	1215	4973	2907	0787
8059	8075	TC 40 - ER 20 GE / H 130	40	ER 20 1÷15	34	130	•	1215	4973	2907	0787
8060	8076	TC 40 - ER 20 GE / H 160	40	ER 20 1÷15	34	160	•	1215	4973	2907	0787
8061	8077	TC 40 - ER 20 GE / H 200	40	ER 20 1÷15	34	200	•	1215	4973	2907	0787
8062	8078	TC 50 - ER 16 GE / H 100	50	ER 16 1÷12	28	100	•	1214	0186	2906	0364
8063	8079	TC 50 - ER 16 GE / H 160	50	ER 16 1÷12	28	160	•	1214	0186	2906	0364
8064	8080	TC 50 - ER 16 GE / H 200	50	ER 16 1÷12	28	200	•	1214	0186	2906	0364
8065	8081	TC 50 - ER 20 GE / H 100	50	ER 20 1÷15	34	100	•	1215	4973	2907	0787
8066	8082	TC 50 - ER 20 GE / H 160	50	ER 20 1÷15	34	160	•	1215	4973	2907	0787
8067	8083	TC 50 - ER 20 GE / H 200	50	ER 20 1÷15	34	200	•	1215	4973	2907	0787

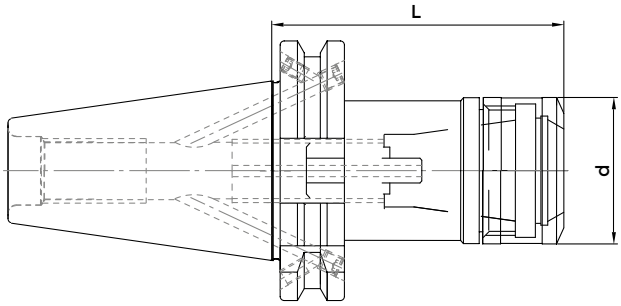
ACCESSORIES
p. 633 
p. 615 
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ER COLLET CHUCKS - HIGH PRECISION



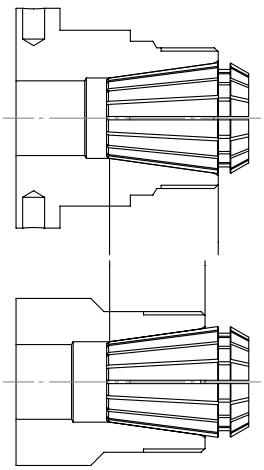


H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm



DIN 69871 AD/B

COD.	DESCRIPTION	ISO	L	d	ER	G2.5 30000	NUT	WRENCH
PP91355	TC40H70ER16-HP	40	70	30	16	•	812-203085	816-203069
PP91356	TC40H70ER25-HP	40	70	40	25	•	812-203086	816-203070
PP91357	TC40H70ER32-HP	40	70	50	32	•	812-203087	816-203071
PP91360	TC40H100ER16-HP	40	100	30	16	•	812-203085	816-203069
PP91362	TC40H100ER25-HP	40	100	40	25	•	812-203086	816-203070
PP91363	TC40H100ER32-HP	40	100	50	32	•	812-203087	816-203071
PP91364	TC50H100ER16-HP	50	100	30	16	•	812-203085	816-203069
PP91367	TC50H100ER25-HP	50	100	40	25	•	812-203086	816-203070
PP91359	TC50H70ER32-HP	50	70	50	32	•	812-203087	816-203071
PP91365	TC50H100ER32-HP	50	100	50	32	•	812-203087	816-203071



HIGH PRECISION LINE

STANDARD



Kit:
- 1 holder
- 10 collets

COD.	DESCRIPTION
KIT TC40 ER16 HP	N°1 TC40 H70 ER16 HP + N°10 PINZE ER 16 HP
KIT TC40 ER25 HP	N°1 TC40 H70 ER25 HP + N°10 PINZE ER 16 HP
KIT TC40 ER32 HP	N°1 TC40 H70 ER32 HP + N°10 PINZE ER 16 HP

ACCESSORIES

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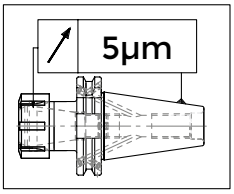


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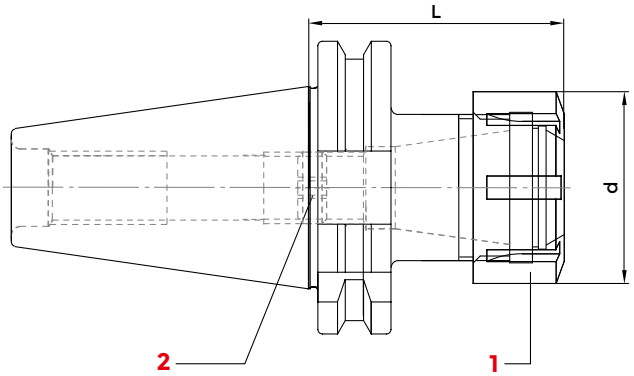


ER COLLET CHUCKS





H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

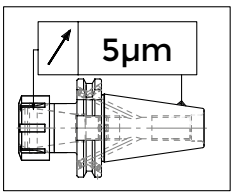


DIN 69871 AD/B - DIN6499/ISO15488

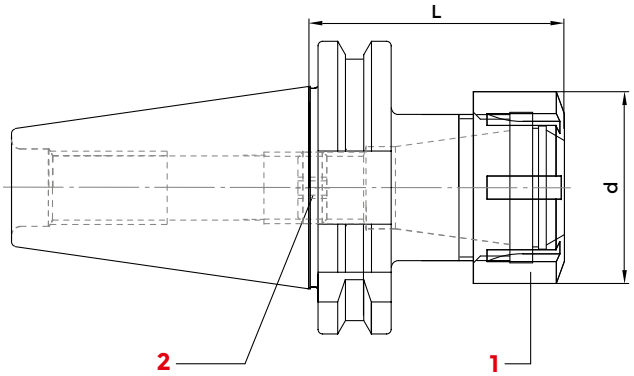
COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	ER	d	L	G6,3 12000	G6,3 15000	1 NUT	2 SCREW	WRENCH	COLLET
3442	-	TC 30 - ER 16 / H 55	30	ER 16 1÷12	32	55	-	•	4993	0183	3698	0364
3373	-	TC 30 - ER 16 / H 100	30	ER 16 1÷12	32	100	-	•	4993	0183	3698	0364
0138	-	TC 30 - ER 20 / H 55	30	ER 20 1÷15	35	55	-	•	4994	0183	3699	0787
3374	-	TC 30 - ER 20 / H 100	30	ER 20 1÷15	35	100	-	•	4994	0183	3699	0787
3342	-	TC 30 - ER 25 / H 55	30	ER 25 1÷20	42	55	-	•	4995	0190	3669	0996
3375	-	TC 30 - ER 25 / H 100	30	ER 25 1÷20	42	100	-	•	4995	0190	3669	0996
3343	-	TC 30 - ER 32 / H 60	30	ER 32 2÷25	50	60	-	•	4996	0191	3670	0988
3376	-	TC 30 - ER 32 / H 100	30	ER 32 2÷25	50	100	-	•	4996	0191	3670	0988
3336	4725	TC 40 - ER 11 / H 70	40	ER 11 1÷8	19	100	-	•	1157 GE	0181	2905 CE	5573
3337	4726	TC 40 - ER 11 / H 100	40	ER 11 1÷8	19	70	-	•	1157 GE	0181	2905 CE	5573
3338	4727	TC 40 - ER 11 / H 130	40	ER 11 1÷8	19	100	-	•	1157 GE	0181	2905 CE	5573
3339	4728	TC 40 - ER 11 / H 160	40	ER 11 1÷8	19	130	-	•	1157 GE	0181	2905 CE	5573
3443	4700	TC 40 - ER 16 / H 70	40	ER 16 1÷12	32	160	-	•	4993	0186	3698	0364
3444	4701	TC 40 - ER 16 / H 100	40	ER 16 1÷12	32	100	-	•	4993	0186	3698	0364
3098	4754	TC 40 - ER 16 / H 130	40	ER 16 1÷12	32	130	-	•	4993	0186	3698	0364
3445	4702	TC 40 - ER 16 / H 160	40	ER 16 1÷12	32	160	-	•	4993	0186	3698	0364
3446	4755	TC 40 - ER 16 / H 200	40	ER 16 1÷12	32	200	-	•	4993	0186	3698	0364
3344	4703	TC 40 - ER 20 / H 70	40	ER 20 1÷15	35	70	-	•	4994	4973	3699	0787
0140	4704	TC 40 - ER 20 / H 100	40	ER 20 1÷15	35	100	-	•	4994	4973	3699	0787
3099	4830	TC 40 - ER 20 / H 130	40	ER 20 1÷15	35	130	-	•	4994	4973	3699	0787
3100	4705	TC 40 - ER 20 / H 160	40	ER 20 1÷15	35	160	-	•	4994	4973	3699	0787
3104	4831	TC 40 - ER 20 / H 200	40	ER 20 1÷15	35	200	-	•	4994	4973	3699	0787
3345	4706	TC 40 - ER 25 / H 70	40	ER 25 1÷20	42	70	-	•	4995	0190	3669	0996
0141	4707	TC 40 - ER 25 / H 100	40	ER 25 1÷20	42	100	-	•	4995	0190	3669	0996
0142	4708	TC 40 - ER 25 / H 130	40	ER 25 1÷20	42	130	-	•	4995	0190	3669	0996
0146	4709	TC 40 - ER 25 / H 160	40	ER 25 1÷20	42	160	-	•	4995	0190	3669	0996
3105	4832	TC 40 - ER 25 / H 200	40	ER 25 1÷20	42	200	-	•	4995	0190	3669	0996
3346	4710	TC 40 - ER 32 / H 70	40	ER 32 2÷25	50	70	-	•	4996	0191	3670	0988
3347	4711	TC 40 - ER 32 / H 100	40	ER 32 2÷25	50	100	-	•	4996	0191	3670	0988
3101	4712	TC 40 - ER 32 / H 130	40	ER 32 2÷25	50	130	-	•	4996	0191	3670	0988
3348	4713	TC 40 - ER 32 / H 160	40	ER 32 2÷25	50	160	-	•	4996	0191	3670	0988
3102	4076	TC 40 - ER 32 / H 200	40	ER 32 2÷25	50	200	-	•	4996	0191	3670	0988
3349	4714	TC 40 - ER 40 / H 70	40	ER 40 3÷32	63	70	-	•	4997	0195	3671	0821
3350	4715	TC 40 - ER 40 / H 100	40	ER 40 3÷32	63	100	-	•	4997	0195	3671	0821
3351	4716	TC 40 - ER 40 / H 130	40	ER 40 3÷32	63	130	-	•	4997	0195	3671	0821
0153	4717	TC 40 - ER 40 / H 160	40	ER 40 3÷32	63	160	-	•	4997	0195	3671	0821

follows >>

ER COLLET CHUCKS







H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

DIN 69871 AD/B - DIN6499/ISO15488

COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	ER	d	L	G6,3 12000	G6,3 15000	1 NUT	2 SCREW	WRENCH	COLLET
3103	4718	TC 40 - ER 40 / H 200	40	ER 40 3÷32	63	200	-	•	4997	0195	3671	0821
0154	4719	TC 40 - ER 50 / H 85	40	ER 50 6÷36	78	85	-	•	4998	0195	3668	4055
3353	-	TC 45 - ER 32 / H 70	45	ER 32 2÷25	50	70	-	•	4996	0191	3670	0988
3106	-	TC 45 - ER 32 / H 100	45	ER 32 2÷25	50	100	-	•	4996	0191	3670	0988
3354	-	TC 45 - ER 32 / H 130	45	ER 32 2÷25	50	130	-	•	4996	0191	3670	0988
0184	-	TC 45 - ER 32 / H 160	45	ER 32 2÷25	50	160	-	•	4996	0191	3670	0988
3355	-	TC 45 - ER 40 / H 80	45	ER 40 3÷32	63	80	-	•	4997	0195	3671	0821
5130	5134	TC 50 - ER 16 / H 70	50	ER 16 1÷12	32	70	•	-	4993	0186	3698	0787
3451	4731	TC 50 - ER 16 / H 100	50	ER 16 1÷12	32	100	•	-	4993	0186	3698	0787
3452	4732	TC 50 - ER 16 / H 160	50	ER 16 1÷12	32	160	•	-	4993	0186	3698	0787
3453	4806	TC 50 - ER 16 / H 200	50	ER 16 1÷12	32	200	•	-	4993	0186	3698	0787
5131	-	TC 50 - ER 20 / H 70	50	ER 20 1÷15	35	70	•	-	4994	4973	3699	0787
3110	4733	TC 50 - ER 20 / H 100	50	ER 20 1÷15	35	100	•	-	4994	4973	3699	0787
3111	4734	TC 50 - ER 20 / H 160	50	ER 20 1÷15	35	160	•	-	4994	4973	3699	0787
3112	4807	TC 50 - ER 20 / H 200	50	ER 20 1÷15	35	200	•	-	4994	4973	3699	0787
3360	4735	TC 50 - ER 25 / H 70	50	ER 25 1÷20	42	70	•	-	4995	0190	3669	0996
0193	4736	TC 50 - ER 25 / H 100	50	ER 25 1÷20	42	100	•	-	4995	0190	3669	0996
0199	4737	TC 50 - ER 25 / H 160	50	ER 25 1÷20	42	160	•	-	4995	0190	3669	0996
3372	4808	TC 50 - ER 25 / H 200	50	ER 25 1÷20	42	200	•	-	4995	0190	3669	0996
3900	4738	TC 50 - ER 32 / H 70	50	ER 32 2÷25	50	70	•	-	4996	0191	3670	0988
3361	4739	TC 50 - ER 32 / H 100	50	ER 32 2÷25	50	100	•	-	4996	0191	3670	0988
3362	4740	TC 50 - ER 32 / H 130	50	ER 32 2÷25	50	130	•	-	4996	0191	3670	0988
3363	4741	TC 50 - ER 32 / H 160	50	ER 32 2÷25	50	160	•	-	4996	0191	3670	0988
3364	4742	TC 50 - ER 32 / H 200	50	ER 32 2÷25	50	200	•	-	4996	0191	3670	0988
3382	4809	TC 50 - ER 32 / H 250	50	ER 32 2÷25	50	250	•	-	4996	0191	3670	0988
3901	4743	TC 50 - ER 40 / H 80	50	ER 40 3÷32	63	80	•	-	4997	0195	3671	0821
3365	4744	TC 50 - ER 40 / H 100	50	ER 40 3÷32	63	100	•	-	4997	0195	3671	0821
3366	4745	TC 50 - ER 40 / H 130	50	ER 40 3÷32	63	130	•	-	4997	0195	3671	0821
3367	4746	TC 50 - ER 40 / H 160	50	ER 40 3÷32	63	160	•	-	4997	0195	3671	0821
3368	4747	TC 50 - ER 40 / H 200	50	ER 40 3÷32	63	200	•	-	4997	0195	3671	0821
3369	4810	TC 50 - ER 50 / H 100	50	ER 50 6÷36	78	100	•	-	4998	0195	3668	4055
8044	8045	TC 50 - ER 50 / H 160	50	ER 50 6÷36	78	160	•	-	4998	0195	3668	4055

ACCESSORIES

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EQUIPMENT CASE WITH REDUCED SET OF ER COLLETS, AD SHAPE COLLET CHUCK AND WRENCH



			1	2		
COD.	DESCRIPTION	ISO	CHUCK	CASE	WRENCH	COLLET
7772	KIT Rid TC 40 / H 70 - ER 25	40	3345	7022	3669	0996: Ø 4 - 6 - 8 -10 -12 -16
7773	KIT Rid TC 40 / H 70 - ER 32	40	3346	7023	3670	0988: Ø 4 - 6 - 8 -10 -12 -16 - 20
7774	KIT Rid TC 40 / H 70 - ER 40	40	3349	7024	3671	0821: Ø 4 - 6 - 8 -10 -12 -16 - 20 -25
7775	KIT Rid TC 50 / H 70 - ER 32	50	3900	7023	3670	0988: Ø 4 - 6 - 8 -10 -12 -16 - 20
7776	KIT Rid TC 50 / H 80 - ER 40	50	3901	7024	3671	0821: Ø 4 - 6 - 8 -10 -12 -16 - 20 -25

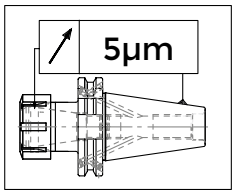
EQUIPMENT CASE WITH COMPLETE SET OF ER COLLETS, AD SHAPE COLLET CHUCK AND WRENCH



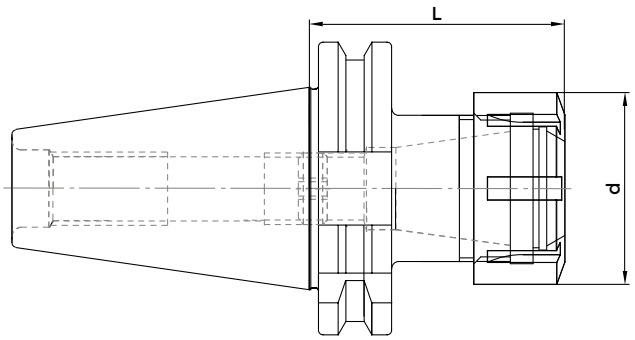
			1	2		
COD.	DESCRIPTION	ISO	CHUCK	CASE	WRENCH	COLLET
7779	KIT TC 40 /H 70 - ER25	40	3345	7022	3669	0996: Ø 2 ÷ 16 (15 Pinze)
7780	KIT TC 40 /H 70 - ER32	40	3346	7023	3670	0988: Ø 3 ÷ 20 (18 Pinze)
7781	KIT TC 40 /H 70 - ER40	40	3349	7024	3671	0821: Ø 4 ÷ 26 (23 Pinze)
7782	KIT TC 50 /H 70 - ER32	50	3900	7023	3670	0988: Ø 3 ÷ 20 (18 Pinze)
7783	KIT TC 50 /H 80 - ER40	50	3901	7024	3671	0821: Ø 4 ÷ 26 (23 Pinze)

ER COLLET CHUCKS - HIGH SPEED LINE





H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm



DIN 69871 AD - DIN 6499/ISO15488

HIGH SPEED LINE

COD.	DESCRIPTION	ISO	ER	d	L	G2.5 30000
PP91301	TC40H70ER16	40	16	32	70	•
PP91324	TC40H70ER20	40	20	35	70	•
PP91302	TC40H70ER25	40	25	42	70	•
PP91303	TC40H70ER32	40	32	50	70	•
PP91304	TC40H70ER40	40	40	63	70	•
PP91306	TC50H70ER32	50	32	50	70	•
PP91308	TC40H100ER16	40	16	32	100	•
PP91325	TC40H100ER20	40	20	35	100	•
PP91309	TC40H100ER25	40	25	42	100	•
PP91310	TC40H100ER32	40	32	50	100	•
PP91312	TC50H100ER16	50	16	32	100	•
PP91313	TC50H100ER25	50	25	42	100	•
PP91314	TC50H100ER32	50	32	50	100	•
PP91316	TC40H160ER16	40	16	32	160	•
PP91317	TC40H160ER25	40	25	42	160	•
PP91318	TC40H160ER32	40	32	50	160	•

ACCESSORIES

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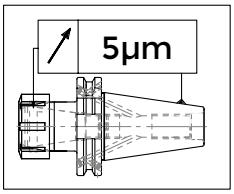
p. 615



p. 636

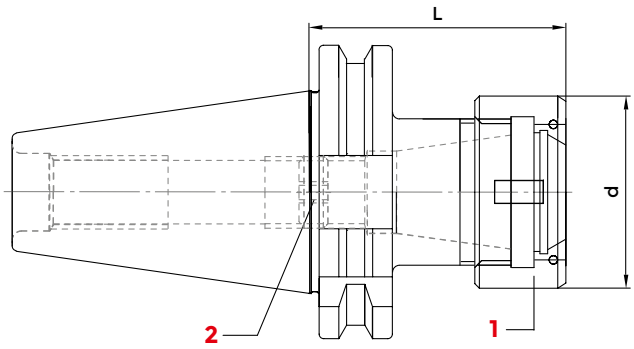


DIN6388 (EOC) COLLET CHUCKS



H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

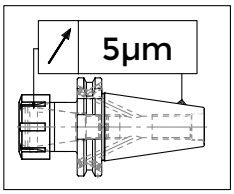




DIN 69871 AD/B - DIN6388

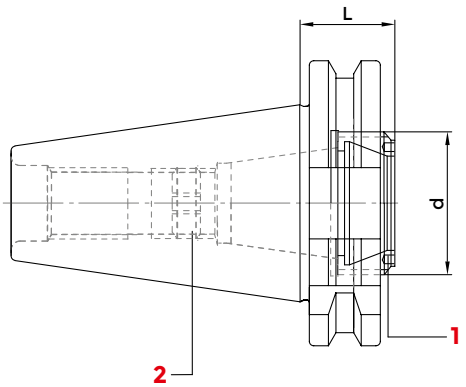
								1		2
COD.	DESCRIPTION	ISO	EOC	d	L	G6.3 12000	G6.3 15000	NUT	WRENCH	COLLET
										
8693	TC 40-EOC 16/ H70	40	EOC 16 2÷16	43	70	-	•	4067	2883	0768
8696	TC 40-EOC 25/ H70	40	EOC 25 2÷25	60	70	-	•	4068	2909	0769
8699	TC 40-EOC 32/ H80	40	EOC32 3÷32	72	80	-	•	4069	2910	0770
8703	TC 50-EOC 25/ H100	50	EOC 25 2÷25	60	100	•	-	4068	2909	0769
8705	TC 50-EOC 32/ H80	50	EOC 32 3÷32	72	80	•	-	4069	2910	0770
8706	TC 50-EOC 32/ H130	50	EOC 32 3÷32	72	130	•	-	4069	2910	0770

ER SHORT COLLET CHUCK WITH INNER NUT



H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm





DIN 69871 AD - DIN 69871 A

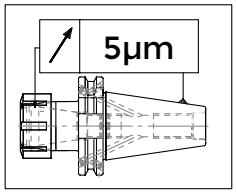
							1		2
COD.	DESCRIPTION	ISO	L	ER	G6.3 12000	G6.3 15000	NUT	WRENCH	COLLET
									
8038	TC 40 - ER25 GA	40	21	ER 25 1÷20	-	•	2870	3172	0996
3370	TC 40 - ER32 GA	40	21	ER 32 2÷25	-	•	2871	3173	0988
3371	TC 50 - ER32 GA	50	21	ER 32 2÷25	•	-	2871	3173	0988

ACCESSORIES

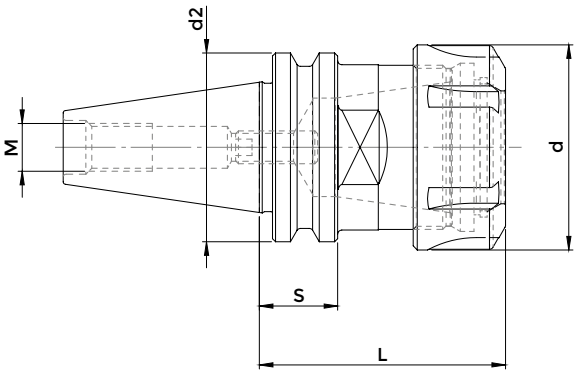
p. 687 
p. 686 
p. 637 
p. 634 
p. 615 
p. 634 

ER COLLET CHUCKS - HIGH SPEED LINE





H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm



DIN 69871 AD/B - DIN6499/ISO15488

RIGHT SPIN

										1	2	3	4
COD.	DESCRIPTION	ISO	ER	d	d2	L	S	M	G2,5 30000	NUT	WRENCH	COLLET	LOCKING NUT
2545	ISO 30 AV - ER 32 / H 60	30	ER 32 2÷25	50	46,00	60	15,9	M 12	•	4996	3670	0988	0559
2546	ISO 30 AV - ER 40 / H 65	30	ER 40 3÷32	63	46,00	65	15,9	M 12	•	4997	3671	0821	0561
2373	ISO 30 AV - ER 25 / H 65	30	ER 25 1÷20	42	50,00	65	15,9	M 12	•	4995	3669	0996	-
2519	ISO 30 AV - ER 32 / H 50	30	ER 32 2÷25	50	50,00	50	15,9	M 14	•	4996	3670	0988	0559
2520	ISO 30 AV - ER 32 / H 68	30	ER 32 2÷25	50	50,00	68	15,9	M 15	•	4996	3670	0988	0559
2562	ISO 30 AV - ER 40 / H 57	30	ER 40 3÷32	63	50,00	57	15,9	M 16	•	4997	3671	0821	0561
2563	ISO 30 AV - ER 40 / H 68	30	ER 40 3÷32	63	50,00	68	15,9	M 17	•	4997	3671	0821	0561
2522	ISO 30 AV - ER 32 / H 63	30	ER 32 2÷25	50	58,00	63	15,9	M 18	•	4996	3670	0988	0559
2567	ISO 40 AV - ER 32 / H 63	40	ER 32 2÷25	50	58,00	63	15,9	M 16	•	4996	3670	988	0559
2568	ISO 40 AV - ER 32 / H 68	40	ER 32 2÷25	50	63,55	68	15,9	M 18	•	4996	3670	0988	0559
2521	ISO 40 AV - ER 40 / H 72	40	ER 40 3÷32	63	63,55	68	15,9	M 19	•	4997	3671	0821	0561

LEFT SPIN

										1	2	3	4
COD.	DESCRIPTION	ISO	ER	d	d2	L	S	M	G2,5 30000	NUT	WRENCH	COLLET	LOCKING NUT
2545 SX	ISO 30 AV - ER 32 / H 60	30	ER 32 2÷25	50	46,00	60	15,9	M 12	•	3074	3670	0988	0560
2546 SX	ISO 30 AV - ER 40 / H 65	30	ER 40 3÷32	63	46,00	65	15,9	M 12	•	3075	3671	0821	0580
2519 SX	ISO 30 AV - ER 32 / H 50	30	ER 32 2÷25	50	50,00	50	15,9	M 12	•	3074	3670	0988	0560
2520 SX	ISO 30 AV - ER 32 / H 68	30	ER 32 2÷25	50	50,00	68	15,9	M 12	•	3074	3670	0988	0560
2562 SX	ISO 30 AV - ER 40 / H 57	30	ER 40 3÷32	63	50,00	57	15,9	M 12	•	3075	3671	0821	0580
2563 SX	ISO 30 AV - ER 40 / H 68	30	ER 40 3÷32	63	50,00	68	15,9	M 12	•	3075	3671	0821	0580
2522 SX	ISO 30 AV - ER 32 / H 63	30	ER 32 2÷25	50	58,00	63	15,9	M 12	•	3074	3670	0988	0560

ACCESSORIES

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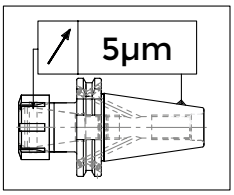
p. 615



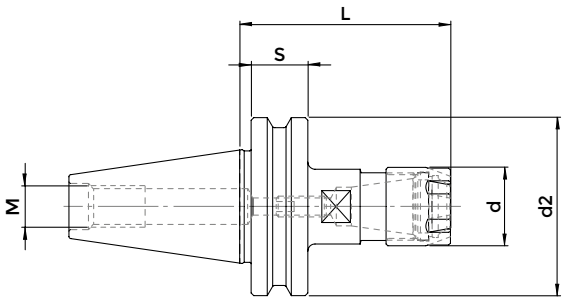
p. 636



ER COLLET CHUCKS - FLANGE W/OUT LUGS

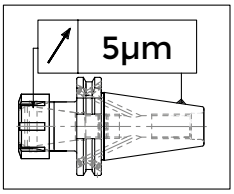




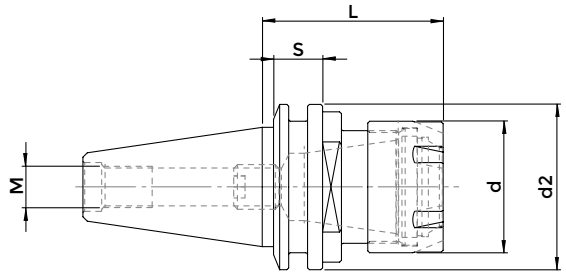


H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

COD.	DESCRIPTION	ISO	ER	d	d2	L	S	M	G2,5 30000	NUT	WRENCH	COLLET
2571	ISO 20 AV - ER 16 / H 49	20	ER 16 1÷12	22	30	49	15,9	M 8	•	1229	5719	0364
4153	ISO 30 AV - ER 16 / H 60	30	ER 16 1÷12	22	50	60	15,9	M 12	•	1229	5719	0364
4171	ISO 30 AV - ER 20 / H 53	30	ER 20 1÷15	28	50	53	15,9	M 12	•	1230	5720	0787

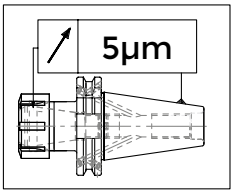




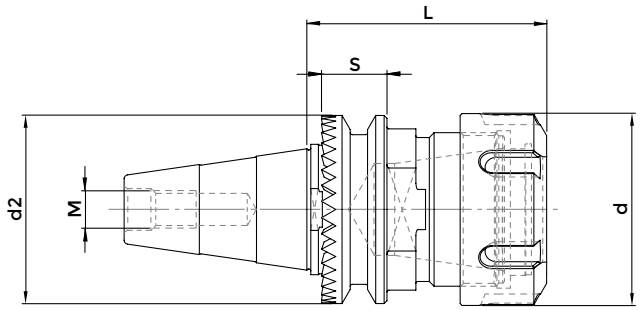


H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

COD.	DESCRIPTION	ISO	ER	d	d2	L	S	M	G2,5 30000	NUT	WRENCH	COLLET
3523	ISO 30 CORTINI - ER 25 GM	30	ER 25 1÷20	35	44	48	13	M 12	•	1231	5721	0996





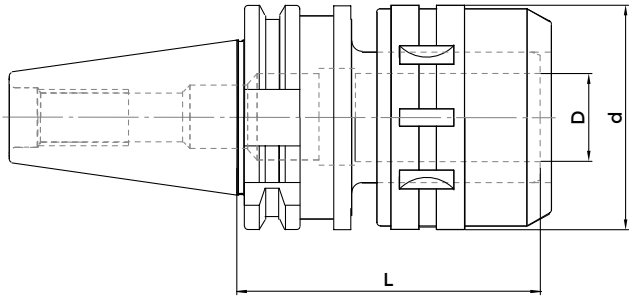


H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

COD.	DESCRIPTION	ISO	ER	d	d2	L	S	M	G2,5 30000	NUT	WRENCH	COLLET
2116	ISO 30 SCM - ER 32	30	ER 32 2÷25	50	49	55	17	M 10	•	4996	3670	0988
2117	ISO 30 SCM - ER 40	30	ER 40 3÷32	63	49	74	17	M 10	•	4997	3671	0821
2118	ISO 30 SCM - EOC 25	30	EOC 25 2÷25	60	49	70	17	M 10	•	4068	2909	0769

MILLING CHUCKS



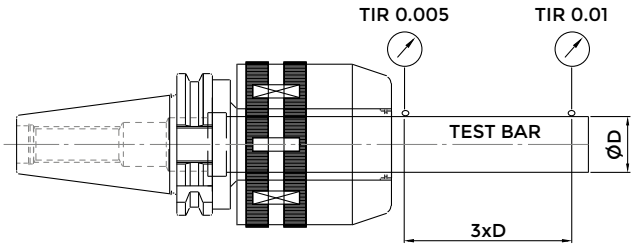


DIN 69871 AD

COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	d	D	L	G6.3 12000	COLLET
9626	-	TC 40- PC 16 / H 65	40	34	16	65	•	0805
5110	5222	TC 40 - PC 20 / H 90	40	54	20	90	•	0809
3241	-	TC 40 - PC 20 / H 105	40	54	20	105	•	0809
-	5223	TC 40 - PC 32 / H 95	40	63	32	95	•	0810
3242	-	TC 40 - PC 32 / H 105	40	72	32	105	•	0810
-	5225	TC 50 - PC 20 / H 85	50	50	20	85	•	0809
3243	-	TC 50 - PC 20 / H 105	50	54	20	105	•	0809
-	9637	TC 50 - PC 20 / H 135	50	50	20	135	•	0809
-	5226	TC 50 - PC 32 / H 90	50	63	32	90	•	0810
3244	5227	TC 50 - PC 32 / H 105	50	72	32	105	•	0810
5106	-	TC 50 - PC 32 / H 135	50	72	32	135	•	0810

Supplied with wrench

MILLING CHUCK Ø	SPECIFICATION DIN 7178-1	TOLLERANCE	RUN-OUT (3D)	CLAMPING TORQUE
C20	AT3	TC40 (0~+0,003)	0~0,01	980M.m (100 Kgf.m)
C32	AT3	TC50 (0~+0,004)	0~0,01	3430M.m (350 Kgf.m)



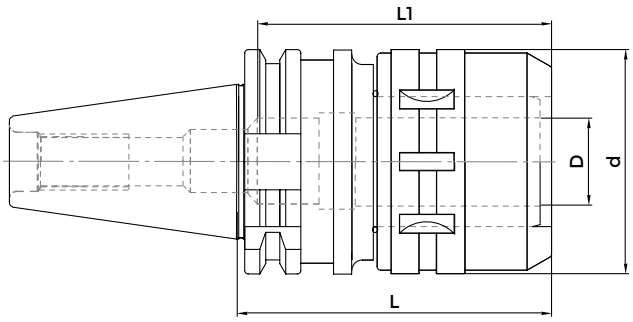
ACCESSORIES



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MILLING CHUCKS - HIGH SPEED LINE





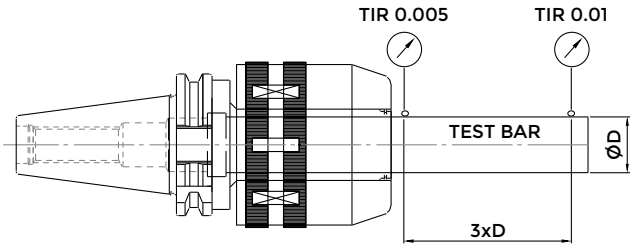
DIN 69871 A

HIGH SPEED LINE

COD.	DESCRIPTION	ISO	D	d	L	L1	G6.3 20000	COLLET
FS01202	TC40H105C20HS	40	20	54	105	70	•	0809
FS01203	TC40H105C32HS	40	32	74	105	100	•	0810
FS01205	TC50H105C32HS	50	32	74	105	100	•	0810

Supplied with wrench

MILLING CHUCK Ø	SPECIFICATION DIN 7178-1	TOLLERANCE	RUN-OUT (3D)	CLAMPING TORQUE
C20	AT3	TC40 (0~+0,003)	0~0,01	980M.m (100 Kgf.m)
C32	AT3	TC50 (0~+0,004)	0~0,01	3430M.m (350 Kgf.m)



ACCESSORIES



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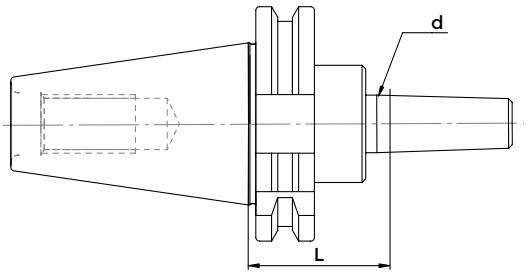
MILLING KIT: CHUCK, WRENCH, COLLET



COD.	DESCRIPTION	ISO	CHUCK	CASE	WRENCH	COLLET
7543	KIT TC 40 - PC 20 / H 90	40	5110	3695	2900	0809 Ø 6 - 8 - 10 - 12 - 16
7704	KIT TC 40 - PC 20 / H 105	40	3241	3695	2900	0809 Ø 6 - 8 - 10 - 12 - 16
7707	KIT TC 40 - PC 32 / H 105	40	3242	3695	2910	0810 Ø 6 - 8 - 10 - 12 - 16 - 20 - 25
7708	KIT TC 50 - PC 20 / H 105	50	3243	3695	2900	0809 Ø 6 - 8 - 10 - 12 - 16
7711	KIT TC 50 - PC 32 / H 105	50	3244	3695	2910	0810 Ø 6 - 8 - 10 - 12 - 16 - 20 - 25

DRILL CHUCKS ADAPTERS



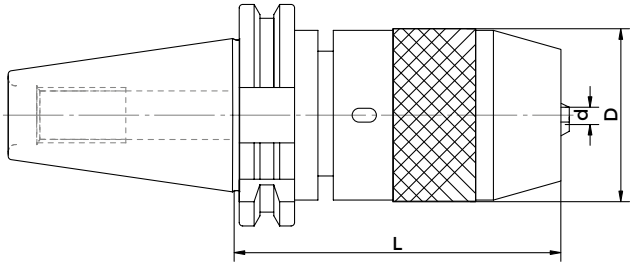


DIN 69871 AD - DIN 238

COD.	DESCRIPTION	ISO	L	d	G6,3 8000
3867	TC 30 - B 12	30	40	12,065	•
3868	TC 30 - B 16	30	40	15,733	•
3869	TC 40 - B 12	40	40	12,065	•
3870	TC 40 - B 16	40	40	15,733	•
3871	TC 40 - B 18	40	40	17,780	•
3998	TC 50 - B 16	50	40	15,733	•
3999	TC 50 - B 18	50	40	17,780	•

DRILL CHUCKS - RIGHT SPIN



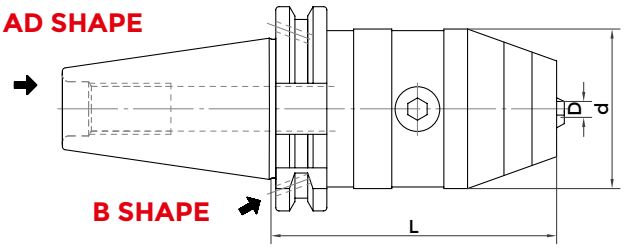


DIN 69871 A

COD.	DESCRIPTION	ISO	DRILL RANGE	L	d	G6,3 8000	CLAMPS	CROSS	WRENCH
8583	TC 30 - DC 13	30	0,5 ÷ 13	100	50	•	9016	9021	2370
4398	TC 40 - DC 13	40	0,5 ÷ 13	90	50	•	9016	9021	2370
4399	TC 40 - DC 16	40	3 ÷ 16	115	57	•	9017	9023	2371
4402	TC 50 - DC 13	50	0,5 ÷ 13	100	50	•	9016	9021	2370
4403	TC 50 - DC 16	50	3 ÷ 16	105	57	•	9017	9023	2371

DRILL CHUCKS - LEFT AND RIGHT SPIN



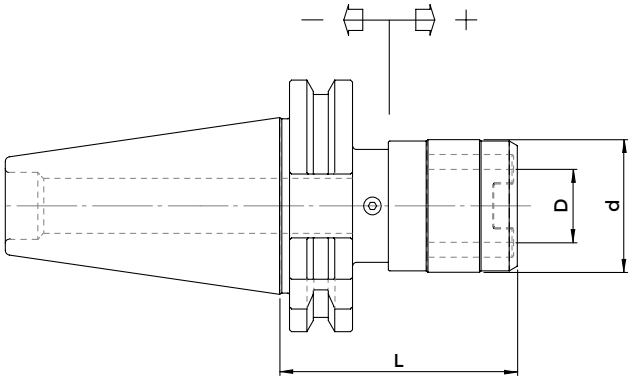


DIN 69871 ADB

COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	DRILL RANGE	L	d	G6,3 8000	WRENCH
8585	8589	TC 40 - DCU 13	40	0,5 ÷ 13	90	50	•	2372
8586	8590	TC 40 - DCU 16	40	3 ÷ 16	95	50	•	2372
8587	8591	TC 50 - DCU 13	50	0,5 ÷ 13	90	50	•	2372
8588	8592	TC 50 - DCU 16	50	3 ÷ 16	95	50	•	2372

TENSION/COMPRESSION QUICK CHANGE TAPPING HEADS



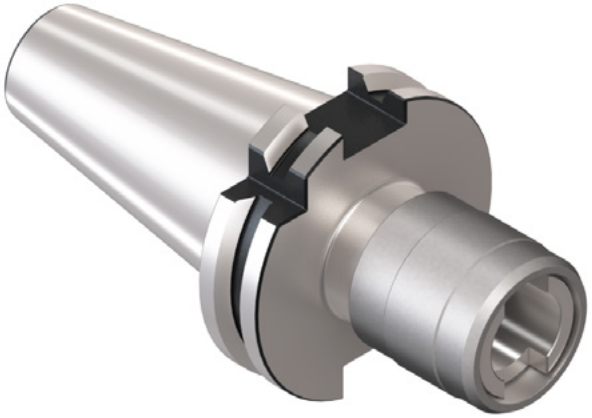


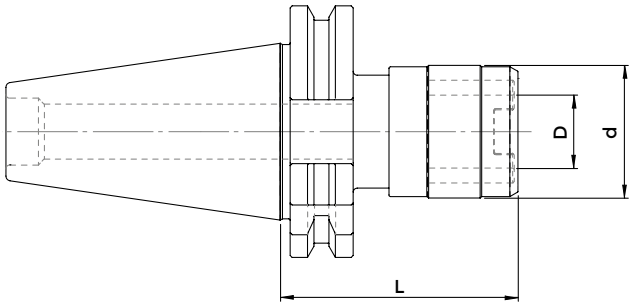
DIN 69871 A

COD.	DESCRIPTION	ISO	D	d	L	G6,3 8000	RANGE	TAP SIZE RANGE
2995	TC 30 - B. 1	30	19	38	60	•	- 7,5 + 7,5	M 3 ÷ M 12 (*18)
2996	TC 30 - B. 2	30	31	55	100	•	- 12,5 + 12,5	M 6 ÷ M 20 (*30)
3377	TC 40 - B. 1	40	19	38	60	•	- 7,5 + 7,5	M 3 ÷ M 12 (*18)
3378	TC 40 - B. 2	40	31	55	100	•	- 12,5 + 12,5	M 6 ÷ M 20 (*30)
3379	TC 40 - B. 3	40	48	79	140	•	- 20,0 + 20,0	M 14 ÷ M 33 (*48)
3380	TC 45 - B. 1	45	19	38	60	•	- 7,5 + 7,5	M 3 ÷ M 12 (*18)
3381	TC 45 - B. 2	45	31	55	84	•	- 12,5 + 12,5	M 6 ÷ M 20 (*30)
4151	TC 50 - B. 1	50	19	38	62	•	- 7,5 + 7,5	M 3 ÷ M 12 (*18)
3383	TC 50 - B. 2	50	31	55	83	•	- 12,5 + 12,5	M 6 ÷ M 20 (*30)
3384	TC 50 - B. 3	50	48	79	133	•	- 20,0 + 20,0	M 14 ÷ M 33 (*48)

* Adapters with screws

SOLID TAPPING HEADS



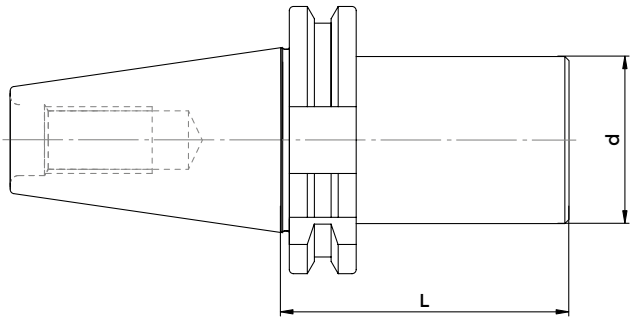


DIN 69871 A

COD.	DESCRIPTION	ISO	D	d	L	G6,3 8000	TAP SIZE RANGE
							
4946	TC 30 - B. 1 FISSO	30	19	33	59	•	M 3 ÷ M 12 (*18)
4947	TC 30 - B. 2 FISSO	30	31	50	80	•	M 6 ÷ M 20 (*30)
4948	TC 40 - B. 1 FISSO	40	19	33	59	•	M 3 ÷ M 12 (*18)
4949	TC 40 - B. 2 FISSO	40	31	50	86	•	M 6 ÷ M 20 (*30)
4991	TC 40 - B. 3 FISSO	40	48	72	122	•	M 14 ÷ M 33 (*48)
3062	TC 50 - B. 1 FISSO	50	19	33	75	•	M 3 ÷ M 12 (*18)
4950	TC 50 - B. 2 FISSO	50	31	50	98	•	M 6 ÷ M 20 (*30)
4992	TC 50 - B. 3 FISSO	50	48	72	122	•	M 14 ÷ M 33 (*48)

BLANK BARS





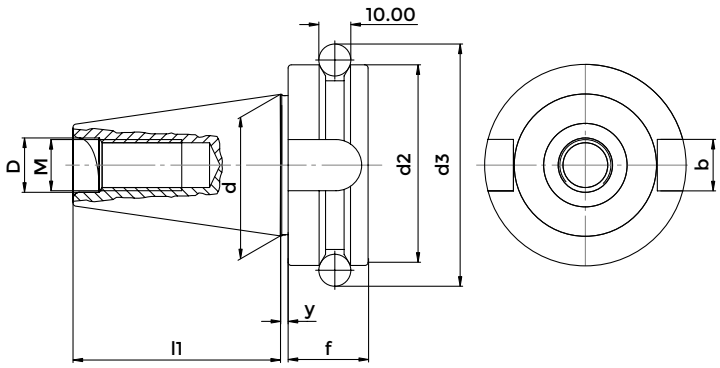
DIN 69871 A

COD.	DESCRIPTION	ISO	d	L
4355	TC 40 - D. 40 ST	40	40	160
4356	TC 40 - D. 50 ST	40	50	200
8547	TC 40 - D. 63 ST	40	63	160
4357	TC 40 - D. 63 ST	40	63	250
4362	TC 50 - D. 40 ST	50	40	160
4364	TC 50 - D. 63 ST	50	63	250
8572	TC 50 - D. 80 ST	50	80	160
8573	TC 50 - D. 80 ST	50	80	200
4365	TC 50 - D. 80 ST	50	80	300



BT CHUCKS
JIS-B 6339

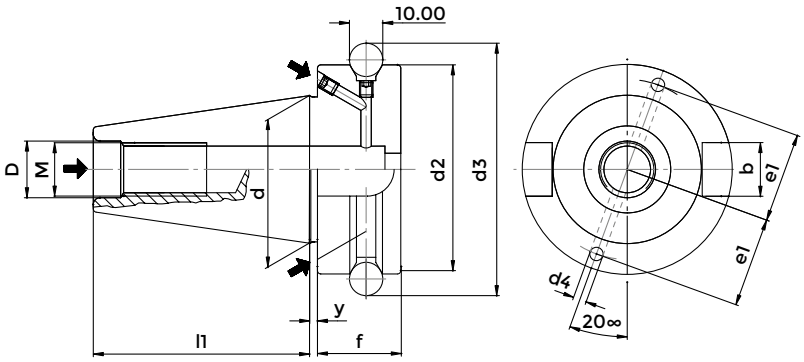
TAPER SHANKS DATA SHEET

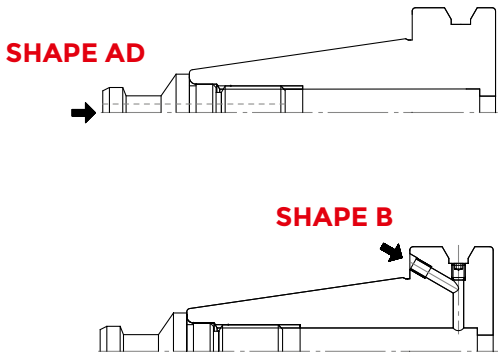


JIS-B 6339 - MAS 403/BT SHAPE A

ISO	d	l1	D	M	y	d2	f	d3	b
30	31,75	48,4	12,5	M12	2	46	20	56,144	16,1
40	44,45	65,4	17	M16	2	63	25	75,68	16,1
50	69,85	101,8	25	M24	3	100	35	110,02	25,7

TAPER SHANKS DATA SHEET





JIS-B 6339 MAS 403/BT SHAPE AD/B

ISO	d	l1	D	M	y	d2	f	d3	d4	el	b
40	44,45	65,4	17	M16	2	63	25	75,68	4	27	16,1
50	69,85	101,8	25	M24	3	100	35	110,02	5	42	25,7

For coolant through V-flange bores (B) or center of toolholders (AD). For central coolant, the V-flange channels are closed by socket screws.

TECHNICAL FEATURES
KINTEK DIN TOOLHOLDERS

JIS-B 6339 MAS 403/BT SHAPE A-AD/B

All Kintek Toolholders are manufactured according to DIN norm.

COLLET CHUCK RUNOUT ACCURACY

The norm DIN6391 permits a runout error between external cone and internal cone / collet seat of 0.016.

Our production has a runout accuracy which is guaranteed to be within 0,003 / 0,010 m at the tool seat.

SHELL END MILL ADAPTOR RUNOUT ACCURACY

Our shell end mill adaptors meet the requirements of the norm DIN6358, which prescribes for diameters 16-22-27-32-40 a runout accuracy of: 0, 01 for SK 30/40 0,015 for SK 50.

WELDON END MILL HOLDER RUNOUT ACCURACY

According to the norm DIN6359-1 Weldon end mill holders have to meet the following requirements:
BORE: H5 tolerance
RUNOUT ACCURACY: <0.01 (per ISO 40)
Our end mill adaptors ensure the prescribed holes' tolerance and have a runout accuracy which is normally 0.005.

BALANCING

The major part of toolholders of this category can run up to 8000 rpm grade G 6,3 or 12000 rpm. Besides the descriptive and dimensional table of products, you can find the addictive balancing grade.

CONSTRUCTIVE FEATURES

- Manufactured with Casehardening Steel.
- Casehardened with depth 0,6 - 0,8 mm
- Hardened-Tempered
- Hardness HRC 58+-2, Strength 800-1000 N/mm^2
- Black oxided
- Internal and external grinding finished.

NEW HIGH-SPEED BALANCING TOOLHOLDERS

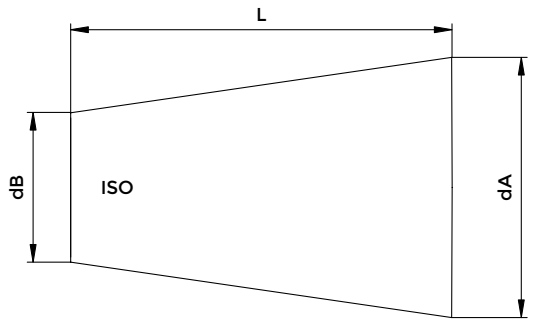
The new high-speed toolholders are balanced in the Grade G 2,5 at 25000 rpm.

CONSTRUCTIVE FEATURES FOR HIGH-SPEED TOOLHOLDERS

- Manufactured with casehardening Steel.
- Casehardened with depth 0,6 - 0,8 mm
- Hardened-Tempered
- Hardness HRC 58+-2, Strength 800-1000 N/mm^2
- Black oxided
- Internal and external grinding finish of the cone
- Grinding finish on the front side and on the thread of collet nuts.
- Tested 100% with certified measuring instruments and supplied with balancing certificate

CONE TOLERANCE

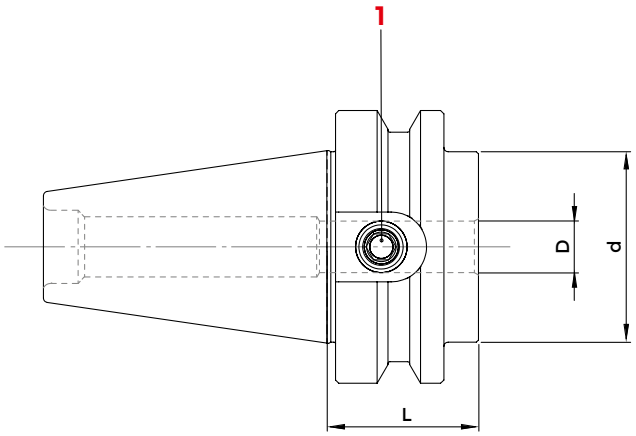
According to the class AT3



ISO	L	dA-dB	AT3
30	42	12.250	+0.002
40	59	17.208	+0.003
50	92	26.833	+0.004

SHORT TYPE WELDON END MILL HOLDERS



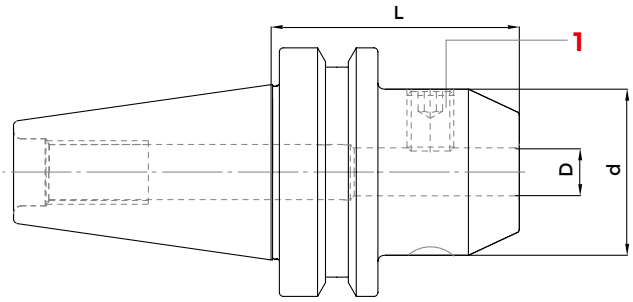


JIS-B 6339 MAS 403/BT SHAPE AD/B - DIN 1835 B

COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	D	L	d	G6,3 12000	G6,3 15000	1 SCREW 1	1 SCREW 2
0968	-	BT 30- WE 12 / H35	30	12	35	42	•	-	0200	-
0976	-	BT 30 - WE 16 / H35	30	16	35	42	•	-	0082	-
0977	-	BT 30 - WE 20 / H35	30	20	35	43	•	-	811-106024	-
0978	-	BT 30 - WE 25 / H35	30	25	35	45,5	•	-	0082	-
3053	-	BT 40 - WE 12 / H 35	40	12	35	44	-	•	4973	-
3054	5122	BT 40 - WE 16 / H 35	40	16	35	44	-	•	0068	-
3055	5123	BT 40 - WE 20 / H 35	40	20	35	44	-	•	0261	-
3056	-	BT 40 - WE 25 / H 35	40	25	35	44	-	•	0082	-
4629	4554	BT 40 - WE 25 / H 60	40	25	60	49	-	•	0082	0076
3069	-	BT 40 - WE 32 / H 40	40	32	40	44	-	•	0074	-
4630	4556	BT 40 - WE 32 / H 70	40	32	70	72	-	•	0082	4977
3057	-	BT 50 - WE 16 / H 44	50	16	44	70	•	-	4974	-
3058	5126	BT 50 - WE 20 / H 44	50	20	44	70	•	-	4975	-
3059	5127	BT 50 - WE 25 / H 44	50	25	44	70	•	-	4976	-
3060	5128	BT 50 - WE 32 / H 44	50	32	44	70	•	-	4977	-
8468	8473	BT 50 - WE 40 / H 44	50	40	44	70	•	-	0259	-

WELDON END MILL HOLDERS





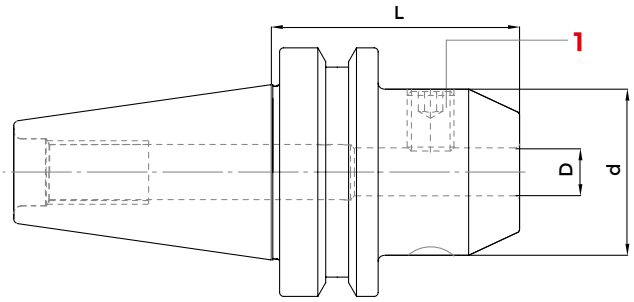
JIS-B 6339 MAS 403/BT SHAPE AD/B - DIN 1835 B

COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	D	L	d	G6,3 12000	G6,3 15000	1 SCREW
3740	-	BT 30 - WE 6 / H 50	30	6	50	25	-	•	4970
3741	-	BT 30 - WE 8 / H 50	30	8	50	28	-	•	4971
3742	-	BT 30 - WE 10 / H 50	30	10	50	35	-	•	4972
3743	-	BT 30 - WE 12 / H 55	30	12	55	42	-	•	4973
3744	-	BT 30 - WE 16 / H 63	30	16	63	48	-	•	4974
3299	-	BT 30 - WE 20 / H 70	30	20	70	52	-	•	4975
3752	4909	BT 40 - WE 6 / H 50	40	6	50	25	-	•	4970
5057	5863	BT 40 - WE 6 / H 100	40	6	100	25	-	•	4970
8004	8021	BT 40 - WE 6 / H 130	40	6	130	25	-	•	4970
5564	5864	BT 40 - WE 6 / H 160	40	6	160	25	-	•	4970
4253	4391	BT 40 - WE 6 / H 200	40	6	200	25	-	•	4970
3753	4910	BT 40 - WE 8 / H 50	40	8	50	28	-	•	4971
5058	5865	BT 40 - WE 8 / H 100	40	8	100	28	-	•	4971
8005	8022	BT 40 - WE 8 / H 130	40	8	130	28	-	•	4971
5565	5866	BT 40 - WE 8 / H 160	40	8	160	28	-	•	4971
4254	4396	BT 40 - WE 8 / H 200	40	8	200	28	-	•	4971
3754	4911	BT 40 - WE 10 / H 63	40	10	63	35	-	•	4972
5059	5867	BT 40 - WE 10 / H 100	40	10	100	35	-	•	4972
8006	8023	BT 40 - WE 10 / H 130	40	10	130	35	-	•	4972
5566	5868	BT 40 - WE 10 / H 160	40	10	160	35	-	•	4972
4255	4397	BT 40 - WE 10 / H 200	40	10	200	35	-	•	4972
3755	4912	BT 40 - WE 12 / H 63	40	12	63	42	-	•	4973
5060	5869	BT 40 - WE 12 / H 100	40	12	100	42	-	•	4973
8007	8024	BT 40 - WE 12 / H 130	40	12	130	42	-	•	4973
5567	5870	BT 40 - WE 12 / H 160	40	12	160	42	-	•	4973
4262	4401	BT 40 - WE 12 / H 200	40	12	200	42	-	•	4973
4557	4913	BT 40 - WE 14 / H 63	40	14	63	44	-	•	4973
5061	5871	BT 40 - WE 14 / H 100	40	14	100	44	-	•	4973
8008	8025	BT 40 - WE 14 / H 130	40	14	130	44	-	•	4973
4268	4432	BT 40 - WE 14 / H 160	40	14	160	44	-	•	4973
-	4433	BT 40 - WE 14 / H 200	40	14	200	44	-	•	4974
3756	4914	BT 40 - WE 16 / H 63	40	16	63	48	-	•	4974
5062	5872	BT 40 - WE 16 / H 100	40	16	100	48	-	•	4974
8009	8026	BT 40 - WE 16 / H 130	40	16	130	48	-	•	4974
5063	5873	BT 40 - WE 16 / H 160	40	16	160	48	-	•	4974
4270	4434	BT 40 - WE 16 / H 200	40	16	200	48	-	•	4974

follows >>

WELDON END MILL HOLDERS





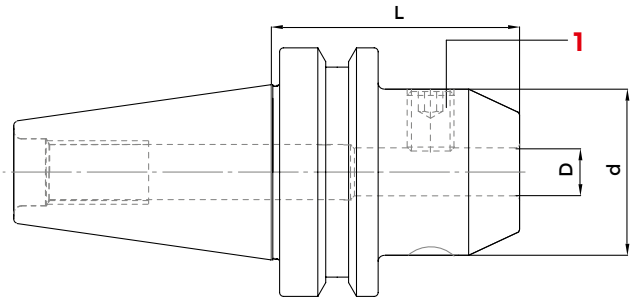
JIS-B 6339 MAS 403/BT SHAPE AD/B - DIN 1835 B

COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	D	L	d	G6,3 12000	G6,3 15000	1 SCREW
4558	4915	BT 40 - WE 18 / H 63	40	18	63	50	-	•	4974
5064	5874	BT 40 - WE 18 / H 100	40	18	100	50	-	•	4974
4272	-	BT 40 - WE 18 / H 200	40	18	200	50	-	•	4974
3757	4916	BT 40 - WE 20 / H 63	40	20	63	52	-	•	4975
5066	5875	BT 40 - WE 20 / H 100	40	20	100	52	-	•	4975
5067	4437	BT 40 - WE 20 / H 130	40	20	130	52	-	•	4975
5068	5876	BT 40 - WE 20 / H 160	40	20	160	52	-	•	4975
4274	4446	BT 40 - WE 20 / H 200	40	20	200	52	-	•	4975
3758	4917	BT 40 - WE 25 / H 90	40	25	90	65	-	•	4976
5069	4939	BT 40 - WE 25 / H 130	40	25	130	65	-	•	4976
5070	4448	BT 40 - WE 25 / H 160	40	25	160	65	-	•	4976
4358	4479	BT 40 - WE 25 / H 200	40	25	200	65	-	•	4976
3759	4918	BT 40 - WE 32 / H 100	40	32	100	72	-	•	4977
5071	4480	BT 40 - WE 32 / H 130	40	32	130	72	-	•	4977
5072	4481	BT 40 - WE 32 / H 160	40	32	160	72	-	•	4977
4359	4482	BT 40 - WE 32 / H 200	40	32	200	72	-	•	4977
4559	4919	BT 40 - WE 40 / H 105	40	40	105	80	-	•	4977
3295	4920	BT 50 - WE 6 / H 63	50	6	63	25	•	-	4970
5073	5877	BT 50 - WE 6 / H 100	50	6	100	25	•	-	4970
8011	8028	BT 50 - WE 6 / H 130	50	6	130	25	•	-	4970
5568	5878	BT 50 - WE 6 / H 160	50	6	160	25	•	-	4970
4360	4485	BT 50 - WE 6 / H 200	50	6	200	25	•	-	4970
3769	4921	BT 50 - WE 8 / H 63	50	8	63	28	•	-	4971
5074	5879	BT 50 - WE 8 / H 100	50	8	100	28	•	-	4971
8012	8029	BT 50 - WE 8 / H 130	50	8	130	28	•	-	4971
5569	5880	BT 50 - WE 8 / H 160	50	8	160	28	•	-	4971
4361	4497	BT 50 - WE 8 / H 200	50	8	200	28	•	-	4971
3770	4922	BT 50 - WE 10 / H 70	50	10	70	35	•	-	4972
5075	5907	BT 50 - WE 10 / H 100	50	10	100	35	•	-	4972
8013	8030	BT 50 - WE 10 / H 130	50	10	130	35	•	-	4972
5572	5908	BT 50 - WE 10 / H 160	50	10	160	35	•	-	4972
4366	4498	BT 50 - WE 10 / H 200	50	10	200	35	•	-	4972
3771	4923	BT 50 - WE 12 / H 80	50	12	80	42	•	-	4973
5574	5912	BT 50 - WE 12 / H 100	50	12	100	42	•	-	4973
8014	8031	BT 50 - WE 12 / H 130	50	12	130	42	•	-	4973
5076	5909	BT 50 - WE 12 / H 160	50	12	160	42	•	-	4973

follows >>

WELDON END MILL HOLDERS



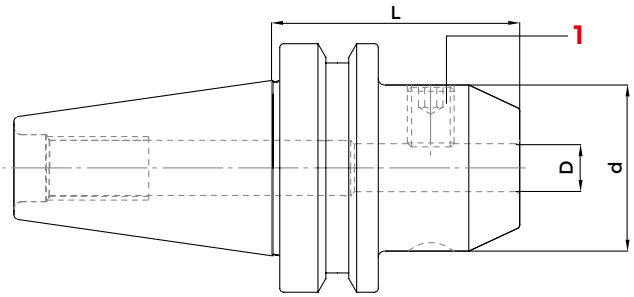


JIS-B 6339 MAS 403/BT SHAPE AD/B - DIN 1835 B

COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	D	L	d	G6,3 12000	G6,3 15000	1 SCREW
4370	4499	BT 50 - WE 12 / H 200	50	12	200	42	•	-	4973
4560	4924	BT 50 - WE 14 / H 80	50	14	80	44	•	-	4973
4371	4500	BT 50 - WE 14 / H 100	50	14	100	44	•	-	4973
8015	8032	BT 50 - WE 14 / H 130	50	14	130	44	•	-	4973
4375	-	BT 50 - WE 14 / H 160	50	14	160	44	•	-	4973
4376	-	BT 50 - WE 14 / H 200	50	14	200	44	•	-	4973
3772	4925	BT 50 - WE 16 / H 80	50	16	80	48	•	-	4974
5575	5913	BT 50 - WE 16 / H 100	50	16	100	48	•	-	4974
8016	8033	BT 50 - WE 16 / H 130	50	16	130	48	•	-	4974
5078	5910	BT 50 - WE 16 / H 160	50	16	160	48	•	-	4974
4380	4523	BT 50 - WE 16 / H 200	50	16	200	48	•	-	4974
4561	4926	BT 50 - WE 18 / H 80	50	18	80	50	•	-	4974
4381	4524	BT 50 - WE 18 / H 100	50	18	100	50	•	-	4974
8017	-	BT 50 - WE 18 / H 130	50	18	130	50	•	-	4974
4382	4525	BT 50 - WE 18 / H 160	50	18	160	50	•	-	4974
3773	4927	BT 50 - WE 20 / H 80	50	20	80	52	•	-	4975
5576	5914	BT 50 - WE 20 / H 100	50	20	100	52	•	-	4975
8018	8035	BT 50 - WE 20 / H 130	50	20	130	52	•	-	4975
5080	5911	BT 50 - WE 20 / H 160	50	20	160	52	•	-	4975
4386	4527	BT 50 - WE 20 / H 200	50	20	200	52	•	-	4975
3774	4928	BT 50 - WE 25 / H 100	50	25	100	65	•	-	4976
8019	8036	BT 50 - WE 25 / H 130	50	25	130	65	•	-	4976
5082	5915	BT 50 - WE 25 / H 160	50	25	160	65	•	-	4976
4388	4528	BT 50 - WE 25 / H 200	50	25	200	65	•	-	4976
3775	4929	BT 50 - WE 32 / H 105	50	32	105	72	•	-	4977
8020	8037	BT 50 - WE 32 / H 130	50	32	130	72	•	-	4977
5083	5916	BT 50 - WE 32 / H 160	50	32	160	72	•	-	4977
4389	4529	BT 50 - WE 32 / H 200	50	32	200	72	•	-	4977
3776	4930	BT 50 - WE 40 / H 120	50	40	120	80	•	-	4977
5085	5917	BT 50 - WE 40 / H 160	50	40	160	80	•	-	4977
4390	4530	BT 50 - WE 40 / H 200	50	40	200	80	•	-	4977
3777	4552	BT 50 - WE 50 / H 125	50	50	125	100	•	-	4978

WELDON END MILL HOLDERS - HIGH SPEED LINE



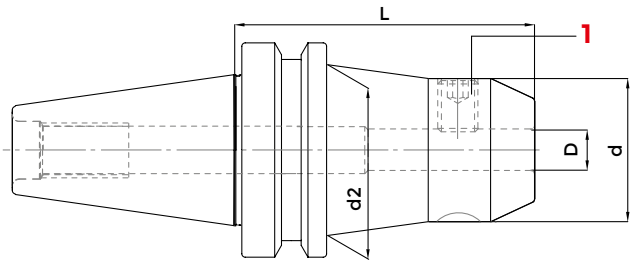


JIS-B 6339 MAS 403/BT A - DIN 1835 B — HIGH SPEED LINE

COD.	DESCRIPTION	ISO	D	L	d	G2.5 25000	1 SCREW
WE91401	BT40H50WE06	40	6	50	25	•	4970
WE91402	BT40H50WE08	40	8	50	28	•	4971
WE91403	BT40H63WE10	40	10	63	35	•	4972
WE91404	BT40H63WE12	40	12	63	42	•	4973
WE91406	BT40H63WE16	40	16	63	48	•	4974
WE91408	BT40H63WE20	40	20	63	52	•	4975
WE91409	BT40H90WE25	40	25	90	65	•	4976
WE91410	BT40H100WE32	40	32	100	72	•	4977

WELDON END MILL HOLDERS - LONG SERIES - HIGH SPEED LINE



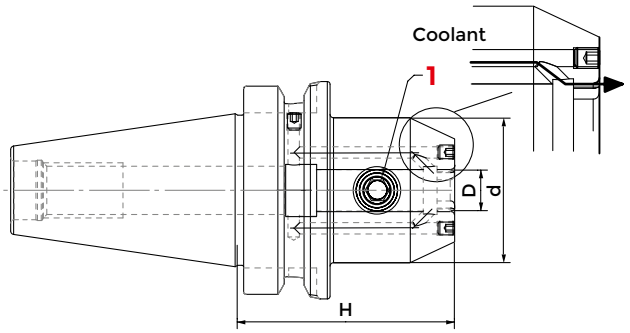


JIS-B 6339 MAS 403/BT A - DIN 1835 B — HIGH SPEED LINE

COD.	DESCRIPTION	ISO	D	L	d	d2	G2.5 25000	1 SCREW
WE91424	BT40H100WE06	40	6	100	25	35	•	4970
WE91425	BT40H100WE08	40	8	100	28	38	•	4971
WE91426	BT40H100WE10	40	10	100	35	40	•	4972
WE91427	BT40H100WE12	40	12	100	42	-	•	4973
WE91429	BT40H100WE16	40	16	100	48	-	•	4974
WE91431	BT40H100WE20	40	20	100	52	-	•	4975

WELDON END MILL HOLDERS - SHORT SERIES WITH COOLANT CHANNELS



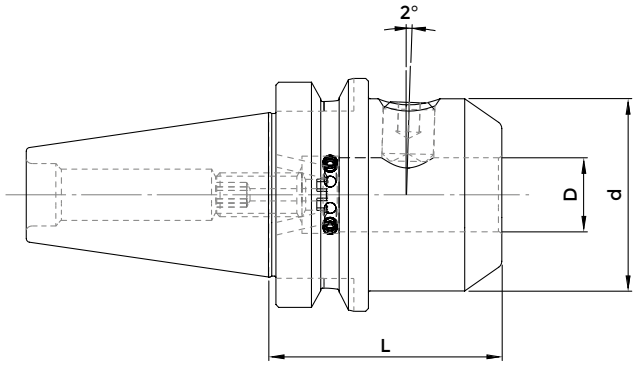


JIS-B 6339 MAS 403/BT SHAPE AD/B - DIN 1835 B

COD.	DESCRIPTION	ISO	D	H	d	G6,3 12000	G6,3 15000	1 SCREW
7872	BT 40 - WEC 6 / H 50	40	6	50	25	-	•	4970
7873	BT 40 - WEC 8 / H 50	40	8	50	28	-	•	4971
7874	BT 40 - WEC 10 / H 63	40	10	63	35	-	•	4972
7875	BT 40 - WEC 12 / H 63	40	12	63	42	-	•	4973
7876	BT 40 - WEC 14 / H 63	40	14	63	44	-	•	4973
7877	BT 40 - WEC 16 / H 63	40	16	63	48	-	•	4974
7878	BT 40 - WEC 18 / H 63	40	18	63	50	-	•	4974
7879	BT 40 - WEC 20 / H 63	40	20	63	52	-	•	4975
7880	BT 40 - WEC 25 / H 90	40	25	90	65	-	•	4976
7881	BT 40 - WEC 32 / H 100	40	32	100	72	-	•	4977
7882	BT 40 - WEC 40 / H 105	40	40	105	80	-	•	4977
7886	BT 50 - WEC 12 / H 80	50	12	80	42	•	-	4973
7888	BT 50 - WEC 16 / H 80	50	16	80	48	•	-	4974
7890	BT 50 - WEC 20 / H 80	50	20	80	52	•	-	4975
7891	BT 50 - WEC 25 / H 100	50	25	100	65	•	-	4976
7892	BT 50 - WEC 32 / H 105	50	32	105	72	•	-	4977
7893	BT 50 - WEC 40 / H 120	50	40	120	80	•	-	4977

WHISTLE NOTCH END MILL HOLDERS



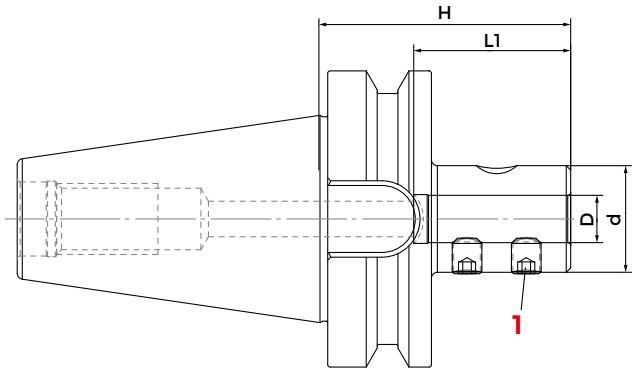


JIS-B 6339 MAS 403/BT SHAPE AD - DIN 1835 B

COD.	DESCRIPTION	ISO	D	L	d	G6.3 12000	1 SCREW
4666	BT 40 - WN 6 / H 50	40	6	50	25	•	4970
4667	BT 40 - WN 8 / H 50	40	8	50	28	•	4971
4668	BT 40 - WN 10 / H 63	40	10	63	35	•	4972
4669	BT 40 - WN 12 / H 63	40	12	63	42	•	4973
4670	BT 40 - WN 14 / H 63	40	14	63	44	•	4973
4671	BT 40 - WN 16 / H 63	40	16	63	48	•	4974
4672	BT 40 - WN 18 / H 63	40	18	63	50	•	4974
4673	BT 40 - WN 20 / H 63	40	20	63	52	•	4975
4674	BT 40 - WN 25 / H 90	40	25	90	65	•	4976
4675	BT 40 - WN 32 / H 100	40	32	100	72	•	4977
4692	BT 40 - WN 40 / H 105	40	40	105	80	•	4977

INDEXABLE DRILL HOLDERS



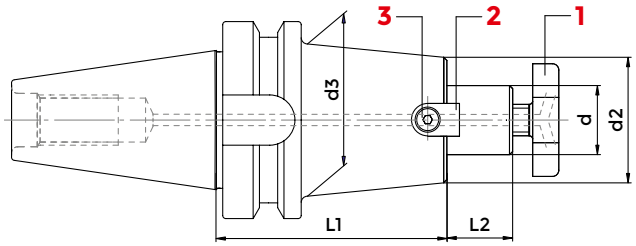


JIS-B 6339 MAS-403/BT SHAPE AD

COD.	DESCRIPTION	ISO	D	d	H	L1	G6.3 12000	1 SCREW
8574	BT 40 - D. 16 P	40	16	36	75	54	•	0403
8575	BT 40 - D. 20 P	40	20	40	75	54	•	0403
8576	BT 40 - D. 25 P	40	25	45	80	59	•	0417
8577	BT 40 - D. 32 P	40	32	52	85	63	•	0417
8721	BT 50 - D. 16 P	50	16	36	80	54	•	0403
8722	BT 50 - D. 20 P	50	20	40	80	54	•	0403
8723	BT 50 - D. 25 P	50	25	45	90	59	•	0417
8724	BT 50 - D. 32 P	50	32	52	90	63	•	0417
8725	BT 50 - D. 40 P	50	40	60	100	73	•	0493

FACE MILL HOLDERS - TENONS DRIVE





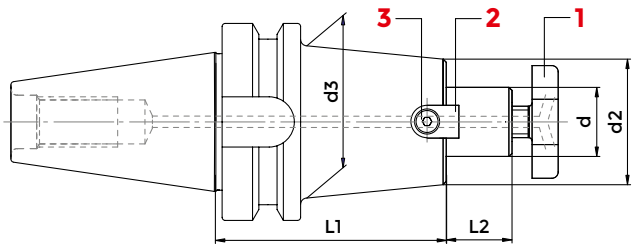
JIS-B 6339 MAS 403/BT SHAPE AD/B - ISO 3937

COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	d	L1	L2	d2	d3	G6,3 8000	1 CROSS SCREW	2 TENON	3 SCREW	WRENCH
4152	-	BT 30 - D. 16 FISSO / H 35	30	16	35	17	38	-	•	4985	7421	0255	4562
4154	-	BT 30 - D. 22 FISSO / H 40	30	22	40	19	48	-	•	4986	7427	0256	4563
4156	-	BT 30 - D. 27 FISSO / H 40	30	27	40	21	58	-	•	4987	7428	7414	4564
4161	5881	BT 40 - D. 16 FISSO / H 45	40	16	45	17	38	-	•	4985	7421	0255	4562
5578	5882	BT 40 - D. 16 FISSO / H 100	40	16	100	17	38	-	•	4985	7421	0255	4562
9420	9430	BT 40 - D. 16 FISSO / H 130	40	16	130	17	38	-	•	4985	7421	0255	4562
8415	8438	BT 40 - D. 16 FISSO / H 160	40	16	160	17	38	-	•	4985	7421	0255	4562
4644	5883	BT 40 - D. 22 FISSO / H 45	40	22	45	19	48	-	•	4986	7427	0256	4563
5588	5884	BT 40 - D. 22 FISSO / H 100	40	22	100	19	46	48	•	4986	7427	0256	4563
9491	-	BT 40 - D. 22 FISSO / H 100 FIS.63	40	22	100	19	50	59	•	4986	7427	0256	4563
9421	9431	BT 40 - D. 22 FISSO / H 130	40	22	130	19	46	48	•	4986	7427	0256	4563
5589	8440	BT 40 - D. 22 FISSO / H 160	40	22	160	19	46	48	•	4986	7427	0256	4563
4645	5885	BT 40 - D. 27 FISSO / H 45	40	27	45	21	58	-	•	4987	7428	7414	4564
5590	5886	BT 40 - D. 27 FISSO / H 100	40	27	100	21	48	-	•	4987	7436	0205	4564
9422	9432	BT 40 - D. 27 FISSO / H 130	40	27	130	21	55	-	•	4987	7428	7414	4564
5591	8442	BT 40 - D. 27 FISSO / H 160	40	27	160	21	55	-	•	4987	7428	7414	4564
4646	5887	BT 40 - D. 32 FISSO / H 50	40	32	50	24	78	-	•	4988	7429	0099	4565
5592	5888	BT 40 - D. 32 FISSO / H 100	40	32	100	24	58	-	•	4988	7437	0482	4565
8419	8444	BT 40 - D. 32 FISSO / H 160	40	32	160	24	66	-	•	4988	7439	0207	4565
4647	5889	BT 40 - D. 40 FISSO / H 55	40	40	55	27	88	-	•	4989	7430	0099	4566
8420	8445	BT 40 - D. 40 FISSO / H 100	40	40	100	27	70	-	•	4989	7438	0207	4566
-	9025	BT 40 - D. 40 FISSO / H 130	40	40	130	27	88	60	•	4989	7430	0099	4566
8421	8446	BT 40 - D. 40 FISSO / H 160	40	40	160	27	88	-	•	4989	7430	0099	4566
4648	5890	BT 50 - D. 16 FISSO / H 60	50	16	60	17	38	-	•	4985	7421	0255	4562
5593	5891	BT 50 - D. 16 FISSO / H 100	50	16	100	17	38	-	•	4985	7421	0255	4562
9425	9435	BT 50 - D. 16 FISSO / H 130	50	16	130	17	38	-	•	4985	7421	0255	4562
8422	8447	BT 50 - D. 16 FISSO / H 160	50	16	160	17	38	-	•	4985	7421	0255	4562
8423	8448	BT 50 - D. 16 FISSO / H 200	50	16	200	17	38	-	•	4985	7421	0255	4562
4172	5892	BT 50 - D. 22 FISSO / H 60	50	22	60	19	48	-	•	4986	7427	0256	4563
5659	5893	BT 50 - D. 22 FISSO / H 100	50	22	100	19	46	49	•	4986	7427	0256	4563
9492	-	BT 50 - D. 22 FISSO / H 100 FIS.63	50	22	100	19	50	60	•	4986	7427	0256	4563

follows >>

FACE MILL HOLDERS - TENONS DRIVE





JIS-B 6339 MAS 403/BT SHAPE AD/B - ISO 3937

COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	d	L1	L2	d2	d3	G6,3 8000	1 CROSS SCREW	2 TENON	3 SCREW	WRENCH
9426	9436	BT 50 - D. 22 FISSO / H 130	50	22	130	19	46	56	•	4986	7427	0256	4563
5660	8449	BT 50 - D. 22 FISSO / H 160	50	22	160	19	46	49	•	4986	7427	0256	4563
9493	-	BT 50 - D. 22 FISSO / H 160 FIS.63	50	22	160	19	50	60	•	4986	7427	0256	4563
9024	-	BT 50 - D. 22 FISSO / H 200 FIS.63	50	22	200	19	50	60	•	4986	7427	0256	4563
4649	5894	BT 50 - D. 27 FISSO / H 60	50	27	60	21	58	-	•	4987	7428	7414	4564
5666	5895	BT 50 - D. 27 FISSO / H 100	50	27	100	21	55	78	•	4987	7428	7414	4564
9427	9437	BT 50 - D. 27 FISSO / H 130	50	27	130	21	55	78	•	4987	7428	7414	4564
5667	8453	BT 50 - D. 27 FISSO / H 160	50	27	160	21	55	78	•	4987	7428	7414	4564
4650	5896	BT 50 - D. 32 FISSO / H 60	50	32	60	24	78	-	•	4988	7429	0099	4565
5669	5897	BT 50 - D. 32 FISSO / H 100	50	32	100	24	66	78	•	4988	7439	0099	4565
9428	9438	BT 50 - D. 32 FISSO / H 130	50	32	130	24	66	78	•	4988	7439	0099	4565
8430	8457	BT 50 - D. 32 FISSO / H 160	50	32	160	24	66	78	•	4988	7439	0099	4565
4651	5898	BT 50 - D. 40 FISSO / H 60	50	40	60	27	88	-	•	4989	7430	0099	4566
5676	5899	BT 50 - D. 40 FISSO / H 100	50	40	100	27	70	78	•	4989	7438	0207	4566
-	9026	BT 50 - D. 40 FISSO / H 130	50	40	130	27	70	-	•	4989	7438	0207	4566
8434	8461	BT 50 - D. 40 FISSO / H 160	50	40	160	27	70	78	•	4989	7438	0207	4566

ACCESSORIES

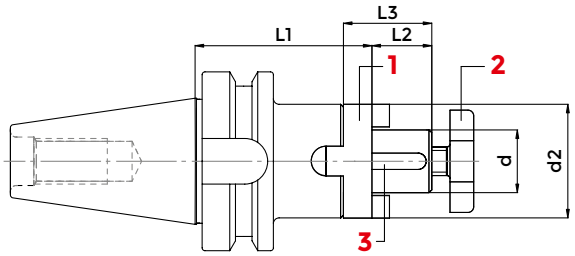

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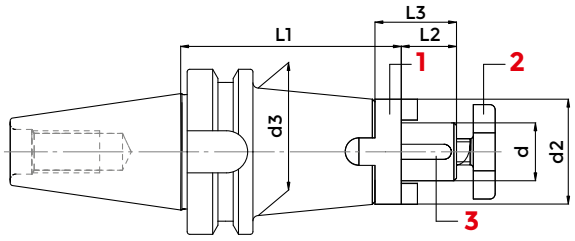

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COMBI-SHELL MILL HOLDERS







JIS-B 6339 MAS 403/BT SHAPE A - DIN 6358

										1	2	3	
COD.	DESCRIPTION	ISO	d	L1	L2	L3	d2	d3	G6,3 8000	COUPLING RING	CROSS SCREW	KEY	WRENCH
													
3797	BT 30 - D.16 C / H 50	30	16	50	17	27	32	-	•	4090	4985	0115	4562
0953	BT 30 - D.16 C / H 100	30	16	100	17	27	32	-	•	4090	4985	0115	4562
3798	BT 30 - D.22 C / H 50	30	22	50	19	31	40	-	•	4091	4986	0116	4563
0967	BT 30 - D.22 C / H 100	30	22	100	19	31	40	-	•	4091	4986	0016	4563
3943	BT 30 - D.27 C / H 55	30	27	55	21	33	48	-	•	4092	4987	0122	4564
3802	BT 40 - D.16 C / H 55	40	16	55	17	27	32	-	•	4090	4985	0115	4562
4113	BT 40 - D.16 C / H 100	40	16	100	17	27	32	44	•	4090	4985	0115	4562
8483	BT 40 - D.16 C / H 160	40	16	160	17	27	32	44	•	4090	4985	0115	4562
3803	BT 40 - D.22 C / H 55	40	22	55	19	31	40	-	•	4091	4986	0116	4563
4114	BT 40 - D.22 C / H 100	40	22	100	19	31	40	-	•	4091	4986	0116	4563
8484	BT 40 - D.22 C / H 160	40	22	160	19	31	40	47	•	4091	4986	0116	4563
3804	BT 40 - D.27 C / H 55	40	27	55	21	33	48	-	•	4092	4987	0122	4564
4115	BT 40 - D.27 C / H 100	40	27	100	21	33	48	-	•	4092	4987	0122	4564
8485	BT 40 - D.27 C / H 160	40	27	160	21	33	48	55	•	4092	4987	0122	4564
3805	BT 40 - D.32 C / H 60	40	32	60	24	38	58	-	•	4093	4988	0125	4565
4116	BT 40 - D.32 C / H 100	40	32	100	24	38	58	-	•	4093	4988	0125	4565
8486	BT 40 - D.32 C / H 160	40	32	160	24	38	58	-	•	4093	4988	0125	4565
3806	BT 40 - D.40 C / H 60	40	40	60	27	41	70	-	•	4094	4989	0133	4566
3810	BT 40 - D.40 C / H 100	40	40	100	27	41	70	-	•	4094	4989	0133	4566
3812	BT 50 - D.16 C / H 70	50	16	70	17	27	32	-	•	4090	4985	0115	4562
4117	BT 50 - D.16 C / H 100	50	16	100	17	27	32	44	•	4090	4985	0115	4562
3813	BT 50 - D.22 C / H 70	50	22	70	19	31	40	-	•	4091	4986	0116	4563
4118	BT 50 - D.22 C / H 100	50	22	100	19	31	40	50	•	4091	4986	0116	4563
3814	BT 50 - D.27 C / H 70	50	27	70	21	33	48	-	•	4092	4987	0122	4564
4119	BT 50 - D.27 C / H 100	50	27	100	21	33	48	60	•	4092	4987	0122	4564
3815	BT 50 - D.32 C / H 70	50	32	70	24	38	58	-	•	4093	4988	0125	4565
4120	BT 50 - D.32 C / H 100	50	32	100	24	38	58	-	•	4093	4988	0125	4565
3816	BT 50 - D.40 C / H 70	50	40	70	27	41	70	-	•	4094	4989	0133	4566
4121	BT 50 - D.40 C / H 100	50	40	100	27	41	70	-	•	4094	4989	0133	4566

ACCESSORIES

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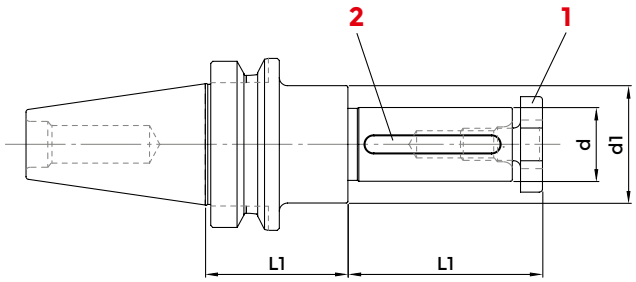


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MILL HOLDERS WITH FEATHER KEY





JIS-B 6339 MAS 403/BT SHAPE A - DIN 6358

COD.	DESCRIPTION	ISO	d	L1	L2	d1	G6.3 8000	1 CROSS SCREW	2 KEY	WRENCH
8503	BT 40 - D. 16 CHT	40	16	52	30	28	•	4985	0147	4562
8504	BT 40 - D. 22 CHT	40	22	52	40	36	•	4986	0148	4563
8505	BT 40 - D. 27 CHT	40	27	52	60	43	•	4987	0149	4564
8506	BT 40 - D. 32 CHT	40	32	52	60	48	•	4988	0150	4565
8507	BT 40 - D. 40 CHT	40	40	52	60	56	•	4989	0151	4566

ACCESSORIES

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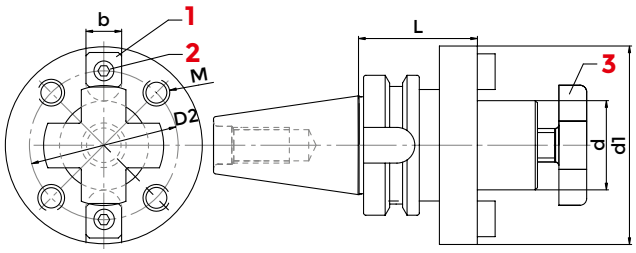


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FACE MILL HOLDER FOR FACE MILLING CUTTERS





JIS-B 6339 MAS 403/BT A - DIN 6357

COD.	DESCRIPTION	ISO	d	L	d1	D2	M	b	G6,3 8000	1 SCREW	2 TENON	3 KEY
4186	BT 40 - D. 40 FM	40	40	60	89	66,7	M 12	15,9	•	0207	0210	4989
4187	BT 50 - D. 40 FM	50	40	70	89	66,7	M 12	15,9	•	0207	0210	4989
4188	BT 50 - D. 60 FM	50	60	80	129	101,6	M16	25,4	•	0407	0211	-

ACCESSORIES

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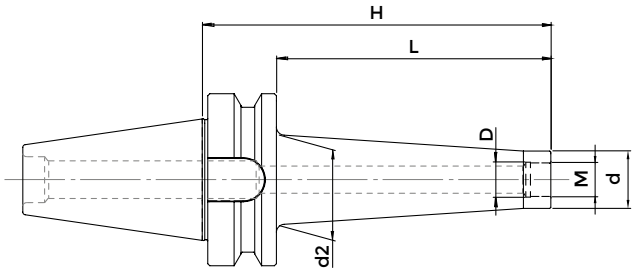


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END MILL HOLDERS FOR MILLING CUTTERS WITH THREADED SHANKS



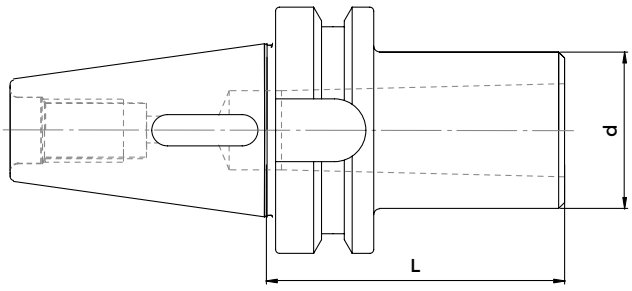


JIS-B 6339 MAS 403/BT SHAPE A/D - DIN 6358

COD.	DESCRIPTION	ISO	M	D	d	d2	H	L	G6.3 12000
7827	BT 40 - M 8 / H 55	40	M 8	8,5	13	15	55	28	•
7828	BT 40 - M 8 / H 77	40	M 8	8,5	13	23	77	50	•
7829	BT 40 - M 8 / H 102	40	M 8	8,5	13	23	102	75	•
7830	BT 40 - M 8 / H 127	40	M 8	8,5	13	25	127	100	•
7831	BT 40 - M 10 / H 55	40	M 10	10,5	18	20	55	28	•
7832	BT 40 - M 10 / H 77	40	M 10	10,5	18	23	77	50	•
7833	BT 40 - M 10 / H 102	40	M 10	10,5	18	28	102	75	•
7834	BT 40 - M 10 / H 127	40	M 10	10,5	18	32	127	100	•
7835	BT 40 - M 12 / H 55	40	M 12	12,5	21	24	55	28	•
7836	BT 40 - M 12 / H 77	40	M 12	12,5	21	24	77	50	•
7837	BT 40 - M 12 / H 102	40	M 12	12,5	21	31	102	75	•
7838	BT 40 - M 12 / H 127	40	M 12	12,5	21	33	127	100	•
7839	BT 40 - M 16 / H 55	40	M 16	17,0	29	32	55	28	•
7840	BT 40 - M 16 / H 77	40	M 16	17,0	29	34	77	50	•
7841	BT 40 - M 16 / H 102	40	M 16	17,0	29	34	102	75	•
7842	BT 40 - M 16 / H 127	40	M 16	17,0	29	36	127	100	•
7843	BT 40 - M 16 / H 152	40	M 16	17,0	29	40	152	125	•
7844	BT 50 - M 12 / H 88	50	M 12	12,5	21	24	88	50	•
7845	BT 50 - M 12 / H 138	50	M 12	12,5	21	33	138	100	•
7846	BT 50 - M 12 / H 188	50	M 12	12,5	21	40	188	150	•
8719	BT 50 - M 12 / H 254	50	M 12	12,5	21	42	254	216	•
7847	BT 50 - M 16 / H 88	50	M 16	17,0	29	34	88	50	•
7848	BT 50 - M 16 / H 138	50	M 16	17,0	29	36	138	100	•
7849	BT 50 - M 16 / H 188	50	M 16	17,0	29	42,5	188	150	•
8720	BT 50 - M 16 / H 254	50	M 16	17,0	29	44	254	216	•

INDEXABLE MORSE TAPER DRILL HOLDERS



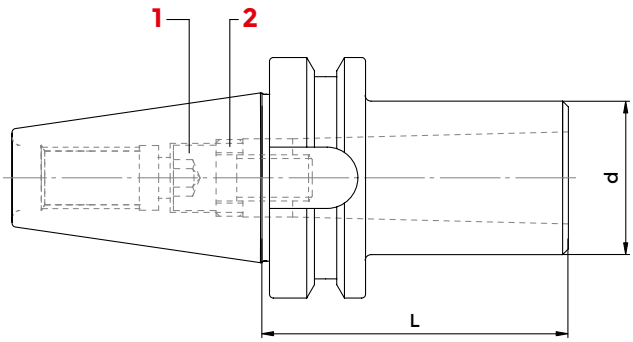


JIS-B 6339 MAS 403/BT SHAPE A/D - DIN 228-2

COD.	DESCRIPTION	ISO	MORSE	d	L	G6.3 8000
8346	BT 30 - CM 1 PUNTE	30	1	25	50	•
3796	BT 30 - CM 2 PUNTE	30	2	32	60	•
3883	BT 30 - CM 3 PUNTE	30	3	40	80	•
8347	BT 40 - CM 1 PUNTE	40	1	25	50	•
8349	BT 40 - CM 2 PUNTE	40	2	32	60	•
3783	BT 40 - CM 3 PUNTE	40	3	40	75	•
3784	BT 40 - CM 4 PUNTE	40	4	48	95	•
8352	BT 50 - CM 1 PUNTE	50	1	25	45	•
8354	BT 50 - CM 2 PUNTE	50	2	32	60	•
8356	BT 50 - CM 3 PUNTE	50	3	40	65	•
3793	BT 50 - CM 4 PUNTE	50	4	48	95	•
3794	BT 50 - CM 5 PUNTE	50	5	63	105	•

END MILL HOLDERS FOR MORSE TAPER CUTTERS

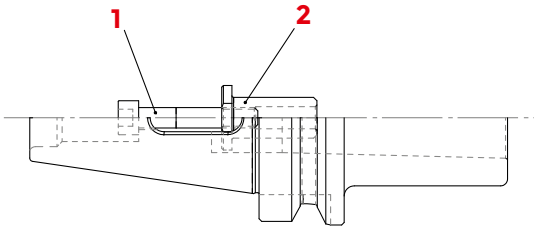


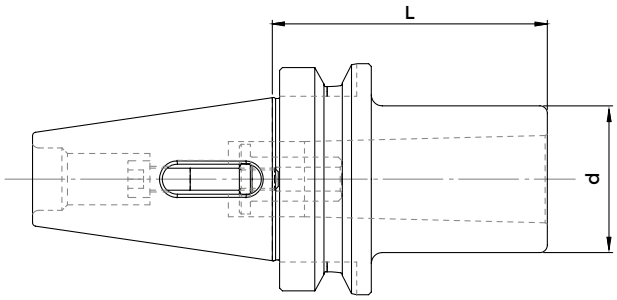


JIS-B 6339 MAS 403/BT SHAPE A - DIN 228-2

							1	2	
COD.	DESCRIPTION	ISO	MORSE	d	L	G6.3 8000	SCREW	LEFT NUT	WRENCH
									
3884	BT 30 - CM 3 FRESE	30	3	40	80	•	7402	7423	4570
3886	BT 40 - CM 2 FRESE	40	2	32	50	•	7448	7422	4569
3887	BT 40 - CM 3 FRESE	40	3	40	75	•	7403	7423	4570
3888	BT 40 - CM 4 FRESE	40	4	48	95	•	7404	7424	4571
3801	BT 50 - CM 2 FRESE	50	2	32	50	•	7448	7422	4569
2933	BT 50 - CM 3 FRESE	50	3	40	65	•	7403	7423	4570
3890	BT 50 - CM 4 FRESE	50	4	48	95	•	7407	7424	4571
3891	BT 50 - CM 5 FRESE	50	5	63	120	•	7408	7425	4572

COMBI MORSE TAPER HOLDERS FOR DRILLS AND MILLING CUTTERS

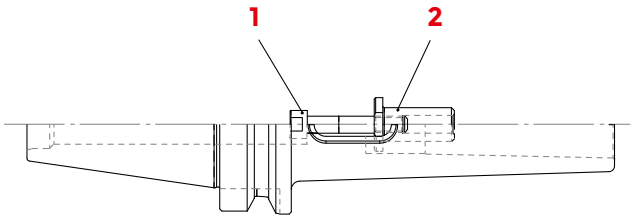


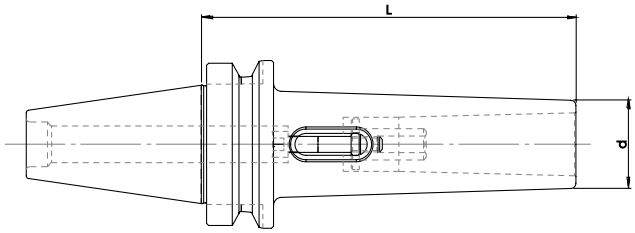


JIS-B 6339 MAS 403/BT SHAPE A - DIN 228-2

COD.	DESCRIPTION	ISO	MORSE	d	L	G6.3 8000	1 SCREW	2 REDUCER
								
3781	BT 40 - CM 1 P+ F	40	1	25	50	•	7400	-
3782	BT 40 - CM 2 P+ F	40	2	32	60	•	7401	-
8360	BT 40 - CM 3 P+ F	40	3	40	75	•	7400	0130
3790	BT 50 - CM 1 P+ F	50	1	25	45	•	7400	-
3791	BT 50 - CM 2 P+ F	50	2	32	60	•	7405	-
3792	BT 50 - CM 3 P+ F	50	3	40	65	•	7406	-
8361	BT 50 - CM 4 P+ F	50	4	48	95	•	7409	-

COMBI MORSE TAPER HOLDERS FOR DRILLS AND MILLING CUTTERS



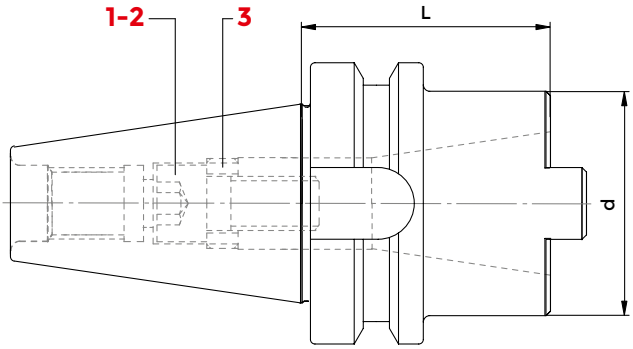


JIS-B 6339 MAS 403/BT SHAPE A - DIN 228-2

COD. DRILLS	COD.DRILLS + MILLING CUTTERS	DESCRIPTION	ISO	MORSE	d	L	G6,3 8000	1 SCREW	2 REDUCER
									
8348	4258	BT 40 - CM 1	40	1	18	115	•	7400	-
8350	4259	BT 40 - CM 2	40	2	25	120	•	7401	-
8351	4260	BT 40 - CM 3	40	3	33	140	•	7400	0130
4261	-	BT 40 - CM 4	40	4	40	165	•	-	-
8353	4263	BT 50 - CM 1	50	1	18	120	•	7400	-
8355	4264	BT 50 - CM 2	50	2	25	140	•	7405	-
8357	4265	BT 50 - CM 3	50	3	33	150	•	7406	-
8358	4266	BT 50 - CM 4	50	4	40	180	•	7409	-
8359	-	BT 50 - CM 5	50	5	55	220	•	-	-

ADAPTER FROM BT TO NT/SK/BT



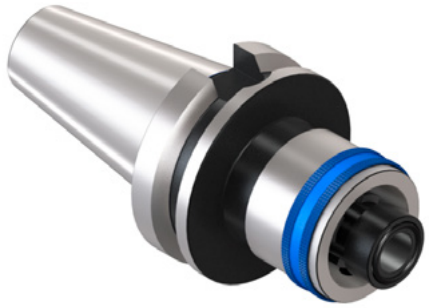


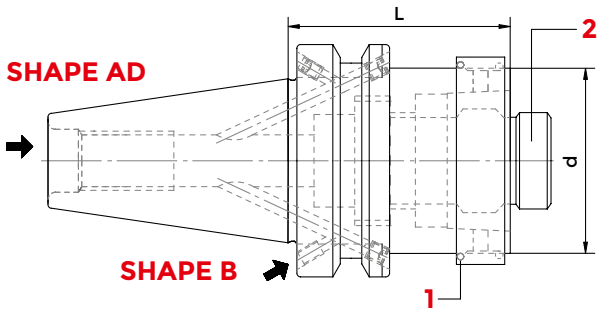
JIS-B 6339 MAS 403/BT SHAPE A - MAS403BT

						1	2	3	
COD.	DESCRIPTION	ISO	d	L	G6,3 8000	SCREW DIN 2080	SCREW BT DIN 69871	NUT	WRENCH
									
4180	BT 40 - ISO 30 / TC 30 / BT 30	30	50	70	•	* 7410	* 0177	* 7423	4570
8707	BT 40 - ISO 40 / TC 40 / BT 40	40	68	100	•	* 7411	* 0179	* 7424	4571
4273	BT 50 - ISO 40 / TC 40 / BT 40	40	78	70	•	* 7411	* 0179	* 7424	4571
8708	BT 50 - ISO 50 / TC 50 / BT 50	50	100	120	•	* 7417	* 0254	* 7426	4780

*included in delivery

ADAPTER FROM BT TO DIN69893-1 (HSK A+C)



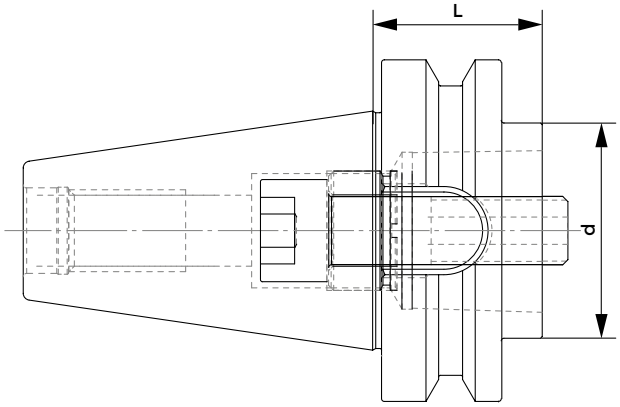


JIS-B 6339 MAS 403/BT SHAPE AD/B

						1	2
COD.	DESCRIPTION	ISO	d	L	G6,3 8000	LOCKING RING	CLAMPING UNIT
6098	BT 40 - HSK 63 A+C	40	63	80	•	H63A-AN	H63A-UBL
6099	BT 50 - HSK 63 A+C	50	63	70	•	H63A-AN	H63A-UBL

ADAPTER FROM BT TO ISO26623-1 (POLYGONAL)



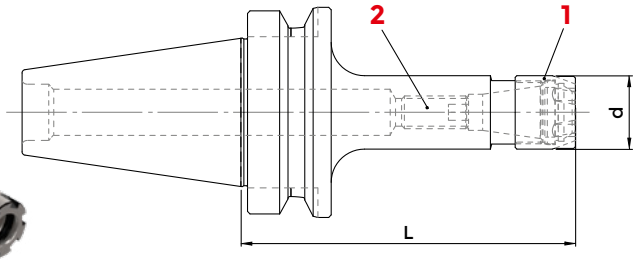


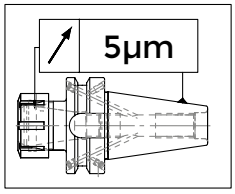
JIS-B 6339 MAS 403/BT SHAPE AD/B - MAS403BT

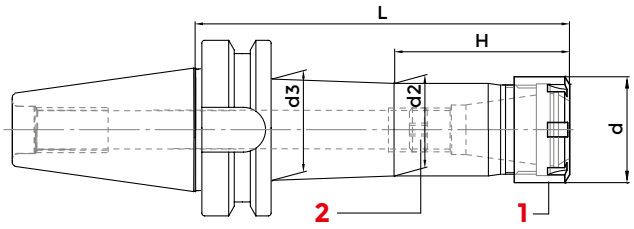
COD.	DESCRIPTION	ISO	d	L	G6,3 8000
11030	BT 40 - C 63 / H 75	40	63	75	•
11032	BT 50 - C 40/ H 70	50	40	70	•
11036	BT 50 - C 63 / H 90	50	63	90	•

ER COLLET CHUCK WITH MINI NUT









H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

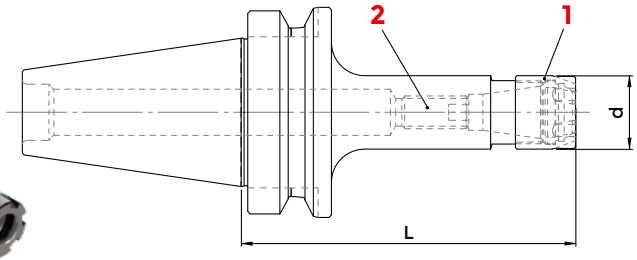
JIS-B 6339 MAS 403/BT AD/B - DIN 6358

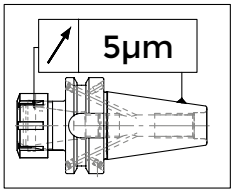
COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	ER	d	d2	d3	L	H	G6,3 12000	G6,3 15000	1 NUT	2 SCREW	WRENCH	COLLET
3329	-	BT 30 - ER 11 GM /H 70 SLIM LINE	30	ER 11 1÷8	16	16	19	70	20	-	•	5691	0181	5718	5573
9655	-	BT 30 - ER 11 GM /H 100 SLIM LINE	30	ER 11 1÷8	16	14	20	100	20	-	•	5691	0181	5718	5573
3039	-	BT 30 - ER 16 GM /H 80 SLIM LINE	30	ER 16 1÷12	22	22	-	80	-	-	•	5694	0183	5719	0364
3454	-	BT 30 - ER 16 GM /H 120 SLIM LINE	30	ER 16 1÷12	22	22	-	120	-	-	•	5694	0183	5719	0364
3271	4855	BT 40 - ER 11 GM /H 70 SLIM LINE	40	ER 11 1÷8	16	14	20	70	20	-	•	5691	0181	5718	5573
3174	4856	BT 40 - ER 11 GM /H 100 SLIM LINE	40	ER 11 1÷8	16	14	20	100	40	-	•	5691	0181	5718	5573
3272	4857	BT 40 - ER 11 GM /H 130 SLIM LINE	40	ER 11 1÷8	16	16	-	130	-	-	•	5691	0181	5718	5573
4687	4858	BT 40 - ER 11 GM /H 160 SLIM LINE	40	ER 11 1÷8	16	14	27	160	50	-	•	5691	0181	5718	5573
3455	4859	BT 40 - ER 16 GM /H 70 SLIM LINE	40	ER 16 1÷12	22	22	25	70	27	-	•	5694	0183	5719	0364
3456	4860	BT 40 - ER 16 GM /H 100 SLIM LINE	40	ER 16 1÷12	22	22	26	100	47	-	•	5694	0183	5719	0364
3457	4861	BT 40 - ER 16 GM /H 130 SLIM LINE	40	ER 16 1÷12	22	22	-	130	-	-	•	5694	0183	5719	0364
4688	4862	BT 40 - ER 16 GM /H 160 SLIM LINE	40	ER 16 1÷12	22	22	26	160	97	-	•	5694	0183	5719	0364
4781	4812	BT 40 - ER 16 GM /H 200 SLIM LINE	40	ER 16 1÷12	22	22	-	200	-	-	•	5694	0183	5719	0364
3041	4501	BT 40 - ER 20 GM /H 70 SLIM LINE	40	ER 20 1÷15	28	27	-	70	-	-	•	5695	4973	5720	0787
3461	4863	BT 40 - ER 20 GM /H 100 SLIM LINE	40	ER 20 1÷15	28	27	30	100	48	-	•	5695	4973	5720	0787
3458	4864	BT 40 - ER 20 GM /H 130 SLIM LINE	40	ER 20 1÷15	28	27	-	130	-	-	•	5695	4973	5720	0787
4689	4865	BT 40 - ER 20 GM /H 160 SLIM LINE	40	ER 20 1÷15	28	27	31	160	98	-	•	5695	4973	5720	0787
4782	4813	BT 40 - ER 20 GM /H 200 SLIM LINE	40	ER 20 1÷15	28	27	-	200	-	-	•	5695	4973	5720	0787
3043	4656	BT 40 - ER 25 GM /H 70 SLIM LINE	40	ER 25 1÷20	35	33	-	70	-	-	•	5696	0190	5721	0996
3175	4866	BT 40 - ER 25 GM /H 100 SLIM LINE	40	ER 25 1÷20	35	33	-	100	-	-	•	5696	0190	5721	0996
4690	4867	BT 40 - ER 25 GM /H 130 SLIM LINE	40	ER 25 1÷20	35	33	-	130	-	-	•	5696	0190	5721	0996
3459	4868	BT 40 - ER 25 GM /H 160 SLIM LINE	40	ER 25 1÷20	35	33	33	160	103	-	•	5696	0190	5721	0996
3460	4814	BT 40 - ER 25 GM /H 200 SLIM LINE	40	ER 25 1÷20	35	33	-	200	-	-	•	5696	0190	5721	0996
9656	-	BT 50 - ER 16 GM /H 100 SLIM LINE	50	ER 16 1÷12	22	22	26	100	47	•	-	5694	0183	5719	0364
3463	4869	BT 50 - ER 16 GM /H 130 SLIM LINE	50	ER 16 1÷12	22	22	-	130	-	•	-	5694	0183	5719	0364

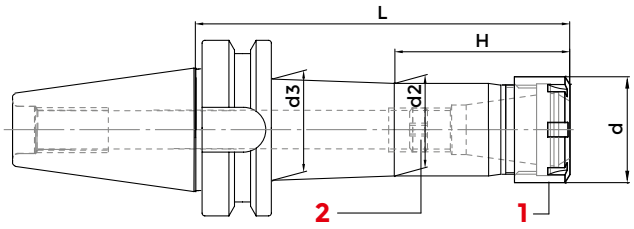
follows >>

ER COLLET CHUCK WITH MINI NUT









H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

JIS-B 6339 MAS 403/BT AD/B - DIN 6358

COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	ER	d	d2	d3	L	H	G6,3 12000	G6,3 15000	1 NUT	2 SCREW	WRENCH	COLLET
3494	4833	BT 50 - ER 16 GM /H 160 SLIM LINE	50	ER 16 1÷12	22	22	28	160	97	•	-	5694	0183	5719	0364
3495	4834	BT 50 - ER 16 GM /H 200 SLIM LINE	50	ER 16 1÷12	22	22	-	200	-	•	-	5694	0183	5719	0364
3464	4870	BT 50 - ER 20 GM /H 130 SLIM LINE	50	ER 20 1÷15	28	27	-	130	-	•	-	5695	4973	5720	0787
3045	4657	BT 50 - ER 20 GM /H 160 SLIM LINE	50	ER 20 1÷15	28	27	-	160	-	•	-	5695	4973	5720	0787
3048	4658	BT 50 - ER 20 GM /H 200 SLIM LINE	50	ER 20 1÷15	28	27	-	200	-	•	-	5695	4973	5720	0787
3051	4659	BT 50 - ER 25 GM /H 130 SLIM LINE	50	ER 25 1÷20	35	34	-	130	-	•	-	5696	0190	5721	0996
3462	4871	BT 50 - ER 25 GM /H 160 SLIM LINE	50	ER 25 1÷20	35	34	40	160	108	•	-	5696	0190	5721	0996
3061	4660	BT 50 - ER 25 GM /H 200 SLIM LINE	50	ER 25 1÷20	35	34	-	200	-	•	-	5696	0190	5721	0996

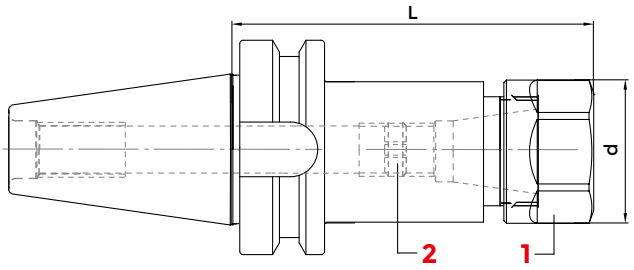
ACCESSORIES
p. 632

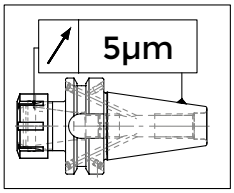
p. 615

p. 635


ER COLLET CHUCK WITH HEXAGONAL NUT







H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

JIS-B 6339 MAS 403/BT A - DIN 6358

COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	ER	d	L	G6,3 15000	1 NUT	2 SCREW	WRENCH	COLLET
8084	-	BT 30 - ER 16 GE / H 55	30	ER 16 1÷12	28	55	•	1214	0183	2906	0364
8085	-	BT 30 - ER 16 GE / H 100	30	ER 16 1÷12	28	100	•	1214	0183	2906	0364
8086	-	BT 30 - ER 20 GE / H 55	30	ER 20 1÷15	34	55	•	1215	0183	2907	0787
8087	-	BT 30 - ER 20 GE / H 100	30	ER 20 1÷15	34	100	•	1215	0183	2907	0787
3447	4843	BT 40 - ER 11 GE / H 70	40	ER 11 1÷ 8	19	70	•	1157	0181	2905	5573
3448	4844	BT 40 - ER 11 GE / H 100	40	ER 11 1÷ 8	19	100	•	1157	0181	2905	5573
3449	4845	BT 40 - ER 11 GE / H 130	40	ER 11 1÷ 8	19	130	•	1157	0181	2905	5573
3450	4846	BT 40 - ER 11 GE / H 160	40	ER 11 1÷ 8	19	160	•	1157	0181	2905	5573
8088	8104	BT 40 - ER 16 GE / H 70	40	ER 16 1÷12	28	70	•	1214	0183	2906	0364
8089	8105	BT 40 - ER 16 GE / H 100	40	ER 16 1÷12	28	100	•	1214	0183	2906	0364
8090	8106	BT 40 - ER 16 GE / H 130	40	ER 16 1÷12	28	130	•	1214	0183	2906	0364
8091	8107	BT 40 - ER 16 GE / H 160	40	ER 16 1÷12	28	160	•	1214	0183	2906	0364
8092	-	BT 40 - ER 16 GE / H 200	40	ER 16 1÷12	28	200	•	1214	0183	2906	0364
8093	8109	BT 40 - ER 20 GE / H 70	40	ER 20 1÷15	34	70	•	1215	0183	2907	0787
8094	8110	BT 40 - ER 20 GE / H 100	40	ER 20 1÷15	34	100	•	1215	0183	2907	0787
8095	8111	BT 40 - ER 20 GE / H 130	40	ER 20 1÷15	34	130	•	1215	0183	2907	0787
8096	8112	BT 40 - ER 20 GE / H 160	40	ER 20 1÷15	34	160	•	1215	0183	2907	0787
8097	-	BT 40 - ER 20 GE / H 200	40	ER 20 1÷15	34	200	•	1215	0183	2907	0787

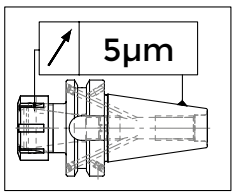
ACCESSORIES

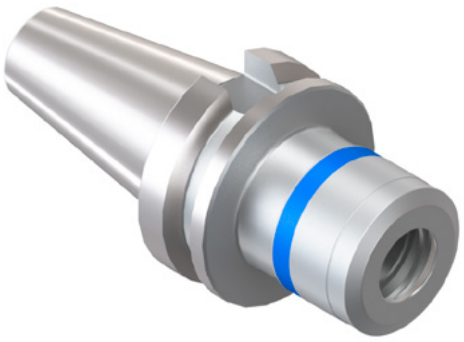

p. 633

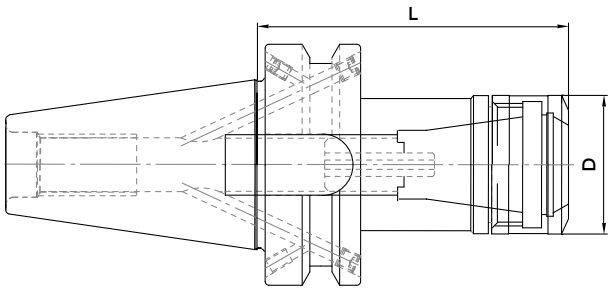

p. 615


p. 636

ER COLLET CHUCKS - HIGH PRECISION





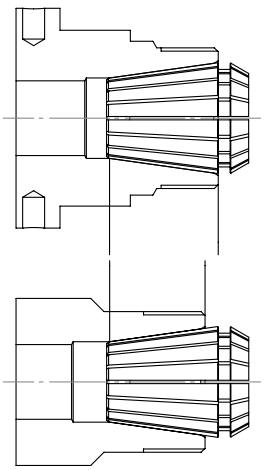


H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

MAS BT AD+B - DIN 6499

COD.	DESCRIPTION	ISO	L	D	ER	G2.5 30000	NUT	WRENCH
PP91473*	BT30H70ER16-HP	30	70	30	16	•	812-203085	816-203069
PP91474*	BT30H70ER25-HP	30	70	40	25	•	812-203086	816-203070
PP91475*	BT30H70ER32-HP	30	70	50	32	•	812-203087	816-203071
PP91462	BT40H70ER16-HP	40	70	30	16	•	812-203085	816-203069
PP91463	BT40H70ER25-HP	40	70	40	25	•	812-203086	816-203070
PP91464	BT40H70ER32-HP	40	70	50	32	•	812-203087	816-203071
PP91467	BT40H100ER16-HP	40	100	30	16	•	812-203085	816-203069
PP91469	BT40H100ER25-HP	40	100	40	25	•	812-203086	816-203070
PP91470	BT40H100ER32-HP	40	100	50	32	•	812-203087	816-203071
PP91465	BT50H80ER16-HP	50	80	30	16	•	812-203085	816-203069
PP91471	BT50H100ER16-HP	50	100	30	16	•	812-203085	816-203069
PP91472	BT50H100ER32-HP	50	100	50	32	•	812-203087	816-203071

* for BT30, AD shape only



HIGH PRECISION LINE

STANDARD



Kit:
- 1 holder
- 10 collets

COD.	DESCRIPTION
KIT BT40 ER16 HP	BT40 ER16 H70 HP
KIT BT40 ER25 HP	BT40 ER25 H70 HP
KIT BT40 ER32 HP	BT40 ER32 H70 HP

ACCESSORIES

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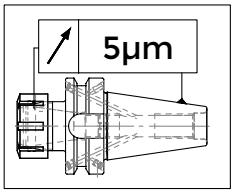
p. 615



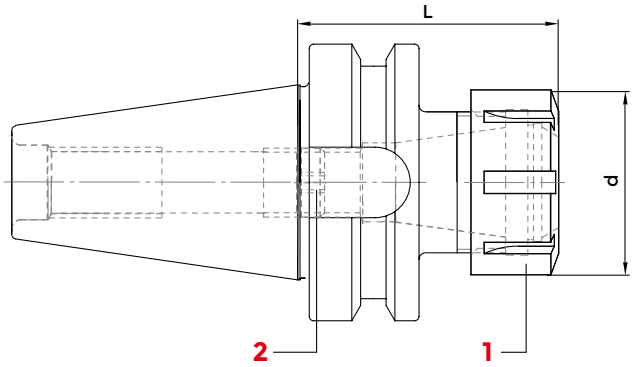
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ER COLLET CHUCKS







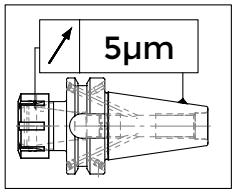
H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

JIS-B 6339 MAS 403/BT AD - DIN 6499/ISO15488

COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	ER	d	L	G6,3 12000	G6,3 15000	1 NUT	2 SCREW	WRENCH	COLLET
3465	-	BT 30 - ER16 / H 55	30	ER 16 1÷12	32	55	-	•	4993	0183	3698	0364
3438	-	BT 30 - ER16 / H 100	30	ER 16 1÷12	32	100	-	•	4993	0183	3698	0364
3274	-	BT 30 - ER20 / H 55	30	ER 20 1÷15	35	55	-	•	4994	0183	3699	0787
3439	-	BT 30 - ER20 / H 100	30	ER 20 1÷15	35	100	-	•	4994	0183	3699	0787
3250	-	BT 30 - ER25 / H 55	30	ER 25 1÷20	42	55	-	•	4995	0190	3669	0996
3267	-	BT 30 - ER25 / H 100	30	ER 25 1÷20	42	100	-	•	4995	0190	3669	0996
3251	-	BT 30 - ER32 / H 60	30	ER 32 2÷25	50	60	-	•	4996	0190	3670	0988
3252	-	BT 30 - ER32 / H 100	30	ER 32 2÷25	50	100	-	•	4996	0190	3670	0988
3468	4872	BT 40 - ER16 / H 70	40	ER 16 1÷12	32	70	-	•	4993	0186	3698	0364
3469	4873	BT 40 - ER16 / H 100	40	ER 16 1÷12	32	100	-	•	4993	0186	3698	0364
3497	4847	BT 40 - ER16 / H 130	40	ER 16 1÷12	32	130	-	•	4993	0186	3698	0364
3470	4874	BT 40 - ER16 / H 160	40	ER 16 1÷12	32	160	-	•	4993	0186	3698	0364
3498	4852	BT 40 - ER16 / H 200	40	ER 16 1÷12	32	200	-	•	4993	0186	3698	0364
3257	4875	BT 40 - ER20 / H 70	40	ER 20 1÷15	35	70	-	•	4994	4973	3699	0787
3580	4876	BT 40 - ER20 / H 100	40	ER 20 1÷15	35	100	-	•	4994	4973	3699	0787
3113	4853	BT 40 - ER20 / H 130	40	ER 20 1÷15	35	130	-	•	4994	4973	3699	0787
3114	4877	BT 40 - ER20 / H 160	40	ER 20 1÷15	35	160	-	•	4994	4973	3699	0787
3499	4854	BT 40 - ER20 / H 200	40	ER 20 1÷15	35	200	-	•	4994	4973	3699	0787
3258	4878	BT 40 - ER25 / H 70	40	ER 25 1÷20	42	70	-	•	4995	0190	3669	0996
0336	4879	BT 40 - ER25 / H 100	40	ER 25 1÷20	42	100	-	•	4995	0190	3669	0996
0337	4880	BT 40 - ER25 / H 130	40	ER 25 1÷20	42	130	-	•	4995	0190	3669	0996
3115	4881	BT 40 - ER25 / H 160	40	ER 25 1÷20	42	160	-	•	4995	0190	3669	0996
3183	4811	BT 40 - ER25 / H 200	40	ER 25 1÷20	42	200	-	•	4995	0190	3669	0996
3184	4882	BT 40 - ER32 / H 70	40	ER 32 2÷25	50	70	-	•	4996	0191	3670	0988
3259	4883	BT 40 - ER32 / H 100	40	ER 32 2÷25	50	100	-	•	4996	0191	3670	0988
3116	4884	BT 40 - ER32 / H 130	40	ER 32 2÷25	50	130	-	•	4996	0191	3670	0988
3260	4885	BT 40 - ER32 / H 160	40	ER 32 2÷25	50	160	-	•	4996	0191	3670	0988
3117	4886	BT 40 - ER32 / H 200	40	ER 32 2÷25	50	200	-	•	4996	0191	3670	0988
3261	4887	BT 40 - ER40 / H 70	40	ER 40 3÷32	63	70	-	•	4997	0195	3671	0821
3262	4888	BT 40 - ER40 / H 100	40	ER 40 3÷32	63	100	-	•	4997	0195	3671	0821

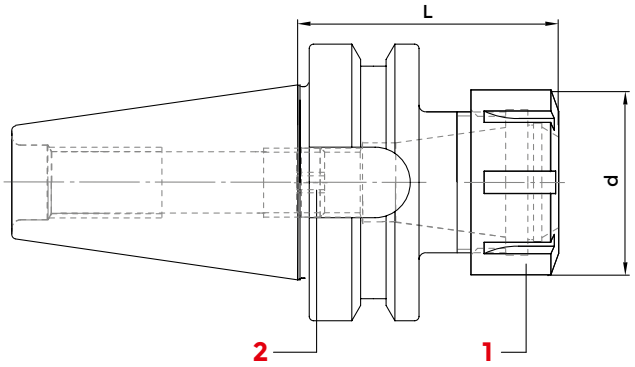
follows >>

ER COLLET CHUCKS



H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm





JIS-B 6339 MAS 403/BT AD - DIN 6499/ISO15488

COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	ER	d	L	G6,3 12000	G6,3 15000	1 NUT	2 SCREW	WRENCH	COLLET
3263	4889	BT 40 - ER40 / H 130	40	ER 40 3÷32	63	130	-	•	4997	0195	3671	0821
3264	4890	BT 40 - ER40 / H 160	40	ER 40 3÷32	63	160	-	•	4997	0195	3671	0821
3118	4891	BT 40 - ER40 / H 200	40	ER 40 3÷32	63	200	-	•	4997	0195	3671	0821
3265	4931	BT 40 - ER50 / H 85	40	ER 50 6÷36	78	85	-	•	4998	0195	3668	4055
9008	-	BT 50 - ER16 / H 80	50	ER 16 1÷12	32	80	•	-	4993	0186	3698	0364
3474	4892	BT 50 - ER16 / H 100	50	ER 16 1÷12	32	100	•	-	4993	0186	3698	0364
3475	4893	BT 50 - ER16 / H 160	50	ER 16 1÷12	32	160	•	-	4993	0186	3698	0364
3488	4957	BT 50 - ER16 / H 200	50	ER 16 1÷12	32	200	•	-	4993	0186	3698	0364
3119	4894	BT 50 - ER20 / H 100	50	ER 20 1÷15	35	100	•	-	4994	4973	3699	0787
3120	4895	BT 50 - ER20 / H 160	50	ER 20 1÷15	35	160	•	-	4994	4973	3699	0787
3582	4896	BT 50 - ER25 / H 80	50	ER 25 1÷20	42	80	•	-	4995	0190	3669	0996
3583	4897	BT 50 - ER25 / H 100	50	ER 25 1÷20	42	100	•	-	4995	0190	3669	0996
3584	4898	BT 50 - ER25 / H 160	50	ER 25 1÷20	42	160	•	-	4995	0190	3669	0996
3585	4959	BT 50 - ER25 / H 200	50	ER 25 1÷20	42	200	•	-	4995	0190	3669	0996
3275	4899	BT 50 - ER32 / H 80	50	ER 32 2÷25	50	80	•	-	4996	0191	3670	0988
3273	4900	BT 50 - ER32 / H 100	50	ER 32 2÷25	50	100	•	-	4996	0191	3670	0988
3276	4901	BT 50 - ER32 / H 130	50	ER 32 2÷25	50	130	•	-	4996	0191	3670	0988
3277	4902	BT 50 - ER32 / H 160	50	ER 32 2÷25	50	160	•	-	4996	0191	3670	0988
3278	4903	BT 50 - ER32 / H 200	50	ER 32 2÷25	50	200	•	-	4996	0191	3670	0988
3400	4961	BT 50 - ER32 / H 250	50	ER 32 2÷25	50	250	•	-	4996	0191	3670	0988
3279	4904	BT 50 - ER40 / H 80	50	ER 40 3÷32	63	80	•	-	4997	0195	3671	0821
3472	4905	BT 50 - ER40 / H 100	50	ER 40 3÷32	63	100	•	-	4997	0195	3671	0821
3280	4906	BT 50 - ER40 / H 130	50	ER 40 3÷32	63	130	•	-	4997	0195	3671	0821
3281	4907	BT 50 - ER40 / H 160	50	ER 40 3÷32	63	160	•	-	4997	0195	3671	0821
3282	4908	BT 50 - ER40 / H 200	50	ER 40 3÷32	63	200	•	-	4997	0195	3671	0821
3473	4999	BT 50 - ER50 / H 100	50	ER 50 6÷36	78	100	•	-	4998	0195	3668	4055
8046	8047	BT 50 - ER50 / H 160	50	ER 50 6÷36	78	160	•	-	4998	0195	3668	4055

ACCESSORIES

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EQUIPMENT CASE WITH REDUCED SET OF ER COLLETS, AD SHAPE COLLET CHUCK AND WRENCH



COD.	DESCRIPTION	ISO	CHUCK	CASE	WRENCH	COLLET
7784	KIT Rid BT 30 / H 55 - ER 25	30	3250	7022	3669	0996: Ø 4 - 6 - 8 -10 -12 -16
7785	KIT Rid BT 30 / H 60 - ER 32	30	3251	7023	3670	0988: Ø 4 - 6 - 8 -10 -12 -16 - 20
7786	KIT Rid BT 40 / H 70 - ER 25	40	3258	7022	3669	0996: Ø 4 - 6 - 8 -10 -12 -16
7787	KIT Rid BT 40 / H 70 - ER 32	40	3184	7023	3670	0988: Ø 4 - 6 - 8 -10 -12 -16 - 20
7788	KIT Rid BT 40 / H 70 - ER 40	40	3261	7024	3671	0821: Ø 4 - 6 - 8 -10 -12 -16 - 20 -25
7789	KIT Rid BT 50 / H 80 - ER 32	50	3275	7023	3670	0988: Ø 4 - 6 - 8 -10 -12 -16 - 20
7790	KIT Rid BT 50 / H 80 - ER 40	50	3279	7024	3671	0821: Ø 4 - 6 - 8 -10 -12 -16 - 20 -25

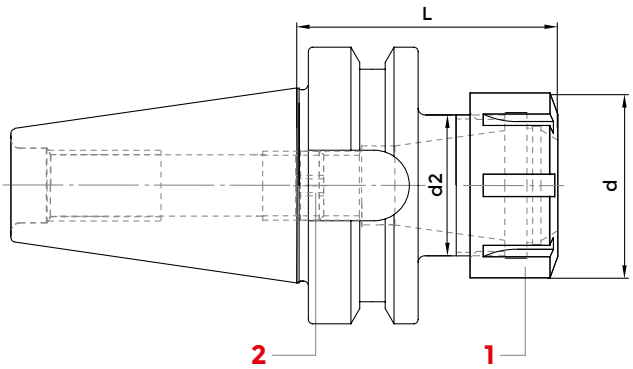
EQUIPMENT CASE WITH COMPLETE SET OF ER COLLETS, AD SHAPE COLLET CHUCK AND WRENCH



COD.	DESCRIPTION	ISO	CHUCK	CASE	WRENCH	COLLET
7791	KIT BT 30 / H 55 - ER 25	30	3250	7022	3669	0996: Ø 2 ÷ 16 (15 Pinze)
7792	KIT BT 30 / H 60 - ER 32	30	3251	7023	3670	0988: Ø 3 ÷ 20 (18 Pinze)
7793	KIT BT 40 / H 70 - ER 25	40	3258	7022	3669	0996: Ø 2 ÷ 16 (15 Pinze)
7794	KIT BT 40 / H 70 - ER 32	40	3184	7023	3670	0988: Ø 3 ÷ 20 (18 Pinze)
7795	KIT BT 40 / H 70 - ER 40	40	3261	7024	3671	0821: Ø 4 ÷ 26 (23 Pinze)
7796	KIT BT 50 / H 80 - ER 32	50	3275	7023	3670	0988: Ø 3 ÷ 20 (18 Pinze)
7797	KIT BT 50 / H 80 - ER 40	50	3279	7024	3671	0821: Ø 4 ÷ 26 (23 Pinze)

ER COLLET CHUCKS - HIGH SPEED LINE





JIS-B 6339 MAS 403/BT AD - DIN6499/ISO15488

HIGH SPEED LINE

COD.	DESCRIPTION	ISO	ER	d	d2	L	G2,5 30000	2 SCREW
PP91458	BT30H60ER16	30	16	32	22	60	•	0183
PP91459	BT30H60ER20	30	20	35	25	60	•	0183
PP91460	BT30H60ER25	30	25	42	32	60	•	0190
PP91461	BT30H60ER32	30	32	50	40	60	•	0190
PP91401	BT40H70ER16	40	16	32	22	70	•	0183
PP91408	BT40H100ER16	40	16	32	31.5	100	•	0183
PP91402	BT40H70ER25	40	25	42	32	70	•	0190
PP91409	BT40H100ER25	40	25	42	41.5	100	•	0190
PP91403	BT40H70ER32	40	32	50	40	70	•	0190
PP91410	BT40H100ER32	40	32	50	49.5	100	•	0190
PP91406	BT50H80ER32	50	32	50	40	80	•	0190

ACCESSORIES



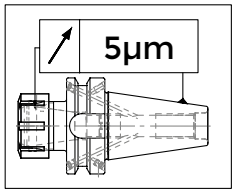




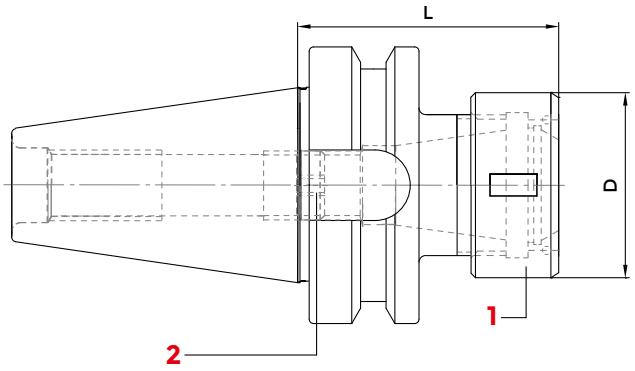
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DIN6388 (EOC) COLLET CHUCKS





H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm



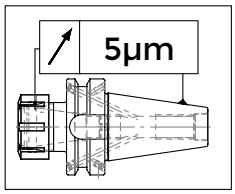
JIS-B 6339 MAS 403/BT AD - DIN 6388

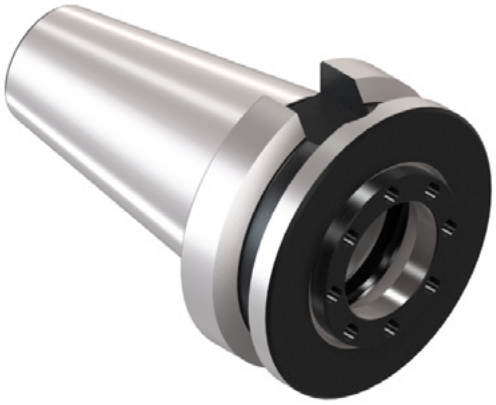
								1	2	
COD.	DESCRIPTION	ISO	EOC	d	L	G6.3 12000	G6.3 15000	NUT	WRENCH	COLLET
										
8726	BT 40 - EOC 16 / H 70	40	EOC 16 2÷16	43	70	-	•	4067	2883	0768
8729	BT 40 - EOC 25 / H 70	40	EOC 25 2÷25	60	70	-	•	4068	2909	0769
8732	BT 40 - EOC 32 / H 80	40	EOC 32 3÷32	72	80	-	•	4069	2910	0770
8735	BT 50 - EOC 25 / H 85	50	EOC 25 2÷25	60	85	•	-	4068	2909	0769
8738	BT 50 - EOC 32 / H 95	50	EOC 32 3÷32	72	95	•	-	4069	2910	0770
8739	BT 50 - EOC 32 / H 130	50	EOC 32 3÷32	72	130	•	-	4069	2910	0770

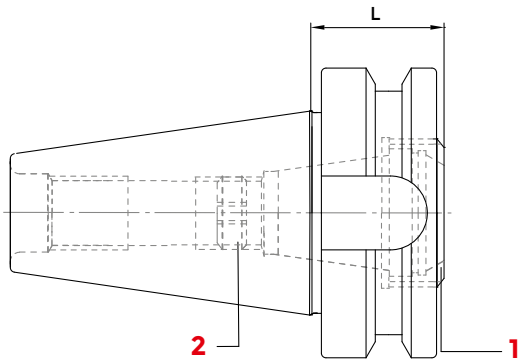
ACCESSORIES

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ER SHORT COLLET CHUCK WITH INNER NUT







H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

JIS-B 6339 MAS 403/BT AD - MAS 403/BT A

							1	2	
COD.	DESCRIPTION	ISO	L	ER	G6.3 12000	G6.3 15000	NUT	WRENCH	COLLET
									
8041	BT 40 - ER 25 GA	40	29	ER 25 1÷20	-	•	2870	3172	0996
3067	BT 40 - ER 32 GA	40	29	ER 32 2÷25	-	•	2871	3173	0988
3068	BT 50 - ER 32 GA	50	40	ER 32 2÷25	•	-	2871	3173	0988

ACCESSORIES

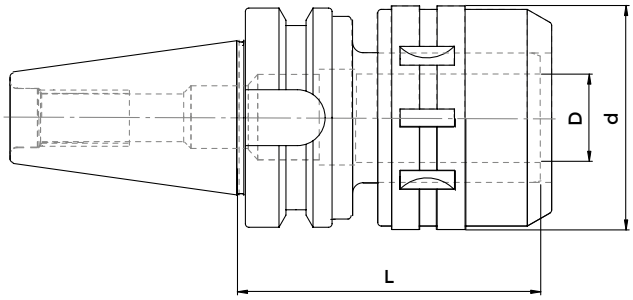
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MILLING CHUCK



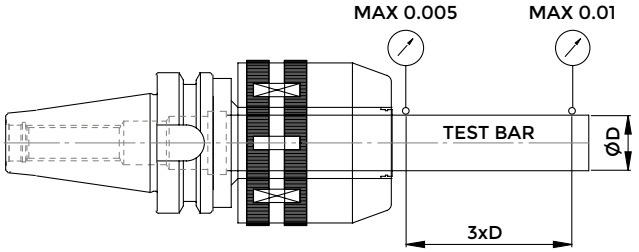


JIS-B 6339 MAS 403/BT AD

COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	D	L	d	G6.3 12000	COLLET
5114	5228	BT 40 - PC 20 / H 80	40	20	80	54	•	0809
3504	-	BT 40 - PC 20 / H 105	40	20	105	54	•	0809
-	5229	BT 40 - PC 32 / H 85	40	32	85	63	•	0810
3505	-	BT 40 - PC 32 / H 105	40	32	105	72	•	0810
5133	9650	BT 40 - PC 32 / H 135	40	32	135	63	•	0810
3506	9651	BT 50 - PC 20 / H 105	50	20	105	54	•	0809
-	9652	BT 50 - PC 20 / H 135	50	20	135	50	•	0809
3507	9653	BT 50 - PC 32 / H 105	50	32	105	72	•	0810
5136	9654	BT 50 - PC 32 / H 135	50	32	135	72	•	0810

Supplied with wrench

MILLING CHUCK Ø	SPECIFICATION DIN 7178-1	TOLLERANCE	RUN-OUT (3D)	CLAMPING TORQUE
C20	AT3	BT40 (0~+0,003)	0~0,01	980M.m (100Kgf.m)
C32	AT3	BT50 (0~+0,004)	0~0,01	3430M.m (350Kgf.m)



ACCESSORIES



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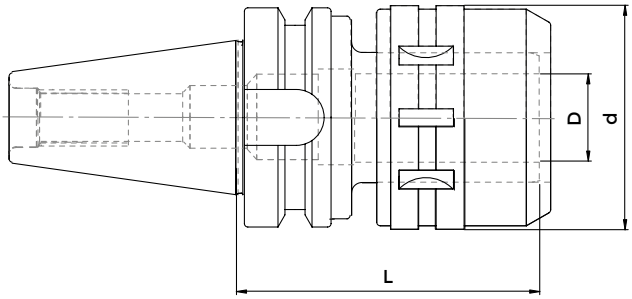
MILLING CHUCK KIT



COD.	DESCRIPTION	ISO	CHUCK	CASE	WRENCH	COLLET
						
7547	KIT BT 40 - PC 20 / H 80	40	5114	3695	2900	0809 Ø 6 - 8 - 10 - 12 - 16
7713	KIT BT 40 - PC 20 / H 105	40	3504	3695	2900	0809 Ø 6 - 8 - 10 - 12 - 16
7716	KIT BT 40 - PC 32 / H 105	40	3505	3695	2910	0810 Ø 6 - 8 - 10 - 12 - 16 - 20 - 25
7717	KIT BT 50 - PC 20 / H 105	50	3506	3695	2900	0809 Ø 6 - 8 - 10 - 12 - 16
7720	KIT BT 50 - PC 32 / H 105	50	3507	3695	2910	0810 Ø 6 - 8 - 10 - 12 - 16 - 20 - 25

MILLING CHUCK - HIGH SPEED LINE





JIS-B 6339 MAS 403/BT

HIGH SPEED LINE

COD.	DESCRIPTION	ISO	D	d	L	G6.3 20000
FS01510	BT40H80C20HS	40	20	54	80	•
FS01511	BT40H105C20HS	40	20	54	105	•
FS01513	BT50H105C20HS	50	20	54	105	•
FS01514	BT50H105C32HS	50	32	74	105	•

Supplied with wrench

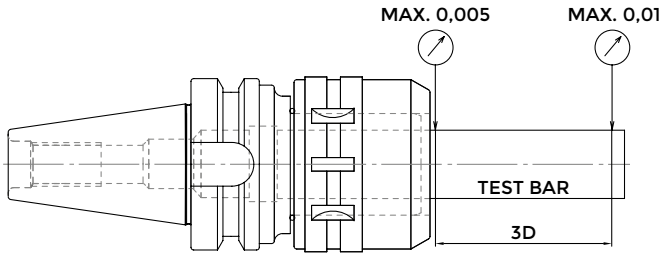
ACCESSORIES



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MILLING CHUCK KIT - HIGH SPEED LINE



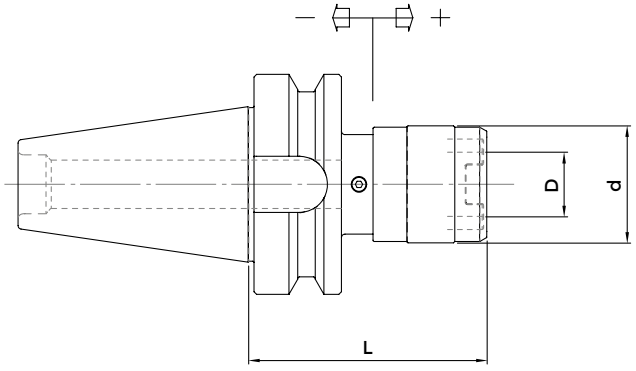


HIGH SPEED LINE

COD.	DESCRIPTION
KIT BT40 C20HS	N°1 BT40 L90 C20 + n°5 collets K20: Ø6,8,10,12,16
KIT BT40 C32HS	N°1 BT40 L105 C32 + n°7 collets K32: Ø6,8,10,12,16,20,25

TENSION/COMPRESSION QUICK CHANGE TAPPING HEADS





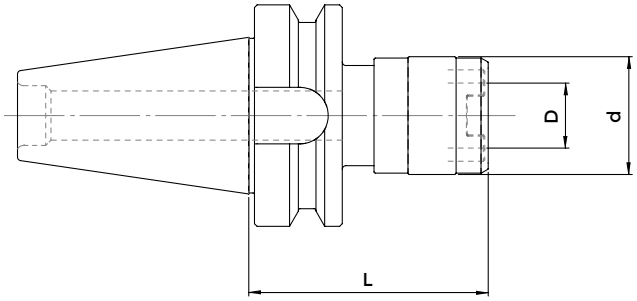
JIS-B 6339 MAS 403/BT A

COD.	DESCRIPTION	ISO	D	d	L	RANGE	TAP SIZE RANGE
2863	BT 30 - B. 1	30	19	38	63	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
2865	BT 30 - B. 2	30	31	55	96	-12,5 + 12,5	M 6 ÷ M 20 (* M 30)
3524	BT 40 - B. 1	40	19	38	68	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
3525	BT 40 - B. 2	40	31	55	93	-12,5 + 12,5	M 6 ÷ M 20 (* M 30)
3526	BT 40 - B. 3	40	48	79	164	-20,0 + 20,0	M 14 ÷ M 33 (* M 48)
3028	BT 50 - B. 1	50	19	38	80	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
3530	BT 50 - B. 2	50	31	55	102	-12,5 + 12,5	M 6 ÷ M 20 (* M 30)
3531	BT 50 - B. 3	50	48	79	133	-20,0 + 20,0	M 14 ÷ M 33 (* M 48)

* Adapters with screws

SOLID TAPPING HEADS





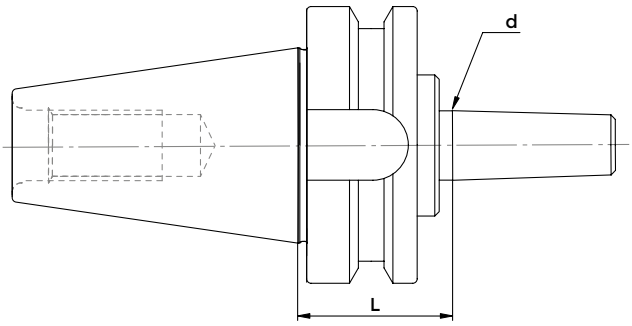
JIS-B 6339 MAS 403/BT A

COD.	DESCRIPTION	ISO	D	d	L	TAP SIZE RANGE
4951	BT 40 - B. 1 FISSO	40	19	33	67	M 3 ÷ M 12 (* M 18)
4952	BT 40 - B. 2 FISSO	40	31	50	90	M 6 ÷ M 20 (* M 30)
5711	BT 40 - B. 3 FISSO	40	48	72	117	M 14 ÷ M 33 (* M 48)

* Adapters with screws

DRILL CHUCKS ADAPTERS



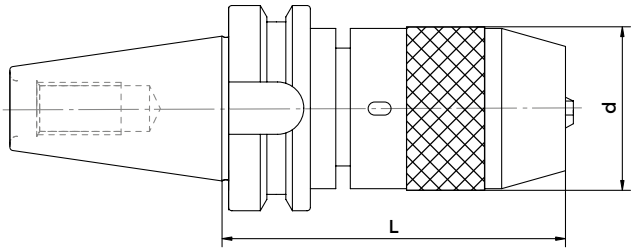


JIS-B 6339 MAS 403/BT AD - DIN 238

COD.	DESCRIPTION	ISO	L	d	G6.3 8000
3994	BT 30 - B 16	30	40	15,733	•
3865	BT 40 - B 12	40	40	12,065	•
3866	BT 40 - B 16	40	40	15,733	•
3995	BT 40 - B 18	40	40	17,78	•
3996	BT 50 - B 16	50	45	15,733	•
3997	BT 50 - B 18	50	45	17,78	•

DRILL CHUCKS - RIGHT SPIN



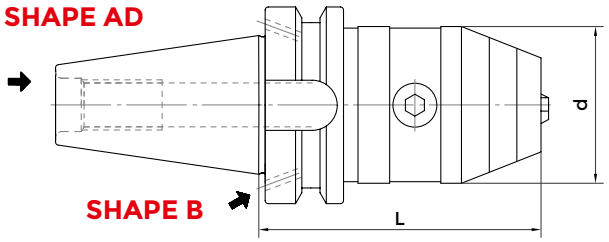


JIS-B 6339 MAS 403/BT A

COD.	DESCRIPTION	ISO	DRILL RANGE	L	d	G6.3 8000	CLAMPS	SCREW	WRENCH
8593	BT 30 - DC 13	30	0,5 ÷ 13	90	50	•	9016	9021	2370
4392	BT 40 - DC 13	40	0,5 ÷ 13	90	50	•	9016	9021	2370
4393	BT 40 - DC 16	40	3 ÷ 16	120	57	•	9017	9023	2371
4394	BT 50 - DC 13	50	0,5 ÷ 13	110	50	•	9016	9021	2370
4395	BT 50 - DC 16	50	3 ÷ 16	110	57	•	9017	9023	2371

DRILL CHUCKS LEFT AND RIGHT SPIN



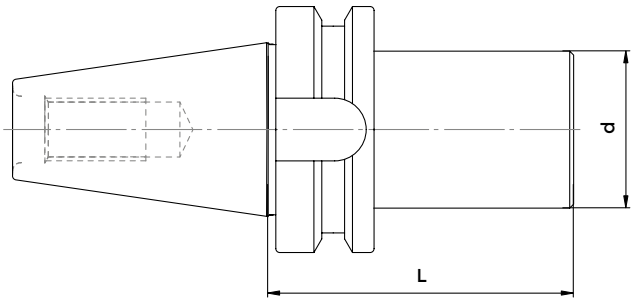


JIS-B 6339 MAS 403/BT A - MAS 403BT/ADB

COD. (AD)	COD. (AD+B)	DESCRIPTION	ISO	DRILL RANGE	L	d	G6.3 8000	SCREW
8594	-	BT 30 - DCU 13	30	0,5 ÷ 13	100	50	•	2372
8595	8599	BT 40 - DCU 13	40	0,5 ÷ 13	98	50	•	2372
8596	8600	BT 40 - DCU 16	40	3 ÷ 16	103	50	•	2372
8597	8601	BT 50 - DCU 13	50	0,5 ÷ 13	110	50	•	2372
8598	8602	BT 50 - DCU 16	50	3 ÷ 16	112	50	•	2372

BLANK BARS





JIS-B 6339 MAS 403/BT A - AD

COD.	DESCRIPTION	ISO	d	L
4367	BT 40 - D. 40 ST	40	40	160
4368	BT 40 - D. 50 ST	40	50	200
9490	BT 40 - D. 63 ST	40	63	160
4369	BT 40 - D. 63 ST	40	63	250
4372	BT 50 - D. 63 ST	50	63	250
4373	BT 50 - D. 80 ST	50	80	300



DOUBLE CONTACT TOOLHOLDERS

DK

DOUBLE CONTACT TOOLHOLDERS DK

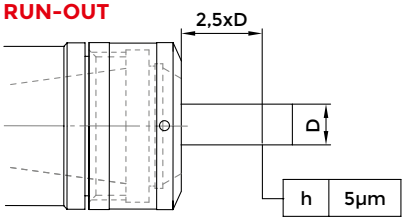
SEVERAL ADVANTAGES OF DOUBLE CONTACT TOOLHOLDER DK:

- Enhanced rigidity thanks to simultaneous fit of taper and flange
- Improvement of the life of the cutting tool
- Improved stability leads to minimized vibration
- Greater bending stiffness allows for higher cutting data, hence higher productivity.

HIGH PRECISION LINE

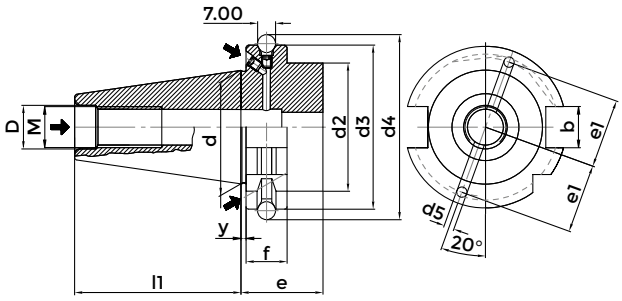
- RUN OUT 5 MICRON at 2,5 times the diameter achieved only by using HP ER collets.
- The High level of accuracy is achieved either on the NOMINAL DIAMETER or by clamping the tool whose diameter is maximum 0,5 mm smaller than the nominal diameter.
- 20% higher clamping force (compared to standard ER collet chuck system).

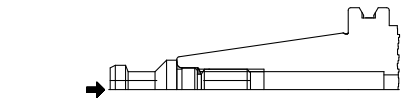
RUN-OUT





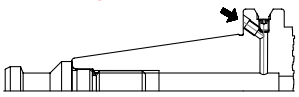
TECHNICAL FEATURES KINTEK SK TOOLHOLDERS





SHAPE AD

SHAPE B

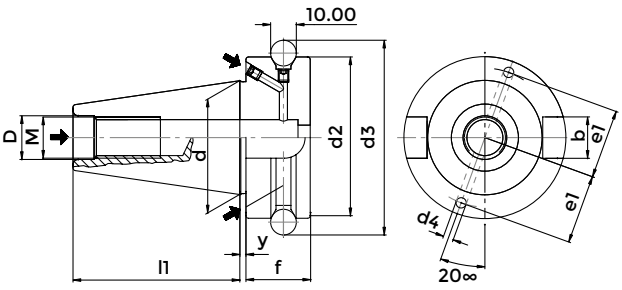


DIN69871 - SK - SHAPE AD

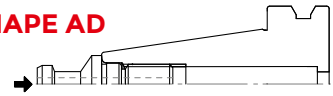
ISO	d	l1	D	M	y	d2	f	d3	d4	e	b
30	31,75	47,8	13	12	1	45	18	50	59,3	32,8	16,1
40	44,45	68,4	17	16	1	50	18	63,55	72,3	32,8	16,1
50	69,85	101,75	25	24	1,5	80	18	97,5	107,25	33,3	25,7

DIN69871 - SK - SHAPE AD/B

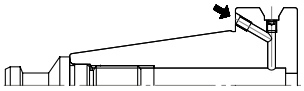
ISO	d	l1	D	M	y	d2	f	d3	d4	e	b	d5	e1
40	44,45	68,4	17	16	1	50	18	63,55	72,3	32,8	16,1	4	27
50	69,85	101,75	25	24	1,5	80	18	97,5	107,25	32,8	25,7	5	42



SHAPE AD



SHAPE B



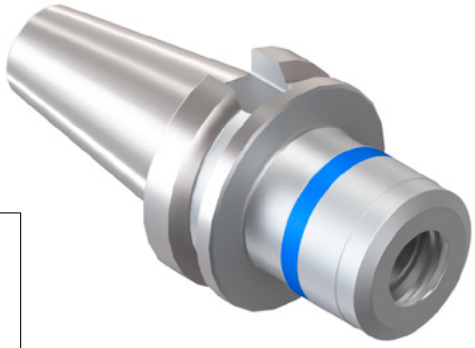
JIS-B 6339 MAS 403/BT SHAPE AD

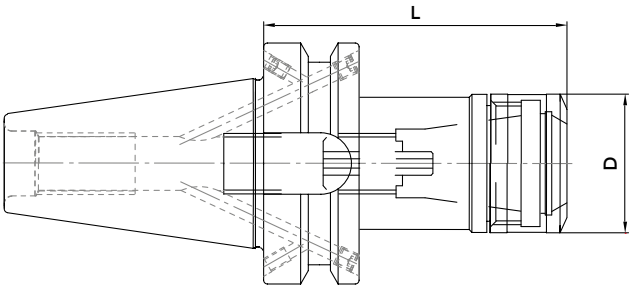
ISO	d	l1	D	M	y	d2	f	d3	b
30	31,75	48,4	12,5	12	1	46	21	56,144	16,1
40	44,45	65,4	17	16	1	63	26	75,68	16,1
50	69,85	101,8	25	24	1,5	100	36,5	110,02	25,7

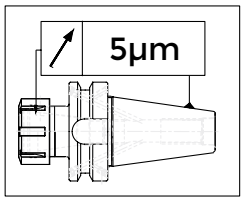
JIS-B 6339 MAS 403/BT SHAPE AD/B

ISO	d	l1	D	M	y	d2	f	d3	b	d5	e1
40	44,45	65,4	17	16	1	63	26	75,68	16,1	4	27
50	69,85	101,8	25	24	1,5	100	36,5	110,02	25,7	5	42

DOUBLE CONTACT ER COLLET CHUCKS - HIGH PRECISION





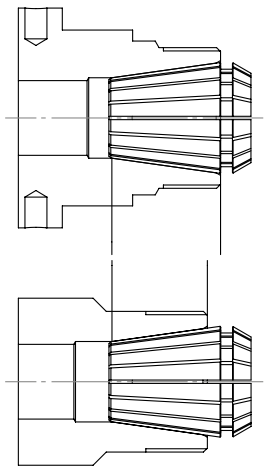


H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

MAS BT AD+B DOUBLE CONTACT - DIN 6499

COD.	DESCRIPTION	ISO	L	d	ER	RANGE	G2,5 30000
*PP37231	BT30H70ER16-HPDK	30	70	30	16	1÷12	•
PP37219	BT40H70ER16-HPDK	40	70	30	16	1÷12	•
PP37220	BT40H70ER25-HPDK	40	70	40	25	1÷20	•
PP37221	BT40H70ER32-HPDK	40	70	50	32	1÷25	•
PP37224	BT40H100ER32-HPDK	40	100	50	32	1÷25	•

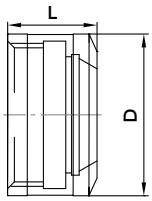
*for BT30, AD shape only
All suitable for collets



HIGH PRECISION LINE

STANDARD LINE





COD.	d	L	ER	RANGE
812-203085	30	19,5	16	1÷12
812-203086	40	22	25	1÷20
812-203087	50	25	32	1÷25

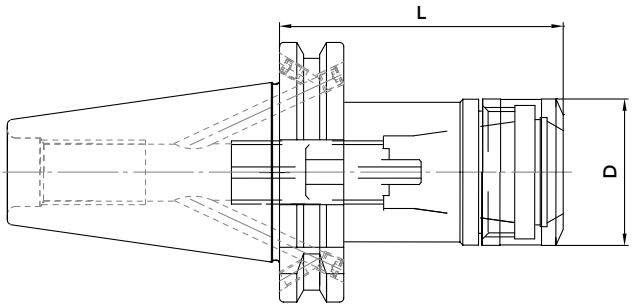


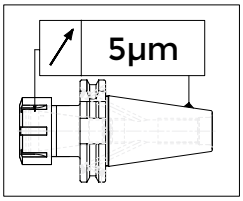
COD.	d	ER	RANGE
816-203069	30	16	1÷12
816-203070	40	25	1÷20
816-203071	50	32	1÷25

*suitable for ER/ERHP/ERC collets

DOUBLE CONTACT ER COLLET CHUCKS - HIGH PRECISION





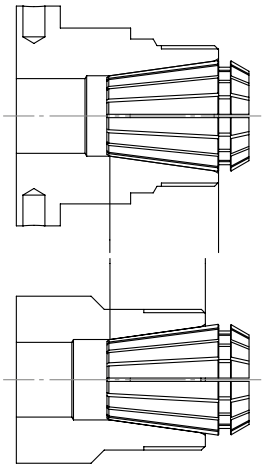


H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

DIN69871 AD+B DOUBLE CONTACT - DIN 6499

COD.	DESCRIPTION	ISO	L	d	ER	RANGE	G2,5 30000
PP37115	TC40H70ER16-HPDK	40	70	30	16	1÷12	•
PP37116	TC40H70ER25-HPDK	40	70	40	25	1÷20	•
PP37117	TC40H70ER32-HPDK	40	70	50	32	1÷25	•
PP37118	TC40H100ER16-HPDK	40	100	30	16	1÷12	•
PP37119	TC40H100ER25-HPDK	40	100	40	25	1÷20	•
PP37120	TC40H100ER32-HPDK	40	100	50	32	1÷25	•

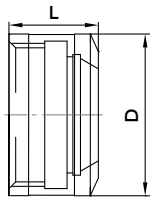
All suitable for collets



HIGH PRECISION LINE

STANDARD LINE





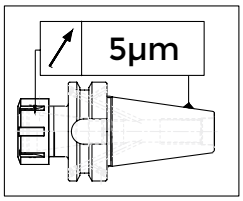
COD.	d	L	ER	RANGE
812-203085	30	19,5	16	1÷12
812-203086	40	22	25	1÷20
812-203087	50	25	32	1÷25



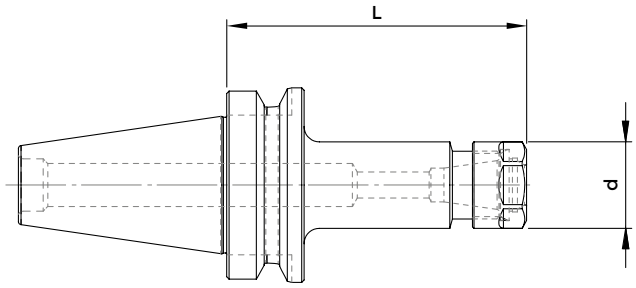
COD.	d	ER	RANGE
816-203069	30	16	1÷12
816-203070	40	25	1÷20
816-203071	50	32	1÷25

DOUBLE CONTACT ER COLLET CHUCK WITH HEXAGONAL NUT





H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm



MAS 403/BT AD

COD.	DESCRIPTION	ISO	ER	RANGE	d	L	G6.3 8000	NUT	WRENCH	COLLET
10531	BT 30 - ER 16 GE / H 70	30	16	1÷12	28	55	•	1214	2906	0364
10532	BT 30 - ER 16 GE / H 100	30	16	1÷12	28	100	•	1214	2906	0364
10539	BT 40 - ER 16 GE / H 70	40	16	1÷12	28	70	•	1214	2906	0364
10540	BT 40 - ER 16 GE / H 100	40	16	1÷12	28	100	•	1214	2906	0364
10544	BT 40 - ER 20 GE / H 70	40	20	1÷12	28	100	•	1215	2907	0787
10545	BT 40 - ER 20 GE / H 100	40	20	1÷12	28	100	•	1215	2907	0787

ACCESSORIES



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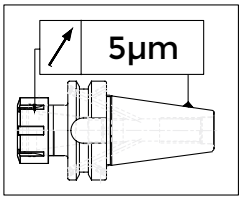
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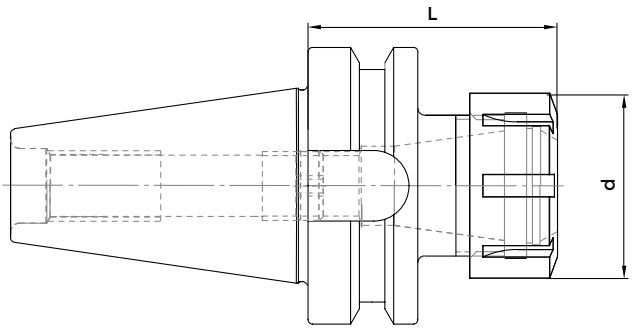


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DOUBLE CONTACT ER COLLET CHUCKS







H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

MAS 403/BT AD

COD.	DESCRIPTION	ISO	ER	RANGE	d	L	G6.3 8000	NUT	WRENCH	COLLET
10555	BT 30 - ER 16 / H 70	30	16	1÷12	32	70	•	4993	3698	0364
10556	BT 30 - ER 16 / H 100	30	16	1÷12	32	100	•	4993	3698	0364
10557	BT 30 - ER 20 / H 70	30	20	1÷15	35	70	•	4994	3699	0787
10558	BT 30 - ER 20 / H 100	30	20	1÷15	35	100	•	4994	3699	0787
10559	BT 30 - ER 25 / H 70	30	25	1÷20	42	70	•	4995	3669	0996
10560	BT 30 - ER 25 / H 100	30	25	1÷20	42	100	•	4995	3669	0996
10561	BT 30 - ER 32 / H 60	30	32	2÷25	50	60	•	4996	3670	0988
10562	BT 30 - ER 32 / H 100	30	32	2÷25	50	100	•	4996	3670	0988
10567	BT 40 - ER 16 / H 70	40	16	1÷12	32	70	•	4993	3698	0364
10568	BT 40 - ER 16 / H 100	40	16	1÷12	32	100	•	4993	3698	0364
10577	BT 40 - ER 25 / H 70	40	25	1÷20	42	70	•	4995	3669	0996
10578	BT 40 - ER 25 / H 100	40	25	1÷20	42	100	•	4995	3669	0996
10579	BT 40 - ER 25 / H 130	40	25	1÷20	42	130	•	4995	3669	0996
10580	BT 40 - ER 25 / H 160	40	25	1÷20	42	160	•	4995	3669	0996
10582	BT 40 - ER 32 / H 70	40	32	2÷25	50	70	•	4996	3670	0988
10583	BT 40 - ER 32 / H 100	40	32	2÷25	50	100	•	4996	3670	0988
10584	BT 40 - ER 32 / H 130	40	32	2÷25	50	130	•	4996	3670	0988
10585	BT 40 - ER 32 / H 160	40	32	2÷25	50	160	•	4996	3670	0988
10587	BT 40 - ER 40 / H 70	40	40	3÷32	63	70	•	4997	3671	0821
10588	BT 40 - ER 40 / H 100	40	40	3÷32	63	100	•	4997	3671	0821
10592	BT 40 - ER 50 / H 85	40	50	6÷36	78	85	•	4998	3668	4055
10603	BT 50 - ER 32 / H 80	50	32	2÷25	50	80	•	4996	3670	0988
10604	BT 50 - ER 32 / H 100	50	32	2÷25	50	100	•	4996	3670	0988
10605	BT 50 - ER 32 / H 130	50	32	2÷25	50	130	•	4996	3670	0988
10606	BT 50 - ER 32 / H 160	50	32	2÷25	50	160	•	4996	3670	0988
10607	BT 50 - ER 32 / H 200	50	32	2÷25	50	200	•	4996	3670	0988
10609	BT 50 - ER 40 / H 80	50	40	3÷32	63	80	•	4997	3671	0821
10610	BT 50 - ER 40 / H 100	50	40	3÷32	63	100	•	4997	3671	0821

ACCESSORIES

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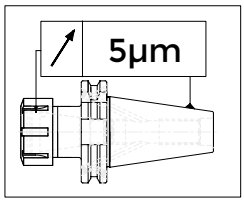
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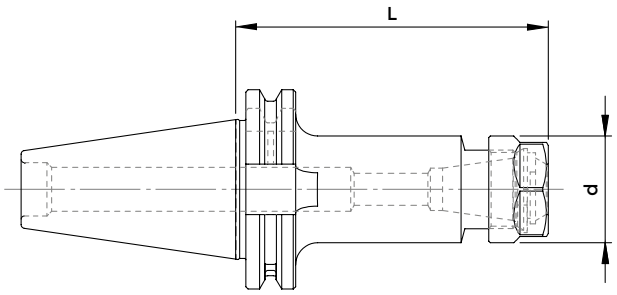
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DOUBLE CONTACT ER COLLET CHUCK WITH HEXAGONAL NUT







H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

DIN 69871

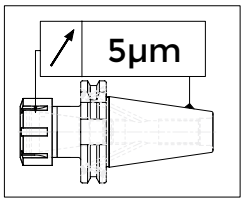
COD.	DESCRIPTION	ISO	ER	RANGE	d	L	G6.3 8000	NUT	WRENCH	COLLET
10036	TC 40 - ER 16 GE / H 70	40	16	1÷12	28	70	•	1214	2906	0364
10037	TC 40 - ER 16 GE / H 100	40	16	1÷12	28	100	•	1214	2906	0364
10041	TC 40 - ER 20 GE / H 70	40	20	1÷15	34	70	•	1215	2907	0787
10042	TC 40 - ER 20 GE / H 100	40	20	1÷15	34	100	•	1215	2907	0787

ACCESSORIES
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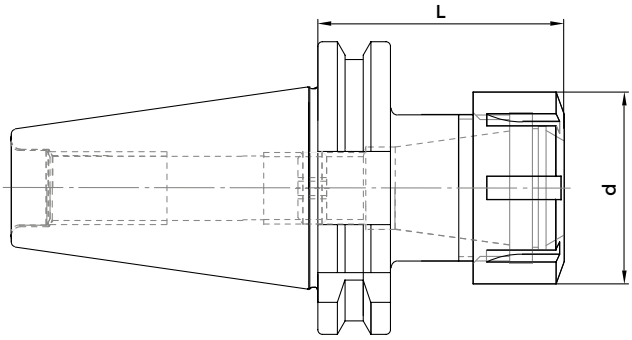
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ER COLLET CHUCKS







H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

DIN 68971 AD

COD.	DESCRIPTION	ISO	ER	RANGE	d	L	G6.3 8000	NUT	WRENCH	COLLET
10056	TC 40 - ER 16 / H 70	40	16	1÷12	32	70	•	4993	3698	0364
10057	TC 40 - ER 16 / H 100	40	16	1÷12	32	100	•	4993	3698	0364
10061	TC 40 - ER 20 / H 70	40	20	1÷15	35	70	•	4994	3699	0787
10062	TC 40 - ER 20 / H 100	40	20	1÷15	35	100	•	4994	3699	0787
10066	TC 40 - ER 25 / H 70	40	25	1÷20	42	70	•	4995	3669	0996
10067	TC 40 - ER 25 / H 100	40	25	1÷20	42	100	•	4995	3669	0996
10068	TC 40 - ER 25 / H 130	40	25	1÷20	42	130	•	4995	3669	0996
10071	TC 40 - ER 32 / H 70	40	32	2÷25	50	70	•	4996	3670	0988
10072	TC 40 - ER 32 / H 100	40	32	2÷25	50	100	•	4996	3670	0988
10073	TC 40 - ER 32 / H 130	40	32	2÷25	50	130	•	4996	3670	0988
10074	TC 40 - ER 32 / H 160	40	32	2÷25	50	160	•	4996	3670	0988
10076	TC 40 - ER 40 / H 70	40	40	3÷32	63	70	•	4997	3671	0821
10077	TC 40 - ER 40 / H 100	40	50	6÷36	63	100	•	4997	3671	0821
10088	TC 50 - ER 25 / H 70	50	25	1÷20	42	70	•	4995	3669	0996
10089	TC 50 - ER 25 / H 100	50	25	1÷20	42	100	•	4995	3669	0996
10092	TC 50 - ER 32 / H 70	50	32	2÷25	50	70	•	4996	3670	0988
10093	TC 50 - ER 32 / H 100	50	32	2÷25	50	100	•	4996	3670	0988
10094	TC 50 - ER 32 / H 130	50	32	2÷25	50	130	•	4996	3670	0988
10095	TC 50 - ER 32 / H 160	50	32	2÷25	50	160	•	4996	3670	0988
10096	TC 50 - ER 32 / H 200	50	32	2÷25	50	200	•	4996	3670	0988
10098	TC 50 - ER 40 / H 80	50	40	3÷32	63	80	•	4997	3671	0821

ACCESSORIES

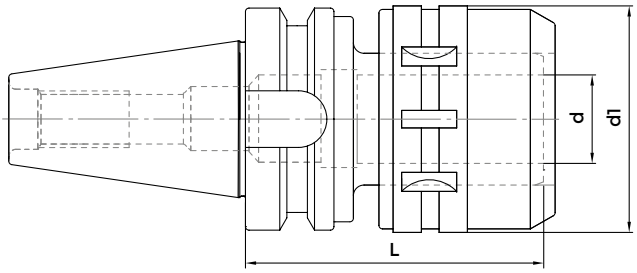

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MILLING CHUCK





MAS 403/BT A

COD.	DESCRIPTION	ISO	d	d1	L	G6.3 12000	WRENCH	COLLET
10855	BT 40 - PC 20 / H 105	40	20	54	105	•	2900	0809
10858	BT 40 - PC 32 / H 105	40	32	72	105	•	2910	0810

Supplied with wrench

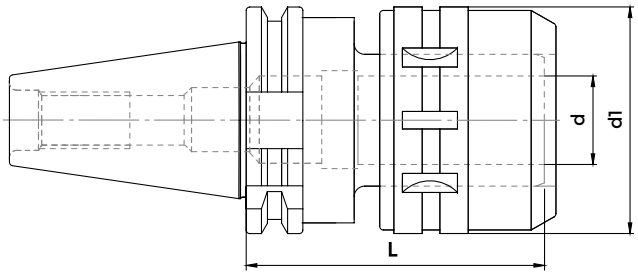
MILLING CHUCK KITS



COD.	DESCRIPTION	ISO	CHUCK	CASE	WRENCH	COLLET
7713	KIT BT 40 - PC 20 / H 105	40	10855	3695	2900	0809 Ø 6 - 8 - 10 - 12 - 16
7716	KIT BT 40 - PC 32 / H 105	40	10858	3695	2910	0810 Ø 6 - 8 - 10 - 12 - 16 - 20 - 25

MILLING CHUCK





DIN 69871 AD

COD.	DESCRIPTION	ISO	d	d1	L	G6.3 12000	WRENCH	COLLET
10313	TC 40 - PC 16 / H 65	40	16	42	65	•	-	0805
10316	TC 40 - PC 20 / H 105	40	20	54	105	•	2900	0809
10319	TC 40 - PC 32 / H 105	40	32	72	105	•	2910	0810
10320	TC 50 - PC 20 / H 85	50	20	50	85	•	2900	0809
10322	TC 50 - PC 32 / H 90	50	32	63	90	•	2910	0810

Supplied with wrench

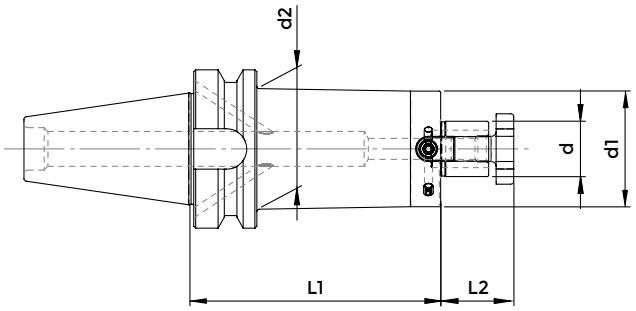
MILLING CHUCK KITS



COD.	DESCRIPTION	ISO	CHUCK	CASE	WRENCH	COLLET
7704	KIT TC 40 - PC 20 / H 105	40	10316	3695	2900	0809 - Ø 6 - 8 - 10 - 12 - 16
7707	KIT TC 40 - PC 32 / H 105	40	10319	3695	2910	0810 - Ø 6 - 8 - 10 - 12 - 16 - 20 - 25
7708	KIT TC 50 - PC 20 / H 105	50	10320	3695	2900	0809 - Ø 6 - 8 - 10 - 12 - 16
7711	KIT TC 50 - PC 32 / H 105	50	10322	3695	2910	0810 - Ø 6 - 8 - 10 - 12 - 16 - 20 - 25

FACE MILL HOLDERS - TENONS DRIVE





MAS 403/BT AD

COD.	DESCRIPTION	ISO	d	L1	L2	d1	d2	G6.3 8000	CROSS SCREW	TENON	SCREW	WRENCH
10744	BT 30 - D. 16 FISSO / H 35	30	16	35	17	38	-	•	4985	7421	0255	4562
10745	BT 30 - D. 22 FISSO / H 45	30	22	45	19	48	-	•	4986	7427	0256	4563
10746	BT 30 - D. 27 FISSO / H 45	30	27	45	21	58	-	•	4987	7428	7414	4564
10747	BT 40 - D. 16 FISSO / H 45	40	16	45	17	38	-	•	4985	7421	0255	4562
10748	BT 40 - D. 16 FISSO / H 100	40	16	100	17	38	-	•	4985	7421	0255	4562
10749	BT 40 - D. 16 FISSO / H 130	40	16	130	17	38	-	•	4985	7421	0255	4562
10750	BT 40 - D. 16 FISSO / H 160	40	16	160	17	38	-	•	4985	7421	0255	4562
10752	BT 40 - D. 22 FISSO / H 45	40	22	45	19	48	-	•	4986	7427	0256	4563
10106	BT 40 - D. 22 FISSO / H 60	40	22	60	19	48	-	•	4986	7427	0256	4563
10753	BT 40 - D. 22 FISSO / H 100	40	22	100	19	46	48	•	4986	7427	0256	4563
10754	BT 40 - D. 22 FISSO / H 130	40	22	130	19	46	48	•	4986	7427	0256	4563
10755	BT 40 - D. 22 FISSO / H 160	40	22	160	19	46	48	•	4986	7427	0256	4563
10757	BT 40 - D. 27 FISSO / H 45	40	27	45	21	58	-	•	4987	7436	0205	4564
10616	BT 40 - D. 27 FISSO / H 60	40	27	60	21	60	-	•	4987	7436	0205	4564
10758	BT 40 - D. 27 FISSO / H 100	40	27	100	21	48	-	•	4987	7436	0205	4564
10762	BT 40 - D. 32 FISSO / H 50	40	32	50	24	78	-	•	4988	7429	0099	4565
10763	BT 40 - D. 32 FISSO / H 100	40	32	100	24	58	-	•	4988	7437	0482	4565
10765	BT 40 - D. 40 FISSO / H 55	40	40	55	27	88	-	•	4989	7430	0099	4562
10766	BT 40 - D. 40 FISSO / H 100	40	40	100	27	70	-	•	4989	7438	0207	4562
10768	BT 50 - D. 16 FISSO / H 60	50	16	60	17	38	-	•	4985	7421	0255	4562
10773	BT 50 - D. 22 FISSO / H 60	50	22	60	19	48	-	•	4986	7427	0256	4563
10780	BT 50 - D. 27 FISSO / H 60	50	27	60	21	58	-	•	4987	7428	7414	4564
10787	BT 50 - D. 32 FISSO / H 60	50	32	60	24	78	-	•	4988	7429	0099	4565
10794	BT 50 - D. 40 FISSO / H 60	50	40	60	27	88	-	•	4989	7430	0099	4562

ACCESSORIES

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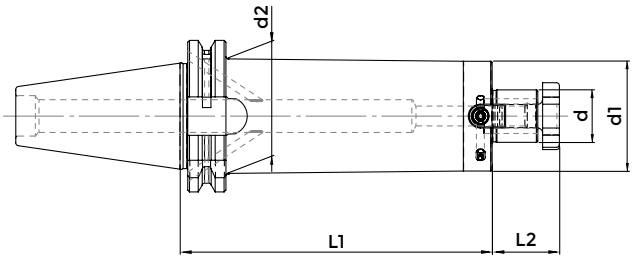


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FACE MILL HOLDERS - TENONS DRIVE





DIN 69871 AD

COD.	DESCRIPTION	ISO	d	L1	L2	d1	d2	G6.3 8000	CROSS SCREW	TENON	SCREW	WRENCH
10222	TC 40 - D. 16 FISSO / H 45	40	16	45	17	38	-	•	4985	7421	0255	4562
10223	TC 40 - D. 16 FISSO / H 100	40	16	100	17	38	-	•	4985	7421	0255	4562
10224	TC 40 - D. 16 FISSO / H 130	40	16	130	17	38	-	•	4985	7421	0255	4562
10225	TC 40 - D. 16 FISSO / H 160	40	16	160	17	38	-	•	4985	7421	0255	4562
10227	TC 40 - D. 22 FISSO / H 45	40	22	45	19	48	-	•	4986	7427	0256	4563
10228	TC 40 - D. 22 FISSO / H 100	40	22	100	19	46	48	•	4986	7427	0256	4563
10229	TC 40 - D. 22 FISSO / H 130	40	22	130	19	46	48	•	4986	7427	0256	4563
10230	TC 40 - D. 22 FISSO / H 160	40	22	160	19	46	48	•	4986	7427	0256	4563
10232	TC 40 - D. 27 FISSO / H 50	40	27	50	21	58	-	•	4987	7428	0205	4564
10233	TC 40 - D. 27 FISSO / H 100	40	27	100	21	48	-	•	4987	7436	0205	4564
10237	TC 40 - D. 32 FISSO / H 55	40	32	55	24	78	-	•	4988	7429	0099	4565
10240	TC 40 - D. 40 FISSO / H 55	40	40	55	27	88	-	•	4989	7430	0099	4566
10243	TC 50 - D. 16 FISSO / H 45	50	16	45	17	38	-	•	4985	7421	0255	4562
10248	TC 50 - D. 22 FISSO / H 55	50	22	55	19	48	-	•	4986	7427	0256	4563
10255	TC 50 - D. 27 FISSO / H 45	50	27	45	21	58	-	•	4987	7428	7414	4564
10262	TC 50 - D. 32 FISSO / H 55	50	32	55	24	78	-	•	4988	7429	0099	4565
10269	TC 50 - D. 40 FISSO / H 55	50	40	55	27	88	-	•	4988	7430	0099	4566

ACCESSORIES

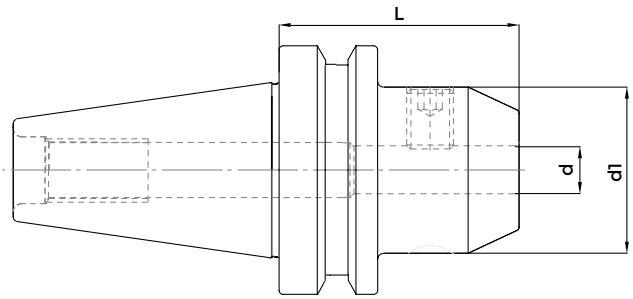

p. 674


p. 676


p. 675

DOUBLE CONTACT WELDON END MILL HOLDERS



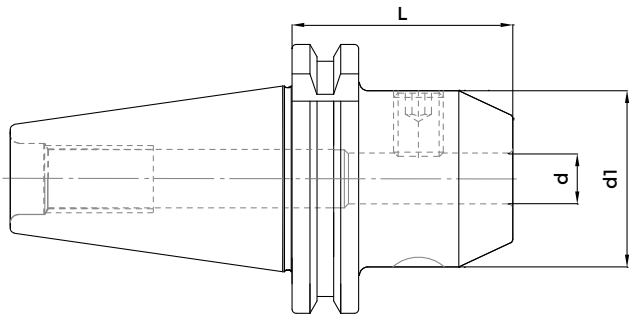


MAS 403/BT AD

COD.	DESCRIPTION	ISO	d	L	d1	G6,3 12000	SCREW
10636	BT 30 - WE 6 / H 60	30	6	60	25	•	4970
10637	BT 30 - WE 8 / H 60	30	8	60	28	•	4971
10638	BT 30 - WE 10 / H 60	30	10	60	35	•	4972
10639	BT 30 - WE 12 / H 60	30	12	60	42	•	4973
10640	BT 30 - WE 16 / H 75	30	16	75	48	•	4974
10641	BT 30 - WE 20 / H 70	30	20	70	52	•	4975
10860	BT 30 - WE 25 / H 90	30	25	90	65	•	4976
10642	BT 40 - WE 6 / H 50	40	6	50	25	•	4970
10647	BT 40 - WE 8 / H 50	40	8	50	28	•	4971
10652	BT 40 - WE 10 / H 63	40	10	63	35	•	4972
10657	BT 40 - WE 12 / H 63	40	12	63	42	•	4973
10667	BT 40 - WE 16 / H 63	40	16	63	48	•	4974
10668	BT 40 - WE 16 / H 100	40	16	100	48	•	4974
10677	BT 40 - WE 20 / H 63	40	20	63	52	•	4975
10678	BT 40 - WE 20 / H 100	40	20	100	52	•	4975
10682	BT 40 - WE 25 / H 90	40	25	90	65	•	4976
10686	BT 40 - WE 32 / H 100	40	32	100	72	•	4977
10690	BT 40 - WE 40 / H 105	40	40	105	80	•	4977

DOUBLE CONTACT WELDON END MILL HOLDERS





DIN 69871 AD

COD.	DESCRIPTION	ISO	d	L	d1	G6,3 12000	SCREW
							
10121	TC 40 - WE 6 / H 50	40	6	50	25	•	4970
10122	TC 40 - WE 6 / H 100	40	6	100	28	•	4971
10126	TC 40 - WE 8 / H 50	40	8	50	28	•	4971
10127	TC 40 - WE 8 / H 100	40	8	100	28	•	4971
10131	TC 40 - WE 10 / H 50	40	10	50	35	•	4972
10132	TC 40 - WE 10 / H 100	40	10	100	35	•	4972
10136	TC 40 - WE 12 / H 50	40	12	50	42	•	4973
10137	TC 40 - WE 12 / H 100	40	12	100	42	•	4973
10146	TC 40 - WE 16 / H 63	40	16	63	48	•	4974
10156	TC 40 - WE 20 / H 63	40	20	63	52	•	4975
10161	TC 40 - WE 25 / H 100	40	25	100	65	•	4976
10165	TC 40 - WE 32 / H 100	40	32	100	72	•	4977
10169	TC 40 - WE 40 / H 115	40	40	115	80	•	4977
10195	TC 50 - WE 16 / H 63	50	16	63	48	•	4974
10205	TC 50 - WE 20 / H 63	50	20	63	52	•	4975
10210	TC 50 - WE 25 / H 80	50	25	80	65	•	4976
10215	TC 50 - WE 32 / H 100	50	32	100	72	•	4977
10219	TC 50 - WE 40 / H 120	50	40	120	80	•	4977

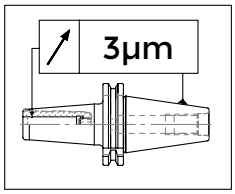
READY, ALWAYS.



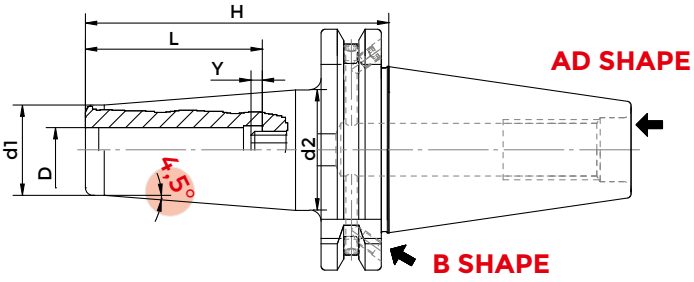
SHRINK FIT CHUCKS

SHRINK FIT CHUCKS
ISO 40 DIN 69871 AD/B





H= 0 > 100 mm - 3 µm
H= 100 >200 mm - 5 µm

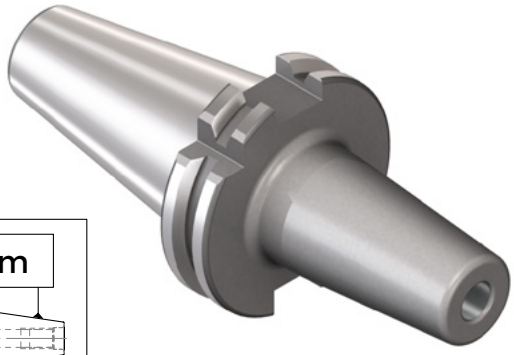


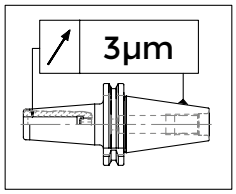
DIN 69871 AD/B

4,5° PROGRAM

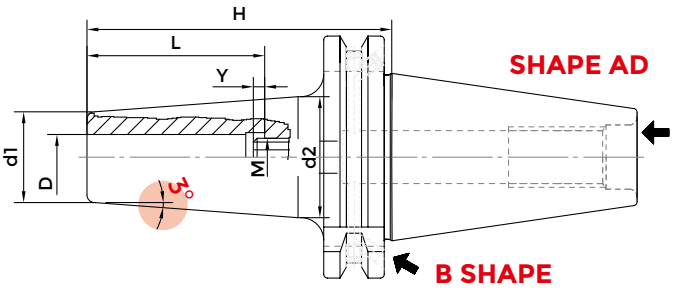
COD.	DESCRIPTION	ISO	D	H	L	Y max	d1	d2	G2,5 25000
251-11232	TC40H80K03-HTT	40	3	80	22	10	9	16	•
251-11225	TC40H80K04-HTT	40	4	80	26	10	10	17	•
251-11233	TC40H80K05-HTT	40	5	80	30	10	11	18	•
251-11201	TC40H80K06-HTT	40	6	80	36	10	21	27	•
251-11202	TC40H80K08-HTT	40	8	80	36	10	21	27	•
251-11203	TC40H80K10-HTT	40	10	80	42	10	24	32	•
251-11204	TC40H80K12-HTT	40	12	80	47	10	24	32	•
251-11206	TC40H80K14-HTT	40	14	80	47	10	27	34	•
251-11205	TC40H80K16-HTT	40	16	80	50	10	27	34	•
251-11207	TC40H80K18-HTT	40	18	80	50	10	33	42	•
251-11208	TC40H80K20-HTT	40	20	80	52	10	33	42	•
251-11218	TC40H100K25-HTT	40	25	100	58	10	44	53	•
251-11295	TC40H120K03-HTT	40	3	120	22	10	9	16	•
251-11296	TC40H120K04-HTT	40	4	120	26	10	10	17	•
251-11297	TC40H120K05-HTT	40	5	120	30	10	11	18	•
251-11209	TC40H120K06-HTT	40	6	120	36	10	21	27	•
251-11210	TC40H120K08-HTT	40	8	120	36	10	21	27	•
251-11211	TC40H120K10-HTT	40	10	120	42	10	24	32	•
251-11212	TC40H120K12-HTT	40	12	120	47	10	24	32	•
251-11298	TC40H120K16-HTT	40	16	120	50	10	27	34	•

SHRINK FIT CHUCKS ISO 40
DIN 69871 AD/B





H= 0 > 100 mm - 3 µm
H= 100 >200 mm - 5 µm



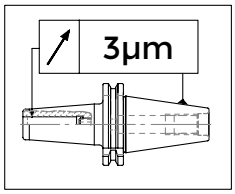
DIN69871 AD/B

3° PROGRAM

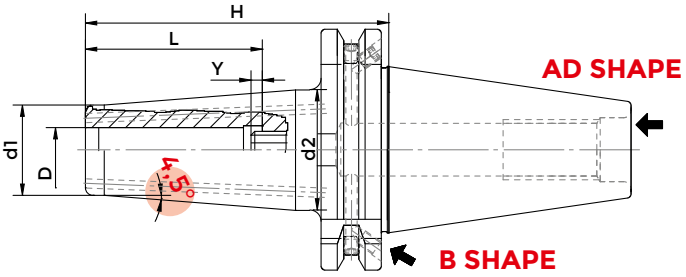
COD.	DESCRIPTION	ISO	D	H	L	Y max	d1	d2	G2,5 25000
251-21284	TC40H80K03-HTT	40	3	80	22	10	9	15	•
251-21285	TC40H80K04-HTT	40	4	80	26	10	10	16	•
251-21287	TC40H80K06-HTT	40	6	80	30	10	12	18	•
251-21288	TC40H80K08-HTT	40	8	80	36	10	14	20	•
251-21289	TC40H80K10-HTT	40	10	80	41	10	16	22	•
251-21290	TC40H80K12-HTT	40	12	80	47	10	18	24	•
251-21292	TC40H80K16-HTT	40	16	80	50	10	24	30	•
251-21295	TC40H120K03-HTT	40	3	120	22	-	9	19	•
251-21296	TC40H120K04-HTT	40	4	120	26	-	10	20	•
251-21298	TC40H120K06-HTT	40	6	120	30	10	12	22	•
251-21299	TC40H120K08-HTT	40	8	120	36	10	14	24	•
251-31201	TC40H120K10-HTT	40	10	120	42	10	16	26	•
251-31202	TC40H120K12-HTT	40	12	120	47	10	18	28	•
251-31204	TC40H120K16-HTT	40	16	120	47	10	24	34	•
251-31207	TC40H160K03-HTT	40	3	160	22	-	9	23	•
251-31208	TC40H160K04-HTT	40	4	160	26	-	10	24	•
251-31210	TC40H160K06-HTT	40	6	160	30	10	12	26	•
251-31211	TC40H160K08-HTT	40	8	160	36	10	14	28	•
251-31212	TC40H160K10-HTT	40	10	160	42	10	16	30	•
251-31213	TC40H160K12-HTT	40	12	160	47	10	18	32	•
251-31215	TC40H160K16-HTT	40	16	160	50	10	24	38	•
251-31217	TC40H160K20-HTT	40	20	160	52	10	26	38	•

SHRINK FIT CHUCKS WITH RESEALABLE COOLANT DUCT HOLES ISO 40 DIN 69871 AD/B





H= 0 > 100 mm - 3 µm
H= 100 >200 mm - 5 µm



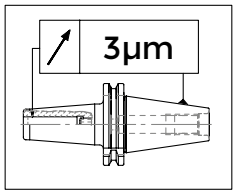
DIN69871 AD/B

4,5° PROGRAM

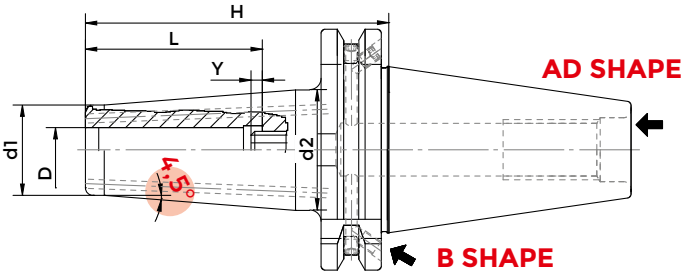
COD.	DESCRIPTION	ISO	D	H	L	Y max	d1	d2	G2,5 25000
251-31221	TC40H80K06-HTT I.C.	40	6	80	36	10	21	27	•
251-31222	TC40H80K08-HTT I.C.	40	8	80	36	10	21	27	•
251-31223	TC40H80K10-HTT I.C.	40	10	80	42	10	24	32	•
251-31224	TC40H80K12-HTT I.C.	40	12	80	47	10	24	32	•
251-31225	TC40H80K14-HTT I.C.	40	14	80	47	10	27	34	•
251-31226	TC40H80K16-HTT I.C.	40	16	80	50	10	27	34	•
251-31227	TC40H80K18-HTT I.C.	40	18	80	50	10	33	42	•
251-31228	TC40H80K20-HTT I.C.	40	20	80	52	10	33	42	•
251-31229	TC40H100K25-HTT I.C.	40	25	100	58	10	44	53	•
251-31230	TC40H100K32-HTT I.C.	40	32	100	63	10	44	53	•
251-31231	TC40H120K06-HTT I.C.	40	6	120	36	10	21	27	•
251-31232	TC40H120K08-HTT I.C.	40	8	120	36	10	21	27	•
251-31233	TC40H120K10-HTT I.C.	40	10	120	42	10	24	32	•
251-31234	TC40H120K12-HTT I.C.	40	12	120	47	10	24	32	•
251-31235	TC40H120K14-HTT I.C.	40	14	120	47	10	27	34	•
251-31236	TC40H120K16-HTT I.C.	40	16	120	50	10	27	34	•
251-31237	TC40H120K18-HTT I.C.	40	18	120	50	10	33	42	•
251-31238	TC40H120K20-HTT I.C.	40	20	120	52	10	33	42	•

SHRINK FIT CHUCKS WITH RESEALABLE COOLANT DUCT HOLES ISO 50 DIN 69871 AD/B





H= 0 > 100 mm - 3 µm
H= 100 >200 mm - 5 µm



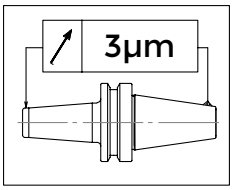
DIN69871 AD/B

4,5° PROGRAM

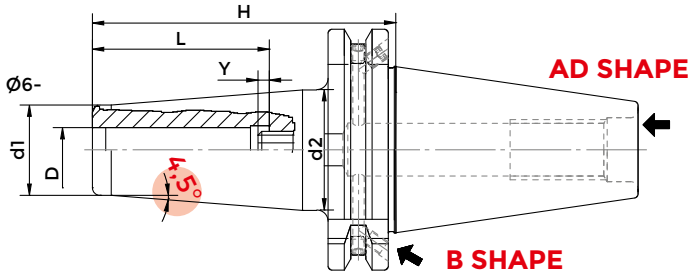
COD.	DESCRIPTION	ISO	D	H	L	Y max	d1	d2	G2,5 25000
251-21252	TC50H80K04-HTT	50	4	80	-	-	10	19	•
251-11234	TC50H80K06-HTT	50	6	80	36	10	21	27	•
251-11235	TC50H80K08-HTT	50	8	80	36	10	21	27	•
251-11236	TC50H80K10-HTT	50	10	80	42	10	24	32	•
251-11237	TC50H80K12-HTT	50	12	80	47	10	24	32	•
251-11224	TC50H80K16-HTT	50	16	80	50	10	27	34	•
251-11242	TC50H120K06-HTT	50	6	120	36	10	21	27	•
251-11243	TC50H120K08-HTT	50	8	120	36	10	21	27	•
251-11244	TC50H120K10-HTT	50	10	120	42	10	24	32	•
251-11245	TC50H120K12-HTT	50	12	120	47	10	24	32	•
251-11247	TC50H120K16-HTT	50	16	120	50	10	27	34	•
251-11249	TC50H120K20-HTT	50	20	120	52	10	33	42	•
251-21263	TC50H160K06-HTT	50	6	160	36	10	21	27	•
251-21264	TC50H160K08-HTT	50	8	160	36	10	21	27	•
251-21265	TC50H160K10-HTT	50	10	160	42	10	24	32	•
251-21266	TC50H160K12-HTT	50	12	160	47	10	24	32	•
251-21268	TC50H160K16-HTT	50	16	160	50	10	27	34	•
251-21270	TC50H160K20-HTT	50	20	160	52	10	33	42	•

SHRINK FIT CHUCKS MAS BT40 TIPO AD/B





H= 0 > 100 mm - 3 µm
H= 100 >200 mm - 5 µm

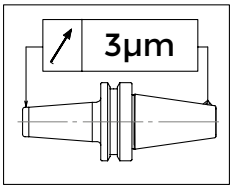


JIS-B 6499 MAS 403 BT-AD/B — 4,5° PROGRAM

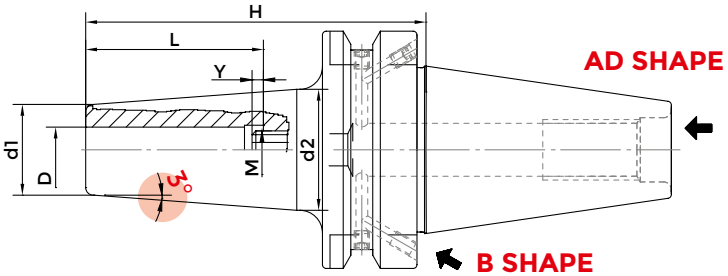
COD.	DESCRIPTION	ISO	D	H	L	Y max	d1	d2	G2,5 25000
251-11580	BT40H90K03DK-HTT	40	3	90	22	10	9	16	•
251-11581	BT40H90K04DK-HTT	40	4	90	26	10	10	17	•
251-11501	BT40H90K06DK-HTT	40	6	90	37	10	21	27	•
251-11502	BT40H90K08DK-HTT	40	8	90	37	10	21	27	•
251-11503	BT40H90K10DK-HTT	40	10	90	41	10	24	32	•
251-11504	BT40H90K12DK-HTT	40	12	90	47	10	24	32	•
251-11506	BT40H90K16DK-HTT	40	16	90	50	10	27	34	•
251-11508	BT40H90K20DK-HTT	40	20	90	52	10	33	42	•

SHRINK FIT CHUCKS MAS BT40 TIPO AD/B





H= 0 > 100 mm - 3 µm
H= 100 >200 mm - 5 µm

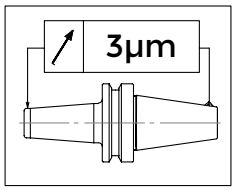


JIS-B 6339 MAS 403 BT-AD/B — 3° PROGRAM

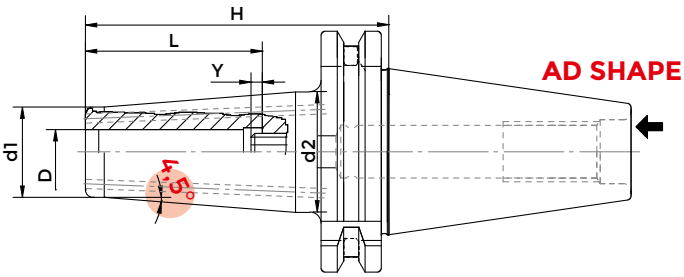
COD.	DESCRIPTION	ISO	D	H	L	Y max	d1	d2	G2,5 25000
251-21557	BT40H120K03-HTT	40	3	120	12	-	9	16	•
251-21558	BT40H120K04-HTT	40	4	120	16	-	10	17	•
251-21560	BT40H120K06-HTT	40	6	120	37	10	12	21	•
251-21561	BT40H120K08-HTT	40	8	120	37	10	14	23	•
251-21562	BT40H120K10-HTT	40	10	120	41	10	16	25	•
251-21563	BT40H120K12-HTT	40	12	120	47	10	18	27	•
251-21565	BT40H120K16-HTT	40	16	120	50	10	22	31	•
251-21567	BT40H120K20-HTT	40	20	120	52	10	26	35	•

DOUBLE CONTACT SHRINK FIT CHUCKS WITH RESEALABLE COOLANT DUCT HOLES MAS BT40 TIPO AD/B





H= 0 > 100 mm - 3 µm
H= 100 >200 mm - 5 µm



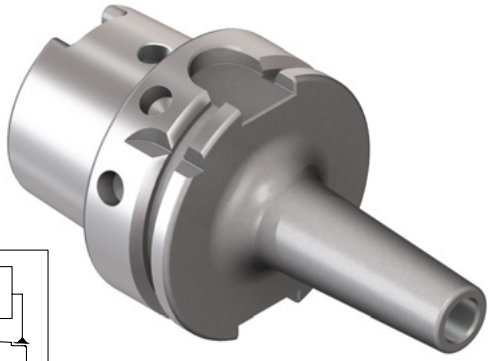
AD SHAPE

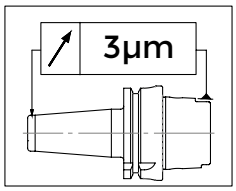
JIS-B 6499 MAS 403 BT-AD - MAS BT AD

4,5° PROGRAM

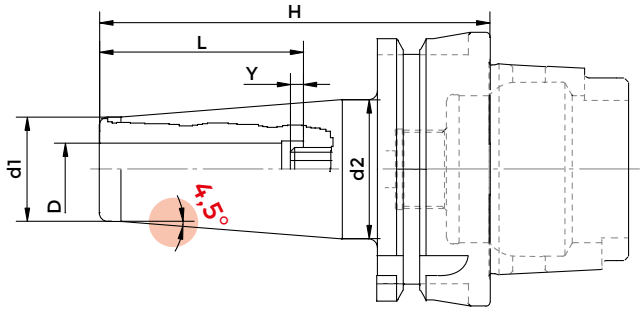
COD.	DESCRIPTION	ISO	D	H	L	Y max	d	d1	G2,5 25000
251-21595	BT40H90K06DK-HTT.-I.C.	40	6	90	37	10	21	27	•
251-21596	BT40H90K08DK-HTT-I.C.	40	8	90	37	10	21	27	•
251-21597	BT40H90K10DK-HTT-I.C.	40	10	90	41	10	24	32	•
251-21598	BT40H90K12DK-HTT-I.C.	40	12	90	47	10	24	32	•
251-21599	BT40H90K16DK-HTT-I.C.	40	16	90	50	10	27	34	•
251-21603	BT40H120K06DK-HTT.-I.C.	40	6	120	37	10	21	27	•
251-21604	BT40H120K08DK-HTT-I.C.	40	8	120	37	10	21	27	•
251-21605	BT40H120K10DK-HTT-I.C.	40	10	120	41	10	24	32	•
251-21606	BT40H120K12DK-HTT-I.C.	40	12	120	47	10	24	32	•
251-21607	BT40H120K16DK-HTT-I.C.	40	16	120	50	10	27	34	•

SHRINK FIT CHUCKS
HSK 63 DIN 69893 TIPO A





H= 0 > 100 mm - 3 µm
H= 100 >200 mm - 5 µm



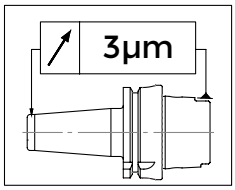
DIN 69893 - HSK 63A

4,5° PROGRAM

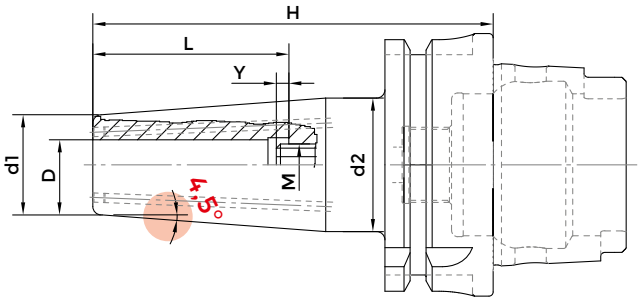
COD.	DESCRIPTION	HSK	D	H	L	Y max	d1	d2	G2,5 25000
251-21725	HSK63AH80K03-HTT	63	3	80	14	10	9	16	•
251-21726	HSK63AH80K04-HTT	63	4	80	18	10	10	17	•
251-21727	HSK63AH80K05-HTT	63	5	80	22	10	11	18	•
251-21728	HSK63AH80K06-HTT	63	6	80	36	10	21	27	•
251-21729	HSK63AH80K08-HTT	63	8	80	36	10	21	27	•
251-21730	HSK63AH85K10-HTT	63	10	85	42	10	24	32	•
251-11710	HSK63AH90K12-HTT	63	12	90	47	10	24	32	•
251-11711	HSK63AH90K14-HTT	63	14	90	47	10	27	34	•
251-11712	HSK63AH95K16-HTT	63	16	95	50	10	27	34	•
251-11714	HSK63AH100K20-HTT	63	20	100	52	10	33	42	•
251-21731	HSK63AH115K25-HTT	63	25	115	58	10	44	53	•
251-21782	HSK63AH120K32-HTT	63	32	120	62	10	44	53	•
251-21732	HSK63AH120K03-HTT	63	3	120	22	10	9	16	•
251-21733	HSK63AH120K04-HTT	63	4	120	26	10	10	17	•
251-11725	HSK63AH120K06-HTT	63	6	120	36	10	21	27	•
251-11726	HSK63AH120K08-HTT	63	8	120	36	10	21	27	•
251-11727	HSK63AH120K10-HTT	63	10	120	42	10	24	32	•
251-11728	HSK63AH120K12-HTT	63	12	120	47	10	24	32	•
251-11730	HSK63AH120K16-HTT	63	16	120	50	10	27	34	•
251-21784	HSK63AH120K20-HTT	63	20	120	52	10	33	42	•
251-21786	HSK63AH160K03-HTT	63	3	160	22	10	9	22	•
251-21787	HSK63AH160K04-HTT	63	4	160	26	10	10	22	•
251-21788	HSK63AH160K05-HTT	63	5	160	30	10	11	22	•
251-21789	HSK63AH160K06-HTT	63	6	160	36	10	21	27	•
251-21790	HSK63AH160K08-HTT	63	8	160	36	10	21	27	•
251-21791	HSK63AH160K10-HTT	63	10	160	42	10	24	32	•
251-21792	HSK63AH160K12-HTT	63	12	160	47	10	24	32	•
251-21794	HSK63AH160K16-HTT	63	16	160	50	10	27	34	•
251-21796	HSK63AH160K20-HTT	63	20	160	52	10	33	42	•
251-21797	HSK63AH160K25-HTT	63	25	160	63	10	44	53	•
251-21798	HSK63AH160K32-HTT	63	32	160	63	10	44	53	•

SHRINK FIT CHUCKS WITH RESEALABLE COOLANT DUCT HOLES HSK63 DIN 69893 TIPO A





H= 0 > 100 mm - 3 µm
H= 100 >200 mm - 5 µm

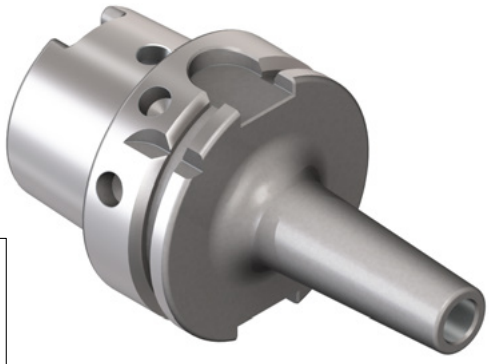


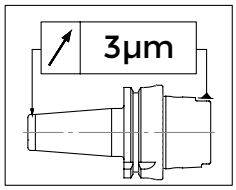
DIN 69893A

4,5° PROGRAM

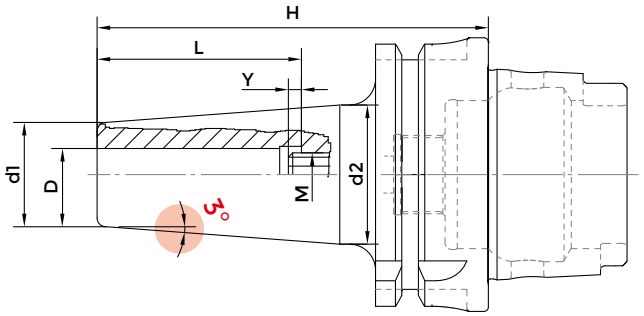
COD.	DESCRIPTION	HSK	D	H	L	Y max	d1	d2	G2,5 25000
251-31763	HSK63AH80K06-HTT-L	63	6	80	36	10	21	27	•
251-31764	HSK63AH80K08-HTT-L	63	8	80	36	10	21	27	•
251-31765	HSK63AH85K10-HTT-L	63	10	85	42	10	24	32	•
251-31766	HSK63AH90K12-HTT-L	63	12	90	47	10	24	32	•
251-31767	HSK63AH90K14-HTT-L	63	14	90	47	10	27	34	•
251-31768	HSK63AH95K16-HTT-L	63	16	95	50	10	27	34	•
251-31770	HSK63AH100K20-HTT-L	63	20	100	52	10	33	42	•
251-31773	HSK63AH120K06-HTT-I.C.	63	6	120	36	10	21	27	•
251-31774	HSK63AH120K08-HTT-I.C.	63	8	120	36	10	21	27	•
251-31775	HSK63AH120K10-HTT-I.C.	63	10	120	42	10	24	32	•
251-31776	HSK63AH120K12-HTT-I.C.	63	12	120	47	10	24	32	•
251-31777	HSK63AH120K14-HTT-I.C.	63	14	120	47	10	27	34	•
251-31778	HSK63AH120K16-HTT-I.C.	63	16	120	50	10	27	34	•
251-31779	HSK63AH120K20-HTT-I.C.	63	20	120	52	10	33	42	•
251-31780	HSK63AH160K06-HTT-I.C.	63	6	160	36	10	21	33,5	•
251-31781	HSK63AH160K08-HTT-I.C.	63	8	160	36	10	21	33,5	•
251-31782	HSK63AH160K10-HTT-I.C.	63	10	160	42	10	24	37,5	•
251-31783	HSK63AH160K12-HTT-I.C.	63	12	160	47	10	24	37,5	•
251-31784	HSK63AH160K14-HTT-I.C.	63	14	160	47	10	27	40	•
251-31785	HSK63AH160K16-HTT-I.C.	63	16	160	47	10	27	43	•
251-31786	HSK63AH160K18-HTT-I.C.	63	18	160	50	10	33	47	•
251-31787	HSK63AH160K20-HTT-I.C.	63	20	160	50	10	33	50	•
251-31788	HSK63AH160K25-HTT-I.C.	63	25	160	58	10	44	53	•
251-31789	HSK63AH160K32-HTT-I.C.	63	32	160	63	10	44	53	•

SHRINK FIT CHUCKS
HSK 63 DIN 69893 TIPO A





H= 0 > 100 mm - 3 µm
H= 100 >200 mm - 5 µm

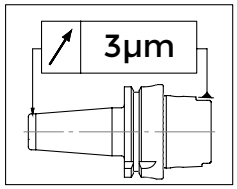


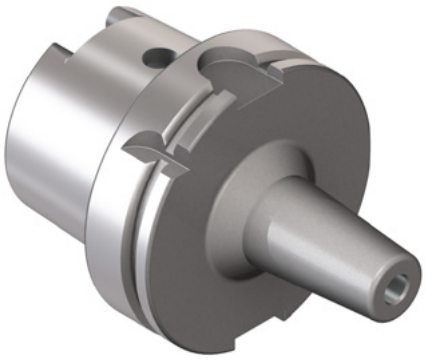
DIN 69893A

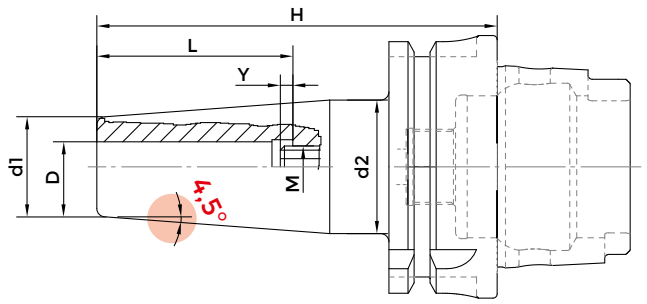
3° PROGRAM

COD.	DESCRIPTION	HSK	D	H	L	Y max	d1	d2	G2,5 25000
251-31711	HSK63AH80K03-HTT	63	3	80	28	-	9	14	•
251-31712	HSK63AH80K04-HTT	63	4	80	28	-	10	15	•
251-31714	HSK63AH80K06-HTT	63	6	80	36	10	12	17	•
251-31715	HSK63AH80K08-HTT	63	8	80	36	10	14	19	•
251-31716	HSK63AH85K10-HTT	63	10	85	42	10	16	21	•
251-31717	HSK63AH90K12-HTT	63	12	90	47	10	18	24	•
251-31719	HSK63AH95K16-HTT	63	16	95	47	10	24	30	•
251-31721	HSK63AH100K20-HTT	63	20	100	52	10	26	32	•
251-31722	HSK63AH120K03-HTT	63	3	120	28	-	9	18	•
251-31723	HSK63AH120K04-HTT	63	4	120	28	-	10	19	•
251-31725	HSK63AH120K06-HTT	63	6	120	36	10	12	21	•
251-31726	HSK63AH120K08-HTT	63	8	120	36	10	14	23	•
251-31727	HSK63AH120K10-HTT	63	10	120	42	10	16	25	•
251-31728	HSK63AH120K12-HTT	63	12	120	47	10	18	27	•
251-31730	HSK63AH120K16-HTT	63	16	120	47	10	24	33	•
251-31732	HSK63AH120K20-HTT	63	20	120	52	10	26	35	•
251-31733	HSK63AH160K03-HTT	63	3	160	28	-	9	22	•
251-31734	HSK63AH160K04-HTT	63	4	160	28	-	10	23	•
251-31736	HSK63AH160K06-HTT	63	6	160	36	10	12	25	•
251-31737	HSK63AH160K08-HTT	63	8	160	36	10	14	27	•
251-31738	HSK63AH160K10-HTT	63	10	160	42	10	16	29	•
251-31739	HSK63AH160K12-HTT	63	12	160	47	10	18	31	•
251-31741	HSK63AH160K16-HTT	63	16	160	47	10	24	37	•
251-31742	HSK63AH160K18-HTT	63	18	160	50	10	24	36	•
251-31743	HSK63AH160K20-HTT	63	20	160	52	10	26	38	•

SHRINK FIT CHUCKS
HSK 63 DIN 69893 TIPO A







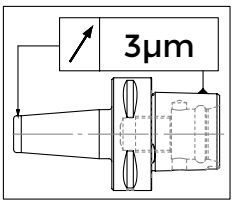
H= 0 > 100 mm - 3 µm
H= 100 >200 mm - 5 µm

DIN 69893A

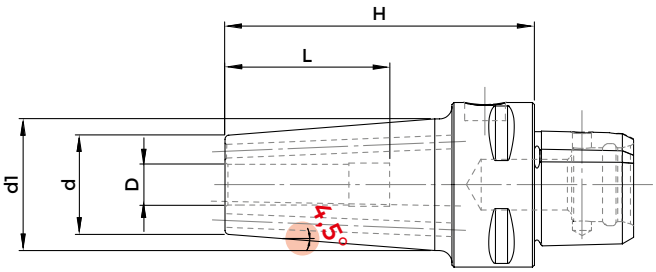
4,5° PROGRAM

COD.	DESCRIPTION	HSK	D	H	L	d1	d2	G2,5 25000
251-21735	HSK100AH85K06-HTT	100	6	85	36	21	27	•
251-21736	HSK100AH85K08-HTT	100	8	85	36	21	27	•
251-21737	HSK100AH90K10-HTT	100	10	90	42	24	32	•
251-21738	HSK100AH95K12-HTT	100	12	95	47	24	32	•
251-21739	HSK100AH95K14-HTT	100	14	95	47	27	34	•
251-21740	HSK100AH100K16-HTT	100	16	100	50	27	34	•
251-21742	HSK100AH100K20-HTT	100	20	100	52	33	42	•
251-21743	HSK100AH115K25-HTT	100	25	115	58	44	53	•
251-21799	HSK100AH120K32-HTT	100	32	120	63	44	53	•
251-21744	HSK100AH130K06-HTT	100	6	130	36	21	27	•
251-21745	HSK100AH130K08-HTT	100	8	130	36	21	27	•
251-21746	HSK100AH130K10-HTT	100	10	130	42	24	32	•
251-21747	HSK100AH130K12-HTT	100	12	130	47	24	32	•
251-21748	HSK100AH130K14-HTT	100	14	130	47	27	34	•
251-21749	HSK100AH130K16-HTT	100	16	130	50	27	34	•
251-21751	HSK100AH130K20-HTT	100	20	130	52	33	42	•

SHRINK FIT CHUCKS WITH RESEALABLE COOLANT DUCT HOLES POLYGONAL DIN 26623-1







H= 0 > 100 mm - 3 µm
H= 100 >200 mm - 5 µm

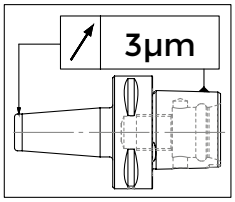
DIN ISO 26623-1

4,5° PROGRAM

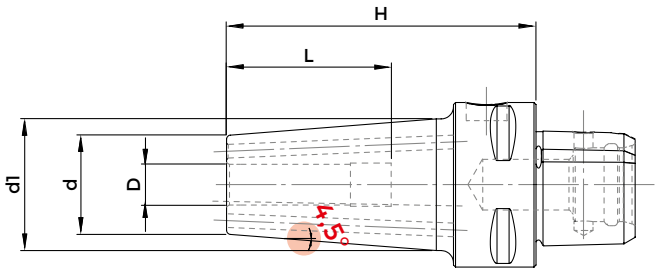
COD.	DESCRIPTION	POLYGONAL	D	H	L	d	d1	G2,5 25000
251-17621	C40H75K06-HTT- I.C.	C 40	6	75	36	20	27	•
251-17623	C40H75K08-HTT- I.C.	C 40	8	75	36	20	27	•
251-17625	C40H75K10-HTT- I.C.	C 40	10	75	42	24	32	•
251-17627	C40H75K12-HTT- I.C.	C 40	12	75	47	24	32	•
251-17622	C40H120K06-HTT- I.C.	C 40	6	120	36	20	27	•
251-17624	C40H120K08-HTT- I.C.	C 40	8	120	36	20	27	•
251-17626	C40H120K10-HTT- I.C.	C 40	10	120	42	24	32	•
251-17628	C40H120K12-HTT- I.C.	C 40	12	120	47	24	32	•
251-17629	C50H75K06-HTT- I.C.	C 50	6	75	36	20	27	•
251-17631	C50H75K08-HTT- I.C.	C 50	8	75	36	20	27	•
251-17633	C50H75K10-HTT- I.C.	C 50	10	75	42	24	32	•
251-17635	C50H75K12-HTT- I.C.	C 50	12	75	47	24	32	•
251-17637	C50H80K16-HTT- I.C.	C 50	16	80	50	27	34	•
251-17639	C50H85K20-HTT- I.C.	C 50	20	85	52	33	42	•
251-17630	C50H120K06-HTT- I.C.	C 50	6	120	36	20	27	•
251-17632	C50H120K08-HTT- I.C.	C 50	8	120	36	20	27	•
251-17634	C50H120K10-HTT- I.C.	C 50	10	120	42	24	32	•
251-17636	C50H120K12-HTT- I.C.	C 50	12	120	47	24	32	•
251-17638	C50H120K16-HTT- I.C.	C 50	16	120	50	27	34	•
251-17640	C50H120K20-HTT- I.C.	C 50	20	120	52	33	42	•
251-17641	C63H80K06-HTT- I.C.	C 63	6	80	36	20	27	•
251-17644	C63H80K08-HTT- I.C.	C 63	8	80	36	20	27	•
251-17647	C63H80K10-HTT- I.C.	C 63	10	80	40	24	32	•
251-17650	C63H80K12-HTT- I.C.	C 63	12	80	47	24	32	•
251-17653	C63H85K16-HTT- I.C.	C 63	16	85	50	27	34	•
251-17656	C63H85K20-HTT- I.C.	C 63	20	85	50	33	42	•
251-17642	C63H120K06-HTT- I.C.	C 63	6	120	36	20	27	•
251-17645	C63H120K08-HTT- I.C.	C 63	8	120	36	20	27	•
251-17648	C63H120K10-HTT- I.C.	C 63	10	120	40	24	32	•
251-17651	C63H120K12-HTT- I.C.	C 63	12	120	47	24	32	•
251-17654	C63H120K16-HTT- I.C.	C 63	16	120	50	27	34	•

follows >>

SHRINK FIT CHUCKS WITH RESEALABLE COOLANT DUCT HOLES POLYGONAL DIN 26623-1







H= 0 > 100 mm - 3 µm
H= 100 >200 mm - 5 µm

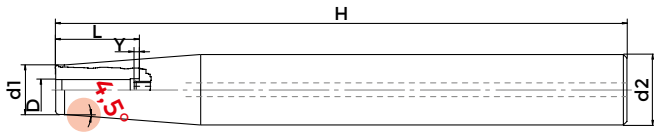
DIN ISO 26623-1

4,5° PROGRAM

COD.	DESCRIPTION	POLYGONAL	D	H	L	d	d1	G2,5 25000
251-17657	C63H120K20-HTT- I.C.	C 63	20	120	50	33	42	•
251-17643	C63H160K06-HTT- I.C.	C 63	6	160	36	20	27	•
251-17646	C63H160K08-HTT- I.C.	C 63	8	160	36	20	27	•
251-17649	C63H160K10-HTT- I.C.	C 63	10	160	40	24	32	•
251-17652	C63H160K12-HTT- I.C.	C 63	12	160	47	24	32	•
251-17655	C63H160K16-HTT- I.C.	C 63	16	160	50	27	34	•
251-17658	C63H160K20-HTT- I.C.	C 63	20	160	50	33	42	•
251-17659	C80H85K06-HTT- I.C.	C 80	6	85	36	20	27	•
251-17661	C80H85K08-HTT- I.C.	C 80	8	85	36	20	27	•
251-17663	C80H85K10-HTT- I.C.	C 80	10	85	42	24	32	•
251-17665	C80H85K12-HTT - I.C.	C 80	12	85	47	24	32	•
251-17667	C80H90K16-HTT- I.C.	C 80	16	90	50	27	34	•
251-17669	C80H90K20-HTT- I.C.	C 80	20	90	52	33	42	•
251-17660	C80H130K06-HTT- I.C.	C 80	6	130	36	20	27	•
251-17662	C80H130K08-HTT- I.C.	C 80	8	130	36	20	27	•
251-17664	C80H130K10-HTT- I.C.	C 80	10	130	42	24	32	•
251-17666	C80H130K12-HTT- I.C.	C 80	12	130	47	24	32	•
251-17668	C80H130K16-HTT- I.C.	C 80	16	130	50	27	34	•
251-17670	C80H130K20-HTT- I.C.	C 80	20	130	52	33	42	•

SHRINKING EXTENSIONS





COD.	DESCRIPTION	D	H	L	Y max	d1	d2
251-15110	D12H150K03-HTT	3	150	-	-	8	12
251-15111	D12H150K04-HTT	4	150	-	-	8	12
251-15133	D12H150K05-HTT	5	150	-	-	10	12
251-15134	D12H150K06-HTT	6	150	36	10	10	12
251-15112	D16H150K03-HTT	3	150	-	-	10	16
251-15113	D16H150K04-HTT	4	150	-	-	10	16
251-15114	D16H150K05-HTT	5	150	-	-	10	16
251-15115	D16H150K06-HTT	6	150	36	10	10	16
251-15139	D16H150K08-HTT	8	150	36	10	12	16
251-15140	D20H150K03-HTT	3	150	-	-	10	20
251-15141	D20H150K04-HTT	4	150	-	-	10	20
251-15117	D20H150K06-HTT	6	150	36	10	10	20
251-15118	D20H150K08-HTT	8	150	36	10	12	20
251-15145	D20H150K10-HTT	10	150	42	10	14	20
251-15146	D20H150K12-HTT	12	150	47	10	16	20
251-15149	D25H150K05-HTT	5	150	-	-	15	25
251-15150	D25H150K06-HTT	6	150	36	10	20	25
251-15120	D25H150K10-HTT	10	150	42	10	20	25
251-15121	D25H150K12-HTT	12	150	47	10	20	25
251-15122	D25H150K14-HTT	14	150	47	10	20	25
251-15123	D25H150K16-HTT	16	150	50	10	22	25



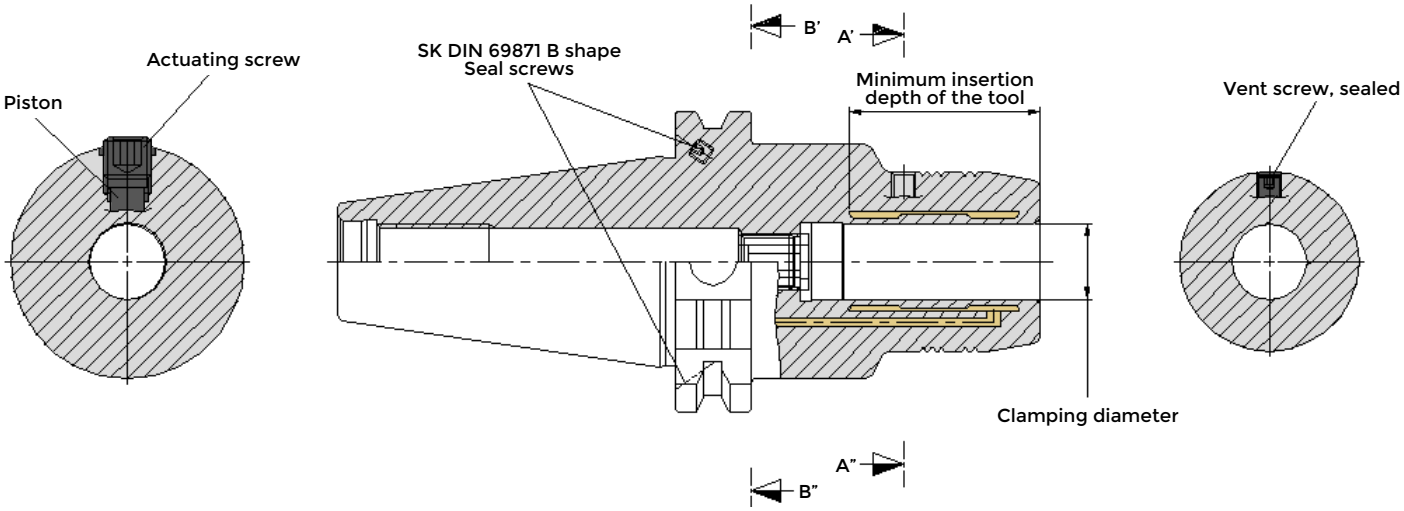
HYDRO-EXPANSION CHUCKS

FOR TOOLS WITH CYLYNDRICAL SHANK

OPERATING MANUAL FOR HIDRAULIC EXPANSION CHUCKS

SECTION B'-B"

SECTION A'-A"



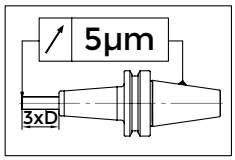
Please follow our operating instruction carefully to save time and avoid problems:

TECHNICAL INFORMATION TABLE					
CHUCK DIAMETER (HC)	DEPENDING ON THE MOUNTING SHANK (rpm)	MINIMUM CLAMPING LENGHT (mm)	OPERATING TEMPERATURE (°C)	MAX COOLANT PRESSURE (bar)	TORQUE (Nm)
HC6	40.000	27	20-50	80	8
HC8	40.000	27	20-50	80	15
HC10	40.000	32	20-50	80	30
HC12	40.000	37	20-50	80	45
HC14	40.000	37	20-50	80	75
HC16	40.000	42	20-50	80	120
HC18	40.000	42	20-50	80	170
HC20	40.000	42	20-50	80	230
HC25	25.000	48	20-50	80	300
HC32	25.000	55	20-50	80	400

· Insert tools with totally cylindrical shank only and with tolerance h6
· Do not directly insert Weldon or Whistle-Notch attachments but only with reduction sleeve
· Never clamp the hydraulic chuck loosely without inserting the tool first
· During the clamping phase, screw the clamping screw until the end stop
· If the chuck is subject to long periods of use, open and clamp again the mounted tool before reusing it

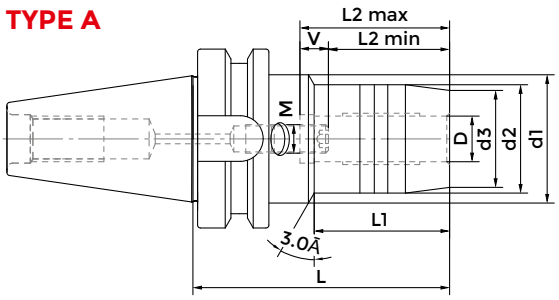
HYDRO-EXPANSION CHUCKS FOR TOOLS WITH CYLYNDRICAL SHANK



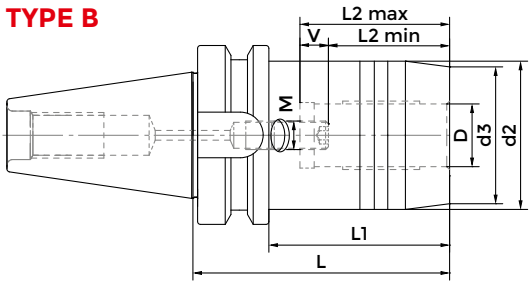


H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

TYPE A



TYPE B



MAS 403/BT AD

COD.	DESCRIPTION	ISO	D	d1	d2	d3	L	L1	L2 min	L2 max	V	M	TYPE	G2,5 20000
252-11467	BT30-HC3-70	30	3	45	24	21	70	30	-	24	-	-	A	•
252-11468	BT30-HC4-70	30	4	45	25	22	70	30	-	28	-	-	A	•
252-11470	BT30-HC6-70	30	6	45	28	25	70	28	27,5	37,5	10	M5x0,8	A	•
252-11471	BT30-HC8-70	30	8	45	30	27	70	28	27,5	37,5	10	M6x1	A	•
252-11472	BT30-HC10-75	30	10	45	32	29	75	38	32,5	42,5	10	M6x1	A	•
252-11473	BT30-HC12-75	30	12	45	34	31	75	36	37,5	47,5	10	M6x1	A	•
252-11474	BT30-HC14-85	30	14	45	36	33	85	44	37,5	47,5	10	M6x1	A	•
252-11419	BT30-HC16-90	30	16	45	38	35	90	48	42,5	52,5	10	M8x1	A	•
*252-11442	BT30-G20CS-85	30	20	-	44	40	85	63	42,5	52,5	10	M8x1	B	•
252-11421	BT30-HC20-90	30	20	-	43	40	90	68	42,5	52,5	10	M8x1	B	•
252-11422	BT40-HC6-90	40	6	50	28	25	90	44	27,5	37,5	10	M5x0,8	A	•
252-11423	BT40-HC8-90	40	8	50	30	27	90	39	27,5	37,5	10	M6x1	A	•
252-11424	BT40-HC10-90	40	10	50	32	29	90	44	32,5	42,5	10	M6x1	A	•
252-11425	BT40-HC12-90	40	12	50	34	31	90	44	37,5	47,5	10	M6x1	A	•
252-11426	BT40-HC14-90	40	14	50	36	33	90	44	37,5	47,5	10	M6x1	A	•
252-11427	BT40-HC16-90	40	16	50	38	35	90	48	42,5	52,5	10	M8x1	A	•
252-11428	BT40-HC18-90	40	18	50	41	38	90	48	42,5	52,5	10	M8x1	A	•
*252-11443	BT40-G20CS-72,5	40	20	-	49,5	40	72,5	45,5	42,5	52,5	10	M8x1	B	•
252-11429	BT40-HC20-90	40	20	50	43	40	90	48	42,5	52,5	10	M8x1	A	•
252-11482	BT40-HC20-140	40	20	50	43	40	140	48	42,5	52,5	10	M8x1	A	•
252-11483	BT40-HC25-100	40	25	-	57	53	100	73	51	61	10	M16x1	B	•
252-11485	BT40-HC32-105	40	32	-	63	58	105	-	55	65	10	M16x1	B	•
252-11433	BT50-HC8-90	50	8	50	30	27	90	32	27,5	37,5	10	M6x1	A	•
252-11434	BT50-HC10-90	50	10	50	32	29	90	32	32,5	42,5	10	M6x1	A	•
252-11435	BT50-HC12-90	50	12	50	34	31	90	32	37,5	47,5	10	M6x1	A	•
252-11436	BT50-HC14-90	50	14	50	36	33	90	32	37,5	47,5	10	M6x1	A	•
252-11437	BT50-HC16-90	50	16	50	38	35	90	32	42,5	52,5	10	M8x1	A	•
*252-11439	BT50-HC20-90	50	20	50	43	40	90	32	42,5	52,5	10	M8x1	A	•
252-11494	BT50-HC20-140	50	20	50	43	40	140	48	42,5	52,5	10	M8x1	A	•
252-11495	BT50-HC25-105	50	25	-	57	53	105	86	51	61	10	M16x1	A	•
252-11496	BT50-HC25-150	50	25	-	57	53	150	112	51	61	10	M16x1	B	•
252-11444	BT50-G32CS-90	50	32	-	72	60	90	52	55	65	10	M16x1	B	•
252-11497	BT50-HC32-115	50	32	-	63	58	115	77	55	65	10	M16x1	B	•

*Compact VERSION

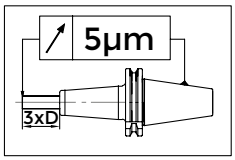
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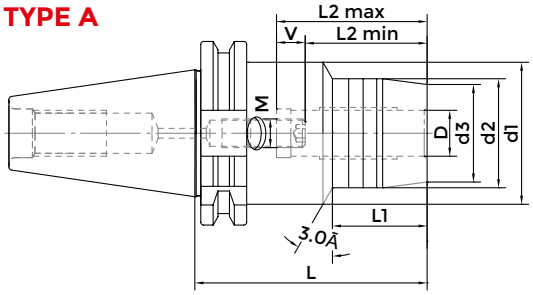
HYDRO-EXPANSION CHUCKS FOR TOOLS WITH CYLYNDRICAL SHANK



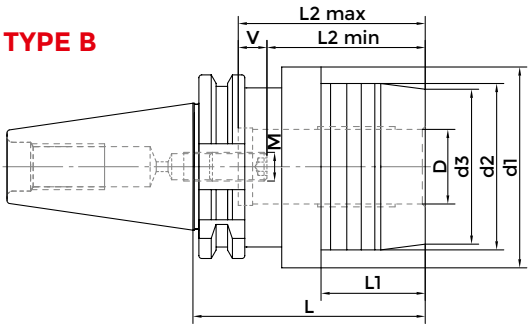


H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

TYPE A



TYPE B



DIN69871 AD

COD.	DESCRIPTION	ISO	D	d1	d2	d3	L	L1	L2 min	L2 max	V	M	TYPE	G2,5 20000
252-11305	TC40-HC6-80,5	40	6	50	28	25	80,5	44	27,5	37,5	10	M5x0,8	A	•
252-11307	TC40-HC8-80,5	40	8	50	30	27	80,5	44	27,5	37,5	10	M6x1	A	•
252-11308	TC40-HC8-110	40	8	50	30	27	110	44	27,5	37,5	10	M6x1	A	•
252-11309	TC40-HC10-80,5	40	10	50	32	29	80,5	44	32,5	42,5	10	M6x1	A	•
252-11310	TC40-HC10-110	40	10	50	32	29	110	44	32,5	42,5	10	M6x1	A	•
252-11311	TC40-HC12-80,5	40	12	50	34	31	80,5	44	37,5	47,5	10	M6x1	A	•
252-11312	TC40-HC12-110	40	12	50	34	31	110	44	37,5	47,5	10	M6x1	A	•
252-11327	TC40-HC14-80,5	40	14	50	36	33	80,5	44	37,5	47,5	10	M6x1	A	•
252-11313	TC40-HC16-80,5	40	16	50	38	35	80,5	48	42,5	52,5	10	M8x1	A	•
252-11314	TC40-HC16-110	40	16	50	38	35	110	48	42,5	52,5	10	M8x1	A	•
252-11328	TC40-HC18-80,5	40	18	50	41	38	80,5	30	42,5	52,5	10	M8x1	A	•
*252-11325	TC40-G20CS-64,5	40	20	-	49,5	40	64,5	45,5	42,5	52,5	10	M8x1	A	•
5150	TC40-G20CS-64,5 AD+B	40	20	-	49,5	40	64,5	45,5	42,5	52,5	10	M8x1	A	•
252-11315	TC40-HC20-80,5	40	20	50	43	40	80,5	48	42,5	52,5	10	M8x1	A	•
252-11316	TC40-HC20-110	40	20	50	43	40	110	48	42,5	52,5	10	M8x1	A	•
252-11317	TC40-HC25-80,5	40	25	66	57	53	80,5	26	51	61	10	M16x1	B	•
252-11318	TC40-HC32-80,5	40	32	80	63	60	80,5	26	55	65	10	M16x1	B	•
252-11348	TC50-HC6-90	50	6	50	28	25	90	44	27,5	37,5	10	M5x0,8	A	•
252-11350	TC50-HC8-90	50	8	50	30	27	90	44	27,5	37,5	10	M6x1	A	•
252-11352	TC50-HC10-90	50	10	50	32	29	90	44	32,5	42,5	10	M6x1	A	•
252-11354	TC50-HC12-90	50	12	50	34	31	90	44	37,5	47,5	10	M6x1	A	•
252-11356	TC50-HC14-90	50	14	50	36	33	90	47	37,5	47,5	10	M6x1	A	•
252-11358	TC50-HC16-90	50	16	50	38	35	90	48	42,5	52,5	10	M8x1	A	•
252-11360	TC50-HC18-90	50	18	50	41	38	90	48	42,5	52,5	10	M8x1	A	•
252-11362	TC50-HC20-90	50	20	50	43	40	90	48	42,5	52,5	10	M8x1	A	•
252-11363	TC50-HC20-140	50	20	50	43	40	140	48	42,5	52,5	10	M8x1	A	•
252-11364	TC50-HC25-105	50	25	-	57	53	105	86	51	61	10	M16x1	B	•
*252-11326	TC50-G32CS-81	50	32	-	72	60	81	62	55	65	10	M16x1	B	•
252-11366	TC50-HC32-115	50	32	-	63	58	115	96	55	65	10	M16x1	B	•
252-11367	TC50-HC32-140	50	32	-	63	58	140	121	55	65	10	M16x1	B	•

*Compact VERSION

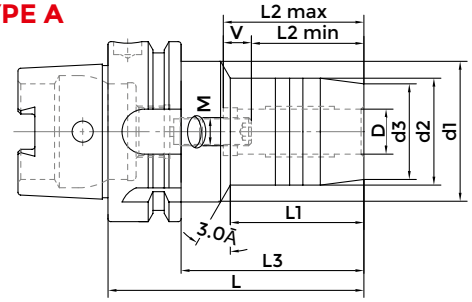
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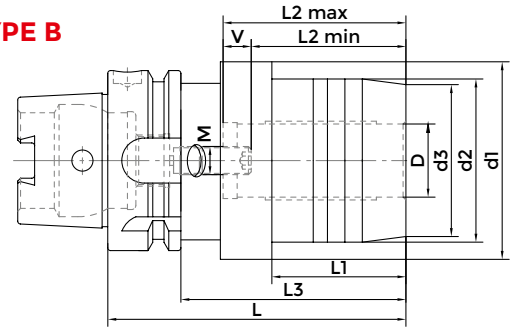
HYDRO-EXPANSION CHUCKS FOR TOOLS WITH CYLYNDRICAL SHANK

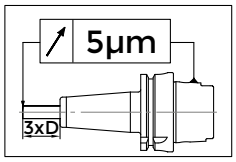


TYPE A



TYPE B





H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

DIN69893 A

COD.	DESCRIPTION	HSK	D	d1	d2	d3	L	L1	L3	L2 min	L2 max	V	M	TYPE	G2,5 20000
252-11759	HSK50A-HC6-70	50	6	40	28	25	70	28	44	27,5	37,5	10	M5x0,8	A	•
252-11760	HSK50A-HC8-70	50	8	40	30	27	70	28	44	27,5	37,5	10	M6x1	A	•
252-11761	HSK50A-HC10-80	50	10	40	32	29	80	34	54	32,5	42,5	10	M6x1	A	•
252-11762	HSK50A-HC12-85	50	12	40	34	31	85	44	59	37,5	47,5	10	M6x1	A	•
252-11766	HSK50A-HC20-90	50	20	-	42	40	90	-	64	42,5	52,5	10	M6x1	A	•
252-11737	HSK63A-HC6-70	63	6	50	28	25	70	24	44	27,5	37,5	10	M5x0,8	A	•
252-11738	HSK63A-HC8-70	63	8	50	30	27	70	24	44	27,5	37,5	10	M6x1	A	•
252-11739	HSK63A-HC10-80	63	10	50	32	29	80	35	54	32,5	42,5	10	M6x1	A	•
252-11740	HSK63A-HC12-85	63	12	50	34	31	85	40	59	37,5	47,5	10	M6x1	A	•
252-11741	HSK63A-HC14-85	63	14	50	36	33	85	40	59	37,5	47,5	10	M6x1	A	•
252-11742	HSK63A-HC16-90	63	16	50	38	35	90	46	64	42,5	52,5	10	M8x1	A	•
*252-11744	HSK63A-HC20-90	63	20	50	43	40	90	48	64	42,5	52,5	10	M8x1	A	•
252-21718	HSK63A-HC20-150	63	20	50	43	40	150	108	124	42,5	52,5	10	M8x1	-	•
252-21719	HSK63A-HC20-200	63	20	50	43	40	200	108	174	42,5	52,5	10	M8x1	-	•
252-11745	HSK63A-HC25-120	63	25	63	57	53	120	59	94	51	61	10	M16x1	B	•
252-11746	HSK63A-HC32-125	63	32	75	63	58	125	63	99	55	65	10	M16x1	B	•
252-11767	HSK100A-HC6-75	100	6	54	28	25	75	26	46	27,5	37,5	10	M5x0,8	A	•
252-11768	HSK100A-HC8-75	100	8	54	30	27	75	26	46	27,5	37,5	10	M6x1	A	•
252-11769	HSK100A-HC10-90	100	10	50	32	29	90	42	61	32,5	42,5	10	M6x1	A	•
252-11770	HSK100A-HC12-95	100	12	50	34	31	95	47	66	37,5	47,5	10	M6x1	A	•
252-11772	HSK100A-HC16-100	100	16	50	38	35	100	53	71	42,5	52,5	10	M8x1	A	•
252-11774	HSK100A-HC20-105	100	20	50	43	40	105	59	76	42,5	52,5	10	M8x1	A	•
252-11775	HSK100A-HC25-110	100	25	63	57	53	110	62	81	51	61	10	M8x1	A	•
252-11776	HSK100A-HC32-110	100	32	75	63	58	110	62	81	55	65	10	M8x1	A	•

*Compact VERSION

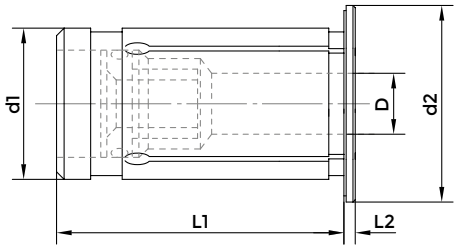
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SEALED CYLINDRICAL COLLETS



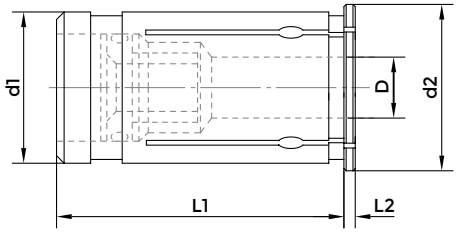


TYPE	d1	d2	L1	L2	D nole size
0520	12	16,5	45	2	2.5;3;4;5;6;7;8;*9;*10
0521	20	24	50.5	2	3;4;5;6;7;8;9;10;11;12;13;14; 15;16;*17;*18
0676	25	29	54,5	2	6;7;8;9;1010;11;12;13;14;15; 16;17;18;19;20;*21;*22
0522	32	35,5	60.5	2	4;5;6;7;8;9;10;11;12; 13;14;15; 16;17;18;19;20;21;22;23;24; 25;*26;*27;*28

* OVERSIZE diameters - for the construction characteristics, do not use of high pressure

COLLETS FOR HYDRAULIC CHUCKS





TYPE	d1	d2	L1	L2	D nole size
GX12D...	12	16	44,5	2	3;4;5;6;8;
GX20D...	20	24	50.5	2	3;4;5;6;8;10;12;14;16
GX32D...	32	36	60.5	3	6;8;10;12;14;16;18;20;25

HYDRAULIC KIT

COD.	COMPOSITION
KIT BT30 G20	N°1 BT30 H85 G20-WO + n°5 collets GX20: Ø6,8,10,12,16
KIT BT40 G20	N°1 BT40 H72,5 G20-WO + n°5 collets GX20: Ø6,8,10,12,16
KIT BT40 G32	N°1 BT40 H105 G32-WO + n°7 collets GX32: Ø10,12,14,16,18,20,25
KIT TC40 G20	N°1 TC40 H64,5 G20-WO + n°5 collets GX20: Ø6,8,10,12,16
KIT TC40 G32	N°1 TC40 H80,5 G32-WO + n°7 collets GX32: Ø10,12,14,16,18,20,25
KIT BT50 G20	N°1 BT50 H90 G20-WO + n°5 collets GX20: Ø6,8,10,12,16
KIT BT50 G32	N°1 BT50 H90 G32-WO + n°7 collets GX32: Ø10,12,14,16,18,20,25
KIT TC50 G20	N°1 TC50 H90 G20-WO + n°5 collets GX20: Ø6,8,10,12,16
KIT TC50 G32	N°1 TC50 H81 G32-WO + n°7 collets GX32: Ø10,12,14,16,18,20,25
KIT HSK63A G20	N°1 HSK63A H90 G20 + n°5 collets GX20: Ø6,8,10,12,16
KIT HSK63A G32	N°1 HSK63A H125 G32 + n°7 collets GX32: Ø10,12,14,16,18,20,25
KIT HSK100 G20	N°1 HSK100 H105 G20 + n°5 collets GX20: Ø6,8,10,12,16
KIT HSK100 G32	N°1 HSK100 H110 G32 + n°7 collets GX32: Ø10,12,14,16,18,20,25

Kit Box:
- 1 hydraulic chuck
- 1 collets kit
- 1 wrench



HYDRO POWER LINE

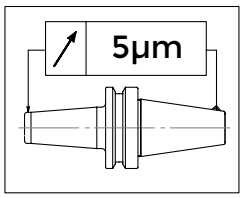


A NEW HYDRAULIC CHUCK TECHNOLOGY FOR HIGH PRECISION AND EXCELLENT MACHINING QUALITY

Thanks to a modern mixture of conventional steel body and sintered-processed material, we introduce you to the new **HYDRO POWER LINE** of chucks.

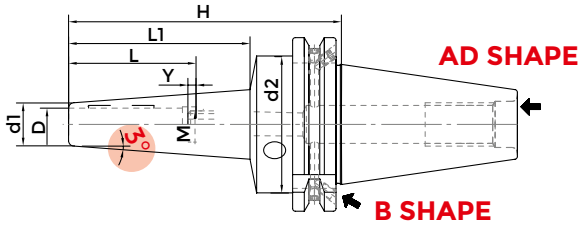
Main advantages:
- Thermal performances till 120 ° C and the clamping force increases under the influence of temperature.
- Suitable solution for Drilling, Reaming and also Milling!
- Ideal for machining in contour-critical areas, slim 3° version as for shrink
- High torque transmission
- Long tool life and easy tool change
- Exceptional radial runout <3µ
- No investment for additional equipment , no risk of burning for operator or damaging the holder because of wring cooling.

HYDRO-EXPANSION CHUCKS FOR TOOLS WITH CYLINDRICAL SHANK



H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm



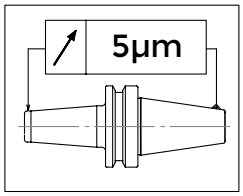


DIN69871

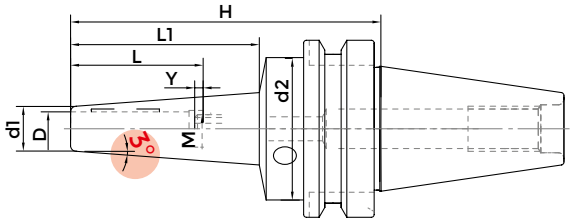
3° PROGRAMME HYDRO SLIM LINE

COD.	DESCRIPTION	ISO	D	H	L	Y max	d1	d2	L1	M	SW	G2,5 25000
252-11368	TC40H120D03-HPL	40	3	120	28	16	9	49,5	80	M2,5	1,3	•
252-11369	TC40H120D04-HPL	40	4	120	28	12	10	49,5	80	M2,5	1,3	•
252-11371	TC40H120D06-HPL	40	6	120	37	10	12	49,5	80	M5	2,5	•
252-11379	TC40H160D06-HPL	40	6	160	37	10	16	49,5	119	M5	2,5	•
252-11380	TC40H200D06-HPL	40	6	200	37	10	16	49,5	161	M5	2,5	•
252-11372	TC40H120D08-HPL	40	8	120	37	10	14	49,5	80	M6	3	•
252-11381	TC40H160D08-HPL	40	8	160	37	10	18	49,5	120	M6	3	•
252-11373	TC40H120D10-HPL	40	10	120	41	10	16	49,5	81	M8x1	3	•
252-11383	TC40H160D10-HPL	40	10	160	41	10	20	49,5	121	M8x1	3	•
252-11374	TC40H120D12-HPL	40	12	120	46	10	18	49,5	82	M10x1	5	•
252-11385	TC40H160D12-HPL	40	12	160	46	10	22	49,5	122	M10x1	5	•
252-11376	TC40H120D16-HPL	40	16	120	49	10	24	49,5	79	M12x1	5	•

HYDRO-EXPANSION CHUCKS FOR TOOLS WITH CYLYNDRICAL SHANK





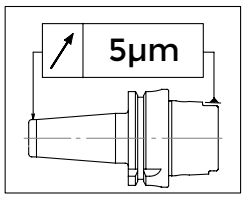


H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

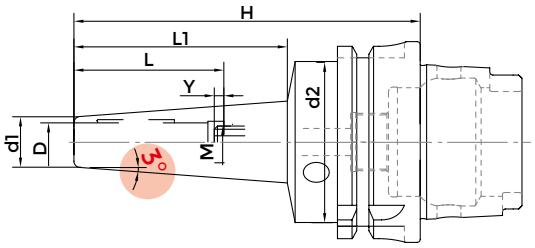
MAS BT

3° PROGRAMME HYDRO SLIM LINE

COD.	DESCRIPTION	ISO	D	H	L	Y max	d1	d2	L1	M	SW	G2,5 25000
252-21401	BT40H120D03-HPL	40	3	120	28	16	9	49,5	72	M2,5	1,3	•
252-21402	BT40H120D04-HPL	40	4	120	28	12	10	49,5	72	M2,5	1,3	•
252-21404	BT40H120D06-HPL	40	6	120	37	10	12	49,5	72	M5	2,5	•
252-21412	BT40H160D06-HPL	40	6	160	37	10	16	49,5	111	M5	2,5	•
252-21405	BT40H120D08-HPL	40	8	120	37	10	14	49,5	72	M6	3	•
252-21406	BT40H120D10-HPL	40	10	120	41	10	16	49,5	73	M8x1	3	•
252-21407	BT40H120D12-HPL	40	12	120	46	10	18	49,5	74	M10x1	5	•
252-21411	BT40H120D20-HPL	40	20	120	51	10	28	49,5	72	M16x1	5	•







H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

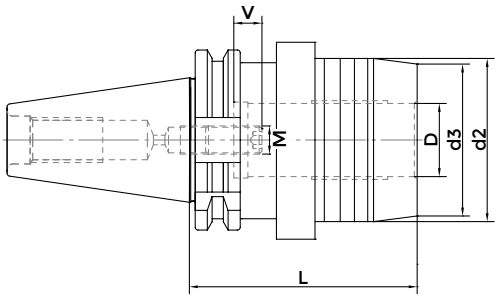
DIN69893A

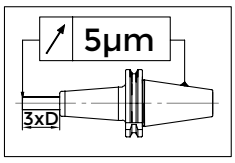
3° PROGRAMME HYDRO SLIM LINE

COD.	DESCRIPTION	HSK	D	H	L	Y max	d1	d2	L1	M	SW	G2,5 25000
252-21720	HSK63AH120D03-HPL	63	3	120	28	16	9	50	73	M2,5	1,3	•
252-21721	HSK63AH120D04-HPL	63	4	120	28	12	10	50	73	M2,5	1,3	•
252-21723	HSK63AH120D06-HPL	63	6	120	37	10	12	50	73	M5	2,5	•
252-21738	HSK63AH160D06-HPL	63	6	160	37	10	16	50	111	M5	2,5	•
252-21724	HSK63AH120D08-HPL	63	8	120	37	10	14	50	74	M6	3	•
252-21754	HSK63AH160D08-HPL	63	8	160	37	10	18	50	111	M6	3	•
252-21725	HSK63AH120D10-HPL	63	10	120	41	10	16	50	74	M8x1	3	•
252-21757	HSK63AH160D10-HPL	63	10	160	41	10	20	50	113	M8x1	3	•
252-21726	HSK63AH120D12-HPL	63	12	120	46	10	18	50	75	M10x1	5	•
252-21760	HSK63AH160D12-HPL	63	12	160	46	10	22	50	113	M10x1	5	•
252-21727	HSK63AH120D14-HPL	63	14	120	46	10	22	50	71	M10x1	5	•
252-21728	HSK63AH120D16-HPL	63	16	120	49	10	24	50	72	M12x1	5	•
252-21729	HSK63AH120D18-HPL	63	18	120	49	10	26	50	72	M12x1	5	•
252-21730	HSK63AH120D20-HPL	63	20	120	51	10	28	50	72	M16x1	5	•

HYDRO-EXPANSION CHUCKS FOR TOOLS WITH CYLYNDRICAL SHANK HIGH CLAMPING FORCE





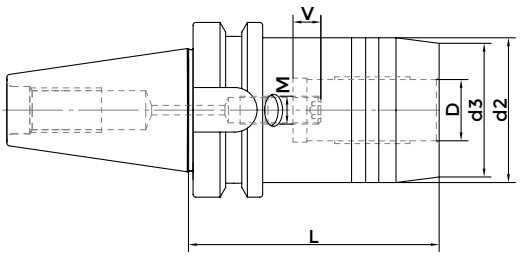


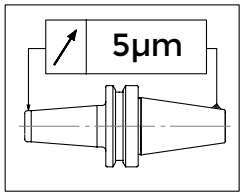
H= 0 > 100 mm - 5 µm

DIN 69871

COD.	DESCRIPTION	ISO	D	d2	d3	L	V	M	G2.5 25000
252-11388	TC40-HC12-50 EHG	40	12	42	32	50	10	M8X1	•
252-11389	TC40-HC20-64,5 EHG	40	20	49,3	39,3	64,5	10	M8X1	•
252-11390	TC50-HC20-64,5 EHG	50	20	43,3	39,3	64,5	10	M8X1	•
252-11391	TC50-HC32-81 EHG	50	32	72	58,5	81	10	M8X1	•





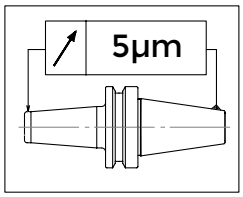


H= 0 > 100 mm - 5 µm

MAS 403/BT - JIS-B 6339

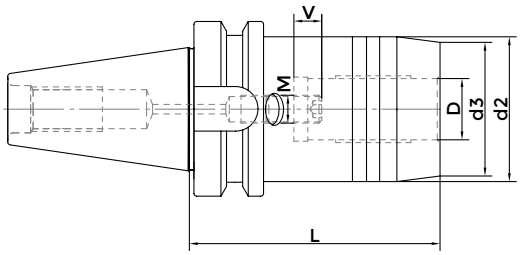
COD.	DESCRIPTION	ISO	D	d2	d3	L	V	M	G2.5 25000
252-17101	BT30-HC12-69 EHG DK	30	12	42	32	69	10	M8X1	•
252-17102	BT30-HC20-90 EHG DK	30	20	42	38	90	10	M8X1	•
252-17103	BT40-HC12-58 EHG DK	40	12	42	32	58	10	M8X1	•
252-17104	BT40-HC20-72,5 EHG DK	40	20	49,3	38	72,5	10	M8X1	•

HYDRO-EXPANSION CHUCKS FOR TOOLS WITH CYLYNDRICAL SHANK HIGH CLAMPING FORCE



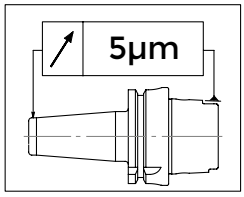
H= 0 > 100 mm - 5 µm





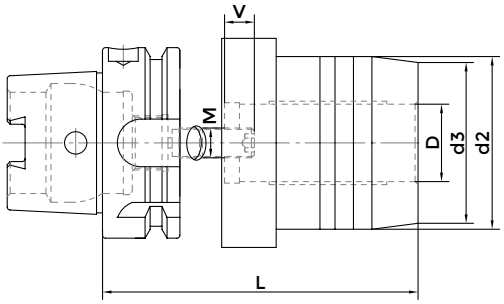
MAS 403/BT

COD.	DESCRIPTION	ISO	D	d2	d3	L	V	M	G2.5 25000
252-11538	BT30-HC12-69 EHG	30	12	42	32	69	10	M8X1	•
252-11539	BT30-HC20-90 EHG	30	20	42	38	90	10	M8X1	•
252-21420	BT40-HC12-58 EHG AD+B	40	12	42	32	58	10	M8X1	•
252-21421	BT40-HC20-72,5 EHG AD+B	40	20	49,3	39,3	72,5	10	M8X1	•
252-21423	BT50-HC20-83,5 EHG AD+B	50	20	49,3	39,3	83,5	10	M8X1	•
252-21422	BT50-HC32-90 EHG AD+B	50	32	72	58,5	90	10	M8X1	•



H= 0 > 100 mm - 5 µm





DIN 69893 A+C

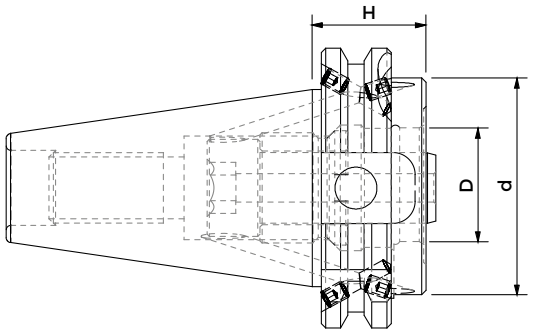
COD.	DESCRIPTION	ISO	D	d2	d3	L	V	M	G2.5 25000
252-21797	HSK63A-HC12-80 EHG	63	12	42	32	80	10	M8X1	•
252-21798	HSK63A-HC20-80 EHG	63	20	52,5	38	80	10	M8X1	•
252-21799	HSK100A-HC20-90 EHG	100	20	52,5	38	90	10	M8X1	•
252-31701	HSK100A-HC32-100 EHG	100	32	72	58,5	100	10	M8X1	•



VAR.
MODULAR SYSTEM

BASE TAPER SHANKS



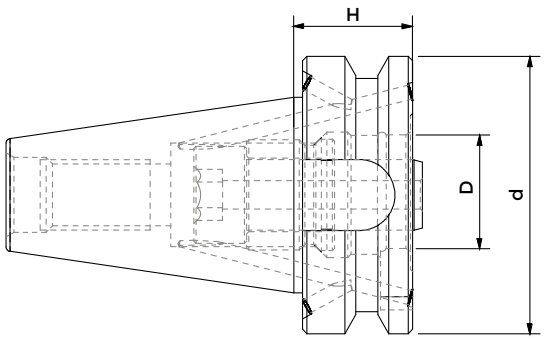


DIN 69871 AD

COD.	DESCRIPTION	ISO	H	d	D
280-11301	TC40H27VAR50	40	27	50	27
280-11302	TC40H27VAR63	40	27	63	32
280-11303	TC40H50VAR50	40	50	50	27
280-11304	TC40H50VAR63	40	50	63	32
280-11305	TC50H27VAR50	50	27	50	27
280-11306	TC50H27VAR63	50	27	63	32
280-11307	TC50H27VAR80	50	27	80	32
280-11308	TC50H50VAR50	50	50	50	27
280-11309	TC50H50VAR63	50	50	63	32
280-11310	TC50H50VAR80	50	50	80	32

BASE TAPER SHANKS



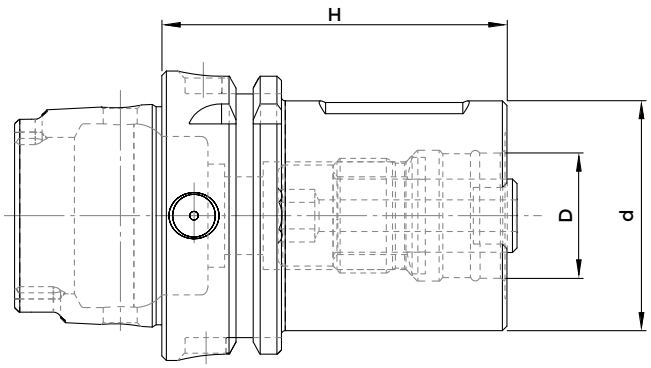


MAS 403/BT

COD.	DESCRIPTION	ISO	H	d	D
280-11401	BT40H27VAR50	40	27	50	27
280-11402	BT40H27VAR63	40	27	63	32
280-11403	BT40H50VAR50	40	50	50	27
280-11404	BT40H50VAR63	40	50	63	32
280-11405	BT50H38VAR50	50	38	50	27
280-11406	BT50H50VAR50	50	50	50	27
280-11407	BT50H50VAR63	50	50	63	32
280-11408	BT50H50VAR80	50	50	80	32

BASE TAPER SHANKS



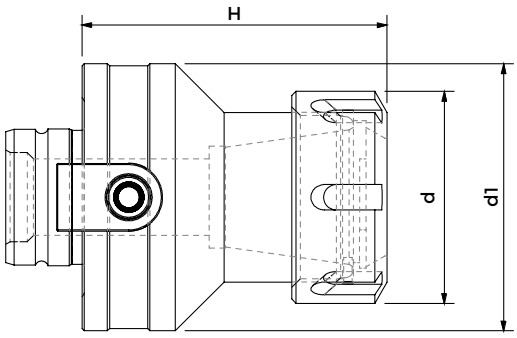


DIN 69893 HSK A

COD.	DESCRIPTION	HSK	H	d	D
280-11801	HSK63AH75VAR50	63	75	50	27
280-11802	HSK63AH85VAR63	63	85	63	32
280-11803	HSK100H80VAR50	100	80	50	27
280-11804	HSK100H90VAR63	100	90	63	32
280-11805	HSK100H90VAR80	100	90	80	32

ER COLLET CHUCK ADAPTERS



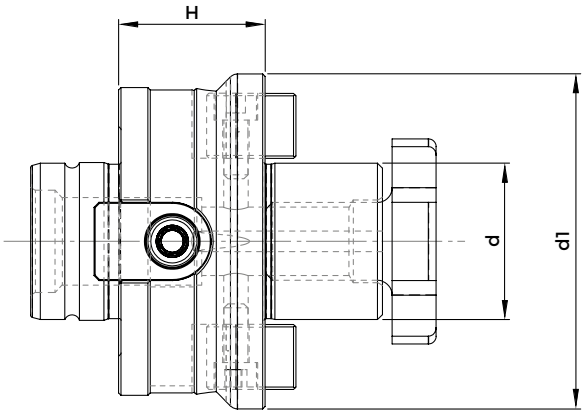


DIN 6469

COD.	DESCRIPTION	H	d	d1
284-36331	VAR50H63ER20	63	35	50
284-36332	VAR50H63ER25	63	42	50
284-36333	VAR50H65ER32	65	50	50
284-36334	VAR63H77ER32	77	50	63
284-36335	VAR63H86ER40	86	63	63
284-36336	VAR80H90ER40	90	63	63

MILL HOLDERS - TENONS DRIVE ADAPTERS

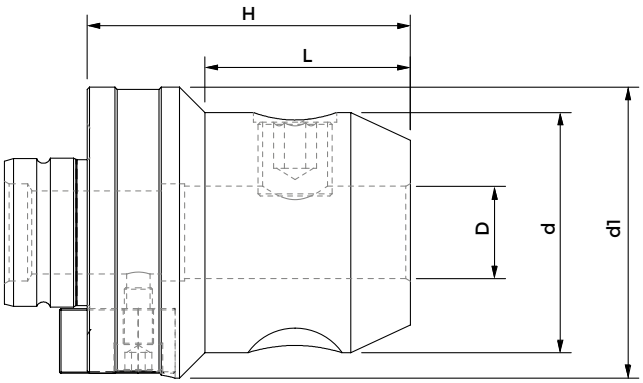




COD.	DESCRIPTION	d1	H	d
217-90601	VAR50H30D16	50	30	16
217-90602	VAR50H20D22	50	20	22
217-90603	VAR50H20D27	50	20	27
217-90604	VAR50H25D32	50	25	32
217-90605	VAR63H30D22	63	30	22
217-90606	VAR63H30D27	63	30	27
217-90607	VAR63H30D32	63	30	32
217-90608	VAR63H30D40	63	30	40
217-90609	VAR80H30D27	80	30	27
217-90610	VAR80H30D32	80	30	32
217-90612	VAR80H30D40	80	30	40

WELDON END MILL HOLDERS ADAPTERS



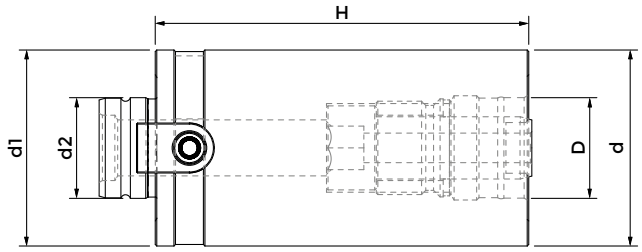


DIN 1835 B

COD.	DESCRIPTION	D	H	d	d1	L
217-90321	VAR50H50WE06	6	50	25	50	25
217-90322	VAR50H50WE08	8	50	28	50	25
217-90323	VAR50H50WE10	10	50	38	50	28
217-90324	VAR50H60WE12	12	60	42	50	36
217-90325	VAR50H60WE14	14	60	44	50	37
217-90326	VAR50H60WE16	16	60	48	50	39
217-90327	VAR50H60WE18	18	60	50	50	45
217-90328	VAR50H60WE20	20	62	52	50	47
217-90329	VAR50H80WE25	25	80	65	50	66
217-90330	VAR63H70WE10	10	70	35	63	36
217-90331	VAR63H70WE12	12	70	42	63	39,5
217-90332	VAR63H70WE14	14	70	44	63	40,5
217-90333	VAR63H70WE16	16	70	48	63	42,5
217-90334	VAR63H70WE18	18	70	50	63	43,5
217-90335	VAR63H70WE20	20	70	52	63	44,5
217-90336	VAR63H80WE25	25	80	62	63	59,5
217-90337	VAR63H80WE32	32	80	63	63	64,5
217-90338	VAR63H90WE40	40	90	80	63	70
217-90339	VAR80H70WE16	16	70	48	80	32
217-90340	VAR80H70WE20	20	70	52	80	34
217-90341	VAR80H80WE25	25	80	65	80	50,5
217-90342	VAR80H80WE32	32	80	72	80	54
217-90343	VAR80H90WE40	40	90	79	80	67,5

EXTENSIONS

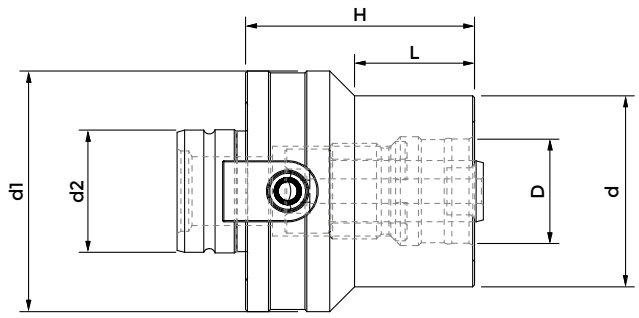




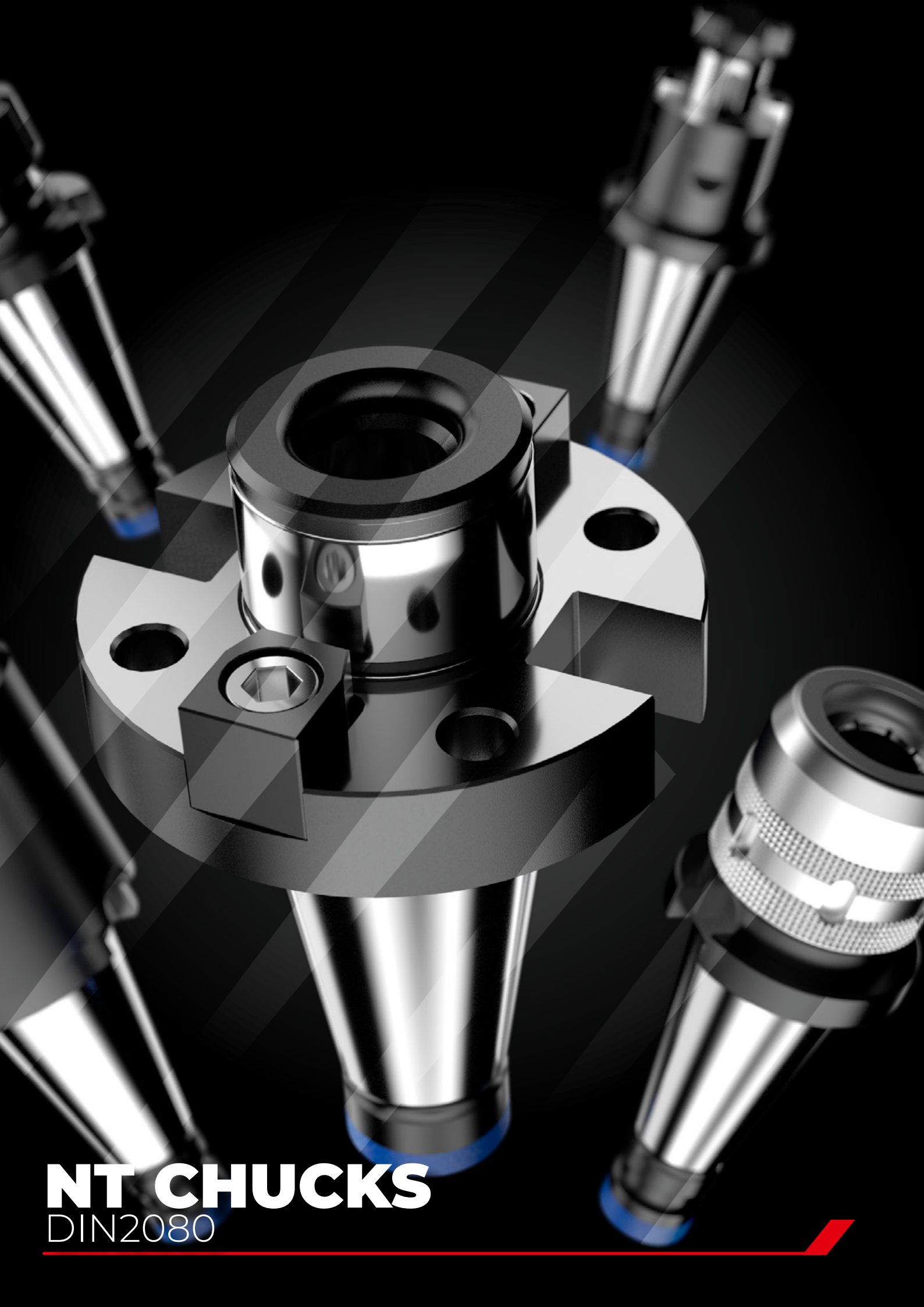
COD.	DESCRIPTION	d	H	D	d1	d2
281-26401	VAR50H60VAR50	50	60	27	50	27
281-26402	VAR50H80VAR50	50	80	27	50	27
281-26403	VAR50H100VAR50	50	100	27	50	27
281-26404	VAR63H80VAR63	63	80	32	63	32
281-26405	VAR63H120VAR63	63	120	32	63	32
281-26406	VAR80H80VAR80	80	80	32	80	32
281-26407	VAR80H100VAR80	80	100	32	80	32
281-26408	VAR80H120VAR80	80	120	32	80	32
281-26409	VAR80H140VAR80	80	140	32	80	32
281-26410	VAR80H160VAR80	80	160	32	80	32

REDUCERS



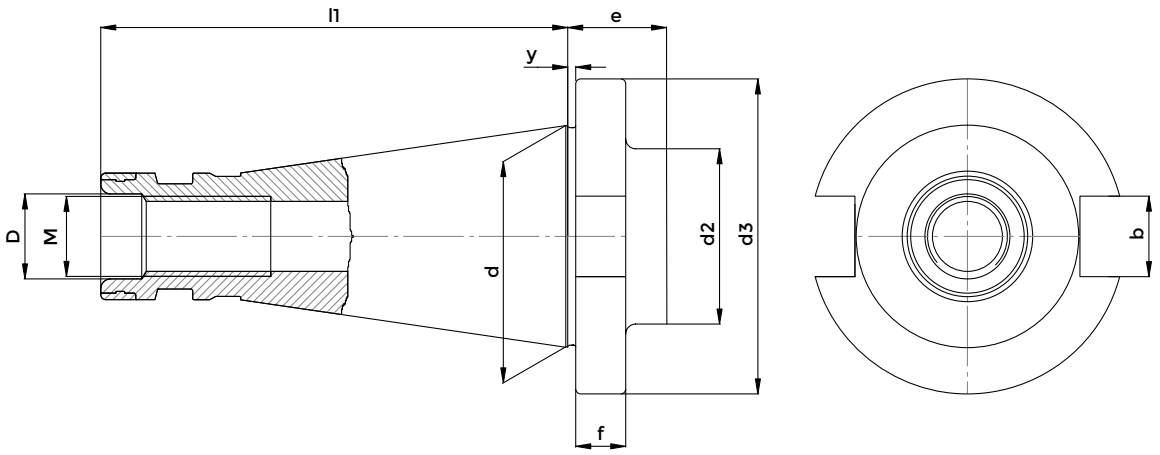


COD.	DESCRIPTION	d1	H	L	d	d2	D
217-90214	VAR63H60VAR50	63	60	31,5	50	32	27
217-90215	VAR80H80VAR63	80	80	49,5	63	32	32



NT CHUCKS
DIN2080

TAPER SHANKS
DATA SHEET



DIN2080

ISO	d	l1	D	M	y	d2	f	d3	e	b
30	31,75	68,4	13	M12	1,6	36	8	50	18,6	16,1
40	44,45	93,4	17	M16	1,6	50	10	63	22,6	16,1
50	69,85	126,8	26	M24	3,2	78	12	97,5	31,2	25,7

TECHNICAL FEATURES
KINTEK ISO TOOLHOLDERS

All Kintek Toolholders are manufactured according to DIN norm.

COLLET CHUCK RUNOUT ACCURACY

The norm DIN6391 permits a runout error between external cone and internal cone / collet seat of 0.016. Our production has a runout accuracy which is guaranteed to be within 0,003 / 0,010 m at the tool seat.

SHELL END MILL ADAPTOR RUNOUT ACCURACY

Our shell end mill adaptors meet the requirements of the norm DIN6358, which prescribes for diameters 16-22-27-32-40 a runout accuracy of: 0, 01 for SK 30/40 0,015 for SK 50.

WELDON END MILL HOLDER RUNOUT ACCURACY

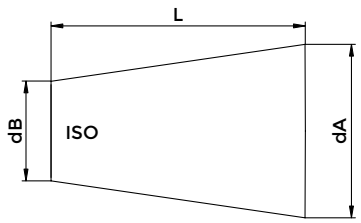
According to the norm DIN6359-1 Weldon end mill holders have to meet the following requirements:
BORE: tolleranza H5
RUNOUT ACCURACY: < 0.01 (for SK 40)
Our end mill adaptors ensure the prescribed holes' tolerance and have a runout accuracy which is normally 0.005

CONSTRUCTIVE FEATURES

- Manufactured with Casehardening Steel.
- Casehardened with depth 0,6 - 0,8 mm
- Hardened-Tempered
- Hardness HRC 58+-2, Strength 800-1000 N/mm^2
- Black oxided
- Internal and external grinding finished.

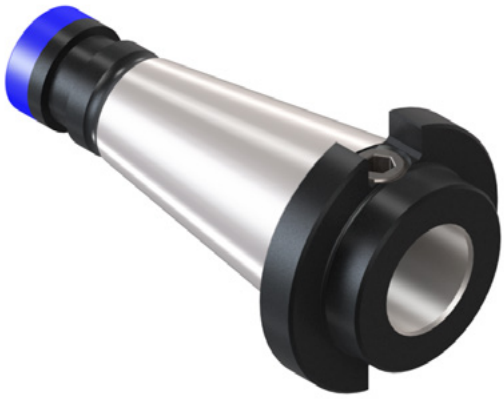
CONE TOLERANCE

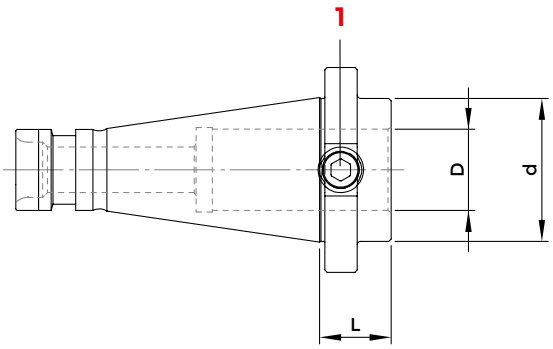
ACCORDING TO THE CLASS AT3.



ISO	L	dA-dB	AT3
30	42	12.250	+0.002
40	59	17.208	+0.003
50	92	26.833	+0.004

SHORT TYPE END MILL HOLDERS



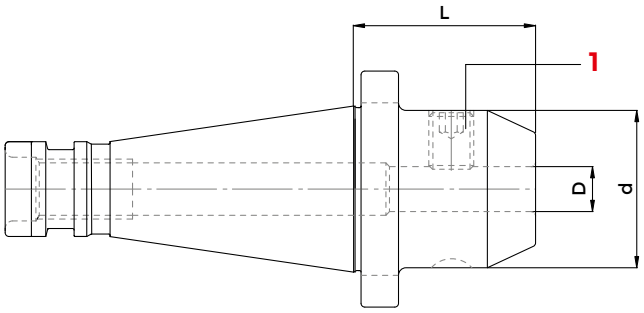


DIN 2080 - DIN 1835 B

COD.	DESCRIPTION	ISO	D	L	d	G6,3 8000	1 STOP SCREW
3090	ISO 40 - WE 16 / H 22	40	16	22	48	•	0068
3091	ISO 40 - WE 20 / H 22	40	20	22	48	•	0070
3092	ISO 40 - WE 25 / H 22	40	25	22	48	•	0073
3109	ISO 40 - WE 32 / H 40	40	32	40	44	•	0074
3093	ISO 50 - WE 16 / H 20	50	16	20	48	•	0400
3094	ISO 50 - WE 20 / H 20	50	20	20	48	•	4975
3095	ISO 50 - WE 25 / H 20	50	25	20	65	•	0075
3096	ISO 50 - WE 32 / H 35	50	32	35	72	•	4977

WELDON END MILL HOLDERS



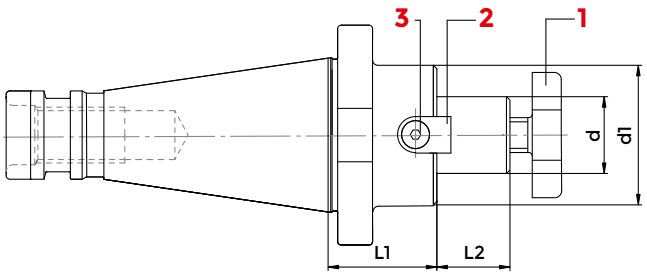


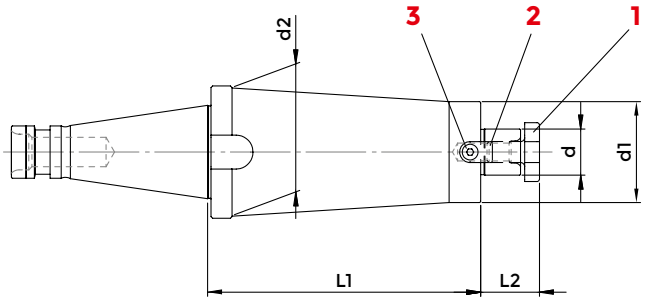
DIN 2080 - DIN 1835 B

COD.	DESCRIPTION	ISO	D	L	d	G6,3 8000	1 STOP SCREW
							
4442	ISO 30 - WE 6 / H 40	30	6	40	25	•	4970
4443	ISO 30 - WE 8 / H 40	30	8	40	28	•	4971
4444	ISO 30 - WE 10 / H 40	30	10	40	35	•	4972
4445	ISO 30 - WE 12 / H 40	30	12	40	42	•	4973
4447	ISO 30 - WE 16 / H 50	30	16	50	48	•	4974
4449	ISO 30 - WE 20 / H 63	30	20	63	52	•	4975
4450	ISO 30 - WE 25 / H 75	30	25	75	65	•	4976
3647	ISO 40 - WE 6 / H 50	40	6	50	25	•	4970
3648	ISO 40 - WE 8 / H 50	40	8	50	28	•	4971
3649	ISO 40 - WE 10 / H 50	40	10	50	35	•	4972
3650	ISO 40 - WE 12 / H 50	40	12	50	42	•	4973
3610	ISO 40 - WE 14 / H 50	40	14	50	44	•	4973
3651	ISO 40 - WE 16 / H 63	40	16	63	48	•	4974
3652	ISO 40 - WE 20 / H 63	40	20	63	52	•	4975
3653	ISO 40 - WE 25 / H 90	40	25	90	64	•	4976
3654	ISO 40 - WE 32 / H 90	40	32	90	72	•	4977
3312	ISO 40 - WE 40 / H 90	40	40	90	80	•	4977
3655	ISO 50 - WE 6 / H 50	50	6	50	25	•	4970
3656	ISO 50 - WE 8 / H 50	50	8	50	28	•	4971
3657	ISO 50 - WE 10 / H 63	50	10	63	35	•	4972
3658	ISO 50 - WE 12 / H 63	50	12	63	42	•	4973
3659	ISO 50 - WE 16 / H 63	50	16	63	48	•	4974
3660	ISO 50 - WE 20 / H 63	50	20	63	52	•	4975
3661	ISO 50 - WE 25 / H 80	50	25	80	64	•	4976
3662	ISO 50 - WE 32 / H 85	50	32	85	72	•	4977
3663	ISO 50 - WE 40 / H 95	50	40	95	78	•	4977

FACE MILL HOLDERS
TENONS DRIVE







DIN 2080 - ISO 3937

									1	2	3	
COD.	DESCRIPTION	ISO	d	L1	L2	d1	d2	G6,3 8000	CROSS SCREW	TENON	SCREW	WRENCH
												
5498	ISO 30 - D.13 FISSO / H 35	30	13	35	12	28	-	•	0482	7433	0201	-
4200	ISO 30 - D.16 FISSO / H 35	30	16	35	17	38	-	•	4985	7421	0255	4562
4201	ISO 30 - D.22 FISSO / H 35	30	22	35	19	48	-	•	4986	7427	0256	4563
4202	ISO 30 - D.27 FISSO / H 35	30	27	35	21	58	-	•	4987	7428	7414	4564
5500	ISO 40 - D.16 FISSO / H 45	40	16	45	17	38	-	•	4985	7421	0255	4562
9800	ISO 40 - D.16 FISSO / H 100	40	16	100	17	38	-	•	4985	7421	0255	4562
5501	ISO 40 - D.16 FISSO / H 130	40	16	130	17	38	-	•	4985	7421	0255	4562
5502	ISO 40 - D.22 FISSO / H 45	40	22	45	19	48	-	•	4986	7427	0256	4563
9801	ISO 40 - D.22 FISSO / H 100	40	22	100	19	48	-	•	4986	7427	0256	4563
5503	ISO 40 - D.22 FISSO / H 130	40	22	130	19	48	61	•	4986	7427	0256	4563
5504	ISO 40 - D.27 FISSO / H 45	40	27	45	21	58	-	•	4987	7428	7414	4564
9802	ISO 40 - D.27 FISSO / H 100	40	27	100	21	58	-	•	4987	7428	7414	4564
5505	ISO 40 - D.27 FISSO / H 130	40	27	130	21	58	-	•	4987	7428	7414	4564
5506	ISO 40 - D.32 FISSO / H 50	40	32	50	24	78	-	•	4988	7429	0099	4565
9803	ISO 40 - D.32 FISSO / H 100	40	32	100	24	66	-	•	4988	7439	0207	4565
5507	ISO 40 - D.32 FISSO / H 130	40	32	130	24	66	-	•	4988	7439	0207	4565
5508	ISO 40 - D.40 FISSO / H 55	40	40	55	27	88	-	•	4989	7430	0099	4566
5509	ISO 50 - D.16 FISSO / H 45	50	16	45	17	38	-	•	4985	7421	0255	4562
9805	ISO 50 - D.16 FISSO / H 100	50	16	100	17	38	-	•	4985	7421	0255	4562
5510	ISO 50 - D.16 FISSO / H 160	50	16	160	17	38	-	•	4985	7421	0255	4562
5511	ISO 50 - D.22 FISSO / H 45	50	22	45	19	48	-	•	4986	7427	0256	4563
9806	ISO 50 - D.22 FISSO / H 100	50	22	100	19	48	-	•	4986	7427	0256	4563
5512	ISO 50 - D.22 FISSO / H 160	50	27	160	19	48	-	•	4986	7427	0256	4563
5513	ISO 50 - D.27 FISSO / H 45	50	27	45	21	58	-	•	4987	7428	7414	4564
9807	ISO 50 - D.27 FISSO / H 100	50	27	100	21	58	-	•	4987	7428	7414	4564
5514	ISO 50 - D.27 FISSO / H 160	50	27	160	21	58	-	•	4987	7428	7414	4564
5515	ISO 50 - D.32 FISSO / H 50	50	32	50	24	78	-	•	4988	7429	0099	4565
9808	ISO 50 - D.32 FISSO / H 100	50	32	100	24	66	-	•	4988	7439	0207	4565
5516	ISO 50 - D.32 FISSO / H 160	50	32	160	24	66	-	•	4988	7439	0207	4565
5517	ISO 50 - D.40 FISSO / H 50	50	40	50	40	88	-	•	4989	7430	0099	4566
9809	ISO 50 - D.40 FISSO / H 100	50	40	100	40	88	-	•	4989	7430	0099	4566
5518	ISO 50 - D.40 FISSO / H 160	50	40	160	40	88	-	•	4989	7430	0099	4566

ACCESSORIES

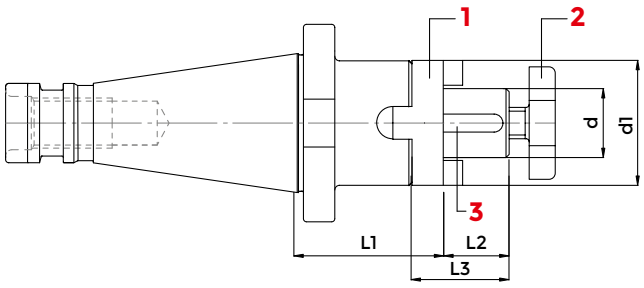
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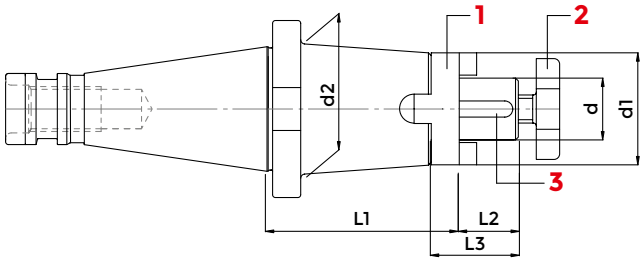
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COMBI-SHELL MILL HOLDERS







DIN 2080 - DIN 6358

										1	2	3	
COD.	DESCRIPTION	ISO	d	L1	L2	L3	d1	d2	G6,3 8000	COUPLING RING	CROSS SCREW	KEY	WRENCH
													
3878	ISO 30 - D.16 COMBI / H 35	30	16	35	17	27	32	-	•	4090	4985	0115	4562
3879	ISO 30 - D.22 COMBI / H 35	30	22	35	19	31	40	-	•	4091	4986	0116	4563
3880	ISO 30 - D.27 COMBI / H 35	30	27	35	21	33	48	-	•	4092	4987	0122	4564
3881	ISO 30 - D.32 COMBI / H 50	30	32	50	24	38	58	-	•	4093	4988	0125	4565
3817	ISO 40 - D.16 COMBI / H 52	40	16	52	17	27	32	-	•	4090	4985	0115	4562
4189	ISO 40 - D.16 COMBI / H 100	40	16	100	17	27	32	40	•	4090	4985	0115	4562
3818	ISO 40 - D.22 COMBI / H 52	40	22	52	19	31	40	-	•	4091	4986	0116	4563
4190	ISO 40 - D.22 COMBI / H 100	40	22	100	19	31	40	44	•	4091	4986	0116	4563
3819	ISO 40 - D.27 COMBI / H 52	40	27	52	21	33	48	-	•	4092	4987	0122	4564
4191	ISO 40 - D.27 COMBI / H 100	40	27	100	21	33	48	-	•	4092	4987	0122	4564
3820	ISO 40 - D.32 COMBI / H 52	40	32	52	24	38	58	-	•	4093	4988	0125	4565
4192	ISO 40 - D.32 COMBI / H 100	40	32	100	24	38	58	-	•	4093	4988	0125	4565
3821	ISO 40 - D.40 COMBI / H 52	40	40	52	27	41	70	-	•	4094	4989	0133	4566
3822	ISO 50 - D.16 COMBI / H 55	50	16	55	17	27	32	-	•	4090	4985	0115	4562
4194	ISO 50 - D.16 COMBI / H 100	50	16	100	17	27	32	50	•	4090	4985	0115	4562
3823	ISO 50 - D.22 COMBI / H 55	50	22	55	19	31	40	-	•	4091	4986	0116	4563
4195	ISO 50 - D.22 COMBI / H 100	50	22	100	19	31	40	60	•	4091	4986	0116	4563
3824	ISO 50 - D.27 COMBI / H 55	50	27	55	21	33	48	-	•	4092	4987	0122	4564
4196	ISO 50 - D.27 COMBI / H 100	50	27	100	21	33	48	60	•	4092	4987	0122	4564
3825	ISO 50 - D.32 COMBI / H 55	50	32	55	24	38	58	-	•	4093	4988	0125	4565
4197	ISO 50 - D.32 COMBI / H 100	50	32	100	24	38	58	-	•	4093	4988	0125	4565
3826	ISO 50 - D.40 COMBI / H 55	50	40	55	27	41	70	-	•	4094	4989	0133	4566
4198	ISO 50 - D.40 COMBI / H 100	50	40	100	27	41	70	-	•	4094	4989	0133	4566

ACCESSORIES

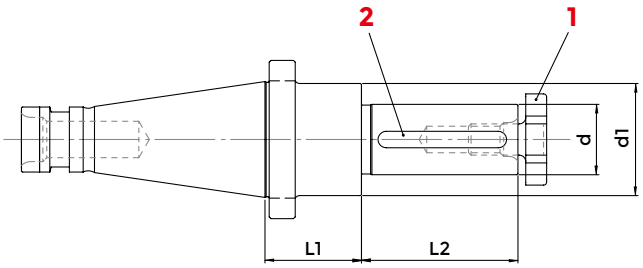
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MILL HOLDERS WITH FEATHER KEY





DIN 2080 - DIN 6360

								1	2	
COD.	DESCRIPTION	ISO	d	L1	L2	d1	G6,3 8000	CROSS SCREW	KEY	WRENCH
										
0134	ISO 30 - D.16 CHT	30	16	35	30	28	•	4985	0147	4562
0135	ISO 30 - D.22 CHT	30	22	35	40	36	•	4986	0148	4563
0136	ISO 30 - D.27 CHT	30	27	35	60	43	•	4987	0149	4564
4205	ISO 40 - D.16 CHT	40	16	37	30	28	•	4985	0147	4562
4207	ISO 40 - D.22 CHT	40	22	37	40	36	•	4986	0148	4563
4209	ISO 40 - D.27 CHT	40	27	37	60	43	•	4987	0149	4564
4211	ISO 40 - D.32 CHT	40	32	37	60	48	•	4988	0150	4565
4222	ISO 50 - D.40 CHT	50	40	40	60	58	•	4989	0151	4566

ACCESSORIES

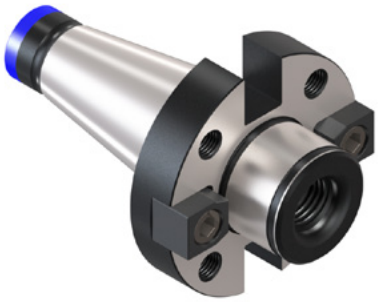


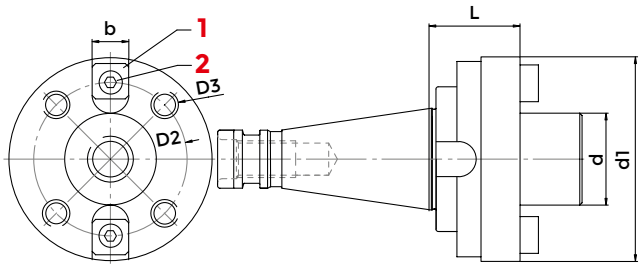
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FACE MILL HOLDER FOR FACE MILLING CUTTERS





DIN 2080 - DIN 6357

										1	2	
COD.	DESCRIPTION	ISO	d	L	d1	D2	D3	b	G6,3 8000	CROSS SCREW	SCREW	TENON
												
4223	ISO 40 - D. 40 FM	40	40	20	89	66,7	M 12	15,9	•	4989	0207	0210
4225	ISO 40 - D. 60 FM	40	60	30	129	101,6	M 16	25,4	•	-	0407	0211
4226	ISO 50 - D. 40 FM	50	40	30	89	66,7	M 12	15,9	•	4989	0207	0210
4228	ISO 50 - D. 60 FM	50	60	30	129	101,6	M 16	25,4	•	-	0407	0211

ACCESSORIES

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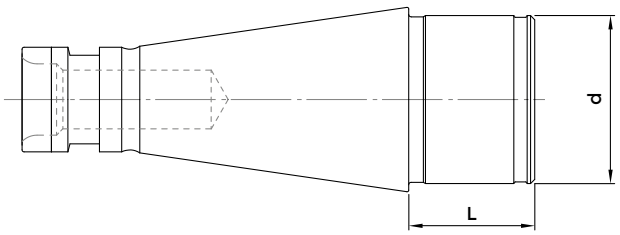


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CENTERING DEVICE FOR INSERTS MILLING CUTTERS



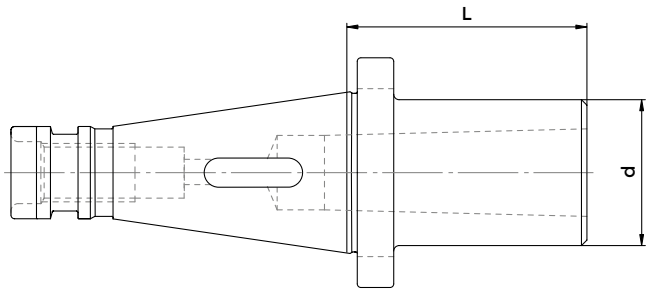


DIN 2080

COD.	DESCRIPTION	ISO	d	L	G6,3 8000
4012	ISO 40 - D. 40 CF	40	40	29	•
4025	ISO 50 - D. 60 CF	50	60	39	•

INDEXABLE MORSE TAPER DRILL HOLDERS



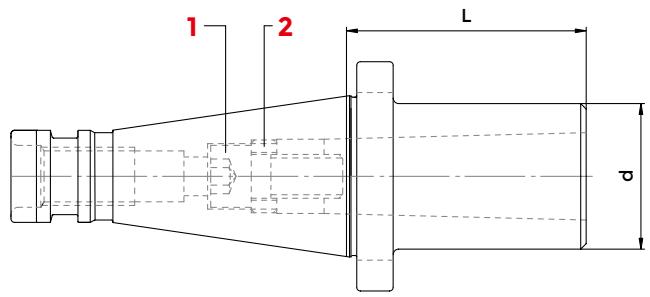


DIN 2080

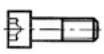
COD.	DESCRIPTION	ISO	MORSE	d	L	G6,3 8000
8517	ISO 30 - CM 1 PUNTE	30	1	25	60	•
3873	ISO 30 - CM 2 PUNTE	30	2	32	60	•
3874	ISO 30 - CM 3 PUNTE	30	3	40	70	•
8518	ISO 40 - CM 1 PUNTE	40	1	25	50	•
8520	ISO 40 - CM 2 PUNTE	40	2	32	50	•
3614	ISO 40 - CM 3 PUNTE	40	3	40	65	•
3615	ISO 40 - CM 4 PUNTE	40	4	48	95	•
8523	ISO 50 - CM 1 PUNTE	50	1	25	45	•
8525	ISO 50 - CM 2 PUNTE	50	2	32	60	•
8527	ISO 50 - CM 3 PUNTE	50	3	40	65	•
3619	ISO 50 - CM 4 PUNTE	50	4	48	70	•
3620	ISO 50 - CM 5 PUNTE	50	5	63	100	•

END MILL HOLDERS FOR MORSE TAPER CUTTERS

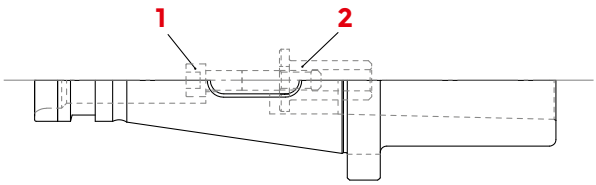


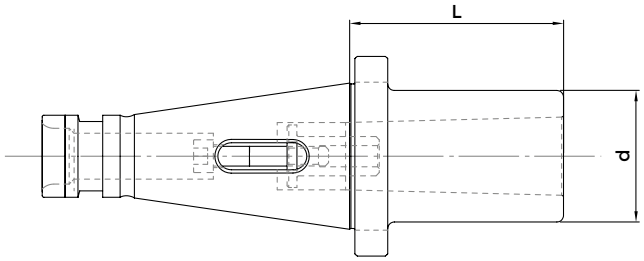


DIN 2080

							1	2	
COD.	DESCRIPTION	ISO	MORSE	d	L	G6,3 8000	SCREW	LEFT NUT	WRENCH
									
3876	ISO 30 - CM 2 FRESE	30	2	32	60	•	7448	7422	4569
3877	ISO 30 - CM 3 FRESE	30	3	40	80	•	7402	7423	4570
3622	ISO 40 - CM 2 FRESE	40	2	32	50	•	7448	7422	4569
3623	ISO 40 - CM 3 FRESE	40	3	40	65	•	7403	7423	4570
3624	ISO 40 - CM 4 FRESE	40	4	48	95	•	7404	7424	4571
3626	ISO 50 - CM 2 FRESE	50	2	32	60	•	7448	7422	4569
3627	ISO 50 - CM 3 FRESE	50	3	40	65	•	7403	7423	4570
3628	ISO 50 - CM 4 FRESE	50	4	48	65	•	7407	7424	4571
3629	ISO 50 - CM 5 FRESE	50	5	63	120	•	7408	7425	4572

COMBI MORSE TAPER HOLDERS FOR DRILLS AND MILLING CUTTERS

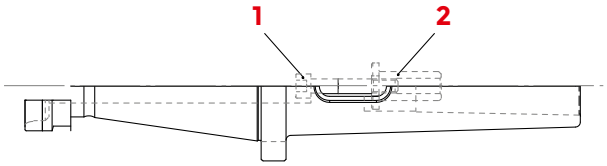


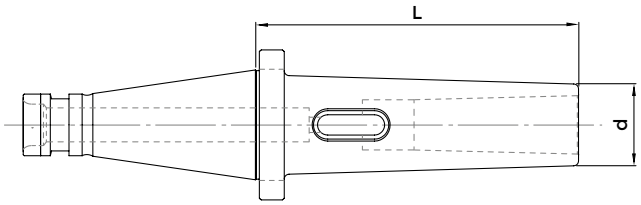


DIN 2080

							1	2
COD.	DESCRIPTION	ISO	MORSE	d	L	G6,3 8000	SCREW	REDUCER
								
3612	ISO 40 - CM 1 P + F	40	1	25	50	•	7400	-
3613	ISO 40 - CM 2 P + F	40	2	32	50	•	7401	-
8532	ISO 40 - CM 3 P + F	40	3	40	65	•	7400	0130
3616	ISO 50 - CM 1 P + F	50	1	25	45	•	7400	-
3617	ISO 50 - CM 2 P + F	50	2	32	60	•	7405	-
3618	ISO 50 - CM 3 P + F	50	3	40	65	•	7406	-
8533	ISO 50 - CM 4 P + F	50	4	48	70	•	7409	-

COMBI MORSE TAPER HOLDERS FOR DRILLS AND MILLING CUTTERS - LONG TYPE



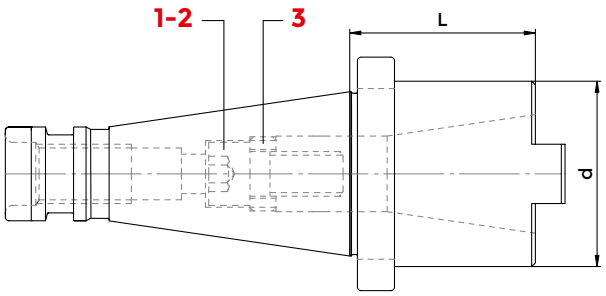


DIN 2080

								1	2
COD. DRILLS	COD. DRILLS + MILLING CUTTERS	DESCRIPTION	ISO	MORSE	d	L	G6,3 8000	SCREW	REDUCER
									
8521	3545	ISO 40 - CM 2	40	2	25	110	•	7401	-
8522	3546	ISO 40 - CM 3	40	3	33	130	•	7400	0130
3548	-	ISO 40 - CM 4	40	4	40	150	•	-	-
8528	3787	ISO 50 - CM 3	50	3	33	150	•	0040	-
8529	3788	ISO 50 - CM 4	50	4	40	180	•	0042	-
8530	-	ISO 50 - CM 5	50	5	55	220	•	-	-

ADAPTER FROM NT TO NT/SK/BT



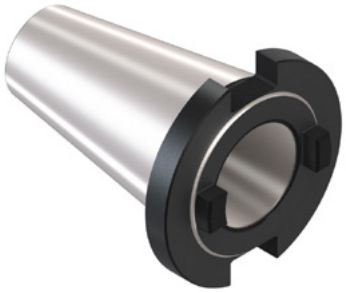


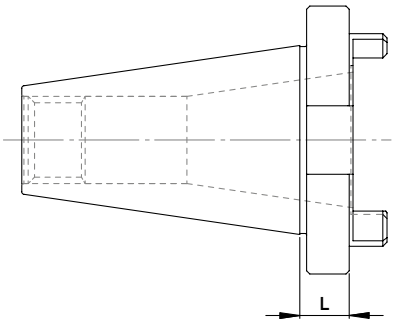
DIN 2080 - DIN 6357

							1	2	3	
COD.	DESCRIPTION	ISO	ISO	d	L	G6,3 8000	SCREW DIN 2080	SCREW BT DIN 69871	NUT	WRENCH
										
4235	ISO 40 - ISO 30 / TC 30 / BT 30	40	30	50	50	•	* 7410	* 0177	* 7423	4570
4237	ISO 50 - ISO 40 / TC 40 / BT 40	50	40	68	63	•	* 7411	* 0179	* 7424	4571

* included in the supply

ADAPTER/REDUCERS FROM NT TO NT



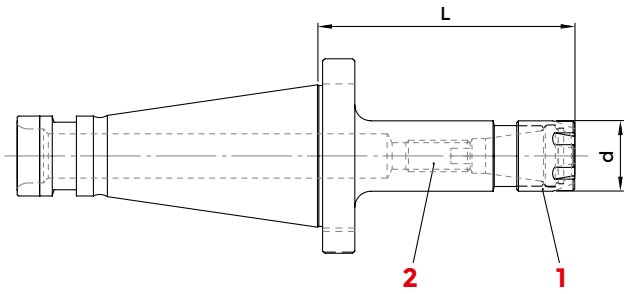


DIN 2080

COD.	DESCRIPTION	ISO	ISO	L	G6,3 8000
8828	ISO 40 - IP 30	40	30	12	•
8829	ISO 50 - IP 40	50	40	16	•

ER COLLET CHUCK WITH MINI NUT





DIN 2080

							1	2		
COD.	DESCRIPTION	ISO	ER	d	L	G6,3 8000	NUT	SCREW	WRENCH	COLLET
										
2957	ISO 30 - ER16 GM	30	ER 16 1÷12	22	70	•	1229	0183	5719	364
2959	ISO 40 - ER16 GM	40	ER 16 1÷12	22	80	•	1229	0186	5719	364
2960	ISO 40 - ER20 GM	40	ER 20 1÷15	28	90	•	1230	4973	5720	787

ACCESSORIES

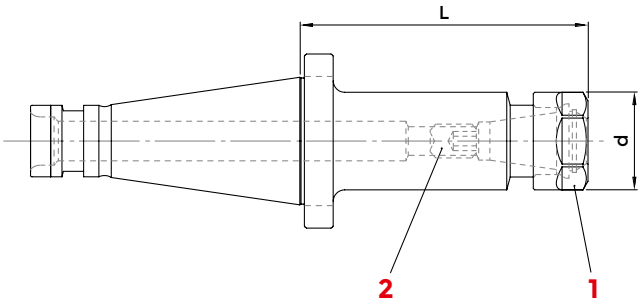
p. 632 

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ER COLLET CHUCK WITH HEXAGONAL NUT





DIN 2080

							1	2		
COD.	DESCRIPTION	ISO	ER	d	L	G6,3 8000	NUT	SCREW	WRENCH	COLLET
										
8333	ISO 30 - ER 20 GE / H 50	30	ER 20 1÷15	34	50	•	1215	0183	2907	787
8334	ISO 40 - ER 16 GE / H 50	40	ER 16 1÷12	28	50	•	1214	0186	2906	364
8335	ISO 40 - ER 16 GE / H100	40	ER 16 1÷12	28	100	•	1214	0186	2906	364
8336	ISO 40 - ER 20 GE / H 50	40	ER 20 1÷15	34	50	•	1215	4973	2907	787
8337	ISO 40 - ER 20 GE / H100	40	ER 20 1÷15	34	100	•	1215	4973	2907	787

ACCESSORIES

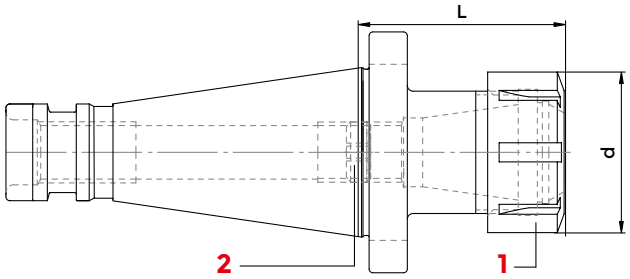
p. 633 

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ER COLLET CHUCKS





DIN 2080 - DIN 6499 / ISO 15488

							1	2		
COD.	DESCRIPTION	ISO	ER	d	L	G6,3 8000	NUT	SCREW	WRENCH	COLLET
2944	ISO 30 - ER 16 / H 50	30	ER 16 1÷12	32	50	•	4993	0183	3698	0364
2945	ISO 30 - ER 20 / H 50	30	ER 20 1÷15	35	50	•	4994	0183	3699	0787
2927	ISO 30 - ER 25 / H 40	30	ER 25 1÷20	42	40	•	4995	0190	3669	0996
2946	ISO 30 - ER 25 / H 75	30	ER 25 1÷20	42	75	•	4995	0190	3669	0996
2928	ISO 30 - ER 32 / H 50	30	ER 32 2÷25	50	50	•	4996	0191	3670	0988
3986	ISO 30 - ER 32 / H 70	30	ER 32 2÷25	50	70	•	4996	0191	3670	0988
3988	ISO 30 - ER 32 / H 100	30	ER 32 2÷25	50	100	•	4996	0191	3670	0988
3543	ISO 30 - ER 40 / H 75	30	ER 40 3÷32	63	75	•	4997	0191	3671	0821
3990	ISO 30 - ER 40 / H 100	30	ER 40 3÷32	63	100	•	4997	0191	3671	0821
2949	ISO 40 - ER 16 / H 50	40	ER 16 1÷12	32	50	•	4993	0186	3698	0364
3941	ISO 40 - ER 16 / H 100	40	ER 16 1÷12	32	100	•	4993	0186	3698	0364
2950	ISO 40 - ER 20 / H 50	40	ER 20 1÷15	35	50	•	4994	4973	3699	0787
2796	ISO 40 - ER 20 / H 100	40	ER 20 1÷15	35	100	•	4994	4973	3699	0787
2941	ISO 40 - ER 25 / H 50	40	ER 25 1÷20	42	50	•	4995	0190	3669	0996
2685	ISO 40 - ER 25 / H 100	40	ER 25 1÷20	42	100	•	4995	0190	3669	0996
2929	ISO 40 - ER 32 / H 50	40	ER 32 2÷25	50	50	•	4996	0191	3670	0988
2951	ISO 40 - ER 32 / H 70	40	ER 32 2÷25	50	70	•	4996	0191	3670	0988
2464	ISO 40 - ER 32 / H 100	40	ER 32 2÷25	50	100	•	4996	0191	3670	0988
2827	ISO 40 - ER 32 / H 130	40	ER 32 2÷25	50	130	•	4996	0191	3670	0988
2952	ISO 40 - ER 32 / H 160	40	ER 32 2÷25	50	160	•	4996	0191	3670	0988
2930	ISO 40 - ER 40 / H 50	40	ER 40 3÷32	63	50	•	4997	0195	3671	0821
2462	ISO 40 - ER 40 / H 70	40	ER 40 3÷32	63	70	•	4997	0195	3671	0821
2992	ISO 40 - ER 40 / H 100	40	ER 40 3÷32	63	100	•	4997	0195	3671	0821
2953	ISO 40 - ER 50 / H 100	40	ER 50 6÷36	78	100	•	4998	0195	3668	4055
2830	ISO 50 - ER 25 / H 65	50	ER 25 1÷20	42	65	•	4995	0190	3669	0996
2831	ISO 50 - ER 25 / H 100	50	ER 25 1÷20	42	100	•	4995	0190	3669	0996
2885	ISO 50 - ER 25 / H 140	50	ER 25 1÷20	42	140	•	4995	0190	3669	0996
2954	ISO 50 - ER 32 / H 70	50	ER 32 2÷25	50	70	•	4996	0191	3670	0988
2955	ISO 50 - ER 32 / H 100	50	ER 32 2÷25	50	100	•	4996	0191	3670	0988
2832	ISO 50 - ER 32 / H 140	50	ER 32 2÷25	50	140	•	4996	0191	3670	0988
2931	ISO 50 - ER 40 / H 75	50	ER 40 3÷32	63	75	•	4997	0195	3671	0821
2458	ISO 50 - ER 40 / H 100	50	ER 40 3÷32	63	100	•	4997	0195	3671	0821
2833	ISO 50 - ER 40 / H 140	50	ER 40 3÷32	63	140	•	4997	0195	3671	0821
2932	ISO 50 - ER 50 / H 70	50	ER 50 6÷36	78	70	•	4998	0195	3668	4055

ACCESSORIES

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EQUIPMENT CASE WITH REDUCED SET OF ER COLLETS, COLLET CHUCK AND WRENCH



COD.	DESCRIPTION	ISO	CHUCK	CASE	WRENCH	COLLET
7516	KIT Rid ISO 30/ H 40 - ER 25	30	2927	7022	3669	0996: Ø 4 - 6 - 8 -10 -12 -16
7517	KIT Rid ISO 30/ H 50 - ER 32	30	2928	7023	3670	0988: Ø 4 - 6 - 8 -10 -12 -16 - 20
7518	KIT Rid ISO 40/ H 50 - ER 25	40	2941	7022	3669	0996: Ø 4 - 6 - 8 -10 -12 -16
7519	KIT Rid ISO 40/ H 50 - ER 32	40	2929	7023	3670	0988: Ø 4 - 6 - 8 -10 -12 -16 - 20
7520	KIT Rid ISO 40/ H 70 - ER 32	40	2951	7023	3670	0988: Ø 4 - 6 - 8 -10 -12 -16 - 20
7521	KIT Rid ISO 40/ H 50 - ER 40	40	2930	7024	3671	0821: Ø 4 - 6 - 8 -10 -12 -16 - 20 -25
7522	KIT Rid ISO 50/ H 70 - ER 32	50	2954	7023	3670	0988: Ø 4 - 6 - 8 -10 -12 -16 - 20
7523	KIT Rid ISO 50/ H 75 - ER 40	50	2931	7024	3671	0821: Ø 4 - 6 - 8 -10 -12 -16 - 20 -25

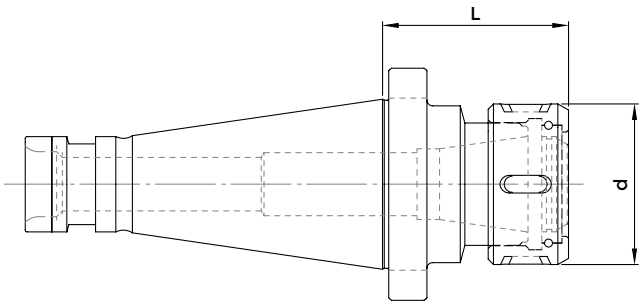
EQUIPMENT CASE WITH COMPLETE SET OF ER COLLETS, AD SHAPE COLLET CHUCK AND WRENCH



COD.	DESCRIPTION	ISO	CHUCK	CASE	WRENCH	COLLET
7500	KIT ISO 30/ H 40 - ER25	30	2927	7022	3669	0996: Ø 2 ÷ 16 (15 Pinze)
7501	KIT ISO 30/ H 50 - ER32	30	2928	7023	3670	0988: Ø 3 ÷ 20 (18 Pinze)
7502	KIT ISO 40/ H 50 - ER25	40	2941	7022	3669	0996: Ø 2 ÷ 16 (15 Pinze)
7503	KIT ISO 40/ H 50 - ER32	40	2929	7023	3670	0988: Ø 3 ÷ 20 (18 Pinze)
7504	KIT ISO 40/ H 70 - ER32	40	2951	7023	3670	0988: Ø 3 ÷ 20 (18 Pinze)
7505	KIT ISO 40/ H 50 - ER40	40	2930	7024	3671	0821: Ø 4 ÷ 26 (23 Pinze)
7506	KIT ISO 50/ H 70 - ER32	50	2954	7023	3670	0988: Ø 3 ÷ 20 (18 Pinze)
7507	KIT ISO 50/ H 75 - ER40	50	2931	7024	3671	0821: Ø 4 ÷ 26 (23 Pinze)

DIN 6388 COLLET CHUCKS





DIN 2080 - DIN 6388

COD.	DESCRIPTION	ISO	EOC	d	L	G6,3 8000	NUT	WRENCH	COLLET
3966	ISO 40 - EOC 25	40	EOC 25 2÷25	60	70	•	4068	2909	0769
3967	ISO 40 - EOC 32	40	EOC 32 3÷32	72	85	•	4069	2910	0770
3969	ISO 50 - EOC 32	50	EOC 32 3÷32	72	85	•	4069	2910	0770

ACCESSORIES

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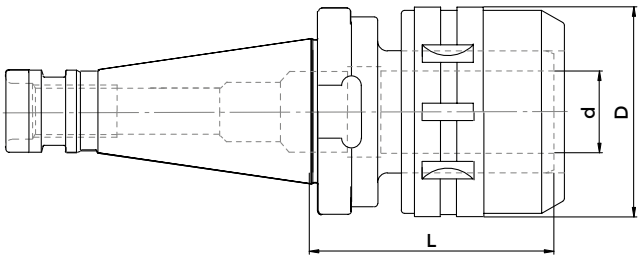


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MILLING CHUCKS



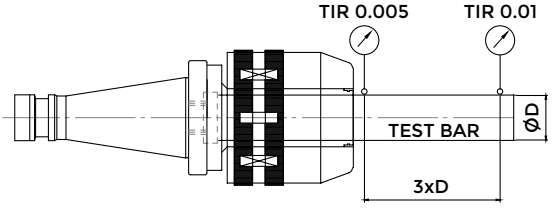


DIN 2080

COD.	DESCRIPTION	ISO	D	d	L	G6,3 8000	WRENCH	COLLET
2997	ISO 40 - PC 20	40	20	50	65	•	2900	0809
2903	ISO 40 - PC 32	40	32	72	80	•	2910	0810
2904	ISO 50 - PC 32	50	32	72	85	•	2910	0810

Supplied with wrench

MILLING CHUCK Ø	SPECIFICATION DIN 7178-1	TOLERANCE	RUN-OUT (3D)	CLAMPING TORQUE
C20	AT3	TC40 (0~+0,003)	0~0,01	980M.m (100 Kgf.m)
C32	AT3	TC50 (0~+0,004)	0~0,01	3430M.m (350 Kgf.m)



ACCESSORIES

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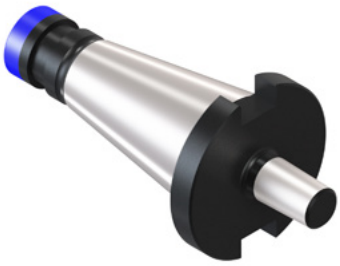
GAIT

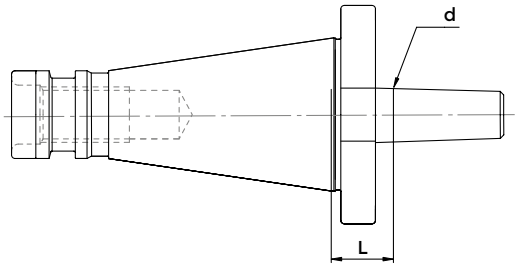
MILLING KIT WITH CHUCK, WRENCH AND COLLETS



COD.	DESCRIPTION	ISO	G6,3 8000	CHUCK	CASE	WRENCH	COLLET
7449	KIT ISO 40 - PC 20 / H 65	40	•	2997	3695	2900	0809: Ø 6 - 8 - 10 - 12 - 16
7541	KIT ISO 40 - PC 32 / H 80	40	•	2903	3695	2910	0810: Ø 6 - 8 - 10 - 12 - 16 - 20 - 25
7542	KIT ISO 50 - PC 32 / H 85	50	•	2904	3695	2910	0810: Ø 6 - 8 - 10 - 12 - 16 - 20 - 25

DRILL CHUCKS ADAPTERS



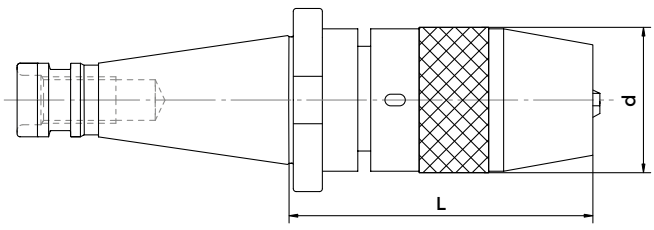


DIN 2080

COD.	DESCRIPTION	ISO	d	L	G6,3 8000
3991	ISO 30 - B 16	30	15,733	15	•
3859	ISO 40 - B 12	40	12,065	17	•
3860	ISO 40 - B 16	40	15,733	17	•
3861	ISO 40 - B 18	40	17,78	17	•
3992	ISO 50 - B 16	50	15,733	20	•
3993	ISO 50 - B 18	50	17,78	20	•

DRILL CHUCKS - RIGHT SPIN



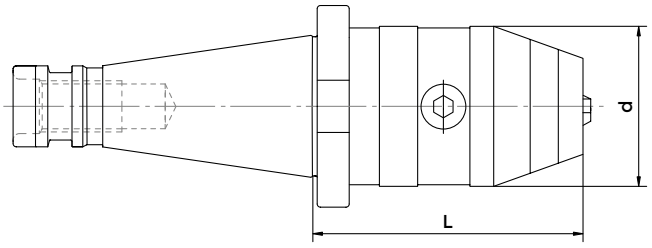


DIN 2080

COD.	DESCRIPTION	ISO	DRILL RANGE	L	d	G6,3 8000	CLAMPS	SCREW	WRENCH
8578	ISO 30 - DC 13	30	0,5 ÷ 13	90	50	•	9016	9021	2370
4331	ISO 40 - DC 13	40	0,5 ÷ 13	90	50	•	9016	9021	2370
4332	ISO 40 - DC 16	40	3 ÷ 16	105	57	•	9017	9023	2371
4333	ISO 50 - DC 13	50	0,5 ÷ 13	80	50	•	9016	9021	2370
4334	ISO 50 - DC 16	50	3 ÷ 16	100	57	•	9017	9023	2371

DRILL CHUCKS - LEFT AND RIGHT SPIN



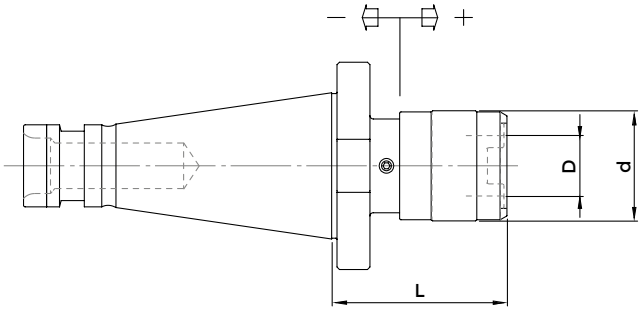


DIN 2080

COD.	DESCRIPTION	ISO	DRILL RANGE	L	d	G6,3 8000	WRENCH
							
8579	ISO 40 - DCU 13	40	0,5 ÷ 13	85	50	•	2372
8580	ISO 40 - DCU 16	40	3 ÷ 16	90	57	•	2372
8581	ISO 50 - DCU 13	50	0,5 ÷ 13	87	50	•	2372
8582	ISO 50 - DCU 16	50	3 ÷ 16	92	57	•	2372

TENSION/COMPRESSION TAPPING HEADS





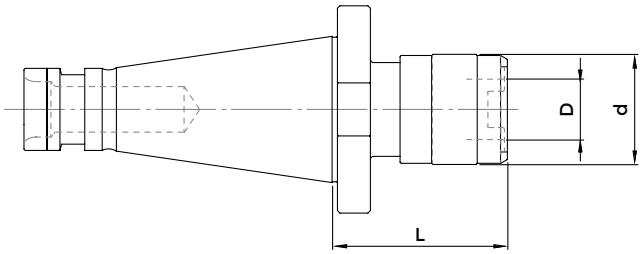
DIN 2080

COD.	DESCRIPTION	ISO	D	d	L	G6,3 8000	RANGE	TAP SIZE RANGE
								
3536	ISO 30 - B. 1	30	19	38	52	•	- 7,5 + 7,5	M 3 ÷ M 12 (* M 18)
3538	ISO 40 - B. 1	40	19	38	53	•	- 7,5 + 7,5	M 3 ÷ M 12 (* M 18)
3539	ISO 40 - B. 2	40	31	55	77	•	- 15 + 15	M 6 ÷ M 20 (* M 30)
4199	ISO 50 - B. 1	50	19	38	57	•	- 9 + 9	M 3 ÷ M 12 (* M 18)
3541	ISO 50 - B. 2	50	31	55	79	•	- 15 + 15	M 6 ÷ M 20 (* M 30)
3542	ISO 50 - B. 3	50	48	79	125	•	- 20 + 20	M 14 ÷ M 33 (* M 48)

* Adapters with screws

SOLID TAPPING HEADS



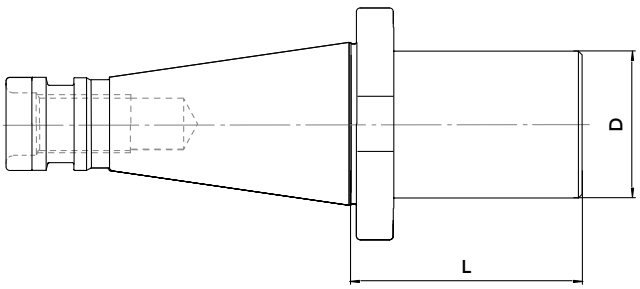


DIN 2080

COD.	DESCRIPTION	ISO	D	d	L	G6,3 8000	TAP SIZE RANGE
4941	ISO 30 - B. 1 FISSO	30	19	33	50	•	M 3 ÷ M 12 (* M 18)
4942	ISO 30 - B. 2 FISSO	30	31	50	73	•	M 6 ÷ M 20 (* M 30)
4943	ISO 40 - B. 1 FISSO	40	19	33	52	•	M 3 ÷ M 12 (* M 18)
4944	ISO 40 - B. 2 FISSO	40	31	50	74	•	M 6 ÷ M 20 (* M 30)

BLANK BARS





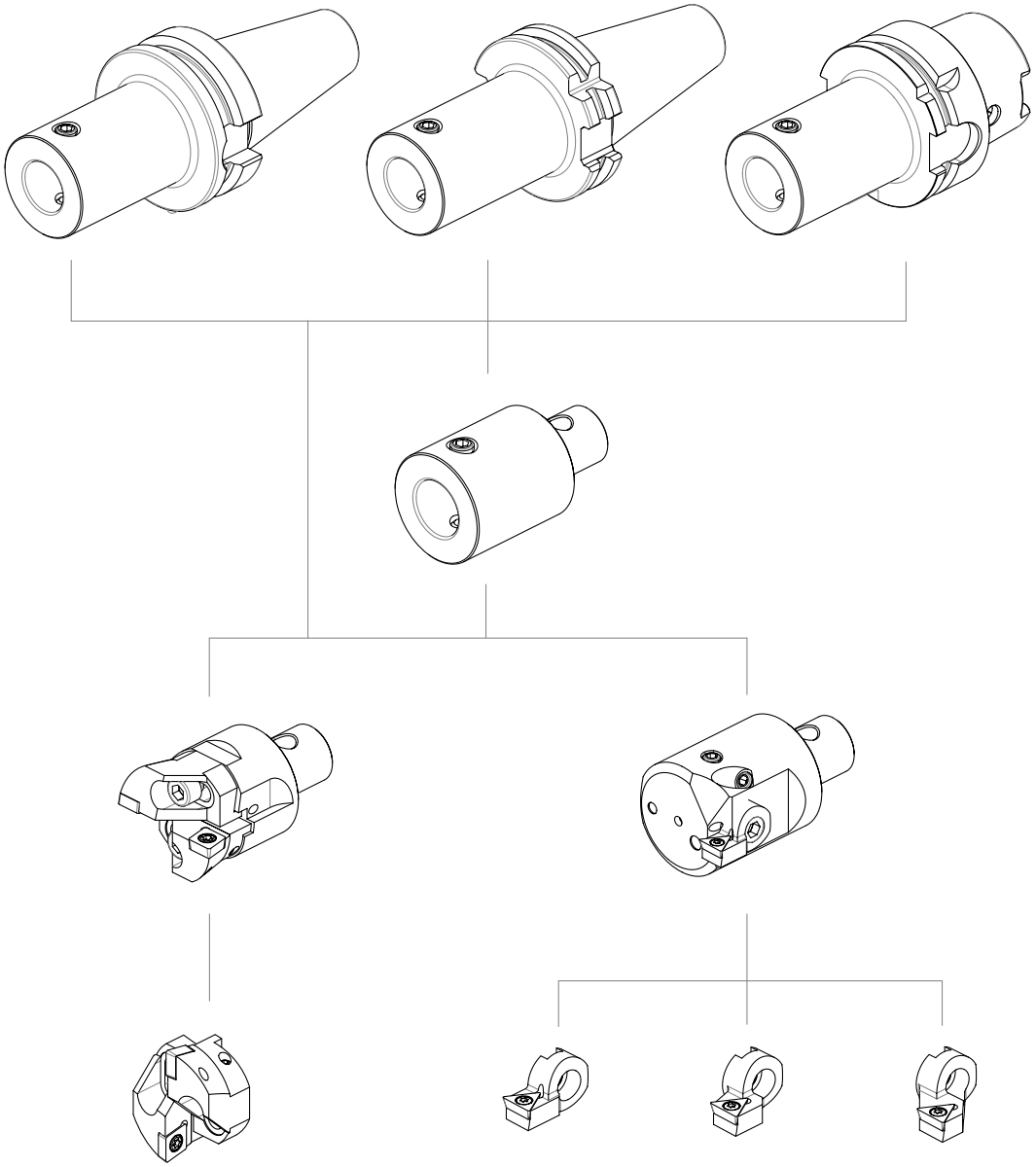
DIN 2080

COD.	DESCRIPTION	ISO	d	L	G6,3 8000
4374	ISO 40 - D. 40 ST / H 160	40	40	160	•
4378	ISO 40 - D. 63 ST / H 160	40	63	160	•
4379	ISO 40 - D. 63 ST / H 250	40	63	250	•
4387	ISO 50 - D. 80 ST / H 300	50	80	300	•

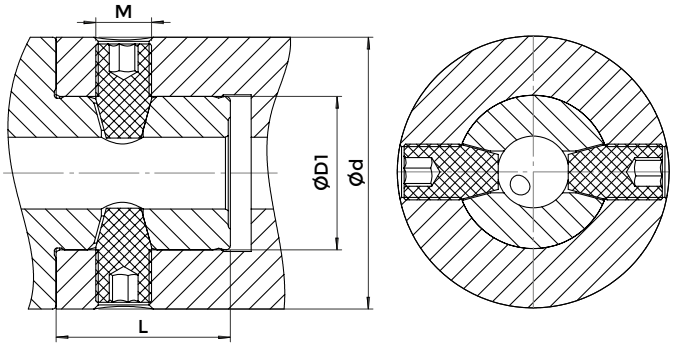


BORING
SYSTEM

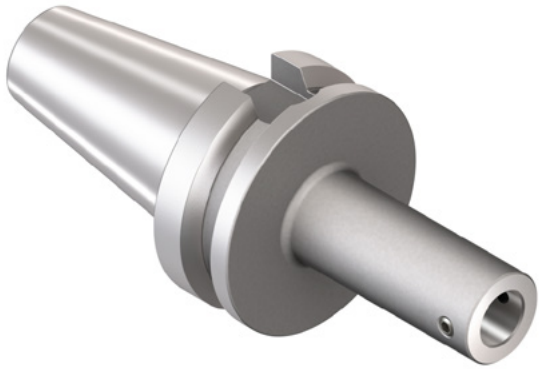
BORING SYSTEM

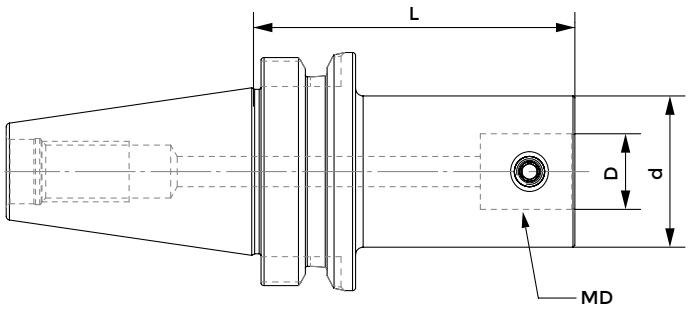


MD	D1	d	L	M
1	11	19	13	M4X0.5
2	14	24	17	M5X0.5
3	18	31	20	M6X0.75
4	22	40	25	M8X0.75
5	28	50	35	M10X1.0
6	36	63	40	M12X1.0



BASE HOLDER FOR BORING HEADS - MAS403/BT-AD



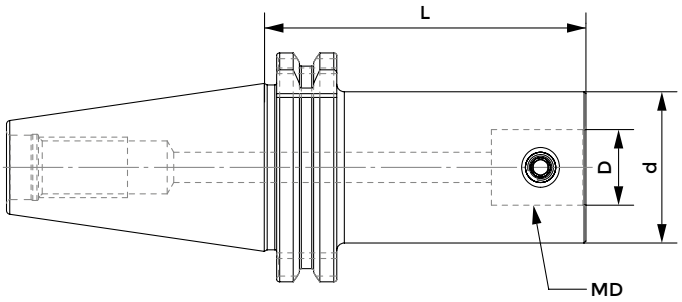


JIS-B 6339 MAS 403/BT

COD.	DESCRIPTION	ISO	MD	d	L	D	SCREW
							
290-01501	BT40H85MD2	40	2	24	85	14	811-402093
290-01502	BT40H115MD2	40	2	24	115	14	811-402093
290-01503	BT40H95MD3	40	3	31	95	18	811-402094
290-01504	BT40H125MD3	40	3	31	125	18	811-402094
290-01505	BT40H85MD4	40	4	40	85	22	811-402095
290-01506	BT40H130MD4	40	4	40	130	22	811-402095
290-01507	BT40H75MD5	40	5	50	75	28	811-402096
290-01508	BT40H125MD5	40	5	50	125	28	811-402096
290-01521	BT40H65MD6	40	6	64	65	36	811-402101
290-01522	BT40H115MD6	40	6	64	115	36	811-402101
290-01509	BT50H85MD2	50	2	24	85	14	811-402093
290-01510	BT50H110MD2	50	2	24	110	14	811-402093
290-01511	BT50H80MD3	50	3	31	80	18	811-402094
290-01512	BT50H125MD3	50	3	31	125	18	811-402094
290-01514	BT50H145MD4	50	4	40	145	22	811-402095
290-01515	BT50H105MD5	50	5	50	105	28	811-402096
290-01516	BT50H180MD5	50	5	50	180	28	811-402096
290-01523	BT50H95MD6	50	6	64	95	36	811-402101
290-01524	BT50H170MD6	50	6	64	170	36	811-402101

BASE HOLDER FOR BORING HEADS - DIN69871-AD (SK)



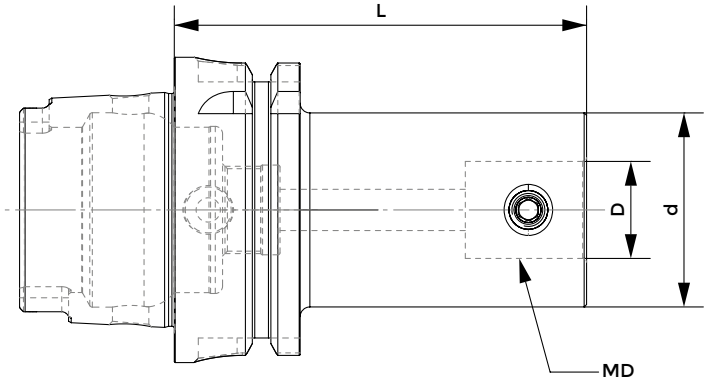


DIN 69871

COD.	DESCRIPTION	ISO	MD	d	L	D	SCREW
290-01201	TC40H85MD2	40	2	24	85	14	811-402093
290-01202	TC40H100MD2	40	2	24	100	14	811-402093
290-01203	TC40H95MD3	40	3	31	95	18	811-402094
290-01204	TC40H125MD3	40	3	31	125	18	811-402094
290-01205	TC40H85MD4	40	4	40	85	22	811-402095
290-01206	TC40H130MD4	40	4	40	130	22	811-402095
290-01207	TC40H75MD5	40	5	50	75	28	811-402096
290-01208	TC40H125MD5	40	5	50	125	28	811-402096
290-01217	TC40H65MD6	40	6	64	65	36	811-402101
290-01218	TC40H115MD6	40	6	64	115	36	811-402101
290-01209	TC50H85MD2	50	2	24	85	14	811-402093
290-01210	TC50H110MD2	50	2	24	110	14	811-402093
290-01211	TC50H80MD3	50	3	31	80	18	811-402094
290-01212	TC50H125MD3	50	3	31	125	18	811-402094
290-01213	TC50H115MD4	50	4	40	115	22	811-402095
290-01214	TC50H145MD4	50	4	40	145	22	811-402095
290-01215	TC50H105MD5	50	5	50	105	28	811-402096
290-01216	TC50H180MD5	50	5	50	180	28	811-402096
290-01219	TC50H95MD6	50	6	64	95	36	811-402101
290-01220	TC50H170MD6	50	6	64	170	36	811-402101

BASE HOLDER FOR BORING HEADS - DIN69893/A (HSK)



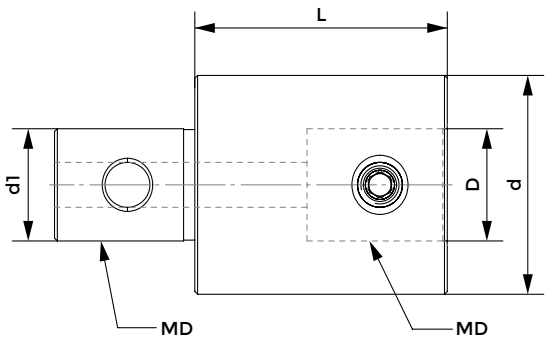


DIN 69893/A

COD.	DESCRIPTION	HSK	MD	d	L	D	SCREW
							
290-01701	HSK63AH85MD2	63	2	24	85	14	811-402093
290-01702	HSK63AH100MD2	63	2	24	100	14	811-402093
290-01703	HSK63AH95MD3	63	3	31	95	18	811-402094
290-01704	HSK63AH125MD3	63	3	31	125	18	811-402094
290-01705	HSK63AH85MD4	63	4	40	85	22	811-402095
290-01706	HSK63AH130MD4	63	4	40	130	22	811-402095
290-01707	HSK63AH75MD5	63	5	50	75	28	811-402096
290-01708	HSK63AH125MD5	63	5	50	125	28	811-402096

EXTENSIONS FOR BORING HEADS

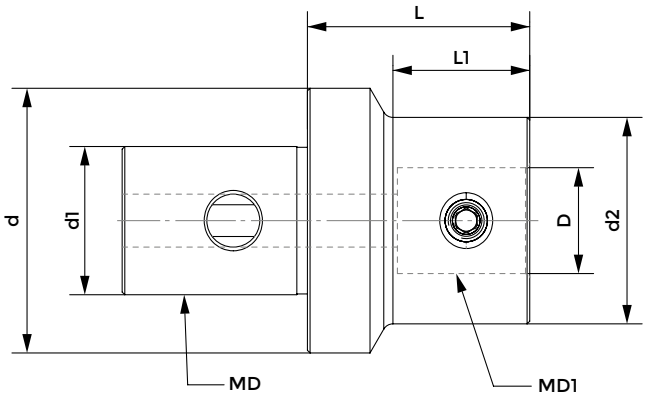




COD.	DESCRIPTION	MD	d	L	d1	D	SCREW
							
291-20001	MD2L30MD2	2	24	30	14	14	811-402093
291-20002	MD3L30MD3	3	31	30	18	18	811-402094
291-20003	MD4L45MD4	4	39	45	22	22	811-402095
291-20004	MD5L60MD5	5	50	60	28	28	811-402096
291-20005	MD6L60MD6	6	64	60	36	36	811-402101

REDUCERS FOR BORING HEADS

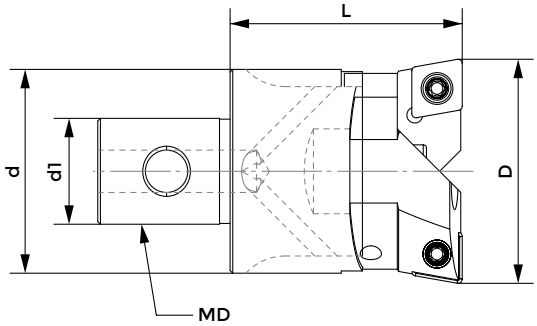




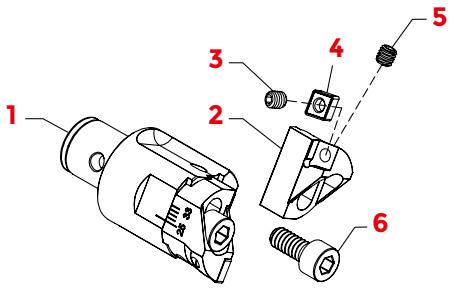
COD.	DESCRIPTION	MD	MD1	d	d2	L	L1	d1	D	SCREW
										
291-30003	MD3L37MD2	3	2	31	24	37	25	18	14	811-402093
291-30005	MD4L50MD2	4	2	40	24	50	36	22	14	811-402093
291-30006	MD4L50MD3	4	3	40	31	50	37	22	18	811-402094
291-30008	MD5L54MD2	5	2	50	24	54	35	28	14	811-402093
291-30009	MD5L47MD3	5	3	50	31	47	29	28	18	811-402094
291-30010	MD5L42MD4	5	4	50	40	42	25	28	22	811-402095
291-30011	MD6L63MD2	6	2	64	24	63	45	36	14	811-402101
291-30012	MD6L56MD3	6	3	64	31	56	39	36	18	811-402101
291-30013	MD6L51MD4	6	4	64	40	51	35	36	22	811-402101
291-30014	MD6L41MD5	6	5	64	50	41	25	36	28	811-402101

DOUBLE INSERT BORING HEADS - INCL. INSERT CARRIERS





COD.	DESCRIPTION	MD	D	d	L	d1
523-90001	MD2-CL2533	2	25-33	23,5	35,5	14
523-90002	MD3-CL3242	3	32-42	30,5	40	18
523-90003	MD4-CL4154	4	41-54	38,5	47	22
523-90004	MD5-CL5370	5	53-70	49,5	57	28
523-90005	MD6-CL6890	6	68-90	63	71	36
523-90006	MD6-CL88110	6	88-110	63	71	36
523-90007	MD6-CL98126	6	98-126	63	71	36
523-90008	MD6-CL125153	6	125-153	63	71	36

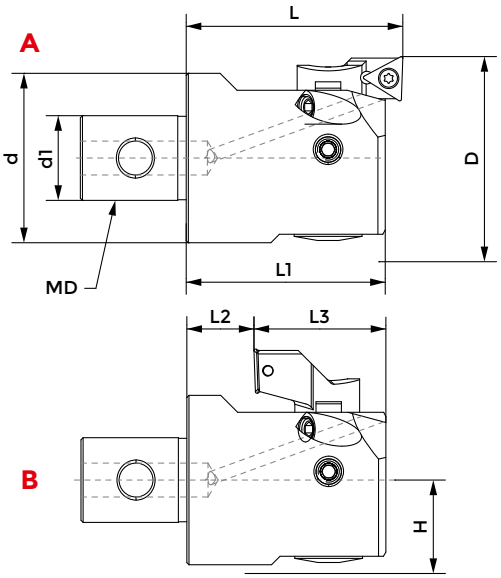


1	6	6	5	5	2	2	4	3	3	3
COD.	LOCKING SCREW	Q.TY	ADJ. SCREW	Q.TY	INSERT CARRIER COD.	Q.TY	INSERT	INSERT KEY	INSERT SCREW	INSERT SCREW COD.
523-90001	M5x20	2	M3x6	2	CRT-2533	2	CC..0602..	T8	m2,5x6	811-226018
523-90002	M6x20	2	M4x8	2	CRT-3242	2	CC..09T3..	T15	m4x10	811-256026
523-90003	M8x25	2	M5x8	2	CRT-4154	2	CC..09T3..	T15	m4x10	811-256026
523-90004	M10x35	2	M6x12	2	CRT-5370	2	CC..1204..	T20	m5x12	811-256027
523-90005	M10x35	4	M6x12	2	CRT-6890	2	CC..1204..	T20	m5x12	811-256027
523-90006	M10x35	4	M6x20	2	CRT-88110	2	CC..1204..	T20	m5x12	811-256027
523-90007	M12x40	4	M8x20	2	CRT-98126	2	CC..1204..	T20	m5x12	811-256027
523-90008	M12x40	4	M8x25	2	CRT-125153	2	CC..1204..	T20	m5x12	811-256027

Locking screw, adjustment screw and insert screw keys included.

FINISHING BORING HEADS - INCL. INSERT CARRIER

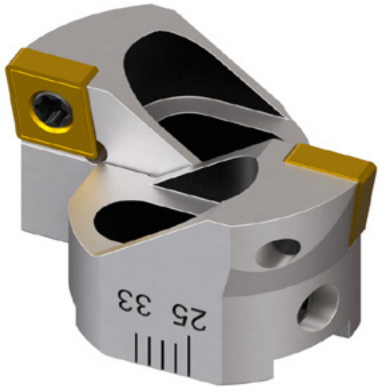


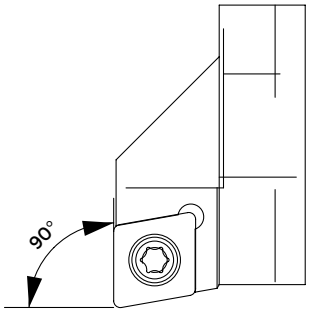


					A				B			
COD.	DESCRIPTION	MD	d1	INSERT CARRIER	D	d	L	L1	D	L2	L3	H
533-90001	MD2-FNT2547	2	14	*534-90001	25-33	24	35,5	33	-	11,5	21,5	12,5
		2	14	534-90002	32-40	24	35,5	33	36-40	11,5	21,5	12,5
		2	14	534-90003	39-47	24	35,5	33	39-47	11,5	21,5	12,5
533-90002	MD3-FNT3260	3	18	*534-90004	32-42	31	40	37	-	10	27	16
		3	18	534-90005	41-51	31	40	37	46-51	10	27	16
		3	18	534-90006	50-60	31	40	37	50-60	10	27	16
533-90003	MD4-FNT4174	4	22	*534-90007	41-54	40	47	43	-	12	31	20
		4	22	534-90008	50-63	40	47	43	53-63	12	31	20
		4	22	534-90009	61-74	40	47	43	61-74	12	31	20
533-90004	MD5-FNT5395	5	28	*534-90010	53-70	50	57	52	62-70	15	37	25,5
		5	28	534-90011	65-82	50	57	52	65-82	15	37	25,5
		5	28	534-90012	78-95	50	57	52	78-95	15	37	25,5
533-90005	MD6-FNT68150	6	36	*534-90013	68-100	64	71	67	80-100	23	44	32,5
		6	36	534-90014	94-126	64	71	67	94-126	23	44	32,5
		6	36	534-90015	118-150	64	71	67	118-150	23	44	32,5

* cartridge assemblied in boring head

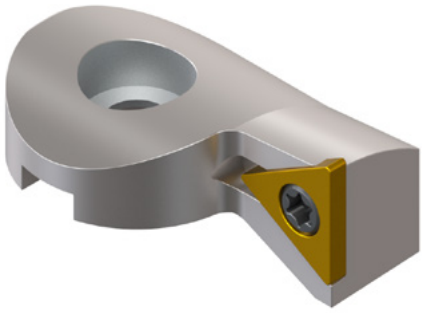
INSERT CARRIERS FOR DOUBLE INSERT BORING HEADS

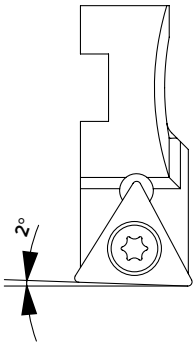




COD.	DESCRIPTION	MD	INSERT	SCREW
524-90001	CRT-2533	2	CC..0602..	811-226018
524-90002	CRT-3242	3	CC..09T3..	811-256026
524-90003	CRT-4154	4	CC..09T3..	811-256026
524-90004	CRT-5370	5	CC..1204..	811-256027
524-90005	CRT-6890	6	CC..1204..	811-256027
524-90006	CRT-88110	6	CC..1204..	811-256027
524-90007	CRT-98126	6	CC..1204..	811-256027
524-90008	CRT-125153	6	CC..1204..	811-256027

INSERT CARRIER FOR FINISHING BORING HEAD

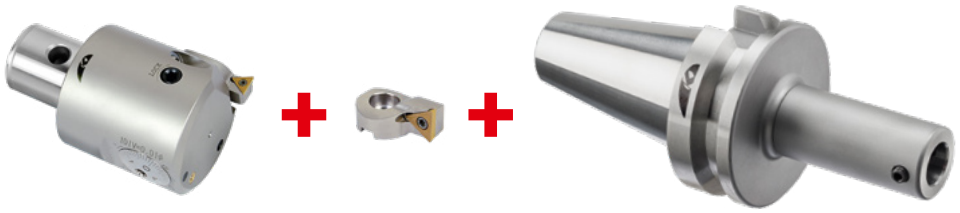




COD.	DESCRIPTION	MD	INSERT	SCREW
534-90001	CRF-2533/MD2	2	TC..06T102..	811-286007
534-90002	CRF-3240/MD2	2	TC..06T102..	811-286007
534-90003	CRF-3947/MD2	2	TC..06T102..	811-286007
534-90004	CRF-3242/MD3	3	TC..06T102..	811-286007
534-90005	CRF-4151/MD3	3	TC..06T102..	811-286007
534-90006	CRF-5060/MD3	3	TC..06T102..	811-286007
534-90016	CRF-2735/MD2	2	CC..0602..	811-226018
534-90017	CRF-3240/MD2	2	CC..0602..	811-226018
534-90018	CRF-3947/MD2	2	CC..0602..	811-226018
534-90019	CRF-3242/MD3	3	CC..0602..	811-226018
534-90020	CRF-4154/MD3	3	CC..0602..	811-226018
534-90021	CRF-5060/MD3	3	CC..0602..	811-226018
534-90007	CRF-4154/MD4	4	TC..1102..	811-226018
534-90008	CRF-5063/MD4	4	TC..1102..	811-226018
534-90009	CRF-6174/MD4	4	TC..1102..	811-226018
534-90010	CRF-5370/MD5	5	TC..1102..	811-226018
534-90011	CRF-6582/MD5	5	TC..1102..	811-226018
534-90012	CRF-7895/MD5	5	TC..1102..	811-226018
534-90013	CRF-68100/MD6	6	TC..1102..	811-226018
534-90014	CRF-94126/MD6	6	TC..1102..	811-226018
534-90015	CRF-118150/MD6	6	TC..1102..	811-226018

KIT

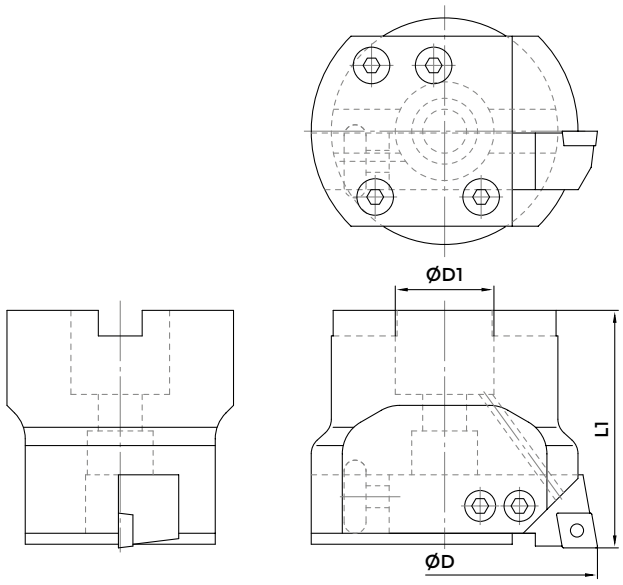




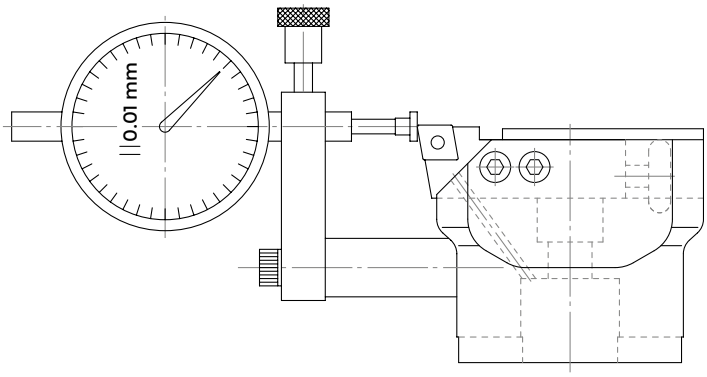
COD.	BASE HOLDER		BORING HEAD		INSERT CARRIER
KIT533SK40MD2	290-01201	TC40H85MD2	533-90001	FINISHING BORING HEAD MD2-FNT25-47	534-90001 25-33 TC..06T102..
KIT533BT40MD2	290-01501	BT40H85MD2	533-90001	FINISHING BORING HEAD MD2-FNT25-47	534-90001 25-33 TC..06T102..
KIT533SK40MD3	290-01203	TC40H95MD3	533-90002	FINISHING BORING HEAD MD3-FNT32-60	534-90004 32-42 TC..06T102..
KIT533BT40MD3	290-01503	BT40H95MD3	533-90002	FINISHING BORING HEAD MD3-FNT32-60	534-90004 32-42 TC..06T102..
KIT533SK40MD4	290-01205	TC40H85MD4	533-90003	FINISHING BORING HEAD MD4-FNT41-74	534-90007 41-54 TC..1102..
KIT533BT40MD4	290-01505	BT40H85MD4	533-90003	FINISHING BORING HEAD MD4-FNT41-74	534-90007 41-54 TC..1102..
KIT533SK40MD5	290-01207	TC40H75MD5	533-90004	FINISHING BORING HEAD MD5-FNT53-95	534-90010 53-70 TC..1102..
KIT533BT40MD5	290-01507	BT40H75MD5	533-90004	FINISHING BORING HEAD MD5-FNT53-95	534-90010 53-70 TC..1102..
KIT533SK40MD2L	290-01202	TC40H100MD2	533-90001	FINISHING BORING HEAD MD2-FNT25-47	534-90001 25-33 TC..06T102..
KIT533BT40MD2L	290-01502	BT40H100MD2	533-90001	FINISHING BORING HEAD MD2-FNT25-47	534-90001 25-33 TC..06T102..
KIT533BT40MD3L	290-01504	BT40H125MD3	533-90002	FINISHING BORING HEAD MD3-FNT32-60	534-90004 32-42 TC..06T102..
KIT533SK40MD4L	290-01206	TC40H130MD4	533-90003	FINISHING BORING HEAD MD4-FNT41-74	534-90007 41-54 TC..1102..
KIT533SK40MD5L	290-01208	TC40H125MD5	533-90004	FINISHING BORING HEAD MD5-FNT53-95	534-90010 53-70 TC..1102..
KIT533HSKMD4	290-01705	HSK63AH85MD4	533-90003	FINISHING BORING HEAD MD4-FNT41-74	534-90007 41-54 TC..1102..
KIT533HSKMD3L	290-01704	HSK63AH125MD3	533-90002	FINISHING BORING HEAD MD3-FNT32-60	534-90004 32-42 TC..06T102..
KIT533HSKMD4L	290-01706	HSK63AH130MD4	533-90003	FINISHING BORING HEAD MD4-FNT41-74	534-90007 41-54 TC..1102..

ADJUSTABLE BORING HEADS







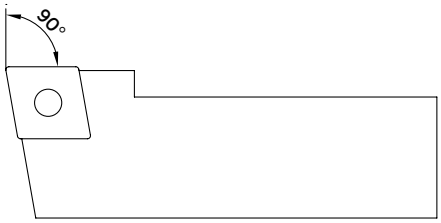


COD.	D	D1	l1	INSERT CARRIER		
RAIMAX 30	Ø28-40	16	45	K-SCGCL 08-06	K-STGPL 08-09	-
RAIMAX 40	Ø39-55	16	50	K-SCGCL 10-06	K-STGPL 10-09	-
RAIMAX 50	Ø49-75	22	56	K-SCGCL 12-09	K-STGPL 12-11	K-SSXCL 12-09
RAIMAX 75	Ø74-115	27	65	K-SCGCL 16-09	K-STGPL 16-11	K-SSXCL 16-09
RAIMAX 100	Ø98-160	40	67	K-SCGCL 20-09	K-STGPL 20-11	K-SSXCL 20-09
RAIMAX 150	Ø148-250	40	67	K-SCGCL 20L-09	K-STGPL 20L-11	K-SSXCL 20L-09

The insert carries is not supplied with the head RAMAX but must be ordered separately

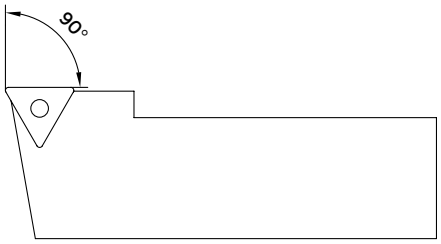
INSERT CARRIERS





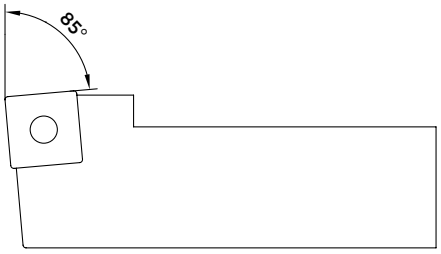
COD.	INSERT	SCREW	KEY
			
K-SCGCL 08-06	CCMT 0602	KV28	Torx 7
K-SCGCL 10-06	CCMT 0602	KV28	Torx 7
K-SCGCL 12-09	CCMT 09T3	KV4c	Torx 15
K-SCGCL 16-09	CCMT 09T3	KV4c	Torx 15
K-SCGCL 20-09	CCMT 09T3	KV4c	Torx 15
K-SCGCL 20L-09	CCMT 09T3	KV4c	Torx 15





COD.	INSERT	SCREW	KEY
			
K-STGPL 08-09	TPGX 0902	KV28	Torx 7
K-STGPL 10-09	TPGX 0902	KV28	Torx 7
K-STGPL 12-11	TPGX 1103	KV10	Torx 9
K-STGPL 16-11	TPGX 1103	KV10	Torx 9
K-STGPL 20-11	TPGX 1103	KV10	Torx 9
K-STGPL 20L-11	TPGX 1103	KV10	Torx 9



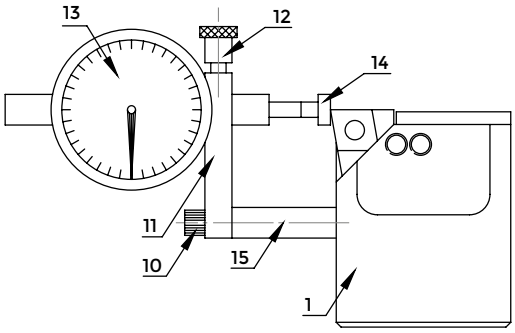


COD.	INSERT	SCREW	KEY
			
K-SSXCL 12-09	SCMT 09T3	KV4c	Torx 15
K-SSXCL 16-09	SCMT 09T3	KV4c	Torx 15
K-SSXCL 20-09	SCMT 09T3	KV4c	Torx 15
K-SSXCL 20L-09	SCMT 09T3	KV4c	Torx 15

RAIMAX - ADJUSTABLE BORING HEAD "PHI" 28-250
MISURAIMAX - MEASURING DEVICE

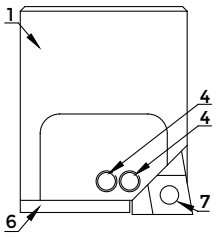
SUITABLE FOR STANDARD END MILL HOLDERS

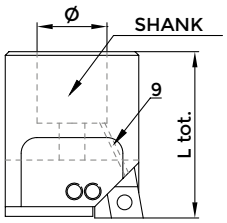
RAIMAX adjustable head is suitable for boring and reaming machining. All heads are equipped with coolant nozzle.
Tool cutting diameter is adjusted by turning a screw. Adjustment screw acts on the insert carrier, that slides within a U-shaped groove obtained in tool body. For centesimal adjustment of cutting diameter, MISURAIMAX device, consisting of a tube and a centesimal or millesimal dial gauge, can be used.



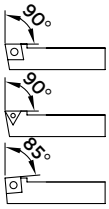
1. RAIMAX tool body
2. Insert carrier adjustment screw
3. Cone locking screw
4. Short cover screw
5. Cover screws
6. Cover
7. Insert carrier
8. Spring
9. Coolant nozzle
10. MISURAIMAX locking screw
11. Measuring device arm
12. Dial gauge locking screw
13. Dial gauge
14. Gauge probe
15. Tube

RAIMAX® Head

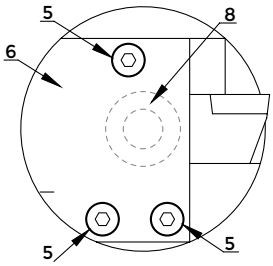


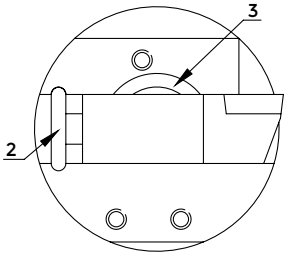


INSERT CARRIERS



WITHOUT COVER



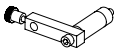


RAIMAX INSTRUCTIONS:

1. Unscrew the three screws (5) and remove the cover (6)
2. Loosen the two screws (4)
3. Remove the cartridge (7) from the slot
4. Fix the head on the holder and clamp it with the screw (3)
5. Put again the cartridge (7) in the slot.
6. Tighten the screws (5) to assembly the cover
7. Adjust the measure of cutting diameter rotating the screw. This will cause the shifting of the cartridge.
8. Tighten the two screws (4)
9. RAIMAX boring head is ready to be used

COD.	SCREW	COVER	SCREW FOR COVER	SCREW	SCREW
					
RAIMAX 30	KSR M8 R/L	KCC30	2 x KVCC30	KVR30	2 x KGG30
RAIMAX 40	KSR M8x20	KCC40	3 x KVCC40	KVR40	2 x KGG40
RAIMAX 50	KSR M10x20	KCC50	3 x KVCC50	KVR50	2 x KGG50
RAIMAX 75	KSR M12x25	KCC75	4 x KVCC75	KVR75	2 x KGG75
RAIMAX 100	KSR M20X	KCC100	4 x KVCC100	KVR100	2 x KGG100
RAIMAX 150	KSR M20X	KCC150	4 x KVCC150	KVR150	2 x KGG150

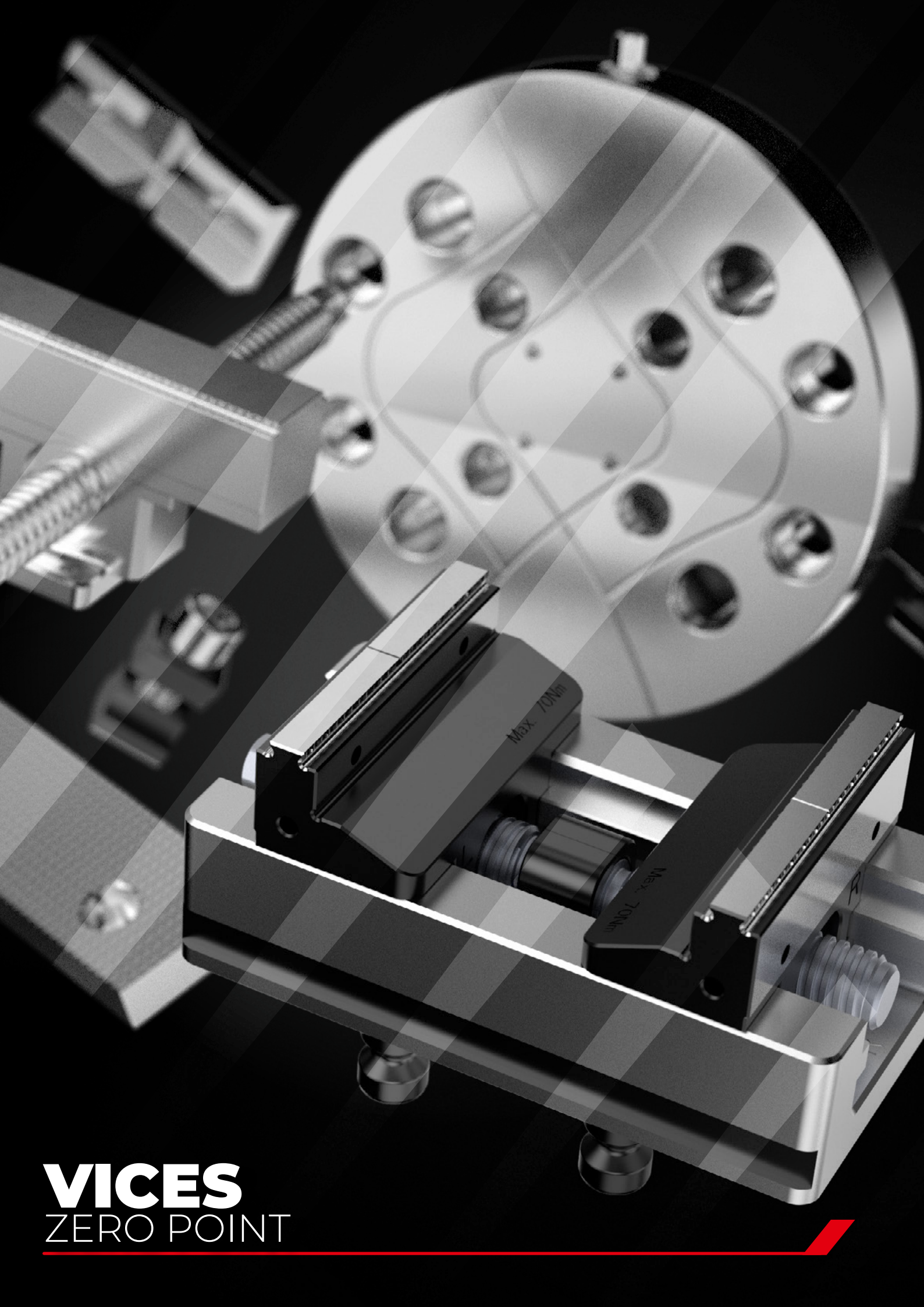


COD.
 
MISURAIMAX 30-40 + Dial indicator 1/100 0-5 mm
MISURAIMAX 30-40 + Dial indicator 1/100 0-5 mm
MISURAIMAX 50 + Dial indicator 1/100 0-10 mm
MISURAIMAX 75 + Dial indicator 1/100 0-10 mm
MISURAIMAX 100 + Dial indicator 1/100 0-10 mm
MISURAIMAX 150 + Dial indicator 1/100 0-10 mm

MISURAIMAX INSTRUCTIONS:

1. Check the two locking screws of the cartridge (4). These must be tightened.
2. Fix MISURAIMAX without dial gauge up to the head and tighten the screw (10).
3. Insert the dial gauge in the holding bar, push it up to the head till the contact point will touch the edge of insert of cartridge. Then tighten carefully the locking screw of the dial gauge (12).
4. Zerofill the dial gauge
5. Loosen the two locking screws of the gauge (4)
6. Modify the boring diameter of the head rotating the adjustment screws (2).
7. Check also the centesimal variation on the gauge display. After getting the measure, tighten the screws (4)
8. Remove MISUIRAMAX loosening the screws (10)
9. RAIMAX is now ready to be used

READY, ALWAYS.

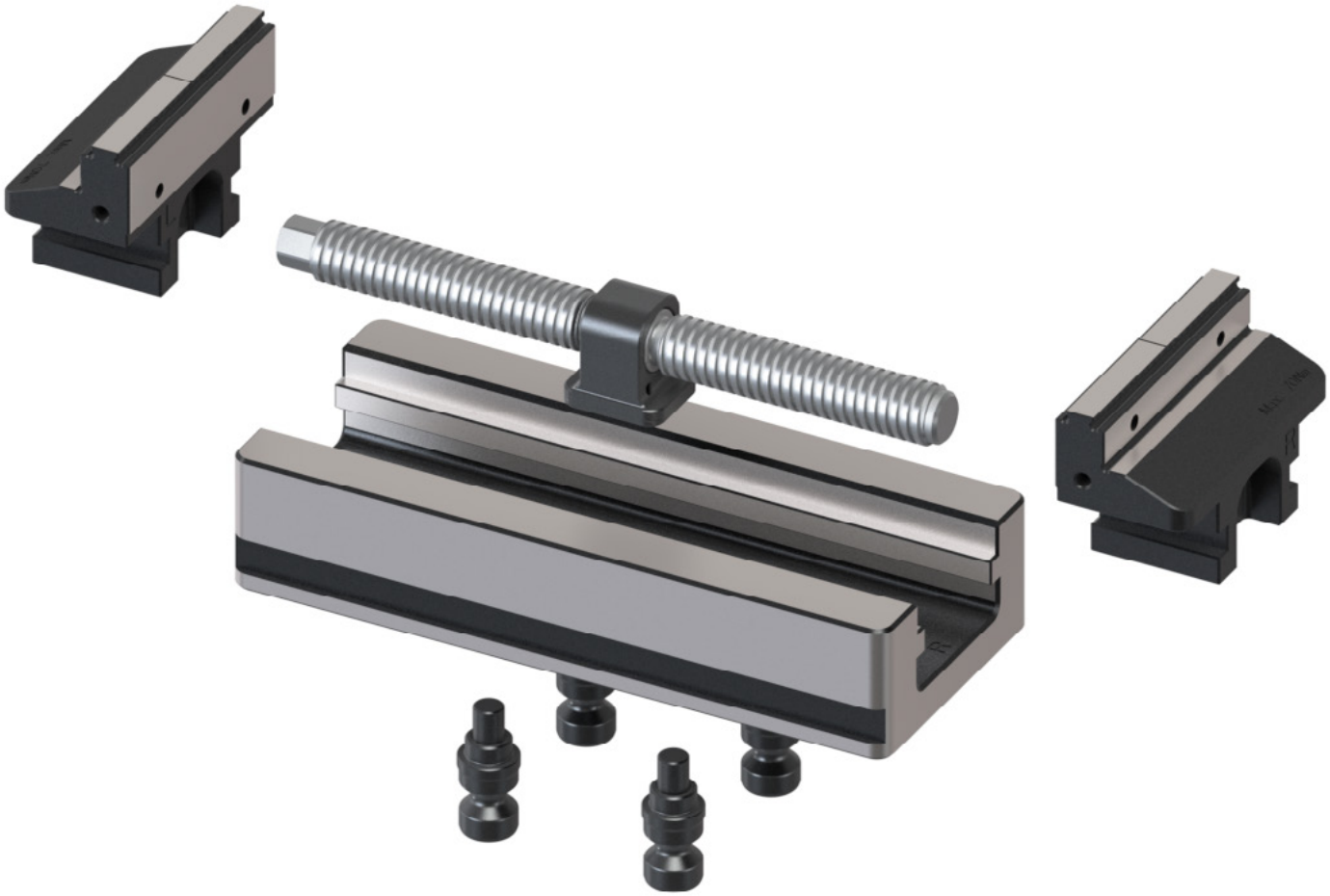


VICES
ZERO POINT

5-AXIS CENTRING VICE

The MRC KINTEK centring vices have a simple and robust design with a wide range of applications in manufacturing technology. Made with accessibility in mind, MRC KINTEK vices offer a great benefit to the user and provide an efficient solution in clamping parts. The jaws are reversible and have smooth and serrated zones on both sides.

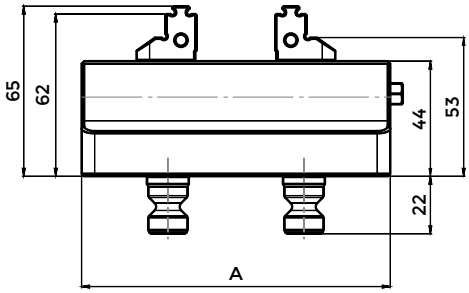
The vices are compatible with zero point systems in the 52 and 96 grid, but can be also direct mounted with clamps thanks to the available side rails. Made to last, all vices have their body and jaws case hardened and the spindle has a wear resistant treatment. With available accessories soft jaws for custom contour parts can be used.

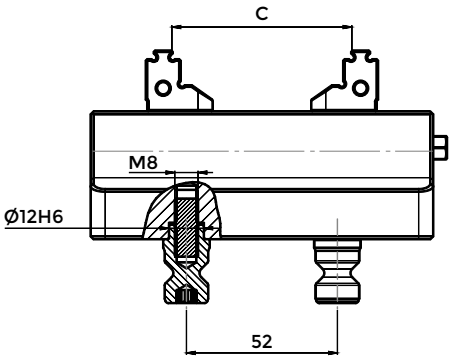


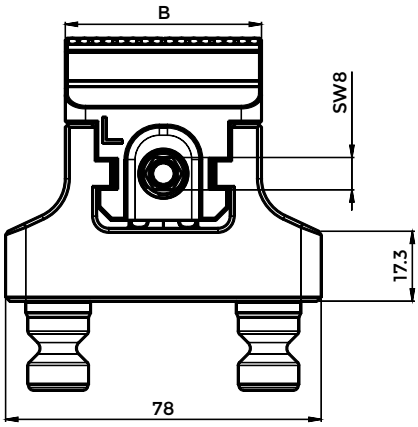
5-AXIS CENTRING VICE MRC 48X78











COD.	B	A	C max	TIGHTENING TORQUE	CLAMPING FORCE
MRC48X78	48,5 mm	78 mm	60 mm	70 Nm	14 kN
MRC48X118	48,5 mm	118 mm	100 mm	70 Nm	14 kN
MRC48X158	48,5 mm	158 mm	140 mm	70 Nm	14 kN

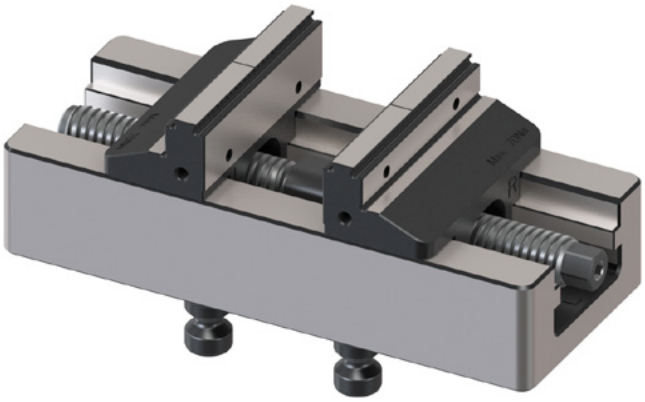
The vice suitable for zero point clamping systems with 52 mm interaxis.

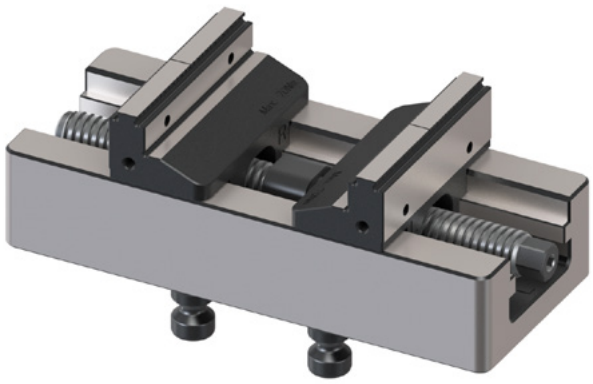
It can be used for rough parts with 3 mm grip.
And smooth surfaces with ground jaw.

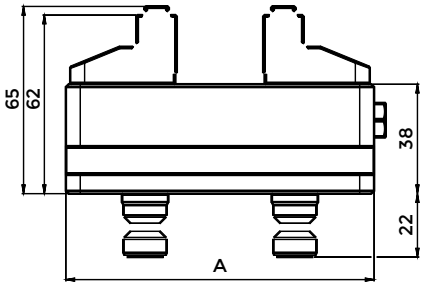
The jaws are reversible and allow to reach a wider clamping range.

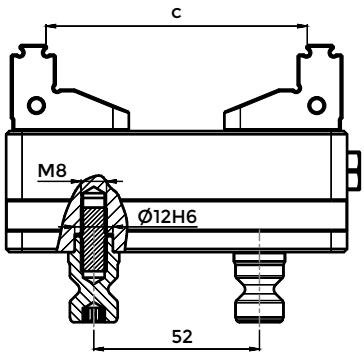
Accessories and spare parts available.

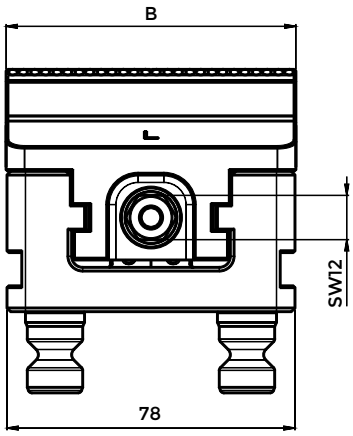
5-AXIS CENTRING VICE MRC 78X110











COD.	B	A	C max	TIGHTENING TORQUE	CLAMPING FORCE
MRC78X110	78,5	110	90	70 Nm	14 kN
MRC78X145	78,5	145	125	70 Nm	14 kN
MRC78X185	78,5	185	165	70 Nm	14 kN

The vice suitable for zero point clamping systems with 52 mm interaxis.

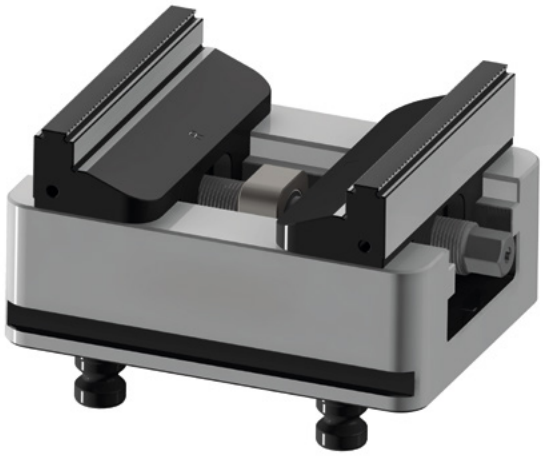
It can be used for rough parts with 3 mm grip.
And smooth surfaces with ground jaw.

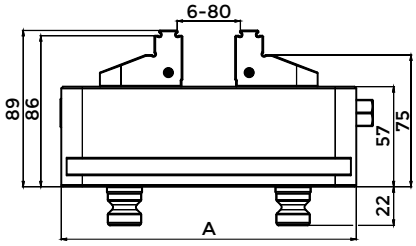
The jaws are reversible and allow to reach a wider clamping range.

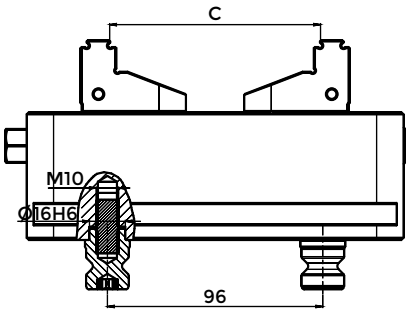
Accessories and spare parts available.

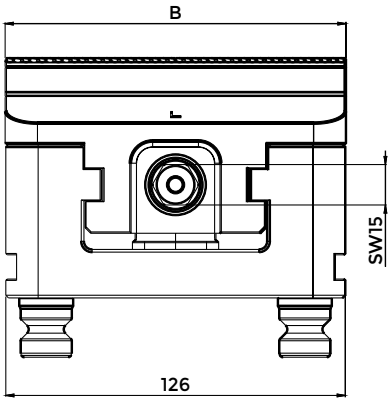
5-AXIS CENTRING VICE MRC 126X180











COD.	B	A	C max	TIGHTENING TORQUE	CLAMPING FORCE
MRC126X180	126,5	180	155	100 Nm	20 kN
MRC126X230	126,5	230	205	100 Nm	20 kN
MRC126X280	126,5	280	255	100 Nm	20 kN

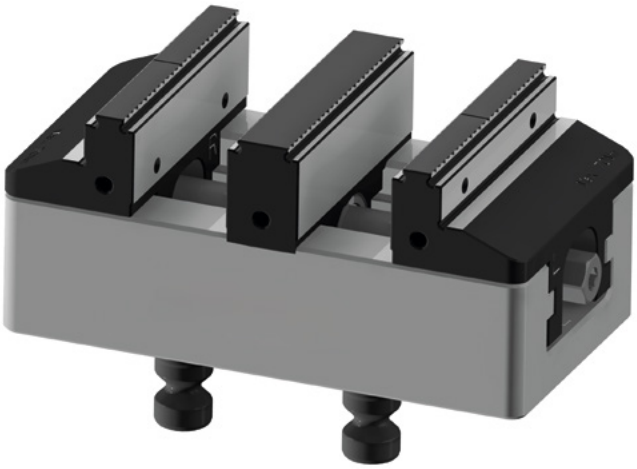
The vice suitable for zero point clamping systems with 96 mm interaxis.

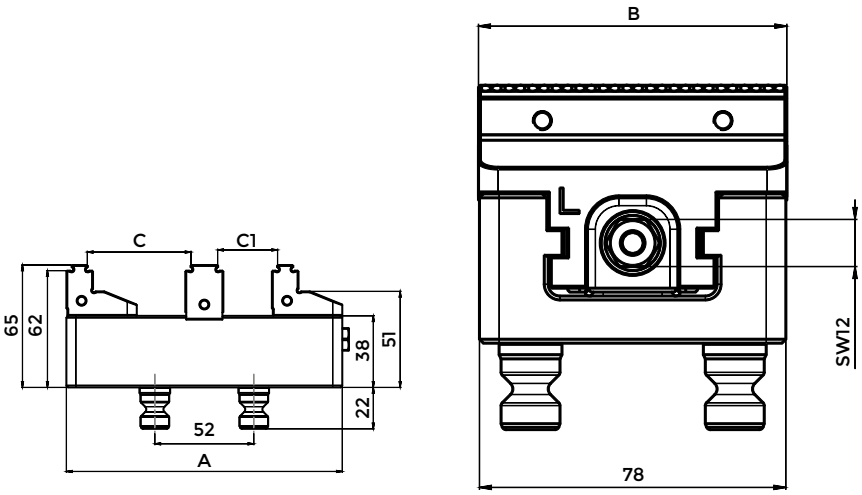
It can be used for rough parts with 3 mm grip.
And smooth surfaces with ground jaw.

The jaws are reversible and allow to reach a wider clamping range.

Accessories and spare parts available.

DUAL CLAMPING VICE MRCD 78





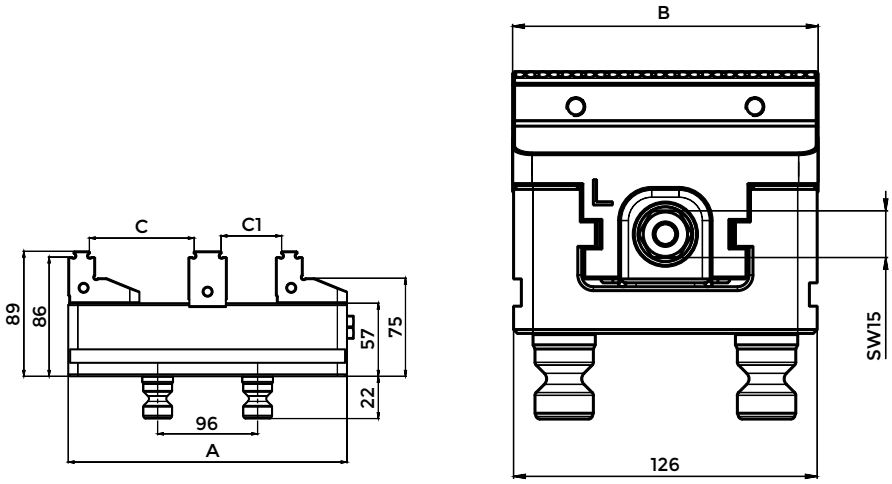
COD.	B	A	C max	C1 max	TIGHTENING TORQUE	CLAMPING FORCE
MRCD78X110	78,5	110	38	15	70 Nm	14 kN
MRCD78X145	78,5	145	55	32	70 Nm	14 kN
MRCD78X185	78,5	185	75	55	70 Nm	14 kN

This configuration uses the center jaw as the fixed position each side jaw moves independently, allowing the grip of different raw part sizes.

The jaws can easily be reversed for increased clamping range.

DUAL CLAMPING VICE MRCD 126



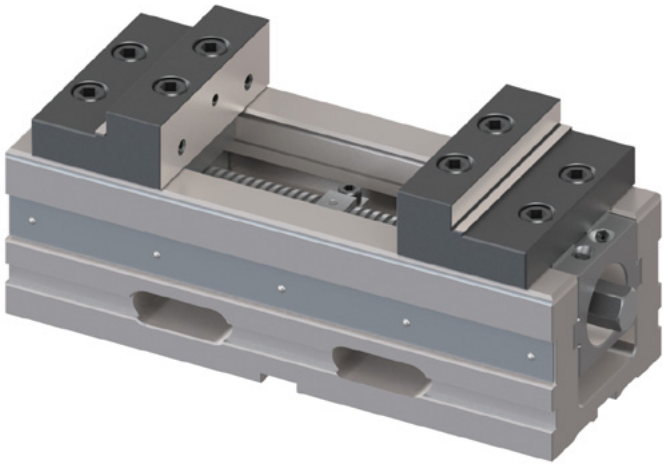


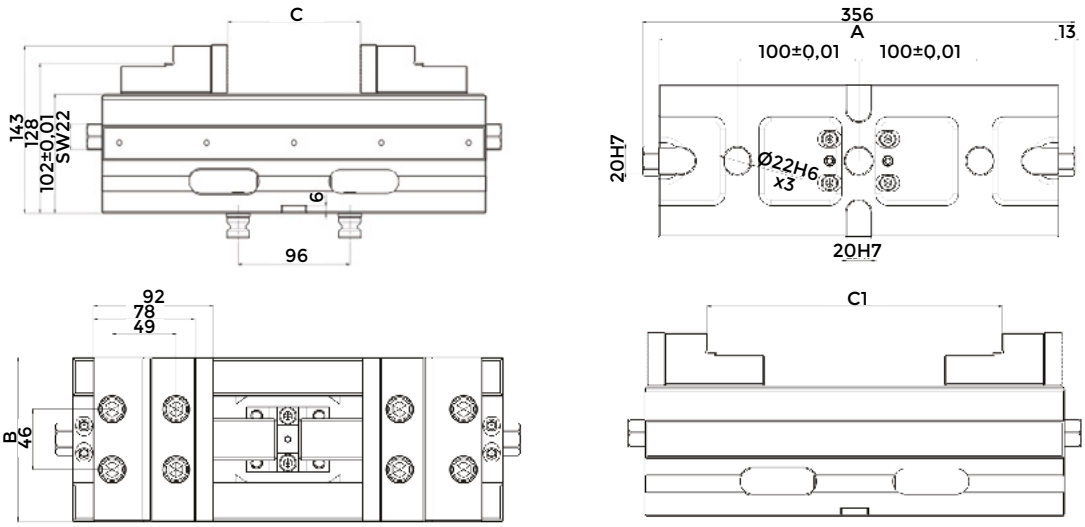
COD.	B	A	C max	C1 max	TIGHTENING TORQUE	CLAMPING FORCE
MRCD126X180	126,5	180	68	38	100 Nm	20 kN
MRCD126X230	126,5	230	95	60	100 Nm	20 kN
MRCD126X280	126,5	280	120	85	100 Nm	20 kN

This configuration uses the center jaw as the fixed position each side jaw moves independently, allowing the grip of different raw part sizes.

The jaws can easily be reversed for increased clamping range.

PRECISION CNC MACHINE CENTRING VICE MRCH 125X330





Can be used also with centring pins.

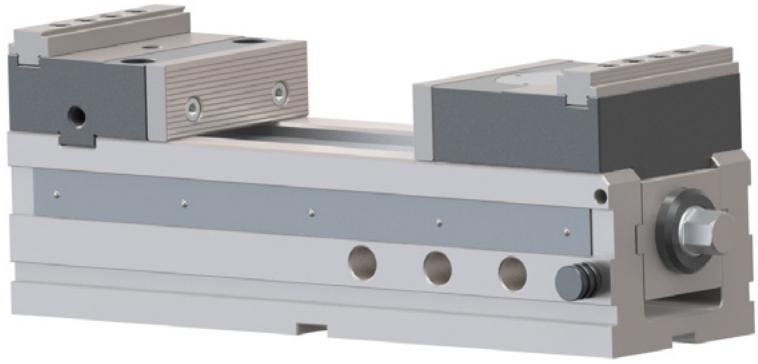
The jaws can be reversed for a larger clamping range.

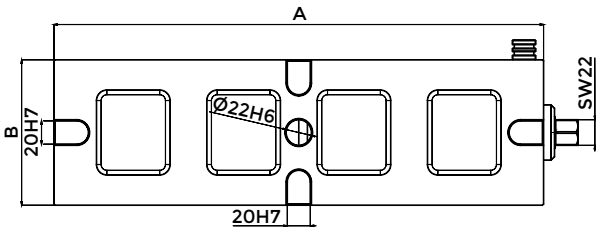
COD.	B	A	C max	C1 max	TIGHTENING TORQUE	CLAMPING FORCE
MRCH125X330	125	330	115	232	200 Nm	35 kN

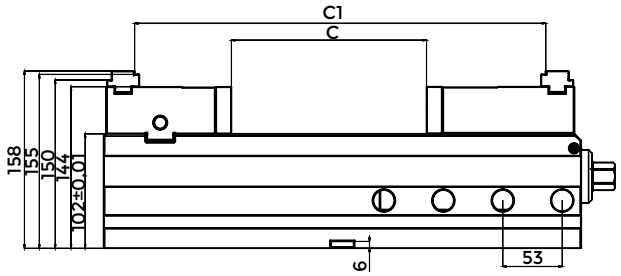
FEATURES:

- Induction hardened guideways
- Grinded body (GGG60 nodular cast iron)
- For conventional clamping, can be used on machine table or on towers
- Keyways for alignment and H6 locating holes
- Side rails for clamping
- Jaw width 125 mm
- Reversible jaws for larger clamping range
- Heat treated jaws
- Clamping force up to 35 kN@200Nm
- Rigid and robust design
- Side windows for quick cleaning of the inside of the vices
- Equipped with a mechanical spindle without force amplification
- Centering accuracy 0.015mm

PRECISION CNC MACHINE VICE MRF 125X428





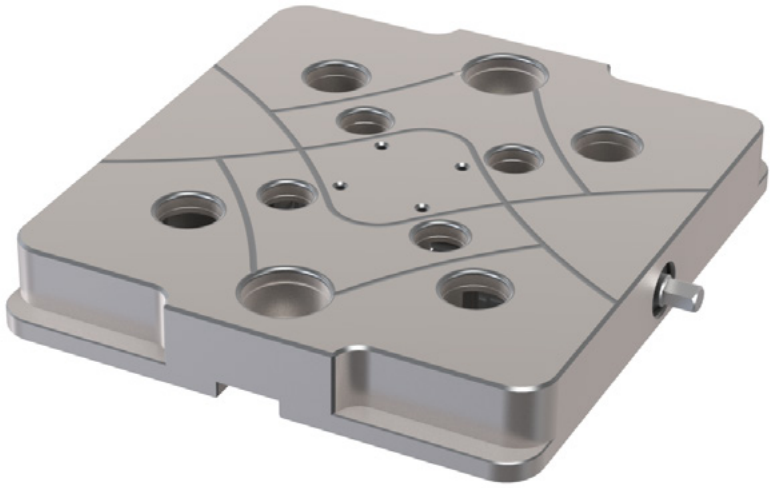


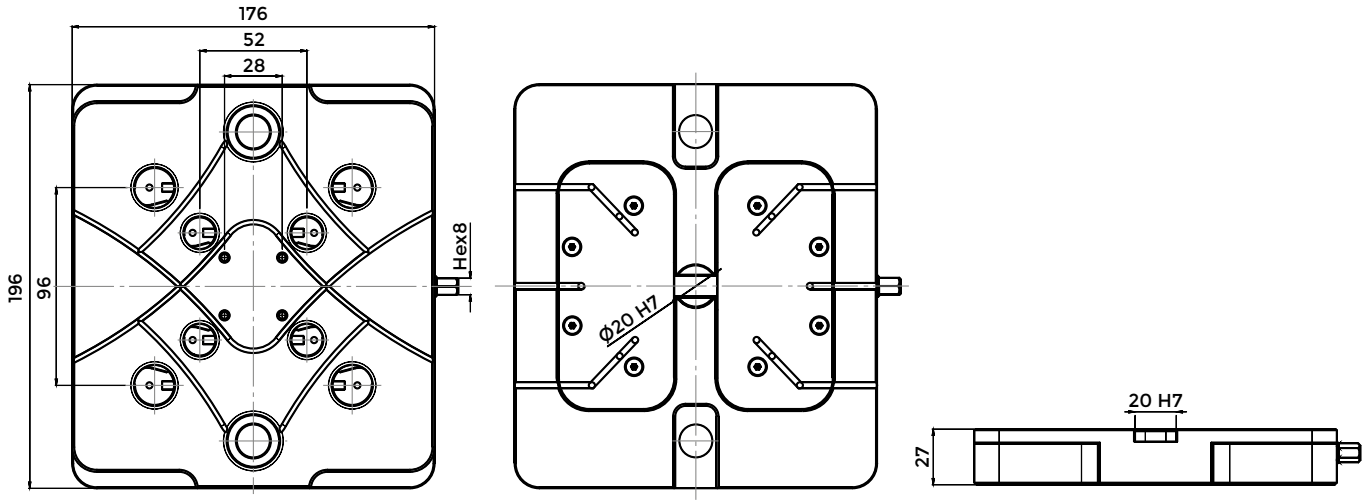
COD.	B	A	C max	C1 max	TIGHTENING TORQUE	CLAMPING FORCE
MRF125X426	125	426	115	232	200 Nm	40Kn

FEATURES:

- Induction hardened guideways
- Grinded body (GGG60 nodular cast iron)
- Side rails for conventional clamping
- Can be used on machine table or on towers
- Keyways for alignment and H6 locating holes
- Jaw width 125 mm
- Fixed jaw enhances simple programming thanks to constant zero
- Heat treated jaws
- Clamping force up to 40 kN
- Rigid and robust design
- Maximum clamping range of 355 mm
- Equipped with a mechanical spindle without force amplification
- Wide range of add-on jaws and rail available

ZERO POINT ZK1





COD.	DIMENSIONS	ZERO POINT SYSTEM	ACCURACY	TIGHTENING TORQUE	HOLDING FORCE
ZK1	196X176X27	96/52 mm	0,01 MM	45 Nm	60 kN

FEATURES:

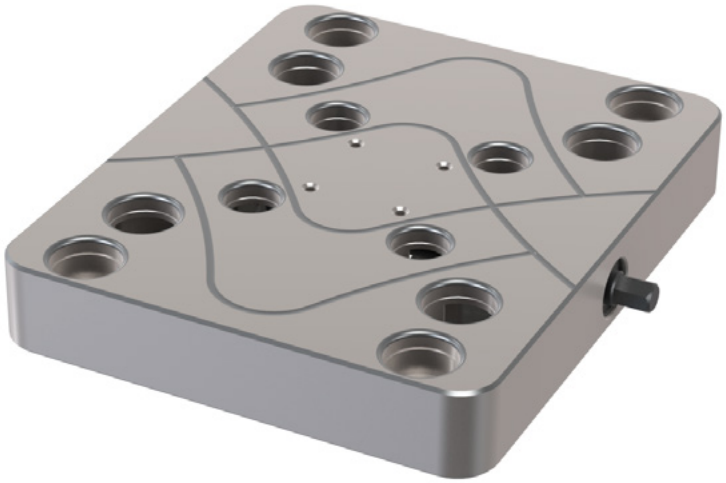
- Repetability less than 10µm
- Industry standard 52 and 96 centring pins spacing in one plate
- Surface treated steel body construction

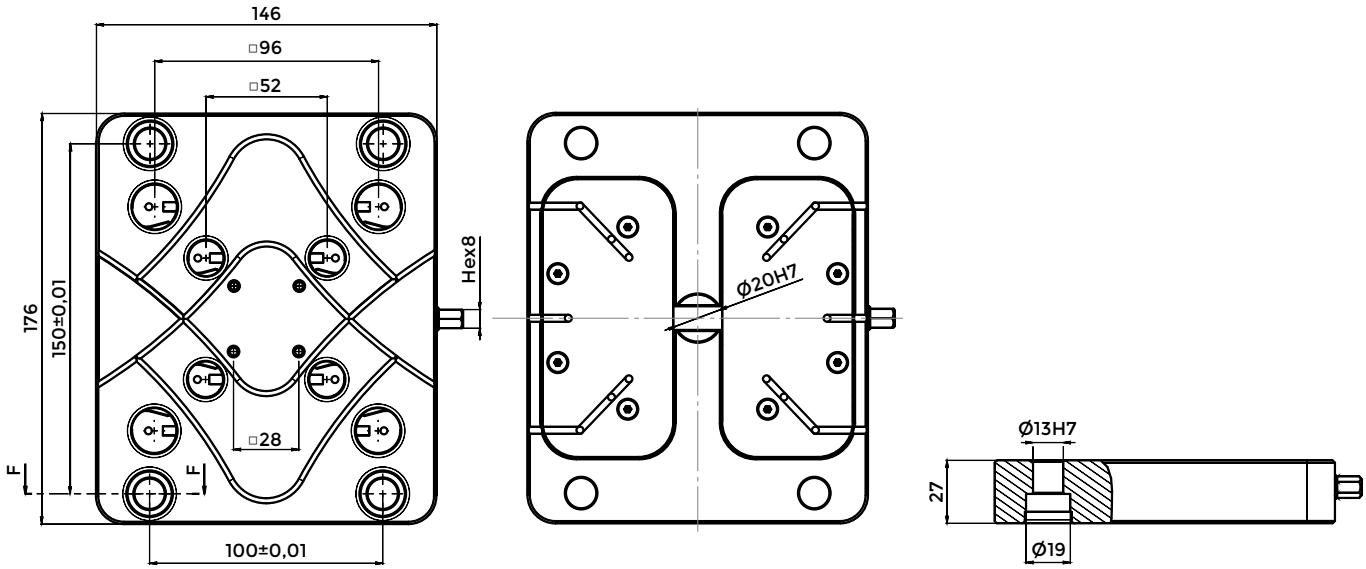
AVAILABLE MOUNTING KITS

K-MKS 

K-MKC 

ZERO POINT ZK2





COD.	DIMENSIONS	ZERO POINT SYSTEM	ACCURACY	MAX. TIGHTENING TORQUE	HOLDING FORCE
ZK2	172X146X27	96/52 mm	0,01 MM	45 Nm	60 kN

FEATURES:

- Repetability less than 10µm
- Industry standard 52 and 96 centring pins spacing in one plate
- Surface treated steel body construction

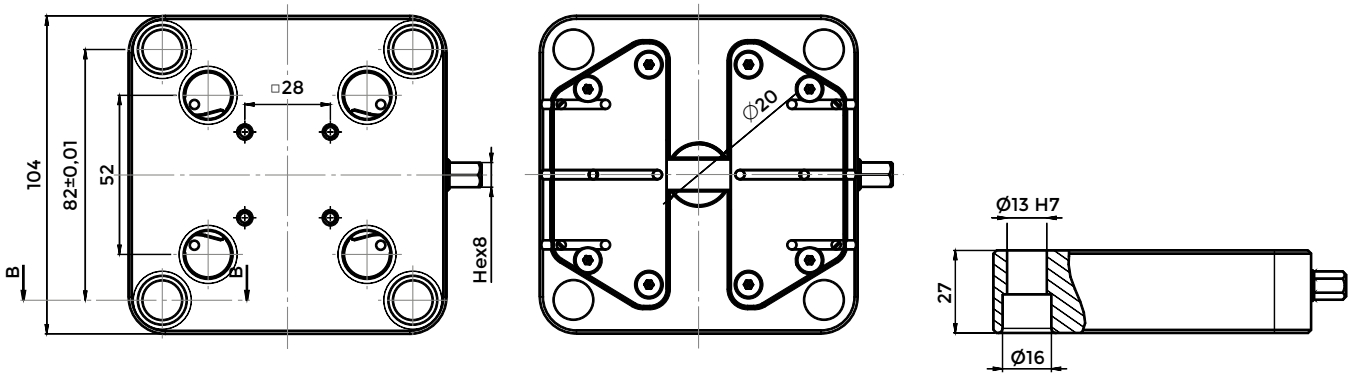
AVAILABLE MOUNTING KITS

K-MKB



ZERO POINT ZK3





COD.	DIMENSIONS	ZERO POINT SYSTEM	ACCURACY	MAX. TIGHTENING TORQUE	HOLDING FORCE
ZK3	104X104X27	52 mm	0,01 MM	45 Nm	60 kN

FEATURES:

- Repetability less than 10µm
- Industry standard 52mm centring pins spacing in one plate
- Surface treated steel body construction

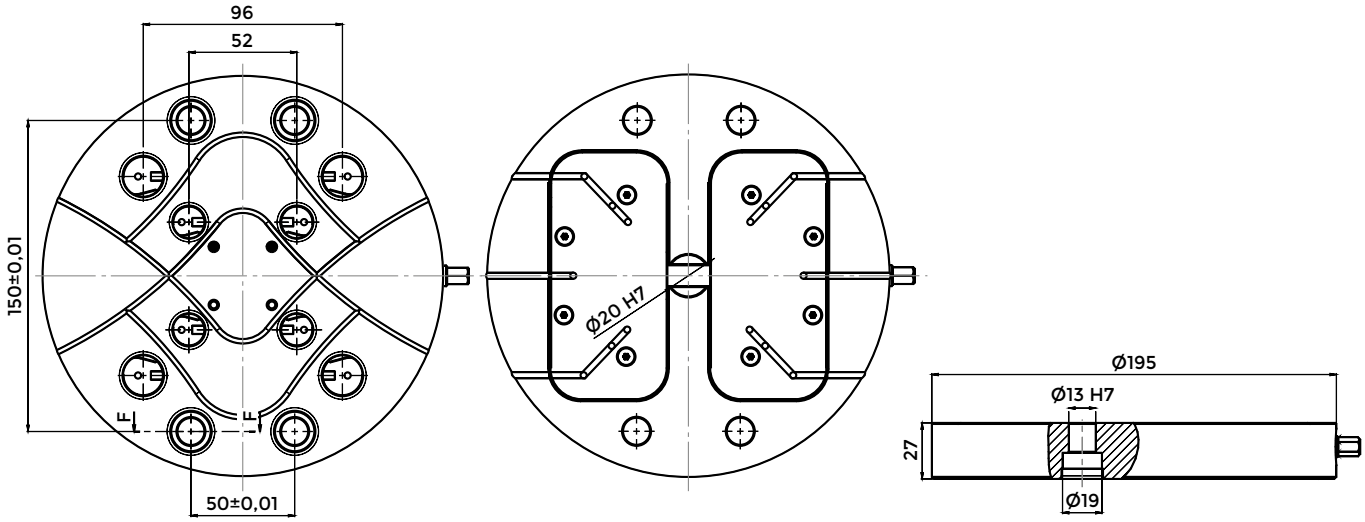
AVAILABLE MOUNTING KITS

K-MKB



ZERO POINT ZK4 X 195





COD.	DIMENSIONS	ZERO POINT SYSTEM	ACCURACY	MAX. TIGHTENING TORQUE	HOLDING FORCE
ZKC4	DIAM.195X27	96/52 mm	0,01 MM	45 Nm	60 kN

FEATURES:

- Repetability less than 10µm
- Industry standard 52 and 96 centring pins spacing in one plate
- Surface treated steel body construction

AVAILABLE MOUNTING KITS



K-MKB

PAIR JAWS



JMB48



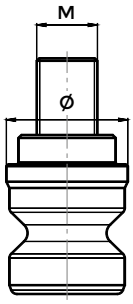
JMB78



JMB126

CENTRING PINS

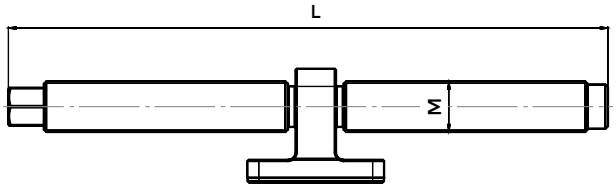




COD.	THREAD SIZE	DIAMETER	ZERO POINT SYSTEM
TSSC16	M8	Ø16	□52
TSSC20	M10	Ø20	96

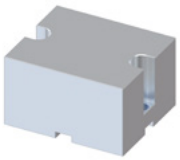
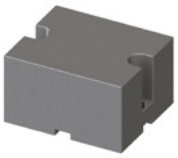
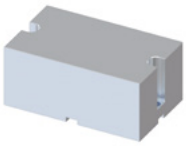
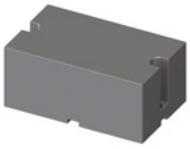
SCREW



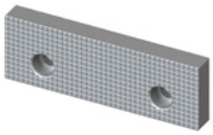
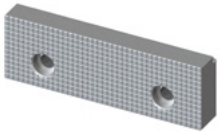
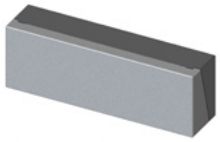


COD.	L	M
SK48X78	82,5	M12X1,5
SK48X118	122,5	M12X1,5
SK48X155	163	M12X1,5
SK78X110	111	M14X1,5
SK78X145	146	M14X1,5
SK78X185	186	M14X1,5
SK126X180	190	M20X1,5
SK126X230	237	M20X1,5
SK126X280	287	M20X1,5

ACCESSORIES

	CODE N.	DESCRIPTION
	JBAS78	Pair of basic soft jaws for 78mm vices
	JBAS126	Pair of basic soft clamp jaws for 126mm vices
	JALU78	Soft alloy clamp for 78mm base jaws
	JSTEEL78	Soft 16MnCr5 clamp for 78mm base jaws
	JALU126	Soft alloy clamp for 126mm base jaws
	JSTEEL126	Soft 16MnCr5 clamp for 126mm base jaws
	JRF 125.1	Plain jaw
	JRF 125.2	Stepped plain jaw
	JRF 125.3	Claw jaw
	JRF 125.4	Serrated jaw

ACCESSORIES

	CODE N.	DESCRIPTION
	JRF 125.5	Double serrated jaw
	JRF 125.6	Reversible jaw
	JRF 125.7	Prismatic jaw
	JRF 125.8	Pull down jaw
	AMMM1.4.0	Double serrated rail
	STMR1	Vice Stoper
	K-MKS	Mounting kit screw
	K-MKC	Mounting kit clamp
	K-MKB	Mounting kit bushing

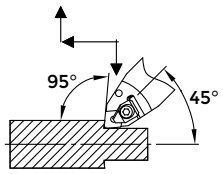


HSK-T TOOLHOLDERS AND TURNING TOOLS

DIN ISO 12164-3

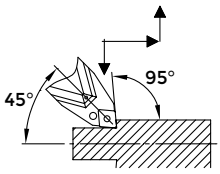
EXTERNAL (O.D.) TURNING TOOLS

DCM12 - DDM15



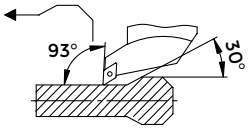
p. 248

PCMNR



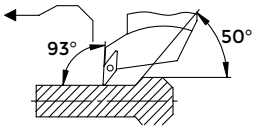
p. 249

SDJC



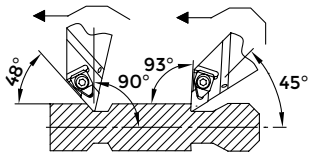
p. 250

SVJC



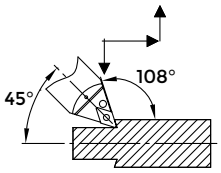
p. 252

DDMNL



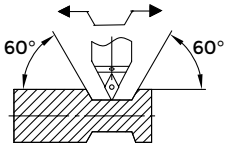
p. 248

PDNNR



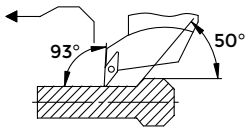
p. 249

SDNCN



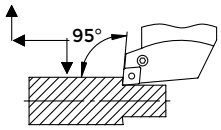
p. 251

SVJB



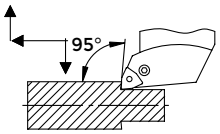
p. 252

PCLN



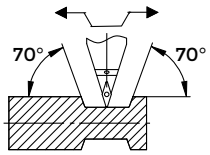
p. 248

PWLN



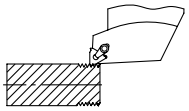
p. 250

SVVCN



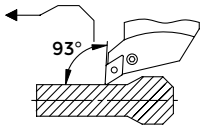
p. 251

THE



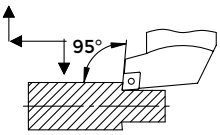
p. 252

PDJN



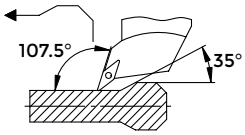
p. 249

SCLC



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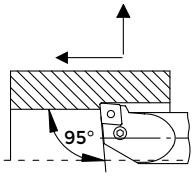
SVHC



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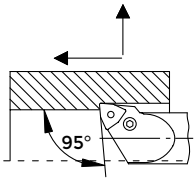
INTERNAL (I.D.) TURNING TOOLS

PCLN



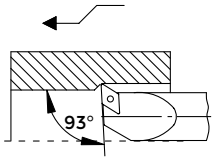
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PWLN



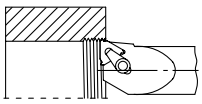
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SDUC



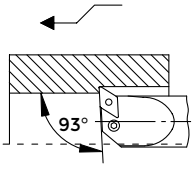
p. 254

THE



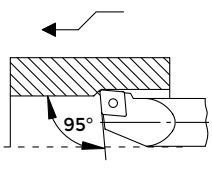
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PDUN



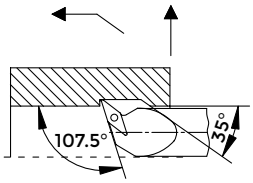
p. 253

SCLC



p. 254

SVQB



p. 254

IDENTIFICATION OF EXTERNAL (O.D.) TURNING TOOLS-HSK HOLDER

Coding example H 50 T S C L C L 12

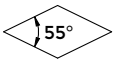
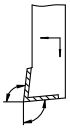
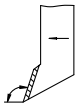
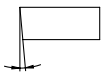
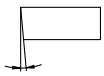
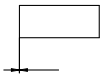
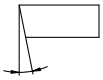
H	Type of holder	HSK - DIN 69893				
50	Holder size		32 - Ø32 40 - Ø40	50 - Ø50 63 - Ø63	80 - Ø80 100 - Ø100	125 - Ø125 160 - Ø160
T	Form	A + C				
S	Clamping system	C	D	M	P	S
C	Insert Shape	C (80°)	D (55°)	R	S	T	V (35°)	W (80°)
L	Shape of turning tools	A 90	B 75	C 90	D 45	E 60	F 90	G 90	H 107.5
		J 93	K 75	L 95	M 50	N 63	P 117.5	Q 15	R 75
		S 45	T 60	U 93	V 72.5	W 60	Y 85		
C	Clearance angle	B	C	N	P				
L	Feeding direction	L	R	N					
12	Insert cutting edge lenght	C - D - E - M - V	S	R	T	W			

TURNING MODULAR SYSTEM

- Adopting the famous HSK-DIN69893, in the several versions, and maintaining an interchangeability with the attacks for working centers, KINTEK offers the possibility to reduce, drastically, the times of set-up.
- Maximum rapidity in the tool change
- Great rigidity thanks to the big support surface
- The same cutting position
- Reduction of the vibrations
- Precision of interchangeability
- Optimal repeatability of positioning to the change tool: maximum error +/- 0,002 mm
- The conical bar hold is introduced in the appropriate center and, turning screw, a special clamp opens Locking the tool-holder taking advantage of the connection cone-plan
- Baluff chip hole

IDENTIFICATION OF INTERNAL (I.D.) TURNING TOOLS-HSK HOLDER

Coding example H 50 T 20 S T F C L 11

H	Type of holder	HSK - DIN 69893				
50	Holder size		32 - Ø32	50 - Ø50	80 - Ø80	125 - Ø125
			40 - Ø40	63 - Ø63	100 - Ø100	160 - Ø160
T	Form	A + C				
20	Turning tools diameter		8 - Ø8	12 - Ø12	20 - Ø20	32 - Ø32	50 - Ø50
			10 - Ø10	16 - Ø16	25 - Ø25	40 - Ø40	
S	Clamping system	 C	 D	 M	 P	 S
T	Insert Shape	 C	 D	 S	 T	 V	 W
F	Shape of turning tools	90  F	75  K	95  L	117.5  P	15  Q	93  U	 Z
C	Clearance angle	 B	 C	 N	 P			
L	Feeding direction	 L	 R	 N				
11	Insert cutting edge lenght	 C - D - V	 S	 T	 W			

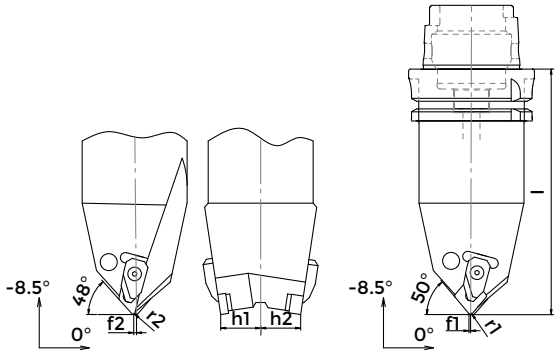
HSK DIN69893 TOOLS AND TOOLHOLDERS

HSK - T
All HSK tools and toolholders are manufactured according to DIN norm.
CONE'S TOLERANCE: According to DIN 69893
DRIVE KEY'S TOLERANCE:
The so-called ICTM tolerance was born to reduce the positive allowance between the spindle drive key and the holder key slot. The ICTM tolerance applied on these products to the drive key gives them a great capacity of precision.
The advantages of standard ICTM are multiple: excellent repeatability of change tool positioning, maximum error +/-0,005 giving the cutting edge always the same position, it permits a perfect tool interchangeability, it eliminates vibrations.

- Manufactured with casehardening Steel
- Casehardened with depth 0,4-0,5 mm
- Hardened-Tempered-Black oxided
- Hardness HRC 58+-2 , strenght 800-1000 N/mm2
- Internal and external grinding finish
- Working of the front side (tool seat)
- Taking up drive keys to ICTM tolerance
- Tested 100% with certified measuring instruments

HSK-T EXTERNAL TURNING TOOLS



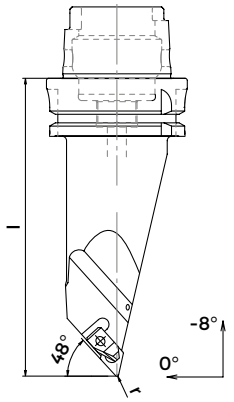


DCM12DDM15

ICTM standard (HSK-T)

COD.	HSK	l	f1	r1	h1	f2	r2	h2	INSERT N.1	INSERT N.2	SUPPORT PAD - 1	SUPPORT PAD - 2	SHIM PIN	CLAMP	SPRING	SCREW
H63TDCM12DDM151	63	100	0.9	0.8	20	0.9	0.8	20	CN..1204..	DN..1506..	SPCN12	SPDN15	SP02	STF12L-M	M2	VT22
H63TDCM12DDM15	63	145	0.9	0.8	20	0.9	0.8	20	CN..1204..	DN..1506..	SPCN12	SPDN15	SP02	STF12L-M	M2	VT22



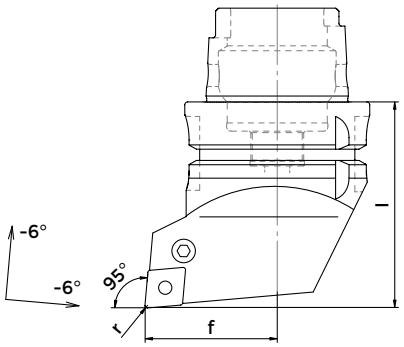


DDMNL

ICTM standard (HSK-T)

COD.	HSK	l	r	INSERT	SUPPORT PAD	SHIM PIN	CLAMP	SPRING	SCREW
H63TDDMNL15-100	63	100	0.8	DN.1506..	SPDN15	SP02	STF12L	M2	VT22
H63TDDMNL15-145	63	145	0.8	DN.1506..	SPDN15	SP02	STF12L	M2	VT22





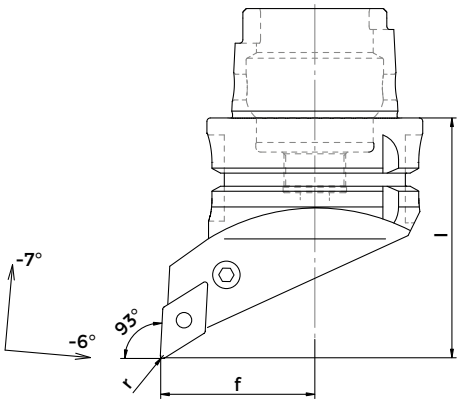
PCLN

ICTM standard (HSK-T)

COD.	HSK	l	f	r	INSERT	SUPPORT PAD	SHIM PIN	CLAMP	SCREW
H63TPCLNL/R12	63	70	45	0.8	CNM.1204..	SPCN12	SP02	LV02	VT02
H63TPCLNL16	63	70	45	1,2	CNM.160612	SPCN16	SP03	LV03	VT03
H100TPCLNL/R12	100	90	65	0.8	CNM.1204..	SPCN12	SP02	LV02	VT02
H100TPCLNL/R16	100	90	65	1,2	CNM.160612	SPCN16	SP03	LV03	VT03

HSK-T EXTERNAL TURNING TOOLS



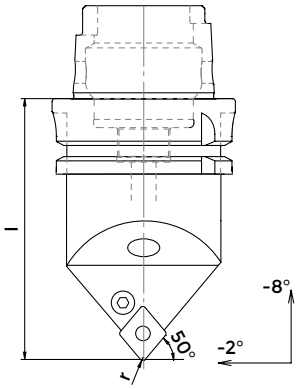


PDJN

ICTM standard (HSK-T)

COD.	HSK	l	f	r	INSERT	SUPPORT PAD	SHIM PIN	CLAMP	SCREW
H63TPDJNL/R15	63	70	45	0.8	DNM.1506..	SPDN15	SP02	LV05	VT05
H100TPDJNL/R15	100	90,15	66,15	0,8	DNM.1506..	SPDN15	SP02	LV05	VT05



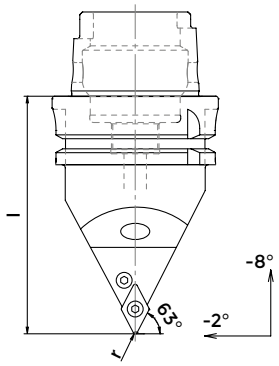


PCMNR

ICTM standard (HSK-T)

COD.	HSK	l	r	INSERT	SUPPORT PAD	SHIM PIN	CLAMP	SCREW
H63TPCMNR12-90	63	90	0.8	CN.1204..	SPCN12	SP02	LV02	VT02
H63TPCMNR12-100	63	100	0.8	CN.1204..	SPCN12	SP02	LV02	VT02
H63TPCMNL/R12-145	63	145	0.8	CN.1204..	SPCN12	SP02	LV02	VT02





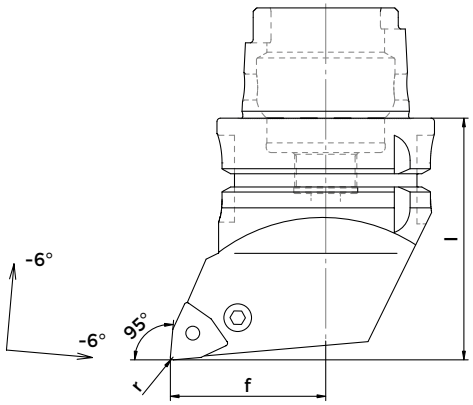
PDNNR

ICTM standard (HSK-T)

COD.	HSK	l	r	INSERT	SUPPORT PAD	SHIM PIN	CLAMP	SCREW
H63TPDNNR15-90	63	90	0.8	DN.1506..	SPDN15	SP02	LV05	VT05
H63TPDNNR15-100	63	100	0.8	DN.1506..	SPDN15	SP02	LV05	VT05
H63TPDNNR15-145	63	145	0.8	DN.1506..	SPDN15	SP02	LV05	VT05

HSK-T EXTERNAL TURNING TOOLS

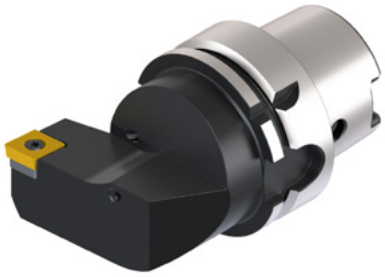


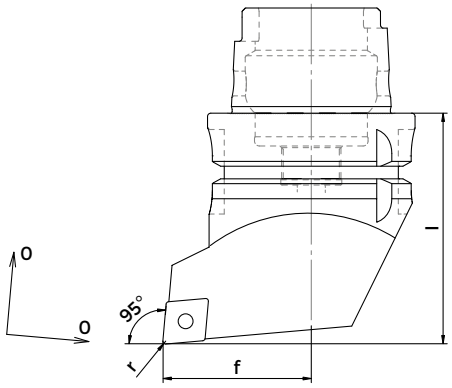


PWLN

ICTM standard (HSK-T)

COD.	HSK	l	f	r	INSERT	SUPPORT PAD	SHIM PIN	CLAMP	SCREW
									
H63TPWLNL/R08	63	70	45	0.8	WN..0804..	SPWN08	SP02	LV02	VT02



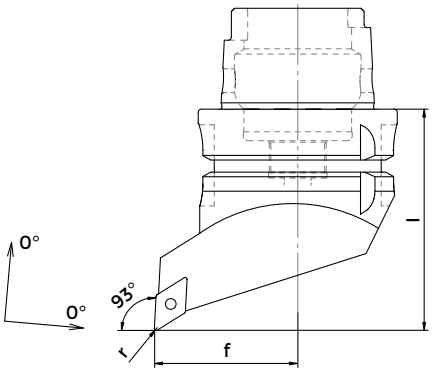


SCLC

ICTM standard (HSK-T)

COD.	HSK	l	f	r	INSERT	SUPPORT PAD	BUSH	SCREW
								
H63TSCLCL/R12	63	70	45	0.8	CC..1204..	SPCC12	VTA01	TR4





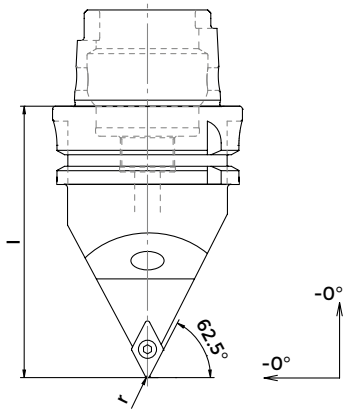
SDJC

ICTM standard (HSK-T)

COD.	HSK	l	f	r	INSERT	SUPPORT PAD	BUSH	SCREW
								
H63TSDJCL/R11	63	70	45	0.8	DC..11T3..	SPDC11	VTA02	TR8

HSK-T EXTERNAL TURNING TOOLS



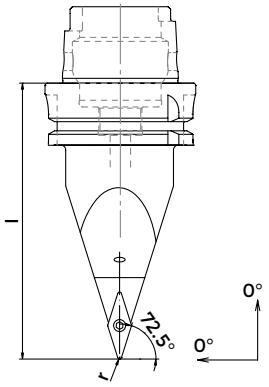


SDNCN

ICTM standard (HSK-T)

COD.	HSK	l	r	INSERT	SUPPORT PAD	BUSH	SCREW
H63TSDNCN11-145	63	145	0.8	DC..11T3..	SPDC11	VTA02	TR8



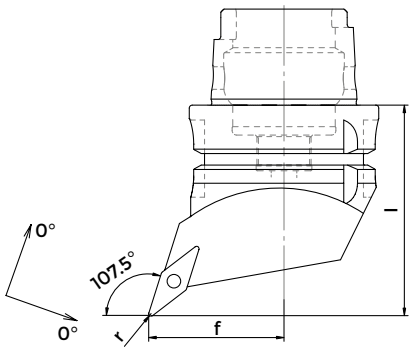


SVVCN

ICTM standard (HSK-T)

COD.	HSK	l	r	INSERT	SUPPORT PAD	BUSH	SCREW
H63TSVVCN16-90	63	90	0.8	VC..1604..	SPVC16	VTA02	TR8
H63TSVVCN16-145	63	145	0.8	VC..1604..	SPVC16	VTA02	TR8





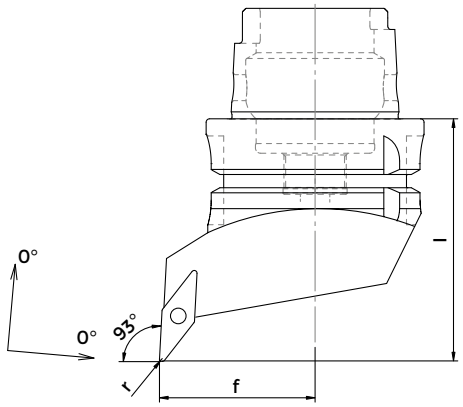
SVHC

ICTM standard (HSK-T)

COD.	HSK	l	f	r	INSERT	SUPPORT PAD	BUSH	SCREW
H63TSVHCL/R16	63	70	45	0.8	VC..1604..	SPVC16	VTA02	TR8

HSK-T EXTERNAL TURNING TOOLS

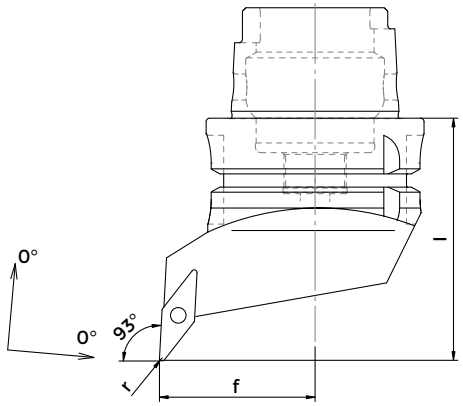




SVJC — **ICTM standard (HSK-T)**

COD.	HSK	l	f	r	INSERT	SUPPORT PAD	BUSH	SCREW
H63TSVJCL/R16	63	75	45	0.8	VC..1604..	SPVC16	VTA02	TR8
H100TSVJCL/R16	100	90,15	66,15	0,8	VC..1604..	SPVC16	VTA02	TR8



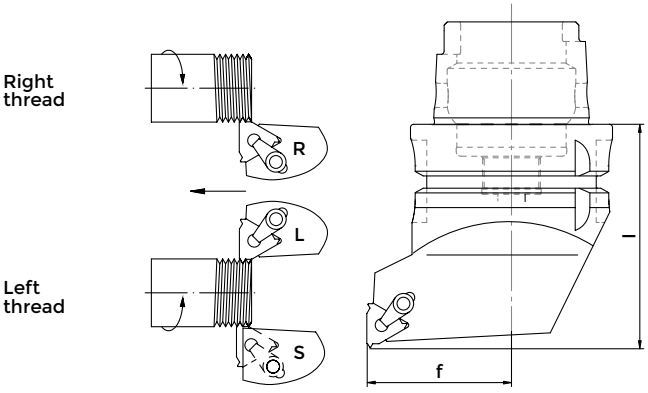


SVJB — **ICTM standard (HSK-T)**

COD.	HSK	l	f	r	INSERT	SUPPORT PAD	BUSH	SCREW
H63TSVJBL/R16	63	75	45	0.8	VB..1604..	SPVC16	VTA02	TR8

HSK-T EXTERNAL TURNING TOOLS FOR THREADING



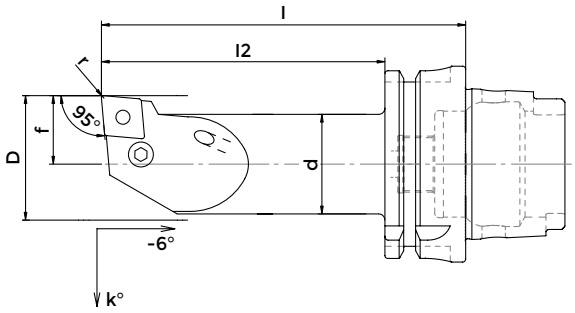


THE — **ICTM standard (HSK-T)**

COD.	HSK	l	f	r	SUPPORT PAD	SCREW	CLAMP
H63TTHEL16	63	70	45	16EL	SPTF16	VT27	SETK51
H63TTHER16	63	70	45	16ER	SPTF16	VT27	SETK51

HSK-T INTERNAL TURNING TOOLS



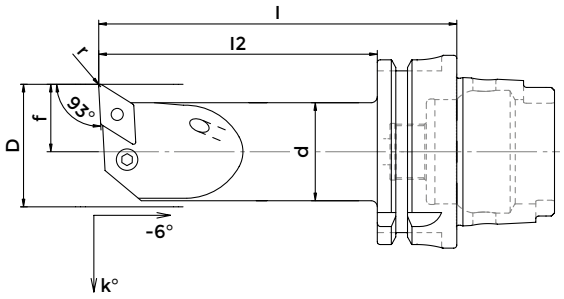


PCLN

ICTM standard (HSK-T)

COD.	HSK	d	l	l2	f	k°	D	r	INSERT	SUPPORT PAD	SHIM PIN	CLAMP	SCREW
H63T25PCLNL/R12	63	25	100	74	17	-12	32	0.8	CNM.1204..	-	-	LV02	VT11
H63T32PCLNL/R12	63	32	120	94	22	-10	40	0.8	CNM.1204..	SPCN12	SP02	LV02	VT02
H63T40PCLNL/R12	63	40	140	114	27	-10	50	0.8	CNM.1204..	SPCN12	SP02	LV02	VT02
H100T40PCLNL/R12	100	40	160	131	27	-10	50	0.8	CNM.1204..	SPCN12	SP02	LV02	VT02
H100T50PCLNL/R16	100	50	190	161	35	-8	60	0,8	CNM.1604..	SPCN16	SP03	LV03	VT03



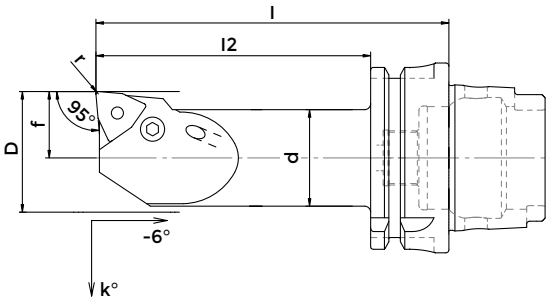


PDUN

ICTM standard (HSK-T)

COD.	HSK	d	l	l2	f	k°	D	r	INSERT	SUPPORT PAD	SHIM PIN	CLAMP	SCREW
H63T32PDUNL/R15	63	32	120	94	22	-15	40	0.8	DN..1506..	SPDN15	SP02	LV05	VT05
H63T40PDUNL/R15	63	40	140	114	27	-12	50	0.8	DN..1506..	SPDN15	SP02	LV05	VT05





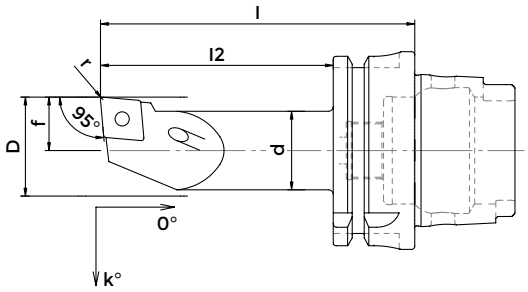
PWLN

ICTM standard (HSK-T)

COD.	HSK	d	l	l2	f	k°	D	r	INSERT	SUPPORT PAD	SHIM PIN	CLAMP	SCREW
H63T25PWLNL/R08	63	25	100	74	17	-12	32	0.8	WN..0804..	-	-	LV02	VT11
H63T32PWLNL/R08	63	32	120	94	22	-12	40	0.8	WN..0804..	SPWN08	SP02	LV02	VT02
H63T40PWLNL/R08	63	40	140	114	27	-10	50	0.8	WN..0804..	SPWN08	SP02	LV02	VT02

HSK-T INTERNAL TURNING TOOLS



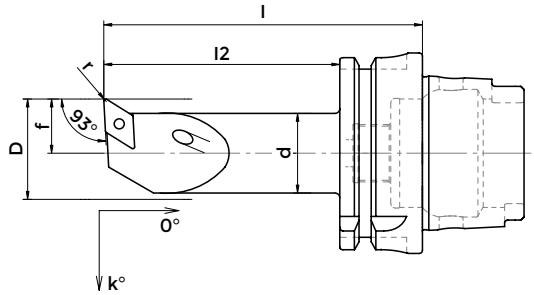


SCLC

ICTM standard (HSK-T)

COD.	HSK	d	l	l2	f	k°	D	r	INSERT	SUPPORT PAD	BUSH	SCREW
H63T20SCLCL/R09	63	20	85	59	13	-8	25	0.8	CC..09T3..	-	-	TR12
H63T25SCLCL/R12	63	25	100	74	17	-5	32	0.8	CC..1204..	-	-	TR13



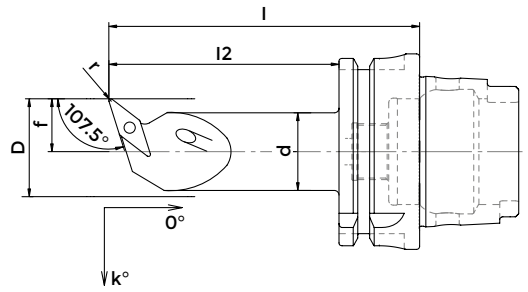


SDUC

ICTM standard (HSK-T)

COD.	HSK	d	l	l2	f	k°	D	r	INSERT	SUPPORT PAD	BUSH	SCREW
H63T20SDUCL/R11	63	20	85	59	13	-8	25	0.8	DC..11T3..	-	-	TR12
H63T25SDUCL/R11	63	25	100	74	17	-5	32	0.8	DC..11T3..	-	-	TR14
H63T32SDUCL/R11	63	32	120	94	22	-5	40	0.8	DC..11T3..	SPDC11	VTA02	TR8





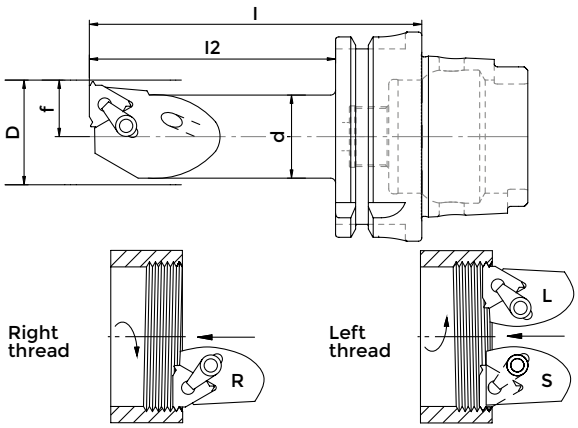
SVQB

ICTM standard (HSK-T)

COD.	HSK	d	l	l2	f	k°	D	r	INSERT	SUPPORT PAD	BUSH	SCREW
H63T32SVQBL/R16	63	32	120	94	22	-10	40	0.8	VB..1604..	SPVC16	VTA02	TR8
H63T40SVQBL/R16	63	40	140	114	27	-10	50	0.8	VB..1604..	SPVC16	VTA02	TR8
H100T50SVQBL/R16	100	50	190	161	35	-8	60	0.8	VB..1604..	SPVC16	VTA02	TR8

HSK-T INTERNAL TURNING TOOLS



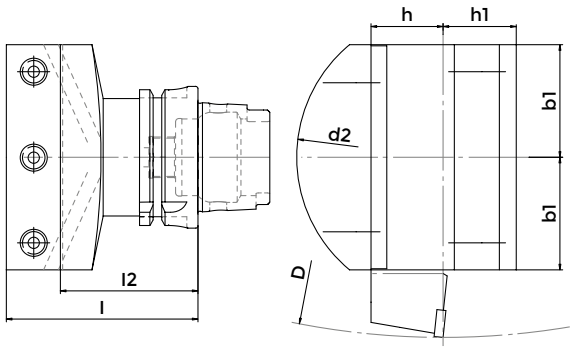


THE **ICTM standard (HSK-T)**

COD.	HSK	d	l	l2	f	D	INSERT	SUPPORT PAD	SCREW	CLAMP
										
H63T20THEL16	63	20	85	59	14	25	16IL	SPTF16	VT27	SETK51
H63T20THER16	63	20	85	59	14	25	16IR	SPTF16	VT27	SETK51

RADIAL TOOLHOLDER



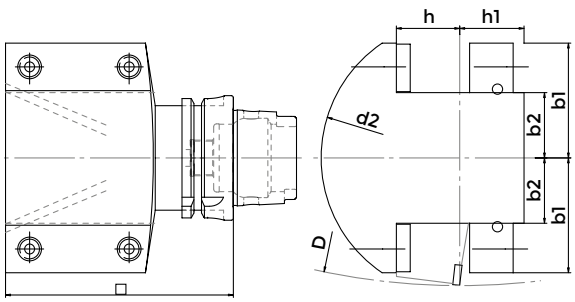


DIN 69893 T **ICTM standard (HSK-T)**

COD.	DESCRIPTION	HSK	d2	D	b1	h	h1	l	l2
141-11408	H63TRAD32/25	63	130	340	50	32/25	32.5	85	50
141-11609	H100TRAD32/32	100	135	340	52,5	32	32,5	97	65

AXIAL TOOLHOLDER



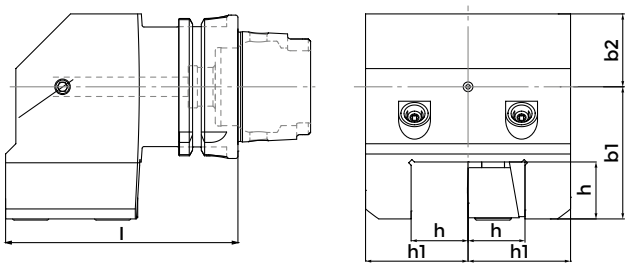


DIN 69893 T **ICTM standard (HSK-T)**

COD.	DESCRIPTION	HSK	d2	D	b1	b2	h	h1	l
142-11405	H63TAX25/32	63	110	305	40	15	32/25	26.5	120

AXIAL TOOLHOLDER

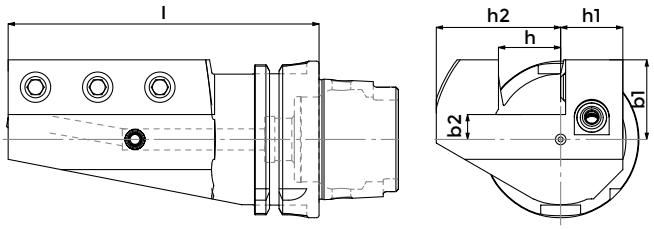




DIN 69893 T — ICTM standard (HSK-T)

COD.	DESCRIPTION	HSK	b1	b2	h	h1	l
142-11402	H63TAD25R	63	58	32	25	45	102

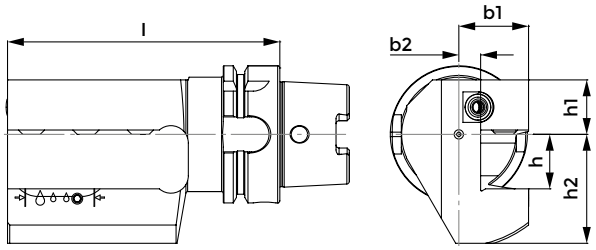




DIN 69893 T — ICTM standard (HSK-T)

COD.	DESCRIPTION	HSK	b1	b2	h	h1	h2	l
142-21401	H63TA25L	63	32	10	25	25	50	125
142-11403	H63TA25R	63	32	10	25	25	50	125
142-21604	HSK100TSL25X25	100	55	33	25	30	55	160
142-11603	HSK100TSR25X25	100	55	33	25	30	55	160
142-21603	HSK100TSL32X32	100	53	25	32	30	62	189
142-11604	HSK100TSR32X32	100	53	25	32	30	62	189





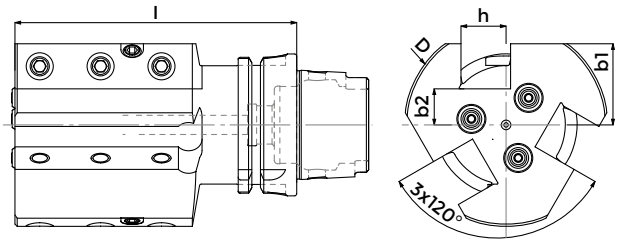
DIN 69893 - HSK63T — ICTM standard (HSK-T)

COD.	DESCRIPTION	HSK	b1	b2	h	h1	h2	l
142-21401-IC	H63TA25L-IC	63	32	10	25	25	50	125
142-11403-IC	H63TA25R-IC	63	32	10	25	25	50	125

note: with internal coolant

AXIAL TOOLHOLDER



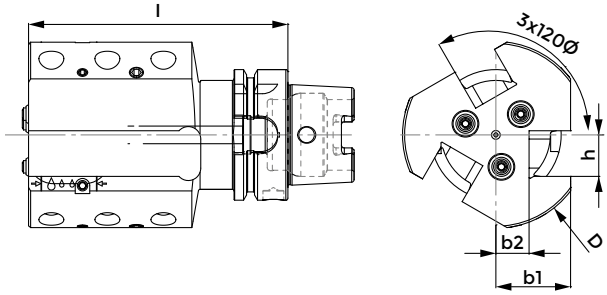


DIN 69893 T

ICTM standard (HSK-T)

COD.	DESCRIPTION	HSK	D	b1	b2	h	l
142-21402	H63TAT20L	63	90	36	16	20	125
142-11404	H63TAT20R	63	90	36	16	20	125





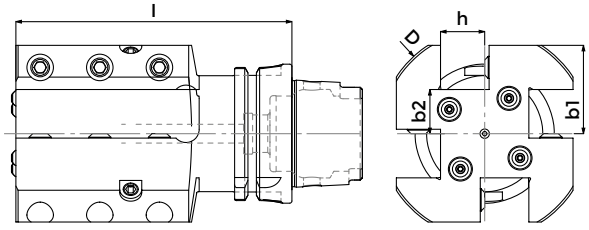
DIN 69893 - HSK63T

ICTM standard (HSK-T)

COD.	DESCRIPTION	HSK	b1	b2	h	D	l
142-21402-IC	H63TAT20L-IC	63	36	16	20	90	125
142-11404-IC	H63TAT20R-IC	63	36	16	20	90	125

note: with internal coolant





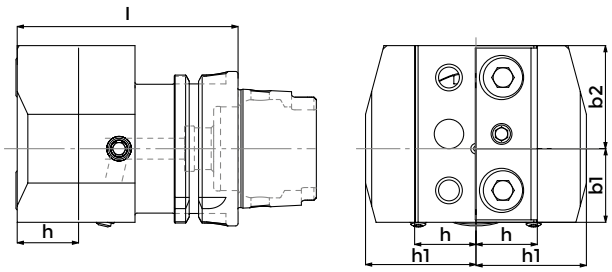
DIN 69893 T

ICTM standard (HSK-T)

COD.	DESCRIPTION	HSK	D	b1	b2	h	l
142-21403	H63TAQ20L	63	95	40	20	20	125
142-21404	H63TAQ20R	63	95	40	20	20	125

RADIAL TOOLHOLDER



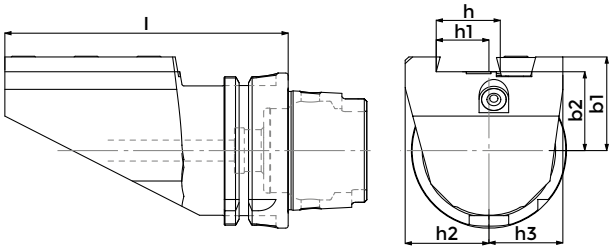


DIN 69893 T **ICTM standard (HSK-T)**

COD.	DESCRIPTION	HSK	b1	b2	h	h1	l
141-11406	H63TRD25R	63	30	42	25	45	90
141-11602	H100TRD25R	100	20	65	25	57	146

AXIAL TOOLHOLDER FOR CUT OFF TOOLS

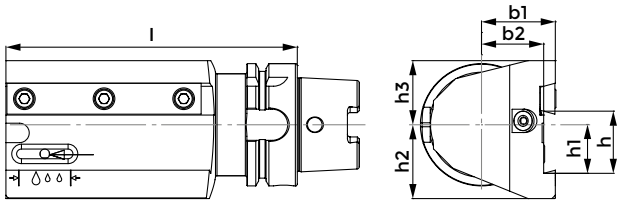




DIN 69893 T **ICTM standard (HSK-T)**

COD.	DESCRIPTION	HSK	b1	b2	h	h1	h2	h3	l
147-51405	H63TSCA26L	63	38	32	26	21.4	34	30	115
147-51406	H63TSCA26R	63	38	32	26	21.4	34	30	115
147-51407	H63TSCA32L	63	38	32	32	25	38	33	150
147-51408	H63TSCA32R	63	38	32	32	25	38	33	150





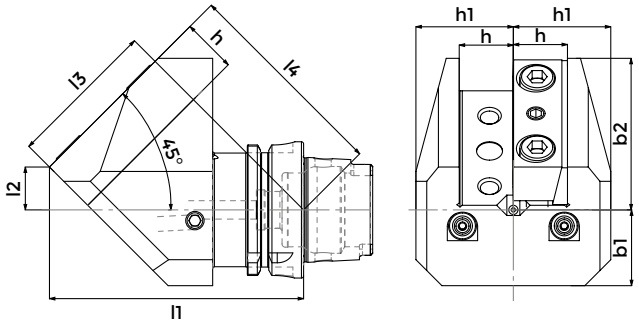
DIN 69893 - HSK63T **ICTM standard (HSK-T)**

COD.	DESCRIPTION	HSK	b1	b2	h	h1	h2	h3	l
147-51405-IC	H63TSCA26L-IC	63	38	32	26	21.4	34	30	115
147-51407-IC	H63TSCA32L-IC	63	38	32	32	25	38	33	150
147-51408-IC	H63TSCA32R-IC	63	38	32	32	25	38	33	150

note: with internal coolant

45° TOOLHOLDER

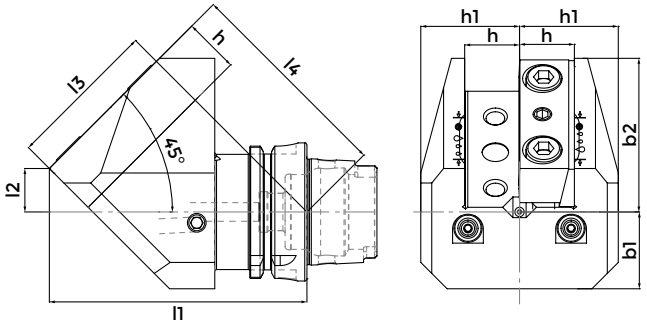




DIN 69893 T — ICTM standard (HSK-T)

COD.	DESCRIPTION	HSK	b1	b2	h	h1	l1	l2	l3	l4
141-11405	H63TARD25L	63	35	70	25	45	117.4	19.8	69	97



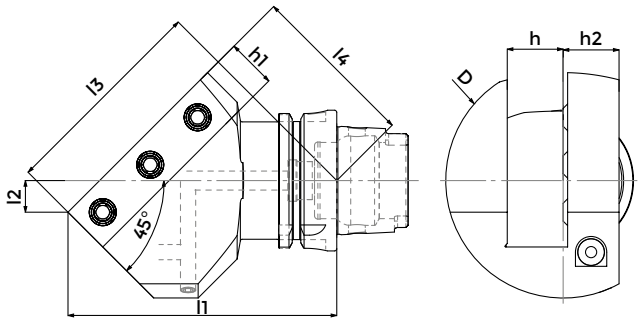


DIN 69893 - HSK63T — ICTM standard (HSK-T)

COD.	DESCRIPTION	HSK	b1	b2	h	h1	l1	l2	l3	l4
141-11405-IC	H63TARD25L-IC	63	35	70	25	45	117.4	19.8	69	97

note: with internal coolant



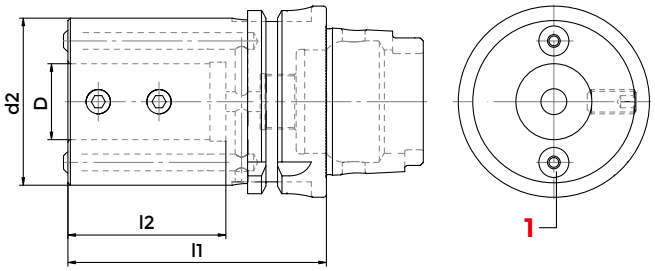


DIN 69893 T — ICTM standard (HSK-T)

COD.	DESCRIPTION	HSK	D	h	h1	h2	l1	l2	l3	l4
141-11407	H63TAR25L	63	105	25	22	25	120	14.1	95	75
141-21401	H63TAR25R	63	105	25	22	25	120	14.1	95	75
141-11601	H100TAR25L	100	115	25	22	28	172.4	24	139	105

AXIAL BORING BAR HOLDER





DIN 69893 T

ICTM standard

COD.	DESCRIPTION	HSK	D	d2	l1	l2	1 COOLANT NOOSE
							
145-21201	H40TAX-E2x08	40	8	32	60	37	833-001060
145-21202	H40TAX-E2x10	40	10	34	60	37	833-001060
145-21203	H40TAX-E2x12	40	12	36	65	40	833-001060
145-21204	H40TAX-E2x16	40	16	40	70	42	833-001060
145-21205	H40TAX-E2x20	40	20	45	70	42	833-001070
145-21402	H63TAX-E2x08	63	8	32	70	40	833-001070
145-21403	H63TAX-E2x10	63	10	38	75	45	833-001070
145-21404	H63TAX-E2x12	63	12	40	75	45	833-001070
145-21406	H63TAX-E2x16	63	16	45	80	50	833-001070
145-21408	H63TAX-E2x20	63	20	50	80	50	833-001070
145-21409	H63TAX-E2x25	63	25	55	85	52	833-001070
145-21410	H63TAX-E2x32	63	32	72	95	58	833-001070
145-21411	H63TAX-E2x40	63	40	80	120	72	833-001080
145-21606	H100TAX-E2x16	100	16	45	85	50	833-001070
145-21607	H100TAX-E2x20	100	20	50	85	50	833-001070
145-21601	H100TAX-E2x25	100	25	55	85	48	833-001070
145-21602	H100TAX-E2x32	100	32	72	95	58	833-001080
145-21603	H100TAX-E2x40	100	40	80	110	73	833-001080
145-21604	H100TAX-E2x50	100	50	90	120	82	833-001080

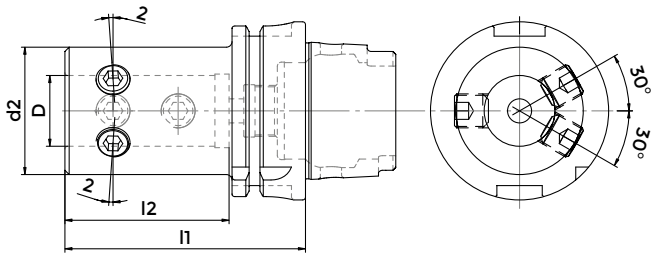
ACCESSORIES



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AXIAL HOLDER FOR INDEXABLE INSERT DRILLS WITH INTERNAL COOLANT SUPPLY



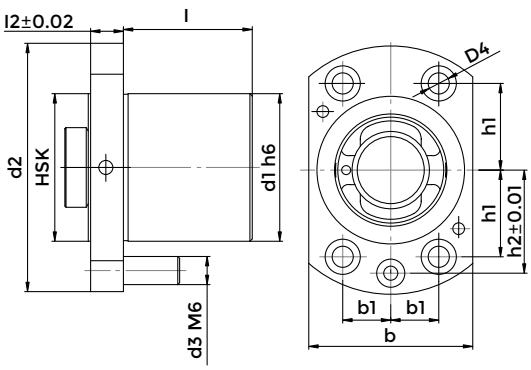


DIN 69893 T **ICTM standard**

COD.	DESCRIPTION	HSK	d	d2	l1	l2
145-11406	H63TAX-E1x16	63	16	36	80	54
145-11408	H63TAX-E1x20	63	20	40	80	54
145-11409	H63TAX-E1x25	63	25	45	85	59
145-11410	H63TAX-E1x32	63	32	52	90	63
145-11411	H63TAX-E1x40	63	40	65	105	73

ADAPTER WITH HSK ATTACHMENT



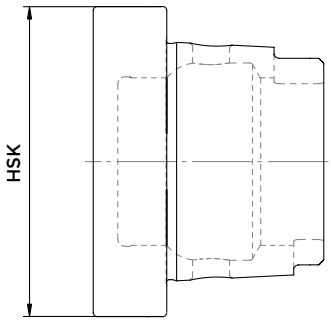


DIN 69893 A+C **ICTM standard**

COD.	HSK	d1	d2	d3	D4	l	l2	b	b1	h1	h2
H40TBSL	40	40	68	8	10	33	12	45	13,5	23	27
H63TBSL	63	63	106	12	9	55	15	70	20.5	37	44
H100TBSL	100	90	142	12	18	88	24	105	37	47	60

PROTECTIVE CAP



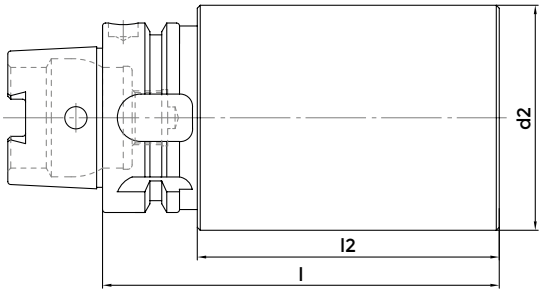


DIN 69893 A+C

COD.	HSK
H32ATP	32
H40ATP	40
H50ATP	50
H63ATP	63
H100ATP	100

BLANK TOOLHOLDER FOR SPECIAL TOOLS





DIN 69893 T

ICTM standard

COD.	HSK	d2	l	l2
H63T080190SML	63	80	190	158
H63T130095SML	63	130	95	63
HSK100TH100D135	100	135	100	54
HSK100TH305D99	100	99	305	259
HSK100TH220D100	100	100	220	174
HSK100TH189D135	100	135	189	143

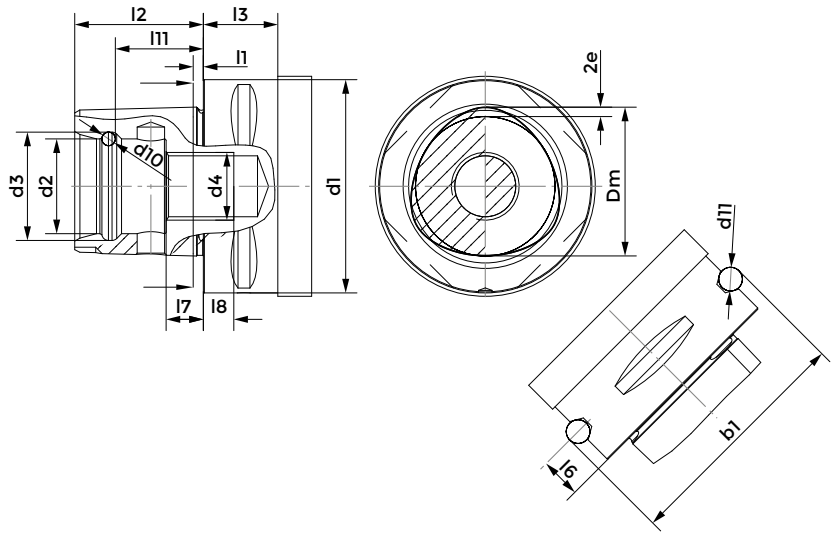
READY, ALWAYS.



POLYGONAL TOOLHOLDERS AND TURNING TOOLS

DIN ISO 26623-1

POLYGONAL SHANKS DATA SHEET

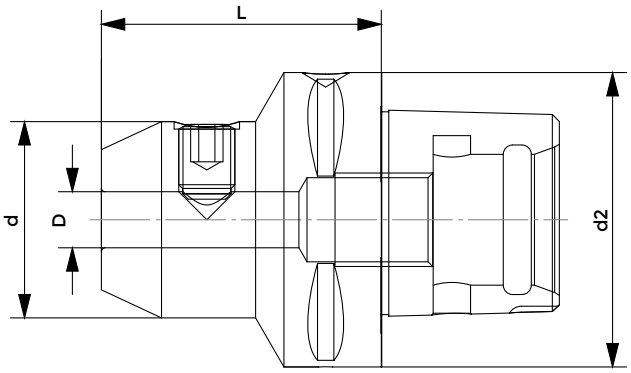


DIN ISO 26623-1

	C32	C40	C50	C63	C80	C80X	C100
b1	39	46	59,3	70,7	86	110	110
d1	32	40	50	63	80	100	100
d2	15	18	21	28	32	32	43
d3	16,5	20	24	32	38	38	50,5
d4	M12x1,5	M14x1,5	M16x1,5	M20x2	M20x2	M20x2	M24x2
d10	1,5	2	3	4	6	6	7,5
d11	5	5	7	7	7	10	10
Dm	22	28	35	44	55	55	72
e	0,7	0,9	1,12	1,4	2	2	2,8
l1	2,5	2,5	3	3	3	3	3
l2	19	24	30	38	48	48	60
l3	15	20	20	22	30	32	36
l6	6	8	10	12	12	16	16
l7	6	9	10	11	20	20	20
l8	6	6	7	9	0	0	10
l11	13,5	17,5	22	26	34	34	42,5

POLYGONAL END MILL HOLDER WELDON



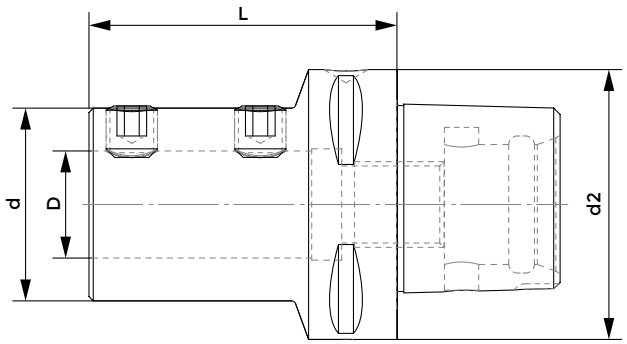


DIN ISO 26623-1

COD.	POLYGONAL	d2	d	D	L	G6.3 12000	SCREW
C40H50WE06	C40	40	25	6	50	•	811-106001
C40H50WE08	C40	40	28	8	50	•	811-106002
C40H50WE10	C40	40	35	10	50	•	811-106004
C40H55WE12	C40	40	42	12	55	•	811-106005
C40H55WE16	C40	40	48	16	55	•	811-106006
C50H55WE06	C50	50	25	6	55	•	811-106001
C50H55WE08	C50	50	28	8	55	•	811-106002
C50H65WE10	C50	50	35	10	65	•	811-106004
C50H65WE12	C50	50	42	12	65	•	811-106005
C50H65WE14	C50	50	42	14	65	•	811-106005
C50H65WE16	C50	50	48	16	65	•	811-106006
C50H65WE20	C50	50	52	20	65	•	811-106007
C50H80WE25	C50	50	65	25	80	•	811-106008
C63H55WE06	C63	63	25	6	55	•	811-106001
C63H55WE08	C63	63	28	8	55	•	811-106002
C63H60WE10	C63	63	35	10	60	•	811-106004
C63H60WE12	C63	63	42	12	60	•	811-106005
C63H60WE14	C63	63	44	14	60	•	811-106005
C63H65WE16	C63	63	48	16	65	•	811-106006
C63H65WE20	C63	63	52	20	65	•	811-106007
C63H80WE25	C63	63	64	25	80	•	811-106008
C63H90WE32	C63	63	72	32	90	•	811-106009
C80H70WE06	C80	80	25	6	70	•	811-106001
C80H70WE08	C80	80	28	8	70	•	811-106002
C80H70WE10	C80	80	35	10	70	•	811-106004
C80H70WE12	C80	80	42	12	70	•	811-106005
C80H70WE16	C80	80	48	16	70	•	811-106006
C80H70WE20	C80	80	50	20	70	•	811-106007
C80H80WE25	C80	80	52	25	80	•	811-106008
C80H80WE32	C80	80	72	32	80	•	811-106009
C80H110WE40	C80	80	80	40	110	•	811-106009

POLYGONAL INDEXABLE DRILL HOLDER



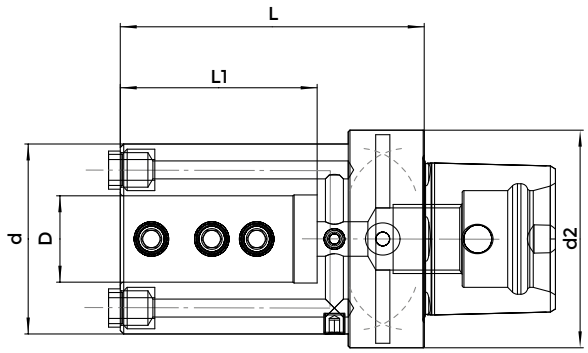


DIN ISO 26623-1

COD.	POLYGONAL	d	D	d2	L	G6.3 12000
C40H56D16PNT	C40	36	16	40	56	•
C40H60D20PNT	C40	40	20	40	60	•
C40H77D25PNT	C40	45	25	40	77	•
C50H52D08PNT	C50	44	8	50	52	•
C50H52D10PNT	C50	44	10	50	52	•
C50H52D12PNT	C50	44	12	50	52	•
C50H65D16PNT	C50	44	16	50	65	•
C50H60D20PNT	C50	44	20	50	60	•
C50H70D25PNT	C50	44	25	50	70	•
C63H60D08PNT	C63	44	8	63	60	•
C63H60D10PNT	C63	44	10	63	60	•
C63H60D12PNT	C63	44	12	63	60	•
C63H70D16PNT	C63	36	16	63	70	•
C63H70D20PNT	C63	40	20	63	70	•
C63H72D25PNT	C63	45	25	63	72	•
C63H75D32PNT	C63	52	32	63	75	•
C63H85D40PNT	C63	63	40	63	85	•
C80H80D20PNT	C80	40	20	80	80	•
C80H85D25PNT	C80	45	25	80	85	•
C80H90D32PNT	C80	52	32	80	90	•
C80H95D40PNT	C80	65	40	80	95	•

AXIAL BORING BAR HOLDER





DIN ISO 26623-1

COD.	POLYGONAL	d	d2	D	L	L1	COOLANT NOOSE
							
C40H60D08E2	C40	33	40	8	60	37	833-001060
C40H65D10E2	C40	35	40	10	65	37	833-001060
C40H65D12E2	C40	36	40	12	65	40	833-001060
C40H70D16E2	C40	40	40	16	70	42	833-001060
C40H70D20E2	C40	45	40	20	70	42	833-001060
C50H70D08E2	C50	32	50	8	70	40	833-001070
C50H70D10E2	C50	35	50	10	70	37	833-001070
C50H70D12E2	C50	40	50	12	70	40	833-001070
C50H80D16E2	C50	45	50	16	80	50	833-001070
C50H80D20E2	C50	50	50	20	80	50	833-001070
C50H80D25E2	C50	55	50	25	80	50	833-001070
C63H80D08E2	C63	32	63	8	80	40	833-001060
C63H80D10E2	C63	38	63	10	80	45	833-001070
C63H80D12E2	C63	40	63	12	80	45	833-001070
C63H80D16E2	C63	45	63	16	80	50	833-001070
C63H80D20E2	C63	50	63	20	80	50	833-001070
C63H80D25E2	C63	57	63	25	88	57	833-001070
C63H95D32E2	C63	72	63	32	95	58	833-001070
C63H105D40E2	C63	80	63	40	105	72	833-001070
C80H85D20E2	C80	50	80	20	85	48	833-001070
C80H85D25E2	C80	55	80	25	85	48	833-001070
C80H95D32E2	C80	72	80	32	95	58	833-001080
C80H110D40E2	C80	80	80	40	110	73	833-001080

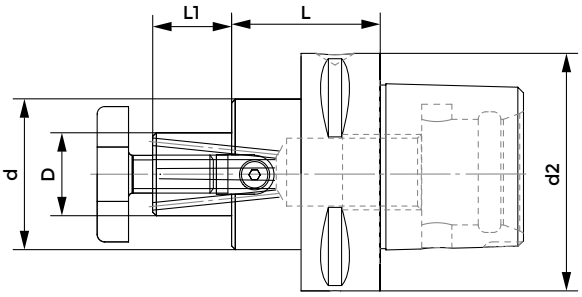
ACCESSORIES



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POLYGONAL FACE MILL HOLDER





DIN ISO 26623-1

COD.	POLYGONAL	d2	d	D	L	L1	G6.3 8000	CROSS SCREW	TENON A	SCREW A	TENON B	SCREW B
C40H32D16	C40	40	32	16	32	17	•	811-107003	-	-	814-20214	811-101002
C40H25D22	C40	40	40	22	25	19	•	811-107004	-	-	814-20215	811-101010
C50H32D22	C50	50	48	22	32	19	•	811-107004	814-202250	811-101011	-	-
C50H60D22	C50	50	48	22	60	19	•	811-107004	814-202250	811-101011	-	-
C50H60D27	C50	50	58	27	60	21	•	811-107005	814-202270	811-101018	-	-
C63H40D16	C63	63	32	16	40	17	•	811-107003	-	-	814-20214	811-101002
C63H63D16	C63	63	38	16	63	17	•	811-107003	814-202280	811-101004	-	-
C63H25D22	C63	63	55	22	25	19	•	811-107004	814-202250	811-101011	-	-
C63H100D22	C63	63	48	22	100	19	•	811-107004	814-202250	811-101011	-	-
C63H25D27	C63	63	63	27	25	21	•	811-107005	814-202270	811-101018	-	-
C63H100D27	C63	63	58	27	100	21	•	811-107005	814-202270	811-101018	-	-
C63H25D32	C63	63	63	32	25	24	•	811-107006	-	-	814-20217	811-101027
C63H100D32	C63	63	63	32	100	24	•	811-107006	-	-	814-20217	811-101027
C63H40D40	C63	63	89	40	40	26	•	811-107007	814-202710	811-101029	-	-
C63H100D40	C63	63	70	40	100	27	•	811-107007	-	-	814-20218	811-101028
C80H50D16	C80	80	32	16	50	17	•	811-107003	-	-	814-20214	811-101002
C80H100D16	C80	80	38	16	100	17	•	811-107003	814-202280	811-101004	-	-
C80H30D22	C80	80	55	22	30	19	•	811-107004	814-202250	811-101011	-	-
C80H100D22	C80	80	48	22	100	19	•	811-107004	814-202250	811-101011		
C80H30D27	C80	80	65	27	30	21	•	811-107005	814-202270	811-101018	-	-
C80H100D27	C80	80	58	27	100	21	•	811-107005	814-202270	811-101018	-	-
C80H30D32	C80	80	79	32	30	24	•	811-107006	814-202630	811-101029	-	-
C80H100D32	C80	80	63	32	100	24	•	811-107006	-	-	814-20217	811-101027
C80H30D40	C80	80	80	40	30	27	•	811-107007	-	-	814-20218	811-101028
C80H100D40	C80	80	70	40	100	27	•	811-107007	-	-	814-20218	811-101028

ACCESSORIES

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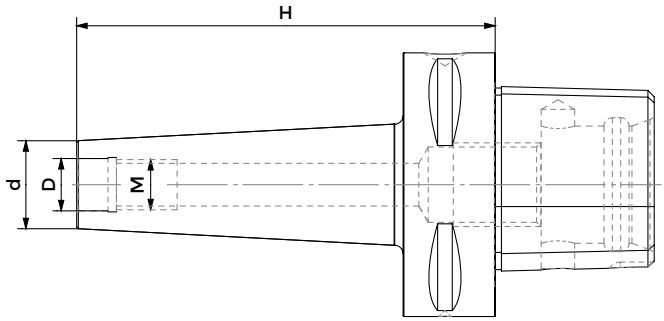


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MILLING CUTTER ARBORS FOR SCREW-ON TYPE MILLING CUTTERS



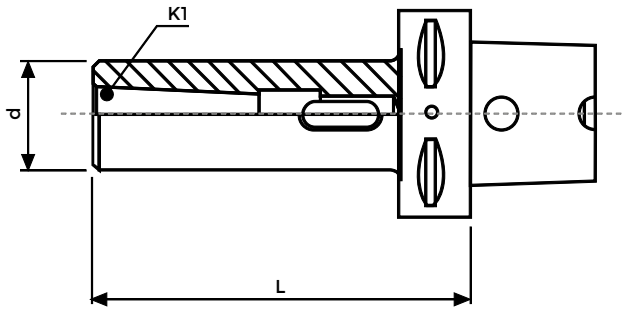


DIN ISO 26623-1

COD.	POLYGONAL	M	D	d	H	G6.3 12000
C63H90M10	C63	M10	10.5	18	90	•
C63H100M12	C63	M12	12.5	21	100	•
C63H100M16	C63	M16	17	29	100	•
C80H90M10	C80	M10	10,5	18	90	•
C80H100M12	C80	M12	12,5	21	100	•
C80H100M16	C80	M16	17	29	100	•

POLYGONAL MORSE TAPER ADAPTORS FOR DRILLS



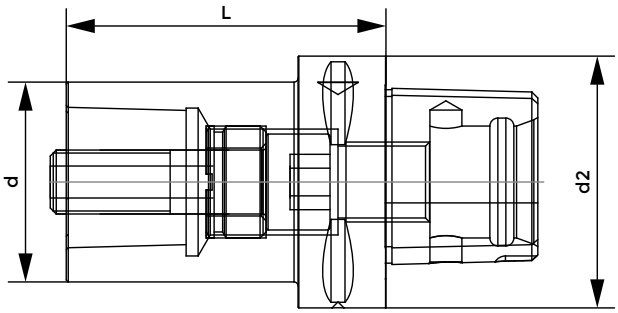


DIN ISO 26623-1

COD.	POLYGONAL	d	K1	L	G6.3 8000
C50H110CM2P	C50	32	MK2	110	•
C50H130CM3P	C50	40	MK3	130	•
C63H110CM2P	C63	32	MK2	110	•
C63H130CM3P	C63	40	MK3	130	•
C63H150CM4P	C63	52	MK4	150	•
C80H170CM4P	C80	52	MK4	170	•
C80H200CM5P	C80	63	MK5	200	•

POLYGONAL REDUCTION



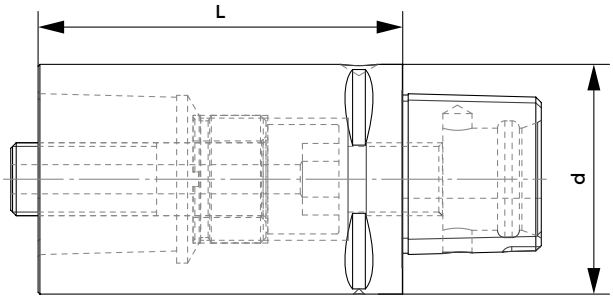


DIN ISO 26623-1

COD.	POLYGONAL	d2	d	L
C40H55C32	C40	40	32	55
C50H65C40	C50	50	40	65
C50H85C40	C50	50	40	85
C63H80C40	C63	63	40	80
C63H80C50	C63	63	50	80
C80H120C50	C80	80	50	120
C80H80C63	C80	80	63	80
C80H110C63	C80	80	63	110

POLYGONAL EXTENSIONS

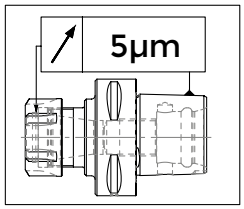




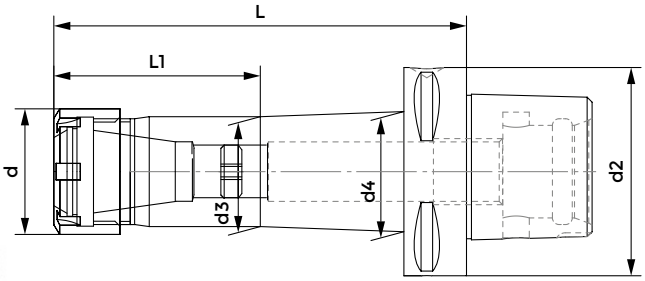
DIN ISO 26623-1

COD.	POLYGONAL	d	L
C32H60C32	C32	32	60
C40H40C40	C40	40	40
C40H60C40	C40	40	60
C40H80C40	C40	40	80
C50H50C50	C50	50	50
C50H80C50	C50	50	80
C50H100C50	C50	50	100
C63H60C63	C63	63	60
C63H100C63	C63	63	100
C63H140C63	C63	63	140
C80H65C80	C80	80	65
C80H100C80	C80	80	100
C80H125C80	C80	80	125

ER MINI COLLET CHUCK







H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm

DIN ISO 26623-1

COD.	POLYGONAL	ER	d2	d	L	L1	d3	d4	G6.3 15000	NUT	SCREW
C50H100ER11M	C50	11M	50	16	100	40	14	20	•	812-203012	811-303081
C50H100ER16M	C50	16M	50	22	100	42	20	25	•	812-203013	811-303119
C50H100ER20M	C50	20M	50	28	100	48	26	30	•	812-203014	811-303120
C50H100ER25M	C50	25M	50	35	100	-	33	-	•	812-203015	811-303121
C63H60ER16M	C50	16M	50	22	60	30	19	19	•	812-203013	811-303119
C63H100ER16M	C63	16M	63	22	100	42	20	25	•	812-203013	811-303119
C63H160ER16M	C63	16M	63	22	160	97	20	26	•	812-203013	811-303119
C63H100ER11M	C63	11M	63	16	100	40	14	20	•	812-203012	811-303081
C63H160ER11M	C63	11M	63	16	160	50	14	23	•	812-203012	811-303081
C63H100ER20M	C63	20M	63	28	100	48	26	30	•	812-203014	811-303120
C63H160ER20M	C63	20M	63	28	160	98	26	31	•	812-203014	811-303120
C63H100ER25M	C63	25M	63	35	100	-	33	-	•	812-203015	811-303121
C63H160ER25M	C63	25M	63	35	160	103	33	35	•	812-203015	811-303121
C80H160ER25M	C80	25M	80	35	160	68	33	46	•	812-203015	811-303121

ACCESSORIES

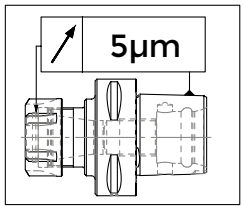

p. 632


p. 615

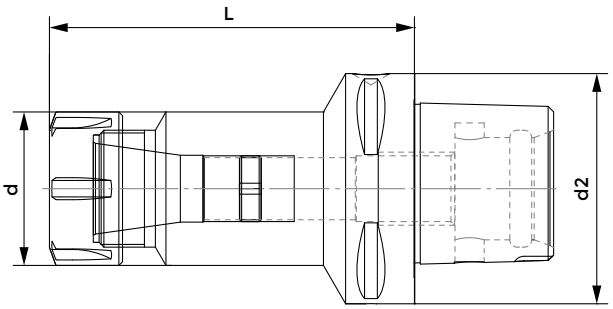

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POLYGONAL ER COLLET CHUCK





H= 0 > 100 mm - 5 µm
H= 100 > 200 mm - 10 µm



DIN ISO 26623-1

COD.	POLYGONAL	ER	d2	d	L	G6.3 15000	NUT	SCREW
C40H70ER16	C40	ER16	40	32	70	•	812-203005	811-303119
C40H52ER25	C40	ER25	40	42	52	•	812-203001	811-303121
C40H54ER32	C40	ER32	40	50	54	•	812-203002	811-303118
C50H60ER16	C50	ER16	50	32	60	•	812-203005	811-303119
C50H100ER16	C50	ER16	50	32	100	•	812-203005	811-303119
C50H60ER20	C50	ER20	50	35	60	•	812-203006	811-303120
C50H60ER25	C50	ER25	50	42	60	•	812-203001	811-303121
C50H100ER25	C50	ER25	50	42	100	•	812-203001	811-303121
C50H60ER32	C50	ER32	50	50	60	•	812-203002	811-303118
C50H100ER32	C50	ER32	50	50	100	•	812-203002	811-303118
C50H65ER40	C50	ER40	50	63	65	•	812-203003	811-303122
C50H100ER40	C50	ER40	50	63	100	•	812-203003	811-303132
C63H60ER16	C63	ER16	63	32	60	•	812-203005	811-303119
C63H100ER16	C63	ER16	63	32	100	•	812-203005	811-303119
C63H60ER20	C63	ER20	63	35	60	•	812-203006	811-303120
C63H100ER20	C63	ER20	63	35	100	•	812-203006	811-303120
C63H60ER25	C63	ER25	63	42	60	•	812-203001	811-303121
C63H100ER25	C63	ER25	63	42	100	•	812-203001	811-303121
C63H60ER32	C63	ER32	63	50	60	•	812-203002	811-303118
C63H100ER32	C63	ER32	63	50	100	•	812-203002	811-303118
C63H70ER40	C63	ER40	63	63	70	•	812-203003	811-303122
C63H130ER40	C63	ER40	63	63	130	•	812-203003	811-303122
C80H70ER25	C80	ER25	80	42	70	•	812-203001	811-303121
C80H160ER25	C80	ER25	80	42	160	•	812-203001	811-303121
C80H70ER32	C80	ER32	80	50	70	•	812-203002	811-303118
C80H160ER32	C80	ER32	80	50	160	•	812-203002	811-303118
C80H70ER40	C80	ER40	80	63	70	•	812-203003	811-303122
C80H160ER40	C80	ER40	80	63	160	•	812-203003	811-303122

ACCESSORIES

p. 633



p. 615

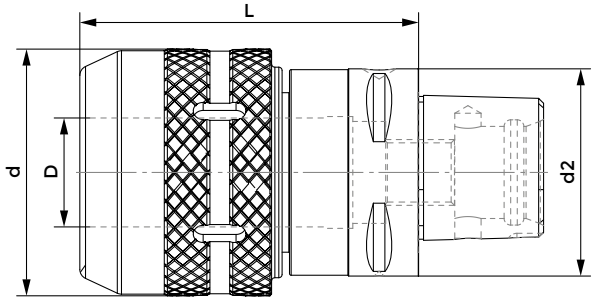


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POLYGONAL HIGH TORQUE MILLING CHUCK

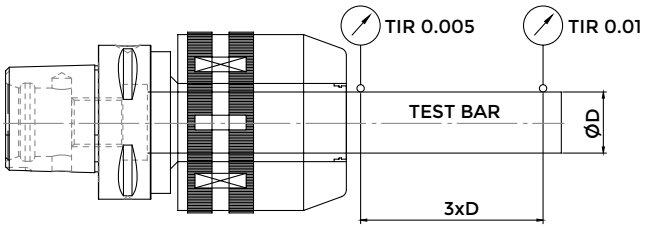




DIN ISO 26623-1

COD.	POLYGONAL	d2	d	D	L	G6.3 12000
C50H75C20	C50	50	54	20	75	•
C63H80C20	C63	63	54	20	80	•
C63H100C32	C63	63	72	32	100	•

Suitable wrench included in delivery

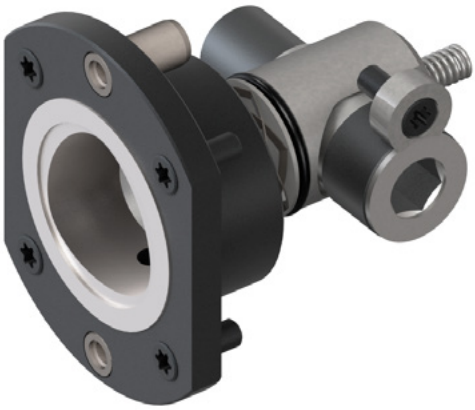


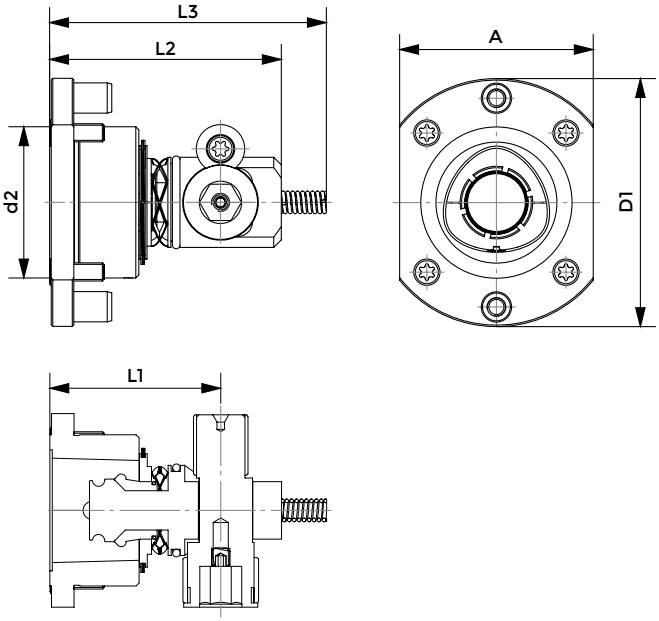
ACCESSORIES



p. 688

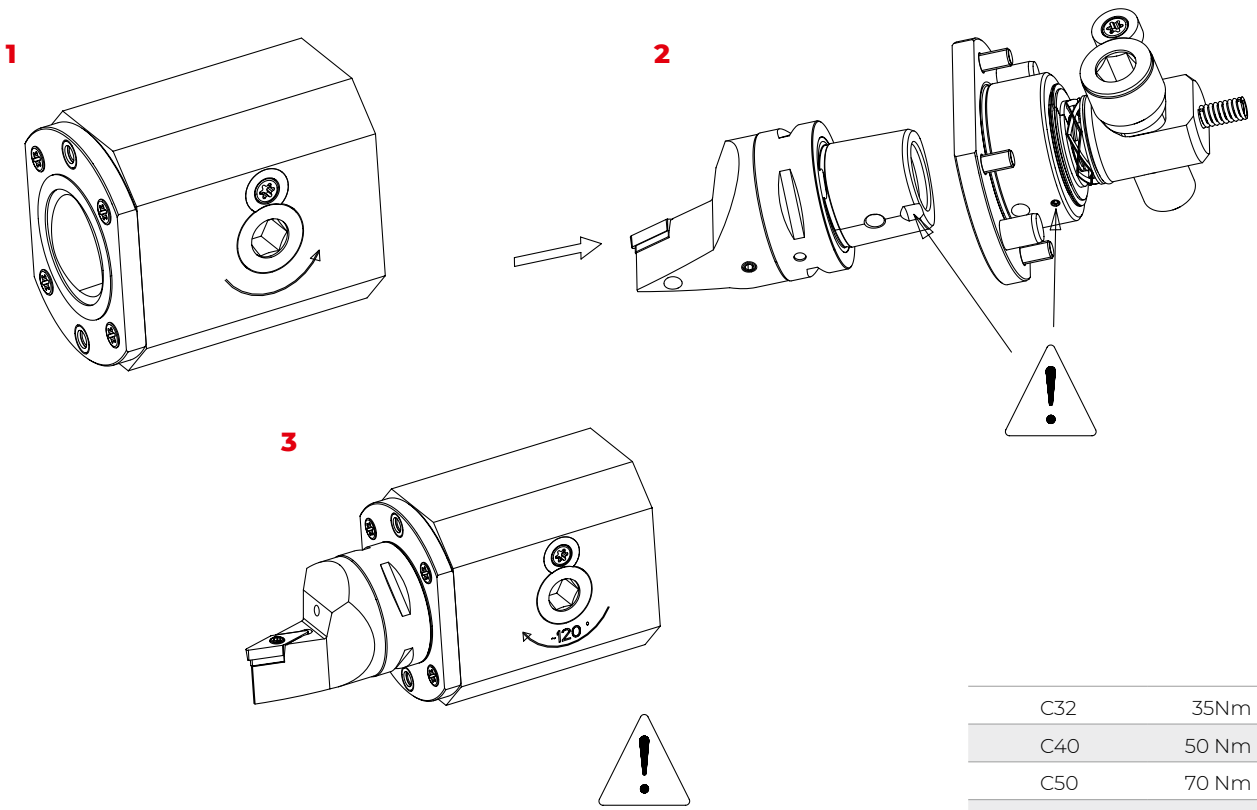
POLYGONAL FLANGE KIT





COD.	POLYGONAL	d2	d1	L1	L2	L3	A
CXC32-10	C32	32	54	40.5	55	67	38
CXC40-10	C40	40	67	48.5	65	80	48
CXC50-10	C50	50	82	56.5	75	91.5	64
CXC63-10	C63	63	105	74	93	112.5	84

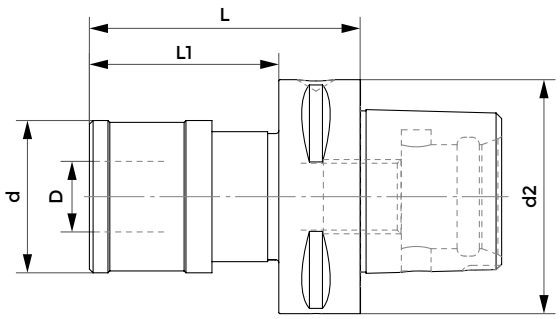
INSTRUCTIONS TO CLAMP THE TOOLHOLDER TO THE MANUAL DRIVE (CAM) CLAMPING UNIT



C32	35Nm
C40	50 Nm
C50	70 Nm
C63	90 Nm

POLYGONAL TAPPING HEAD



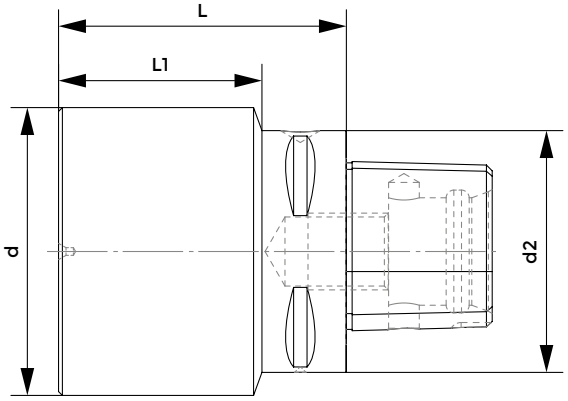


DIN ISO 26623-1

COD.	POLYGONAL	d2	d	D	L	L1	TAP SIZE RANGE
							
C40GR1	C40	40	41	19	68	48	M3-M12
C50H68GR1	C50	50	41	19	68	48	M3-M12
C50H91GR2	C50	50	60	31	91	71	M6-M20
C63GR1	C63	63	41	19	73	51	M3-M12
C63GR2	C63	63	60	31	97	75	M6-M20
C63H146GR3	C63	63	86	48	146	124	M14-M33
C80GR1	C80	80	41	19	75	45	M3-M12
C80GR2	C80	80	60	31	93,5	63,5	M6-M20
C80GR3	C80	80	86	48	137	107	M14-M33

POLYGONAL BLANK TOOLHOLDER





DIN ISO 26623-1

HRC 26-28

COD.	POLYGONAL	d2	d	L	L1
C40H165D63	C40	40	63	165	145
C50H150D50	C50	50	50	150	-
C50H150D91	C50	50	91	150	130
C63H180D63	C63	63	63	180	-
C63H195D75	C63	63	75	195	173
C63H180D120	C63	63	120	180	158
C63H100D115	C63	63	115	100	78
C63H75D91	C63	63	91	75	53
C63H76D63,5	C63	63	63,5	76	54
C80H200D80	C80	80	80	200	-
C80H140D110	C80	80	110	140	110
C80H160D115	C80	80	115	160	130
C80H70D80	C80	80	80	70	-

ASSEMBLY SUPPORTS

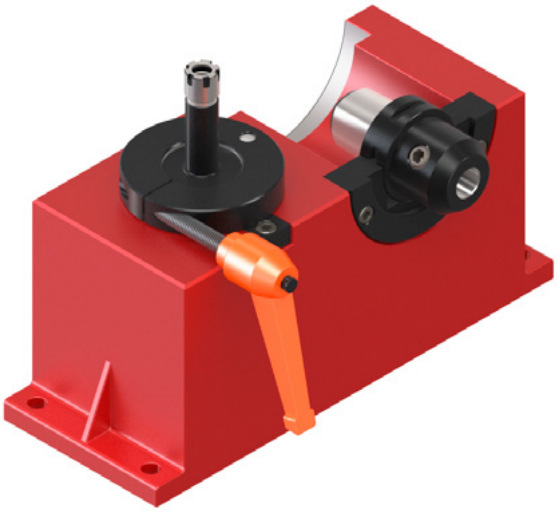
DIN ISO 26623-1

COD.	POLYGONAL
237-33210	C40
237-33310	C50
237-33410	C63
237-33510	C80

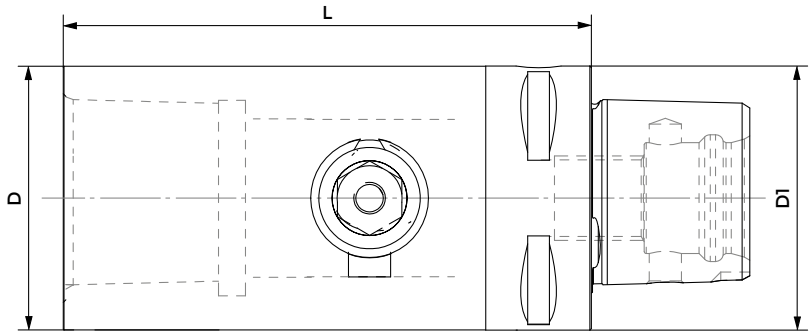
It is very useful for all assembly and disassembly operations of the tools on the toolholders, either in horizontal or in vertical position.

This process is carried out without any risk to damage casually the tool or the toolholder.

It is a very simple system suitable for DIN toolholders.



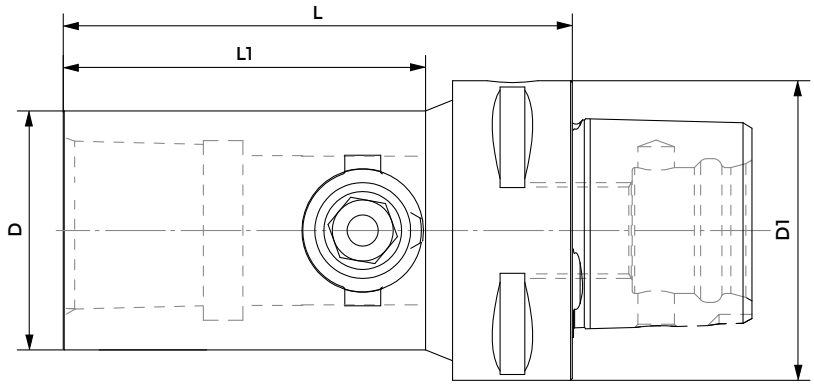
EXTENSION ADAPTOR WITH QUICK CHANGE POLYGONAL SHANK ACCORDING



DIN ISO 26623-1

COD.	POLYGONAL	SHANK	d	d1	L	MAX. (Rpm)
C40H85C40-CR	C40	C40	40	40	85	39000
C50H100C50-CR	C50	C50	50	50	100	28000
C63H115C63-CR	C63	C63	63	63	115	20000
C80H145C80-CR	C80	C80	80	80	145	14000

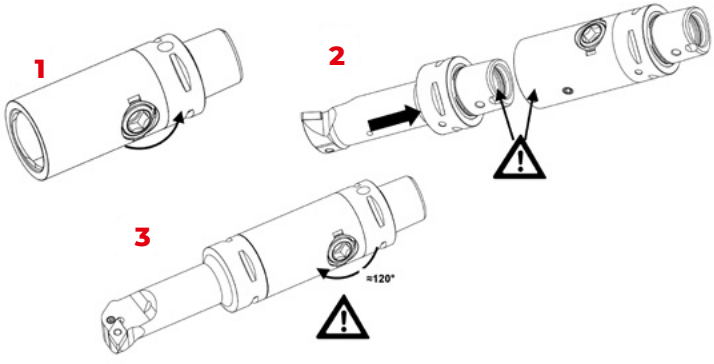
REDUCTION ADAPTOR WITH QUICK CHANGE POLYGONAL SHANK ACCORDING



DIN ISO 26623-1

COD.	POLYGONAL	SHANK	d	d1	L	L1	MAX. (Rpm)
C50H85C40-CR	C50	C40	50	40	85	60,5	28000
C63H100C50-CR	C63	C50	63	50	100	73	20000
C80H120C63-CR	C80	C63	80	63	120	84,5	14000

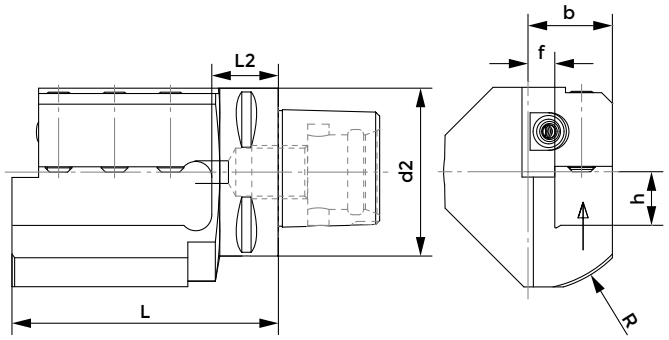
INSTRUCTIONS TO CLAMPING TOOL HOLDER WITH QUICK CHANGE ADAPTERS WITH POLYGONAL SHANK ISO26623



TOOLSIDE	TORQUE (Nm)
PSC40	50Nm
PSC50	70Nm
PSC63	90Nm
PSC80	130Nm

90° POLYGONAL TOOLHOLDER



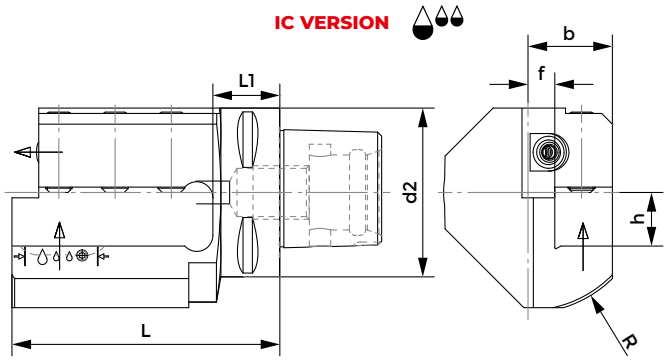


DIN ISO 26623-1

COD.	POLYGONAL	d2	L	L1	b	R	f	h
C50-AD2020R/L	C50	50	98	22	32	41,5	12	20
C63-AD2020R/L	C63	63	100	24	32	41,5	12	20
C63-AD2525R/L	C63	63	130	28	35	49	10	25
C63-AD3232R/L	C63	63	134	28	39	59	7	32

90° POLYGONAL TOOLHOLDER



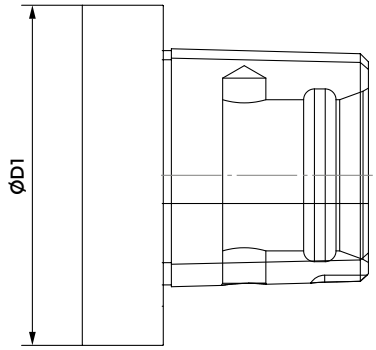


DIN ISO 26623-1

COD.	POLYGONAL	d2	L	L1	b	R	f	h
C63-AD2020R/L-IC	C63	63	100	24	32	41,5	12	20
C63-AD2525R/L-IC	C63	63	130	28	35	49	10	25
C63-AD3232R/L-IC	C63	63	134	28	39	59	7	32

PROTECTIVE CAP

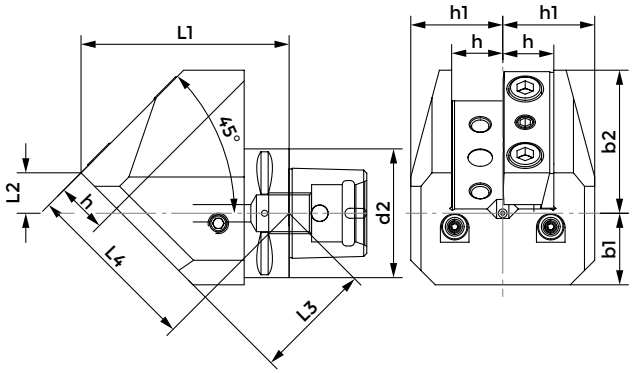




COD.	d
C40-TP	40
C50-TP	50
C63-TP	63
C80-TP	80

45° POLYGONAL TOOLHOLDER





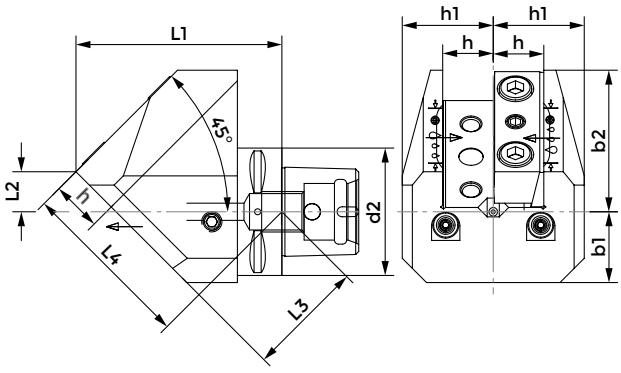
DIN ISO 26623-1

COD.	POLYGONAL	d2	b1	b2	h	h1	L1	L2	L3	L4
C63-ARD2525-45	C63	63	35	70	25	45	102	20	58	86

45° POLYGONAL TOOLHOLDER



IC VERSION

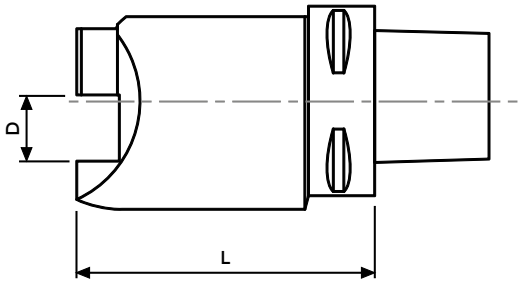


DIN ISO 26623-1

COD.	POLYGONAL	d2	b1	b2	h	h1	L1	L2	L3	L4
C63-ARD2525-45-IC	C63	63	35	70	25	45	102	20	58	86

45° POLYGONAL TOOLHOLDER



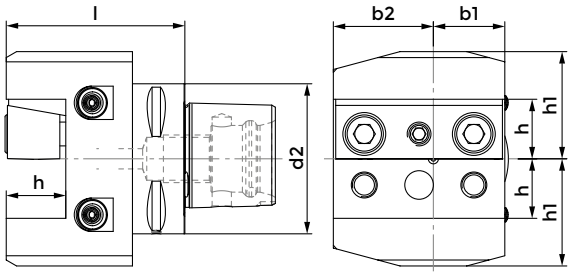


DIN ISO 26623-1

COD.	POLYGONAL	D	L
C63AR25R/L	C63	25	130

POLYGONAL RADIAL TOOLHOLDER



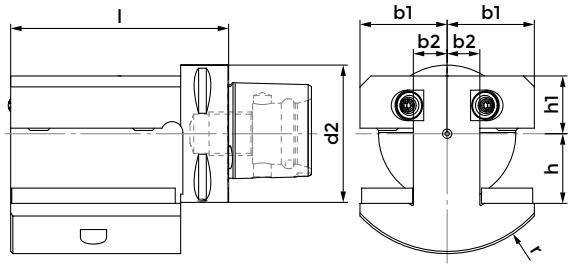


DIN ISO 26623-1

COD.	POLYGONAL	d2	b1	b2	h	h1	l
C63RD25R	C63	63	30	42	25	45	75

POLYGONAL AXIAL TOOLHOLDER



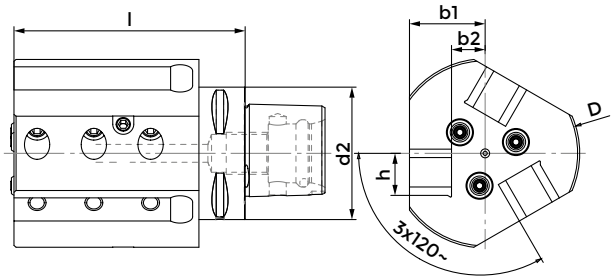


DIN ISO 26623-1

COD.	POLYGONAL	d2	b1	b2	h	h1	l	r
C63AX25/32	C63	63	40	15	25/32	26.5	110	55

POLYGONAL AXIAL TOOLHOLDER





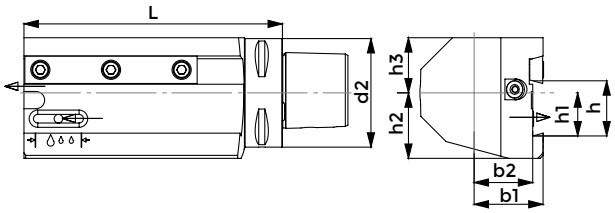
DIN ISO 26623-1

COD.	POLYGONAL	d2	b1	b2	h	l	D
C63AT20R	C63	63	36	16	20	110	90
C63AT20L	C63	63	36	16	20	110	90

POLYGONAL AXIAL TOOLHOLDER FOR CUT OFF TOOLS



IC VERSION

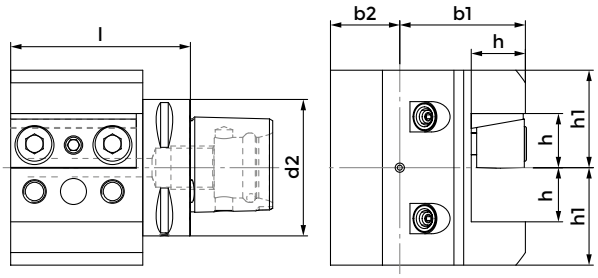


DIN ISO 26623-1

COD.	POLYGONAL	d2	b1	b2	h	h1	h2	h3	L
C50-SCAR26R/L-IC	C50	50	33	27	26	21,4	34	30	115
C63-SCAR26R/L-IC	C63	63	40	34	26	21,4	34	31,5	115
C63-SCAR32R/L-IC	C63	63	40	34	32	25	38	32	150

POLYGONAL AXIAL TOOLHOLDER



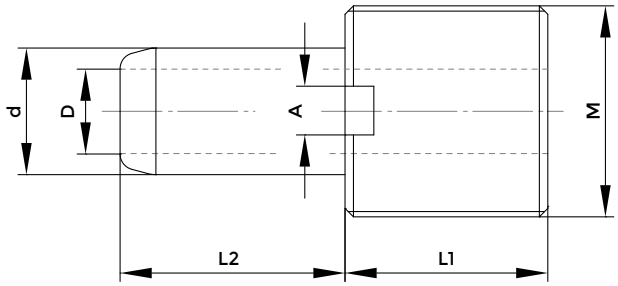


DIN ISO 26623-1

COD.	POLYGONAL	d2	b1	b2	h	h1	l
C63AD25R	C63	63	58	32	25	45	83

COOLANT SUPPLY UNIT



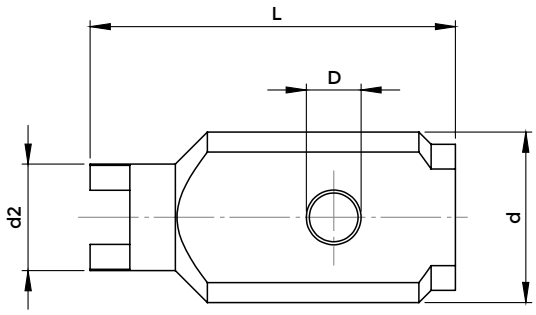


DIN ISO 26623-1

COD.	POLYGONAL	M	d	D	L1	L2	A
832-016080	C40	M14x1,5	6	4	12	13,5	3
832-016090	C50	M16x1,5	7	5	14	14.4	3
832-016100	C63	M20x2	8	6	15	15.7	3
832-016110	C80	M20x2	10	8	15	16,6	3

KEY FOR COOLANT SUPPLY UNIT



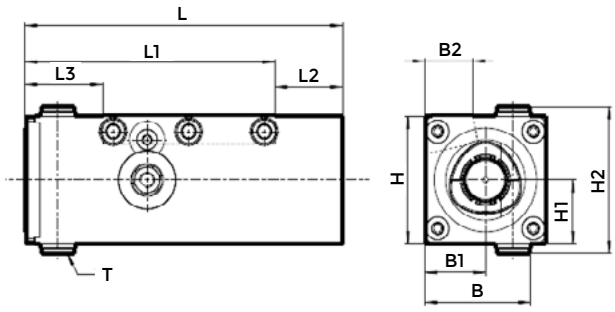


DIN ISO 26623-1

COD.	POLYGONAL	d	d2	D	L
816-204026	C50	42	26	10,5	90
816-204027	C63	63	32	10,5	100

TOOLHOLDER WITH SQUARE SHANK AND WITH POLYGONAL INTERFACE



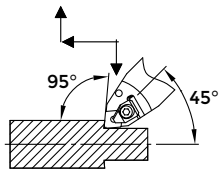


DIN ISO 26623-1

COD.	MISURA	L	L1	L2	L3	B	B1	B2	H	H1	H2	T
Q50L125C40R/L	C40	125	100	25	31	42	24	19	50	25	57,5	G 1/8

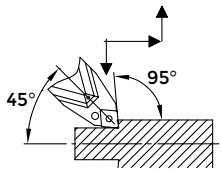
EXTERNAL TURNING TOOLS

DCM



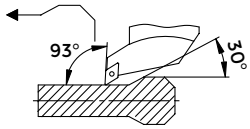
p. 288

SCM



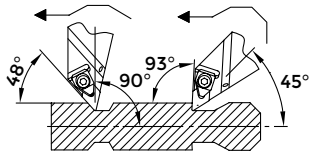
p. 292

SDJ



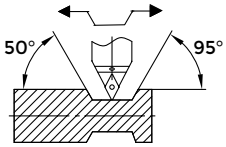
p. 291

DDM



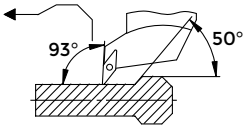
p. 288

SVM



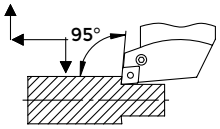
p. 293

SVJ



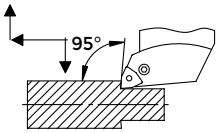
p. 292

PCL DCL



p. 289

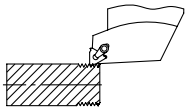
PWL DWL



p. 290

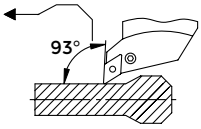
p. 287

THE



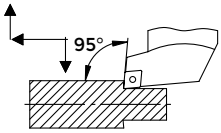
p. 293

PDJ



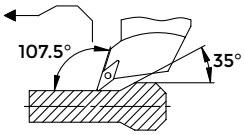
p. 289

SCL



p. 290

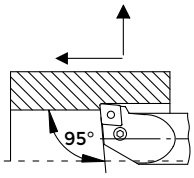
SVH



p. 291

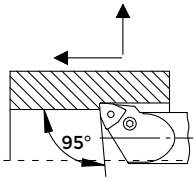
INTERNAL TURNING TOOLS

PCL



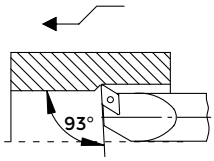
p. 294

PWL



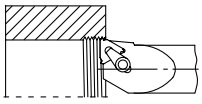
p. 294

SDU



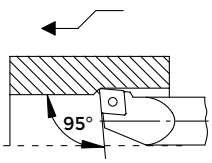
p. 296

THE



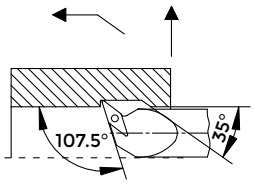
p. 297

SCL



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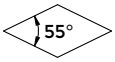
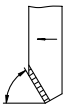
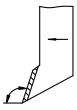
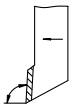
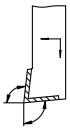
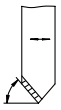
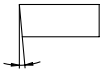
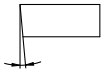
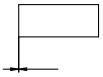
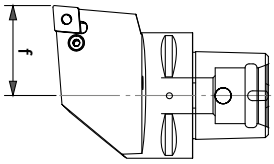
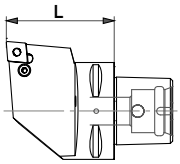
SVQ



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IDENTIFICATION OF ISO 26623-1 POLYGONAL EXTERNAL TURNING TOOLS

Coding example C 50 S C L C L 35 060 12

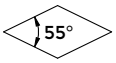
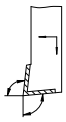
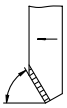
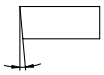
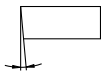
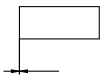
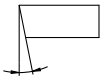
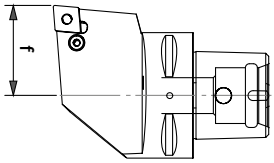
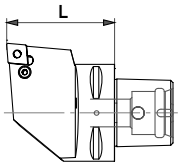
C	Type of holder	DIN ISO 26623-1					
50	Holder size		40 - Ø40		50 - Ø50		63 - Ø63
S	Clamping system	 D		 P		 S	
C	Insert Shape	 C	 D	 S	 T	 V	 W
L	Shape of turning tools	60  E	107.5  H	93  J	95  L	50  M	
C	Clearance angle	 B		 C		 N	
L	Feeding direction	 L		 R		 N	
35	"f" dimension	 35					
060	"l" dimension	 060					
12	Insert cutting edge lenght	 C - D - E - M - V		 S		 T	 W

TURNING MODULAR SYSTEM

- Adopting the famous DIN ISO 26623-1, in the several versions, and maintaining an interchangeability with the attacks for working centers, KINTEK offers the possibility to reduce, drastically, the times of set-up.
- Maximum rapidity in the tool change
- Great rigidity thanks to the big support surface
- The same cutting position
- Reduction of the vibrations
- Precision of interchangeability
- Optimal repeatability of positioning to the change tool: maximum error +/- 0,002 mm

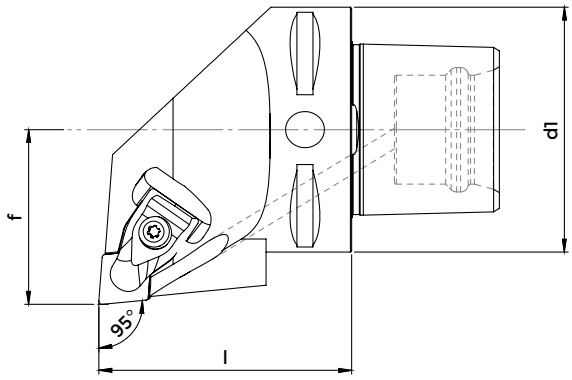
IDENTIFICATION OF ISO 26623-1 POLYGONAL INTERNAL TURNING TOOLS

Coding example C 50 S C L C L 22 110 12

C	Type of holder	DIN ISO 26623-1				
50	Holder size		40 - Ø40	50 - Ø50	63 - Ø63	
S	Clamping system	 P		 S		
C	Insert Shape	 C	 D	 T	 V	 W
L	Shape of turning tools	95  L	15  Q	93  U	60  E	
C	Clearance angle	 B	 C	 N	 P	
L	Feeding direction	 L	 R	 N		
35	"f" dimension	 35				
060	"l" dimension	 060				
12	Insert cutting edge lenght	 C - D - V	 T	 W		

ISO 26623-1 POLYGONAL EXTERNAL TURNING TOOLS

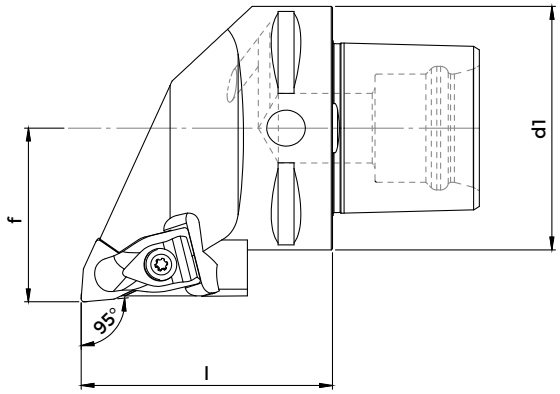




DCLN

COD.	DESCRIPTION	POLYGONAL	d1	l	f	INSERT	BRACKET	SUPPORT PAD	SCREW
									
C50DCLNL3506012	UTENSILE C50-DCLNL12	C50	50	60	35	CN..1204..	831-003070	843-022061	811-276013
C50DCLNR3506012	UTENSILE C50-DCLNR12	C50	50	60	35	CN..1204..	831-003070	843-022061	811-276013
C63DCLNL4506512	UTENSILE C63-DCLNL12	C63	63	65	45	CN..1204..	831-003070	843-022061	811-276013
C63DCLNR4506512	UTENSILE C63-DCLNR12	C63	63	65	45	CN..1204..	831-003070	843-022061	811-276013
C63DCLNL4506516	UTENSILE C63-DCLNL16	C63	63	65	45	CN..1604..	831-003080	843-021221	811-296004
C63DCLNR4506516	UTENSILE C63-DCLNR16	C63	63	65	45	CN..1604..	831-003080	843-021221	811-296004



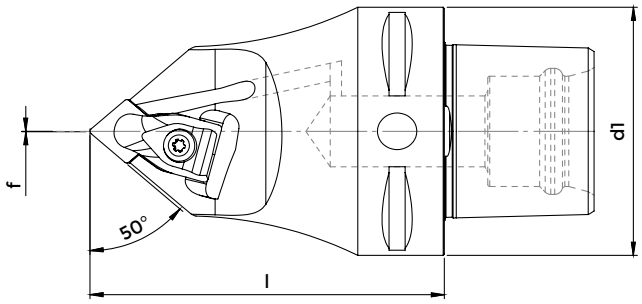


DWLN

COD.	DESCRIPTION	POLYGONAL	d1	l	f	INSERT	BRACKET	SUPPORT PAD	SCREW
									
C50DWLNL3506008	UTENSILE C50-DWLNL08	C50	50	60	35	WN..0804..	831-003070	843-081131	811-276013
C50DWLNR3506008	UTENSILE C50-DWLNR08	C50	50	60	35	WN..0804..	831-003070	843-081131	811-276013
C63DWLNL4506508	UTENSILE C63-DWLNL08	C63	63	65	45	WN..0804..	831-003070	843-081131	811-276013
C63DWLNR4506508	UTENSILE C63-DWLNR08	C63	63	65	45	WN..0804..	831-003070	843-081131	811-276013

ISO 26623-1 POLYGONAL EXTERNAL TURNING TOOLS

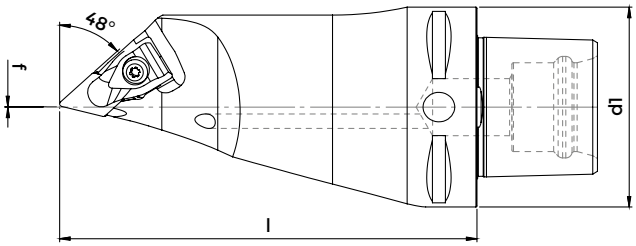




DCMN

COD.	DESCRIPTION	POLYGONAL	d1	l	f	INSERT	BRACKET	SUPPORT PAD	SCREW
									
C63DCMNN0009012	UTENSILE C63-DCMNN12	C63	63	90	0	CN..1204..	831-003070	843-022061	811-276013
C63DCMNN0011512	UTENSILE C63-DCMNN12	C63	63	115	0	CN..1204..	831-003070	843-022061	811-276013



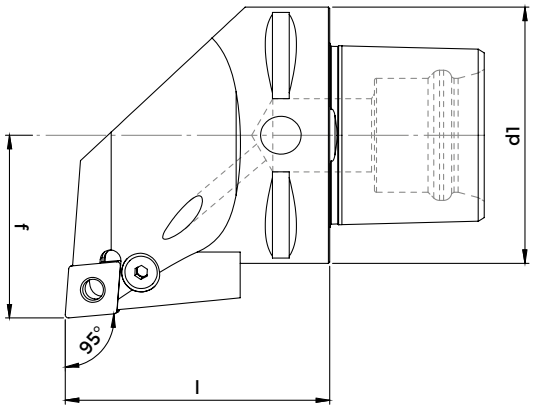


DDMN

COD.	DESCRIPTION	POLYGONAL	d1	l	f	INSERT	BRACKET	SUPPORT PAD	SCREW
									
C63DDMNL0013015	UTENSILE C63-DDMNL15	C63	63	130	0	DN..1506..	831-003070	843-031241	811-276013

ISO 26623-1 POLYGONAL EXTERNAL TURNING TOOLS

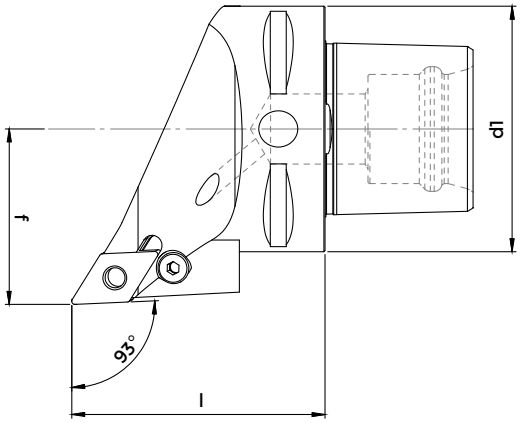




PCLN

COD.	DESCRIPTION	POLYGONAL	d1	l	f	INSERT	LEVER	SCREW	SUPPORT PAD	SPRING
										
C40PCLNL2705012	UTENSILE C40-PCLNL12	C40	40	50	27	CN..1204..	831-001540	811-301153	843-022061	815-321400
C40PCLNR2705012	UTENSILE C40-PCLNR12	C40	40	50	27	CN..1204..	831-001540	811-301153	843-022061	815-321400
C50PCLNL3506012	UTENSILE C50-PCLNL12	C50	50	60	35	CN..1204..	831-001540	811-301153	843-022061	815-321400
C50PCLNR3506012	UTENSILE C50-PCLNR12	C50	50	60	35	CN..1204..	831-001540	811-301153	843-022061	815-321400
C63PCLNL4506512	UTENSILE C63-PCLNL12	C63	63	65	45	CN..1204..	831-001540	811-301153	843-022061	815-321400
C63PCLNR4506512	UTENSILE C63-PCLNR12	C63	63	65	45	CN..1204..	831-001540	811-301153	843-022061	815-321400
C63PCLNL4506516	UTENSILE C63-PCLNL16	C63	63	65	45	CN..1604..	831-001550	811-301154	843-021221	815-321410
C63PCLNR4506516	UTENSILE C63-PCLNR16	C63	63	65	45	CN..1604..	831-001550	811-301154	843-021221	815-321410



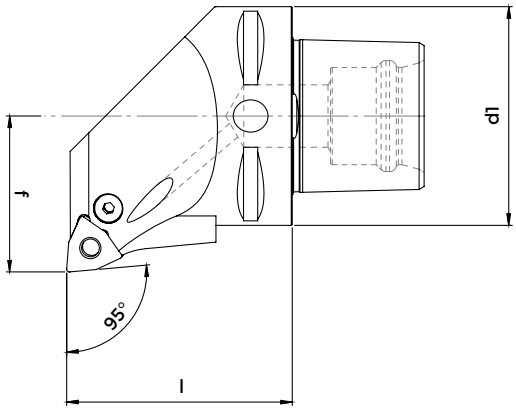


PDJN

COD.	DESCRIPTION	POLYGONAL	d1	l	f	INSERT	LEVER	SCREW	SUPPORT PAD	SPRING
										
C50PDJNL3506015	UTENSILE C50-PDJNL15	C50	50	60	35	DN..1506..	831-001560	811-301155	843-031241	815-321400
C50PDJNR3506015	UTENSILE C50-PDJNR15	C50	50	60	35	DN..1506..	831-001560	811-301155	843-031241	815-321400
C63PDJNL4506515	UTENSILE C63-PDJNL15	C63	63	65	45	DN..1506..	831-001560	811-301155	843-031241	815-321400
C63PDJNR4506515	UTENSILE C63-PDJNR15	C63	63	65	45	DN..1506..	831-001560	811-301155	843-031241	815-321400

ISO 26623-1 POLYGONAL EXTERNAL TURNING TOOLS

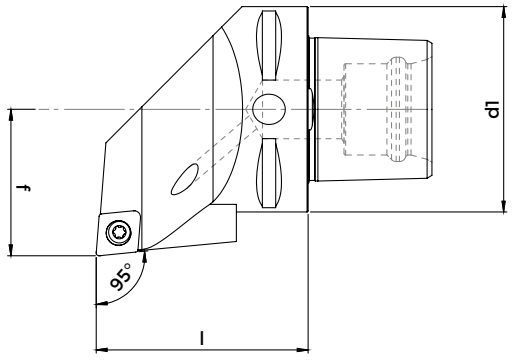




PWLN

COD.	DESCRIPTION	POLYGONAL	d1	l	f	INSERT	LEVER	SCREW	SUPPORT PAD	SPRING
										
C40PWLNL2705008	UTENSILE C40-PWLNL08	C40	40	50	27	WN..0804..	831-001540	811-301153	843-081131	815-321400
C40PWLNR2705008	UTENSILE C40-PWLNR08	C40	40	50	27	WN..0804..	831-001540	811-301153	843-081131	815-321400
C50PWLNL3506008	UTENSILE C50-PWLNL08	C50	50	60	35	WN..0804..	831-001540	811-301153	843-081131	815-321400
C50PWLNR3506008	UTENSILE C50-PWLNR08	C50	50	60	35	WN..0804..	831-001540	811-301153	843-081131	815-321400
C63PWLNL4506508	UTENSILE C63-PWLNL08	C63	63	65	45	WN..0804..	831-001540	811-301153	843-081131	815-321400
C63PWLNR4506508	UTENSILE C63-PWLNR08	C63	63	65	45	WN..0804..	831-001540	811-301153	843-081131	815-321400



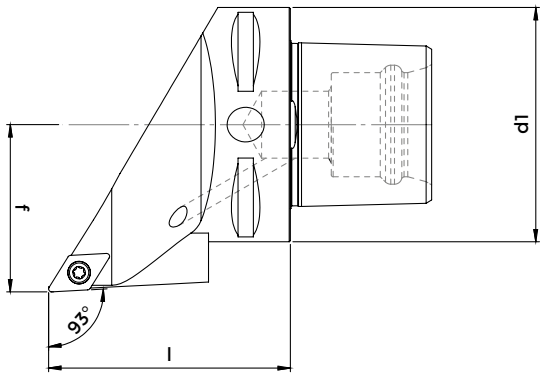


SCLC

COD.	DESCRIPTION	POLYGONAL	d1	l	f	INSERT	SUPPORT PAD	BUSH	SCREW
									
C40SCLCL2705012	UTENSILE C40-SCLCL12	C40	40	50	27	CC..1204..	843-022051	811-301156	811-266006
C40SCLCR2705012	UTENSILE C40-SCLCR12	C40	40	50	27	CC..1204..	843-022051	811-301156	811-266006
C50SCLCL3506012	UTENSILE C50-SCLCL12	C50	50	60	35	CC..1204..	843-022051	811-301156	811-266006
C50SCLCR3506012	UTENSILE C50-SCLCR12	C50	50	60	35	CC..1204..	843-022051	811-301156	811-266006
C63SCLCL4506512	UTENSILE C63-SCLCL12	C63	63	65	45	CC..1204..	843-022051	811-301156	811-266006
C63SCLCR4506512	UTENSILE C63-SCLCR12	C63	63	65	45	CC..1204..	843-022051	811-301156	811-266006

ISO 26623-1 POLYGONAL EXTERNAL TURNING TOOLS

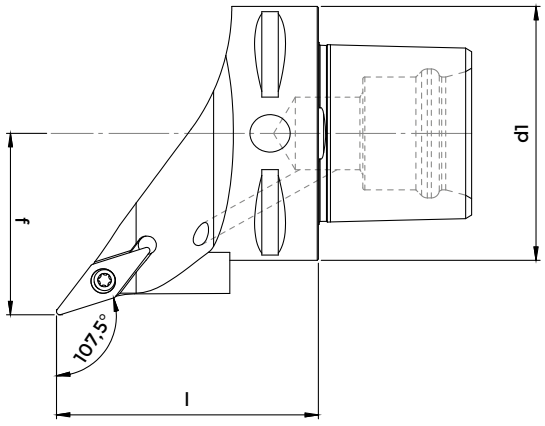




SDJC

COD.	DESCRIPTION	POLYGONAL	d1	l	f	INSERT	SUPPORT PAD	BUSH	SCREW
									
C40SDJCL2705011	UTENSILE C40-SDJCL11	C40	40	50	27	DC..11T3..	843-032031	811-301157	811-246021
C40SDJCR2705011	UTENSILE C40-SDJCR11	C40	40	50	27	DC..11T3..	843-032031	811-301157	811-246021
C50SDJCL3506011	UTENSILE C50-SDJCL11	C50	50	60	35	DC..11T3..	843-032031	811-301157	811-246021
C50SDJCR3506011	UTENSILE C50-SDJCR11	C50	50	60	35	DC..11T3..	843-032031	811-301157	811-246021
C63SDJCL4506511	UTENSILE C63-SDJCL11	C63	63	65	45	DC..11T3..	843-032031	811-301157	811-246021
C63SDJCR4506511	UTENSILE C63-SDJCR11	C63	63	65	45	DC..11T3..	843-032031	811-301157	811-246021



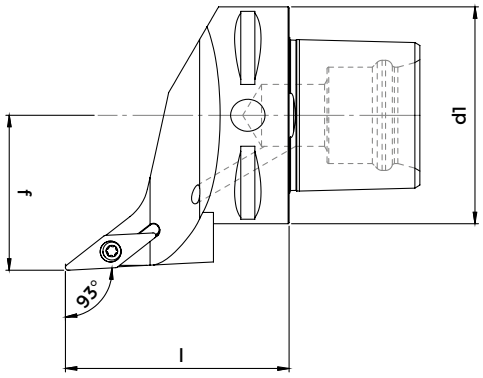


SVHB

COD.	DESCRIPTION	POLYGONAL	d1	l	f	INSERT	SUPPORT PAD	BUSH	SCREW
									
C40SVHBL2705016	UTENSILE C40-SVHBL16	C40	40	50	27	VB..1604..	843-062071	811-301157	811-246021
C40SVHBR2705016	UTENSILE C40-SVHBR16	C40	40	50	27	VB..1604..	843-062071	811-301157	811-246021
C50SVHBL3506016	UTENSILE C50-SVHBL16	C50	50	60	35	VB..1604..	843-062071	811-301157	811-246021
C50SVHBR3506016	UTENSILE C50-SVHBR16	C50	50	60	35	VB..1604..	843-062071	811-301157	811-246021
C63SVHBL4506516	UTENSILE C63-SVHBL16	C63	63	65	45	VB..1604..	843-062071	811-301157	811-246021
C63SVHBR4506516	UTENSILE C63-SVHBR16	C63	63	65	45	VB..1604..	843-062071	811-301157	811-246021

ISO 26623-1 POLYGONAL EXTERNAL TURNING TOOLS

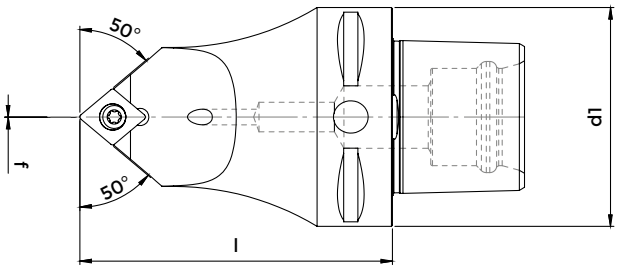




SVJB

COD.	DESCRIPTION	POLYGONAL	d1	l	f	INSERT	SUPPORT PAD	BUSH	SCREW
									
C40SVJBL2705016	UTENSILE C40-SVJBL16	C40	40	50	27	VB..1604..	843-062071	811-301157	811-246021
C40SVJBR2705016	UTENSILE C40-SVJBR16	C40	40	50	27	VB..1604..	843-062071	811-301157	811-246021
C50SVJBL3506016	UTENSILE C50-SVJBL16	C50	50	60	35	VB..1604..	843-062071	811-301157	811-246021
C50SVJBR3506016	UTENSILE C50-SVJBR16	C50	50	60	35	VB..1604..	843-062071	811-301157	811-246021
C63SVJBL4506516	UTENSILE C63-SVJBL16	C63	63	65	45	VB..1604..	843-062071	811-301157	811-246021
C63SVJBR4506516	UTENSILE C63-SVJBR16	C63	63	65	45	VB..1604..	843-062071	811-301157	811-246021



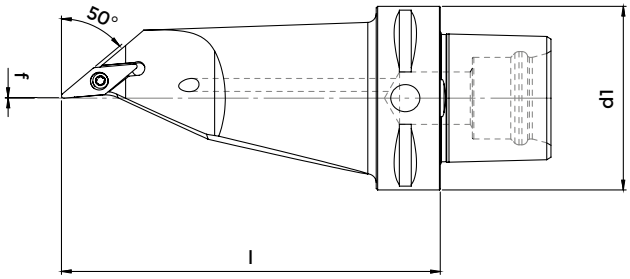


SCMC

COD.	DESCRIPTION	POLYGONAL	d1	l	f	INSERT	SUPPORT PAD	BUSH	SCREW
									
C63SCMCN0009012	UTENSILE C63-SCMCN12	C63	63	90	0	CC..1204..	843-022051	811-301156	811-266006

ISO 26623-1 POLYGONAL EXTERNAL TURNING TOOLS



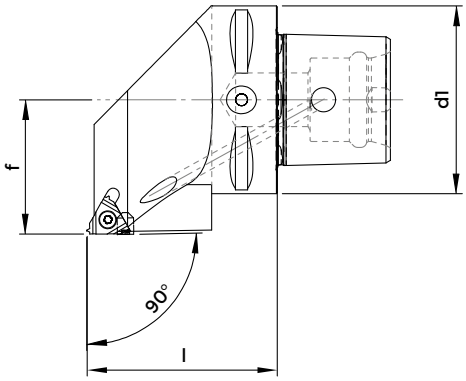


SVMB

COD.	DESCRIPTION	POLYGONAL	d1	l	f	INSERT	SUPPORT PAD	BUSH	SCREW
									
C63SVMBL0013016	UTENSILE C63-SVMBL16	C63	63	130	0	VB..1604..	843-062071	811-301157	811-246021

ISO 26623-1 POLYGONAL EXTERNAL THREADING TOOLS



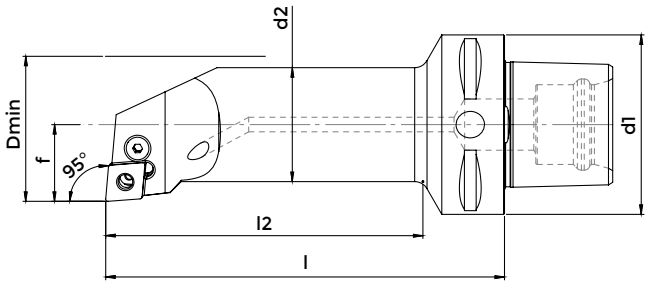


THE

COD.	DESCRIPTION	POLYGONAL	d1	l	f	INSERT	SUPPORT PAD	SCREW	SCREW
									
C40THEL2705016	UTENSILE C40-SEL16	C40	40	50	27	16EL...	843-092271	811-207002	811-207001
C40THER2705016	UTENSILE C40-SER16	C40	40	50	27	16ER...	843-092261	811-207002	811-207001
C50THEL3506016	UTENSILE C50-SEL16	C50	50	60	35	16EL...	843-092271	811-207002	811-207001
C50THER3506016	UTENSILE C50-SER16	C50	50	60	35	16ER...	843-092261	811-207002	811-207001
C63THEL4506516	UTENSILE C63-SEL16	C63	63	65	45	16EL...	843-092271	811-207002	811-207001
C63THER4506516	UTENSILE C63-SER16	C63	63	65	45	16ER...	843-092261	811-207002	811-207001

ISO 26623-1 POLYGONAL INTERNAL TURNING TOOLS

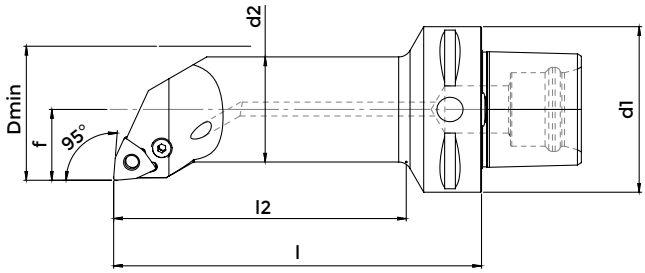




PCLN

COD.	DESCRIPTION	POLYGONAL	d1	d2	l	l2	f	Dmin	INSERT	LEVER	SCREW	SUPPORT PAD	SPRING
C40PCLNL2211012	UTENSILE C40-PCLNL12	C40	40	32	110	87	22	39	CN..1204..	831-001540	811-301153	843-022061	815-321400
C40PCLNR2211012	UTENSILE C40-PCLNR12	C40	40	32	110	87	22	39	CN..1204..	831-001540	811-301153	843-022061	815-321400
C50PCLNL2211012	UTENSILE C50-PCLNL12	C50	50	32	110	87	22	39	CN..1204..	831-001540	811-301153	843-022061	815-321400
C50PCLNR2211012	UTENSILE C50-PCLNR12	C50	50	32	110	87	22	39	CN..1204..	831-001540	811-301153	843-022061	815-321400
C63PCLNL2714012	UTENSILE C63-PCLNL12	C63	63	40	140	111	27	48	CN..1204..	831-001540	811-301153	843-022061	815-321400
C63PCLNR2714012	UTENSILE C63-PCLNR12	C63	63	40	140	111	27	48	CN..1204..	831-001540	811-301153	843-022061	815-321400



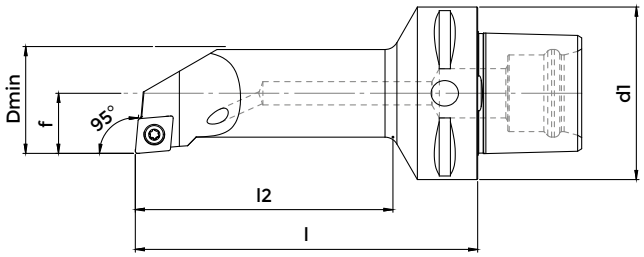


PWLN

COD.	DESCRIPTION	POLYGONAL	d1	d2	l	l2	f	Dmin	INSERT	LEVER	SCREW	SUPPORT PAD	SPRING
C40PWLNL2211008	UTENSILE C40-PWLNL08	C40	40	32	110	87	22	39	WN..0804..	831-001540	811-301153	843-081131	815-321400
C40PWLNR2211008	UTENSILE C40-PWLNR08	C40	40	32	110	87	22	39	WN..0804..	831-001540	811-301153	843-081131	815-321400
C50PWLNL2211008	UTENSILE C50-PWLNL08	C50	50	32	110	87	22	39	WN..0804..	831-001540	811-301153	843-081131	815-321400
C50PWLNR2211008	UTENSILE C50-PWLNR08	C50	50	32	110	87	22	39	WN..0804..	831-001540	811-301153	843-081131	815-321400
C63PWLNL2714008	UTENSILE C63-PWLNL08	C63	63	40	140	111	27	48	WN..0804..	831-001540	811-301153	843-081131	815-321400
C63PWLNR2714008	UTENSILE C63-PWLNR08	C63	63	40	140	111	27	48	WN..0804..	831-001540	811-301153	843-081131	815-321400

ISO 26623-1 POLYGONAL INTERNAL TURNING TOOLS



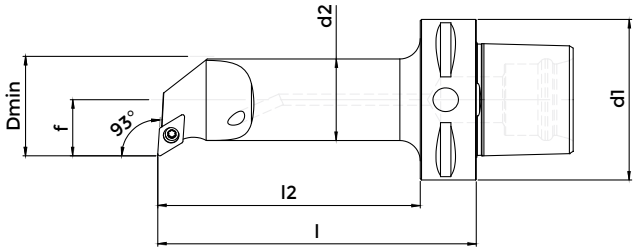


SCLC

COD.	DESCRIPTION	POLYGONAL	d1	d2	l	l2	f	Dmin	INSERT	SUPPORT PAD	BUSH	SCREW
												
C40SCLCL1107009	UTENSILE C40-SCLCL09	C40	40	16	70	47	11	20	CC..09T3..	-	-	811-256031
C40SCLCR1107009	UTENSILE C40-SCLCR09	C40	40	16	70	47	11	20	CC..09T3..	-	-	811-256031
C40SCLCL1308009	UTENSILE C40-SCLCL09	C40	40	20	80	58	13	25	CC..09T3..	-	-	811-256031
C40SCLCR1308009	UTENSILE C40-SCLCR09	C40	40	20	80	58	13	25	CC..09T3..	-	-	811-256031
C40SCLCL1709012	UTENSILE C40-SCLCL12	C40	40	25	90	68	17	30	CC..1204..	-	-	811-266005
C40SCLCR1709012	UTENSILE C40-SCLCR12	C40	40	25	90	68	17	30	CC..1204..	-	-	811-266005
C40SCLCL2211012	UTENSILE C40-SCLCL12	C40	40	32	110	87	22	39	CC..1204..	843-022051	811-301156	811-266006
C40SCLCR2211012	UTENSILE C40-SCLCR12	C40	40	32	110	87	22	39	CC..1204..	843-022051	811-301156	811-266006
C50SCLCL1709012	UTENSILE C50-SCLCL12	C50	50	25	90	68	17	30	CC..1204..	-	-	811-266005
C50SCLCR1709012	UTENSILE C50-SCLCR12	C50	50	25	90	68	17	30	CC..1204..	-	-	811-266005
C50SCLCL2211012	UTENSILE C50-SCLCL12	C50	50	32	110	87	22	39	CC..1204..	843-022051	811-301156	811-266006
C50SCLCR2211012	UTENSILE C50-SCLCR12	C50	50	32	110	87	22	39	CC..1204..	843-022051	811-301156	811-266006
C63SCLCL2212512	UTENSILE C63-SCLCL12	C63	63	32	125	102	22	39	CC..1204..	843-022051	811-301156	811-266006
C63SCLCR2212512	UTENSILE C63-SCLCR12	C63	63	32	125	102	22	39	CC..1204..	843-022051	811-301156	811-266006
C63SCLCL2216012	UTENSILE C63-SCLCL12	C63	63	32	160	132	22	39	CC..1204..	843-022051	811-301156	811-266006
C63SCLCR2216012	UTENSILE C63-SCLCR12	C63	63	32	160	132	22	39	CC..1204..	843-022051	811-301156	811-266006
C63SCLCL2714012	UTENSILE C63-SCLCL12	C63	63	40	140	111	27	48	CC..1204..	843-022051	811-301156	811-266006
C63SCLCR2714012	UTENSILE C63-SCLCR12	C63	63	40	140	111	27	48	CC..1204..	843-022051	811-301156	811-266006
C63SCLCL2718012	UTENSILE C63-SCLCL12	C63	63	40	180	151	27	48	CC..1204..	843-022051	811-301156	811-266006
C63SCLCR2718012	UTENSILE C63-SCLCR12	C63	63	40	180	151	27	48	CC..1204..	843-022051	811-301156	811-266006

ISO 26623-1 POLYGONAL INTERNAL TURNING TOOLS



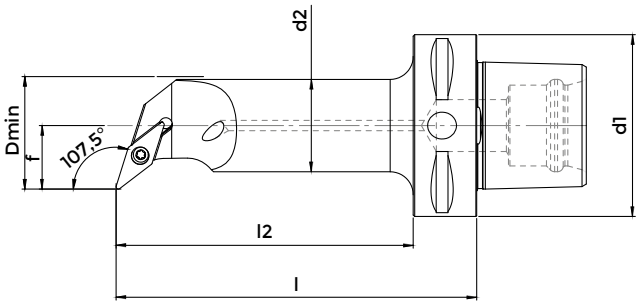


SDUC

COD.	DESCRIPTION	POLYGONAL	d1	d2	l	l2	f	Dmin	INSERT	SUPPORT PAD	BUSH	SCREW
												
C40SDUCL1107007	UTENSILE C40-SDUCL07	C40	40	16	70	47	11	20	DC..0702..	-	-	811-226020
C40SDUCR1107007	UTENSILE C40-SDUCR07	C40	40	16	70	47	11	20	DC..0702..	-	-	811-226020
C40SDUCL1308011	UTENSILE C40-SDUCL11	C40	40	20	80	58	13	25	DC..11T3..	-	-	811-256031
C40SDUCR1308011	UTENSILE C40-SDUCR11	C40	40	20	80	58	13	25	DC..11T3..	-	-	811-256031
C40SDUCL1709011	UTENSILE C40-SDUCL11	C40	40	25	90	68	17	30	DC..11T3..	-	-	811-256032
C40SDUCR1709011	UTENSILE C40-SDUCR11	C40	40	25	90	68	17	30	DC..11T3..	-	-	811-256032
C40SDUCL2211011	UTENSILE C40-SDUCL11	C40	40	32	110	87	22	39	DC..11T3..	843-032031	811-301157	811-246021
C40SDUCR2211011	UTENSILE C40-SDUCR11	C40	40	32	110	87	22	39	DC..11T3..	843-032031	811-301157	811-246021
C50SDUCL1709011	UTENSILE C50-SDUCL11	C50	50	25	90	68	17	30	DC..11T3..	-	-	811-256032
C50SDUCR1709011	UTENSILE C50-SDUCR11	C50	50	25	90	68	17	30	DC..11T3..	-	-	811-256032
C50SDUCL2211011	UTENSILE C50-SDUCL11	C50	50	32	110	110	22	87	DC..11T3..	843-032031	811-301157	811-246021
C50SDUCR2211011	UTENSILE C50-SDUCR11	C50	50	32	110	110	22	87	DC..11T3..	843-032031	811-301157	811-246021
C63SDUCL2212511	UTENSILE C63-SDUCL11	C63	63	32	125	102	22	39	DC..11T3..	843-032031	811-301157	811-246021
C63SDUCR2212511	UTENSILE C63-SDUCR11	C63	63	32	125	102	22	39	DC..11T3..	843-032031	811-301157	811-246021
C63SDUCL2216011	UTENSILE C63-SDUCL11	C63	63	32	160	132	22	39	DC..11T3..	843-032031	811-301157	811-246021
C63SDUCR2216011	UTENSILE C63-SDUCR11	C63	63	32	160	132	22	39	DC..11T3..	843-032031	811-301157	811-246021
C63SDUCL2714011	UTENSILE C63-SDUCL11	C63	63	40	140	111	27	48	DC..11T3..	843-032031	811-301157	811-246021
C63SDUCR2714011	UTENSILE C63-SDUCR11	C63	63	40	140	111	27	48	DC..11T3..	843-032031	811-301157	811-246021
C63SDUCL2718011	UTENSILE C63-SDUCL11	C63	63	40	180	151	27	48	DC..11T3..	843-032031	811-301157	811-246021
C63SDUCR2718011	UTENSILE C63-SDUCR11	C63	63	40	180	151	27	48	DC..11T3..	843-032031	811-301157	811-246021

ISO 26623-1 POLYGONAL INTERNAL TURNING TOOLS



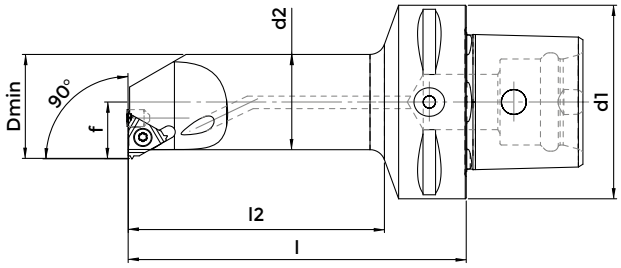


SVQB

COD.	DESCRIPTION	POLYGONAL	d1	d2	l	l2	f	Dmin	INSERT	SUPPORT PAD	BUSH	SCREW
												
C50SVQBL1709016	UTENSILE C50-SVQBL16	C50	50	25	90	65	17	30	VB..1604..	-	-	811-246020
C50SVQBR1709016	UTENSILE C50-SVQBR16	C50	50	25	90	65	17	30	VB..1604..	-	-	811-246020
C63SVQBL2212516	UTENSILE C63-SVQBL16	C63	63	32	125	95	22	39	VB..1604..	843-062071	811-301157	811-246021
C63SVQBR2212516	UTENSILE C63-SVQBR16	C63	63	32	125	95	22	39	VB..1604..	843-062071	811-301157	811-246021
C63SVQBL2718016	UTENSILE C63-SVQBL16	C63	63	40	180	150	27	48	VB..1604..	843-062071	811-301157	811-246021
C63SVQBR2718016	UTENSILE C63-SVQBR16	C63	63	40	180	150	27	48	VB..1604..	843-062071	811-301157	811-246021

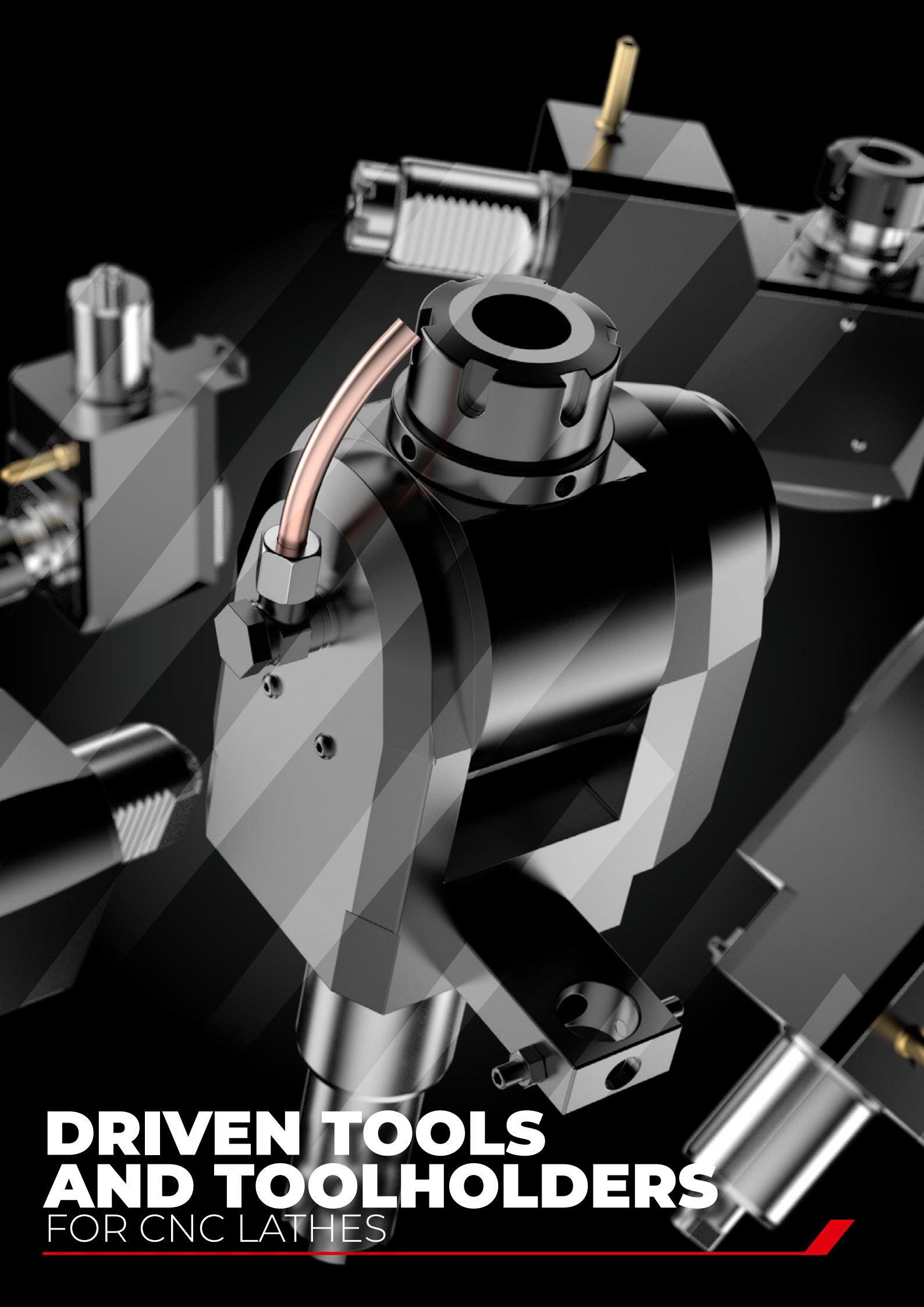
ISO 26623-1 POLYGONAL INTERNAL THREADING TOOLS





THE

COD.	DESCRIPTION	POLYGONAL	d1	d2	l	l2	f	Dmin	INSERT	SUPPORT PAD	SCREW	SCREW
												
C40THEL1709016	UTENSILE C40-ANL16	C40	40	25	90	65	17	32	16IL...	843-092261	811-207002	811-207001
C40THER1709016	UTENSILE C40-ANR16	C40	40	25	90	65	17	32	16IR...	843-092271	811-207002	811-207001
C50THEL1709016	UTENSILE C50-ANL16	C50	50	25	90	65	17	32	16IL...	843-092261	811-207002	811-207001
C50THER1709016	UTENSILE C50-ANR16	C50	50	25	90	65	17	32	16IR...	843-092271	811-207002	811-207001
C63THEL2011016	UTENSILE C63-ANL16	C63	63	31	110	78	20	39	16IL...	843-092261	811-207002	811-207001
C63THER2011016	UTENSILE C63-ANR16	C63	63	31	110	78	20	39	16IR...	843-092271	811-207002	811-207001

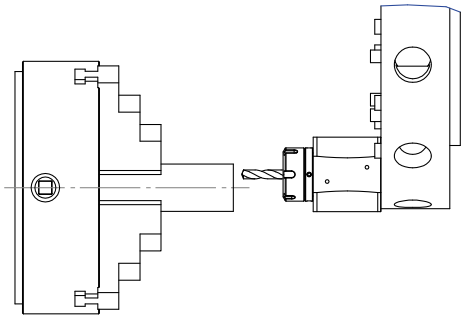


DRIVEN TOOLS AND TOOLHOLDERS

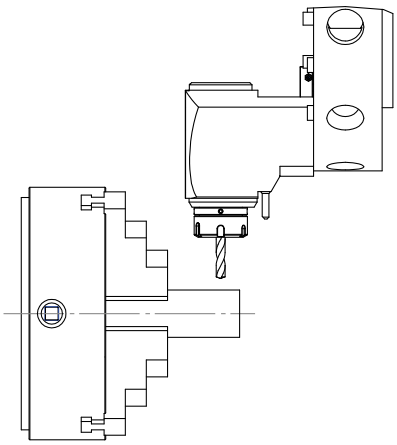
FOR CNC LATHES

OPERATIONS WITH VDI STAR - TYPE TURRET

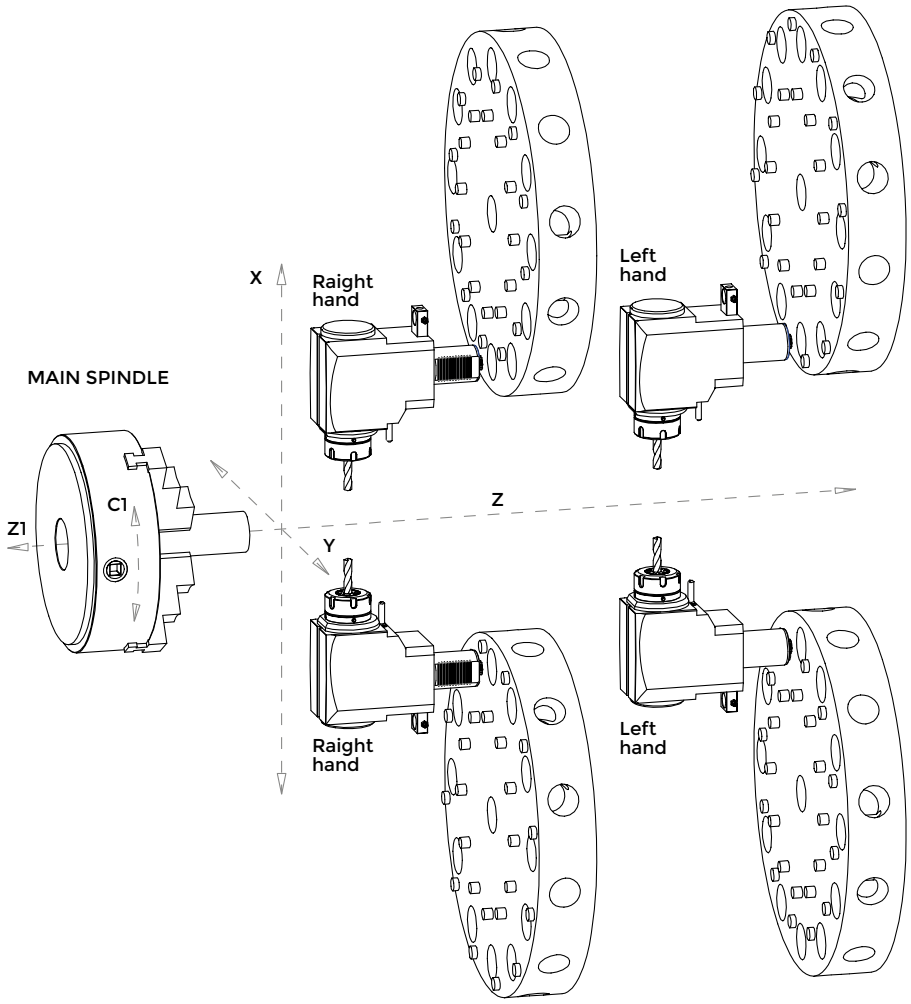
AXIAL OPERATION
STRAIGHT TOOL OLDER



RADIAL OPERATION
ANGOLAR TOOL HOLDER 90° ANGLE

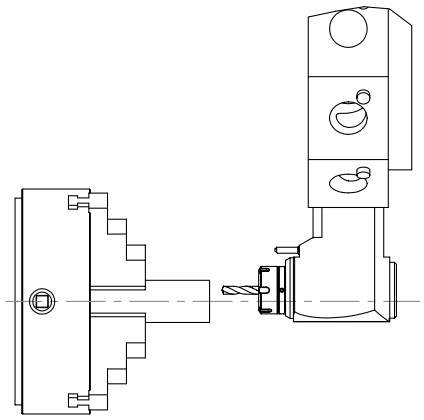


RAIGHT AND LEFT HAND

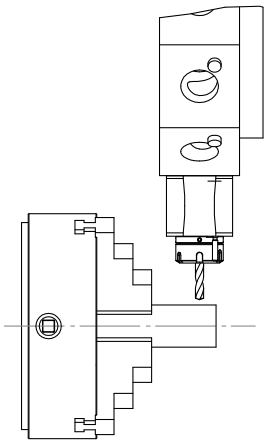


OPERATIONS WITH VDI STAR - TYPE TURRET

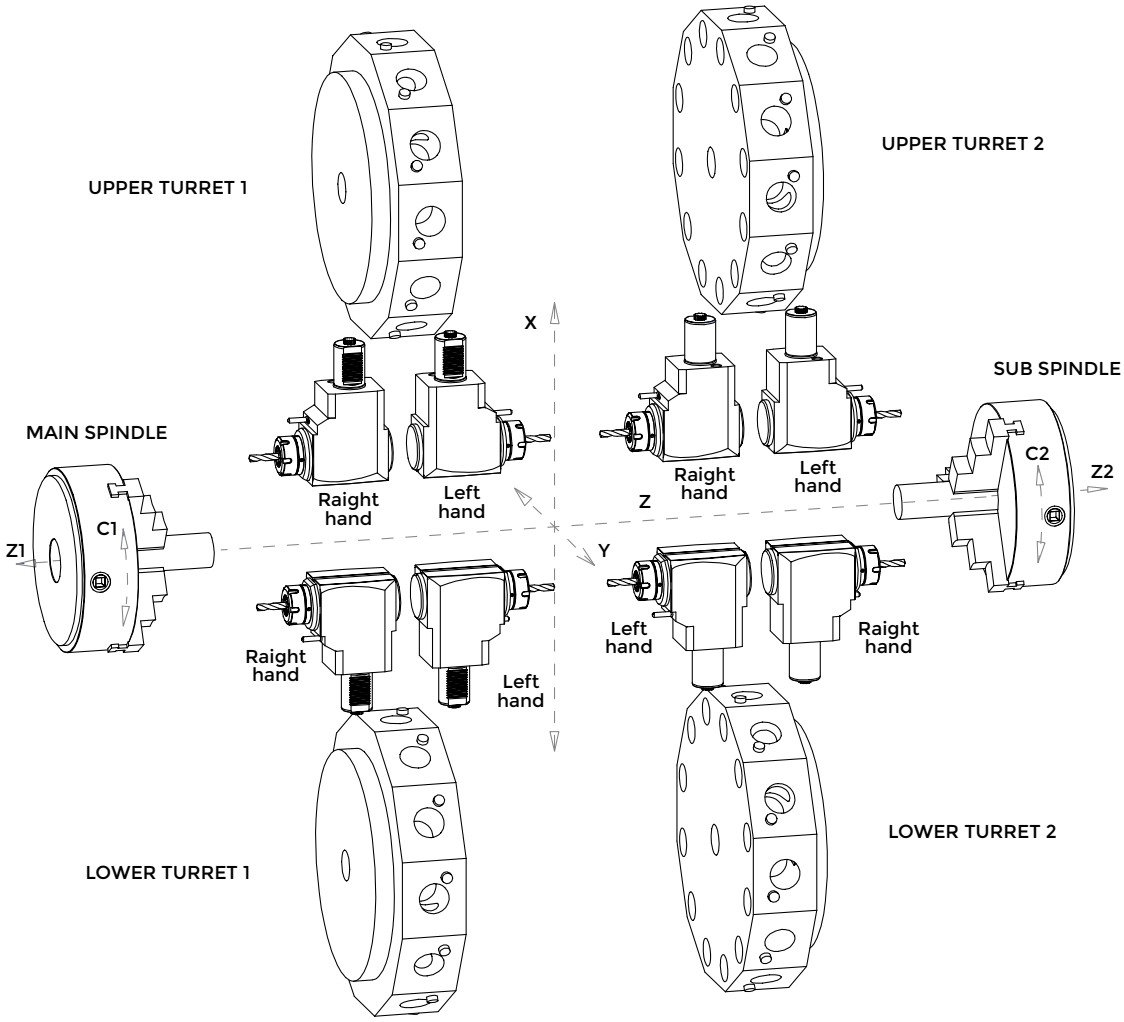
AXIAL OPERATION
ANGULAR TOOL HOLDER 90° ANGLE



RADIAL OPERATION
STRAIGHT TOOL HOLDER

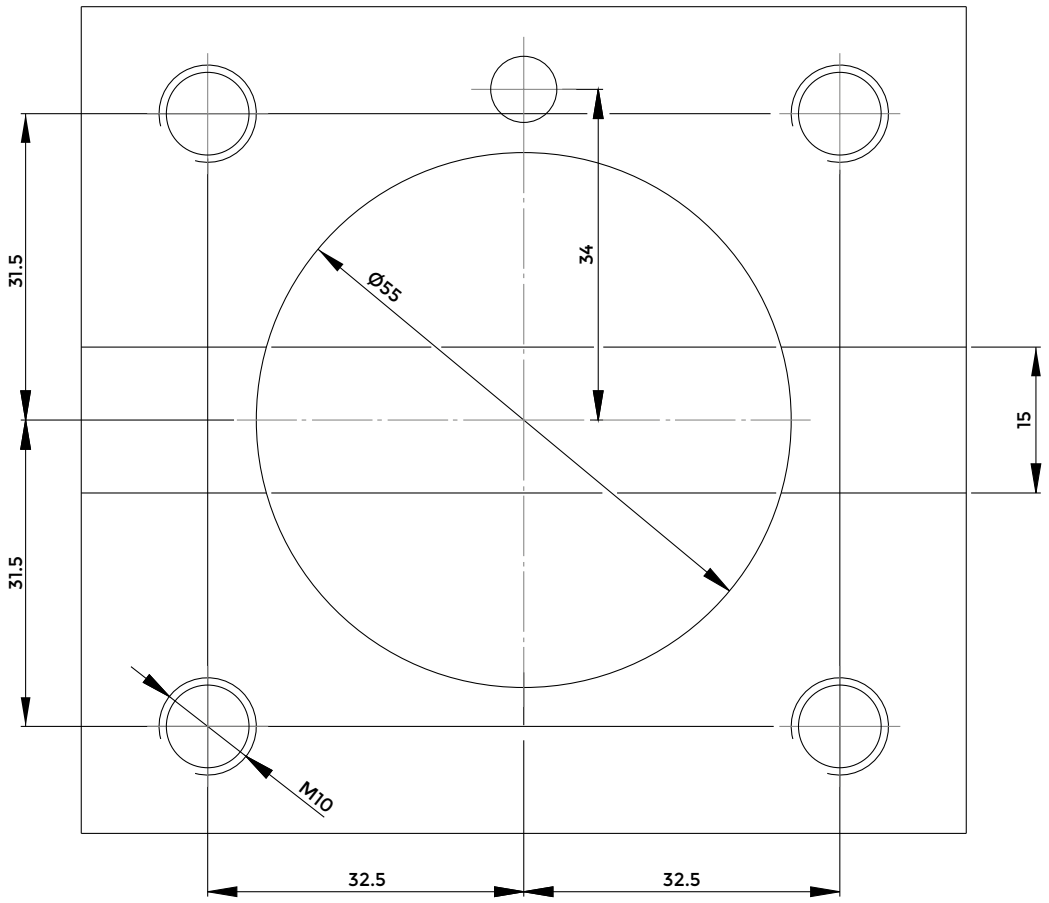


RAIGHT AND LEFT HAND VERSION ON STAR TYPE TURRETS WITH MAIN AND SUB

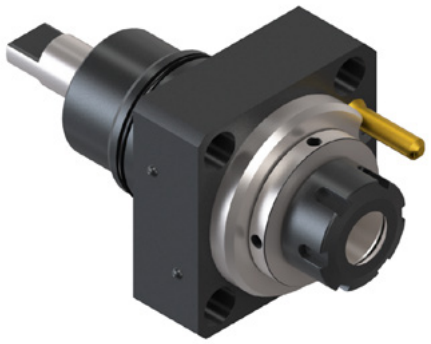


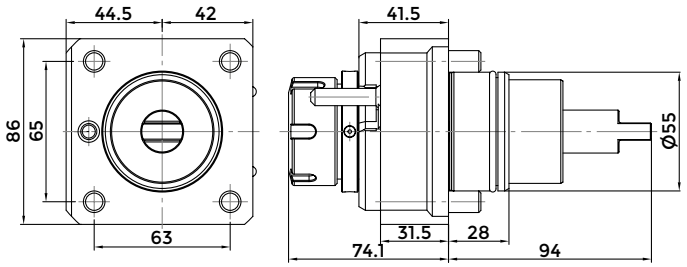
BIGLIA - B301/445/470/501(Y-S)/510/545/550/565/650/658/1200/446/465/745/765-B750/1250 16 ST.

CONNECTION TURRET BIGLIA



AXIAL DRILLING AND MILLING HEAD



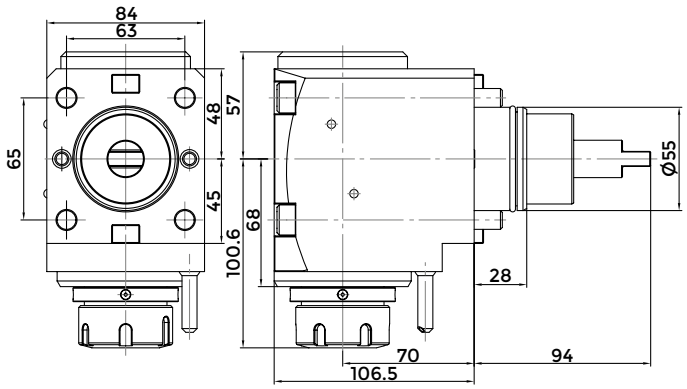


BIGLIA

COD.	ER	MAX SPEED (Rpm)	RATIO	MAX TORQUE (Nm)	INTERNAL COOLING	P Bar
124-05519	ER25	6000	1:1	50	NO	-
124-05520	ER25	6000	1:1	50	YES	20
124-05521	ER32	6000	1:1	50	NO	-
124-05522	ER32	6000	1:1	50	YES	20

RADIAL DRILLING AND MILLING HEAD

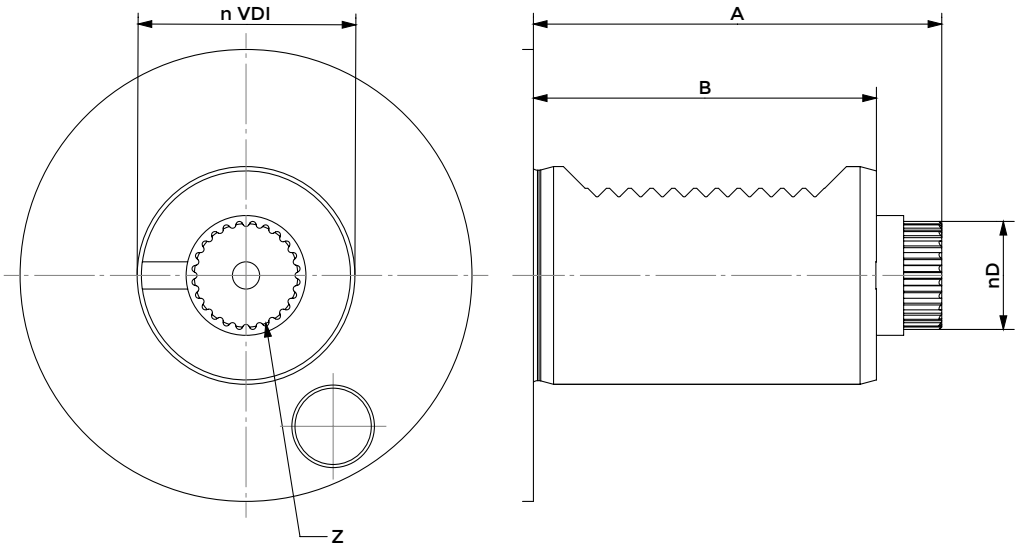




BIGLIA

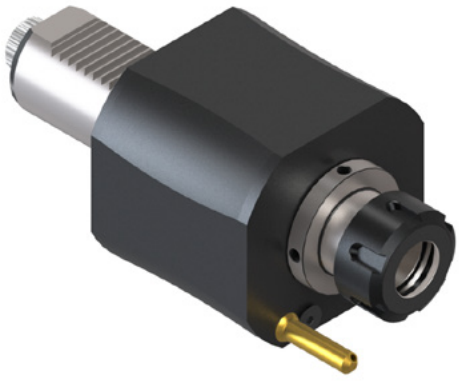
COD.	ER	MAX SPEED (Rpm)	RATIO	MAX TORQUE (Nm)	INTERNAL COOLING	P Bar
124-05523	ER32	6000	1:1	50	NO	-
124-05524	ER32	6000	1:1	50	YES	20

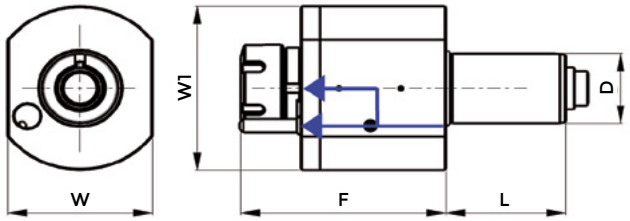
DIN5480



VDI	A	B	d	Z
30	67	55	15,8	18
40	75	63	19,8	24
50	93	78	23,8	18

AXIAL DRILLING AND MILLING HEAD



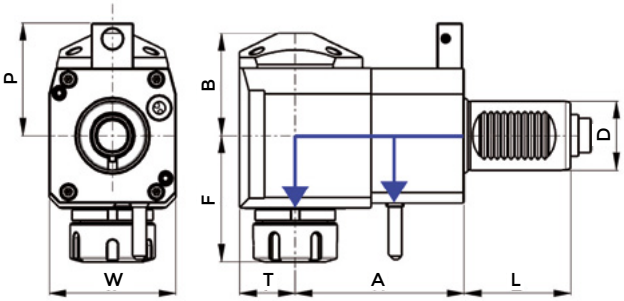


DIN5480 SAUTER

COD.	D	ER	INTERNAL COOLING	F	L	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-43001	30	ER25	NO	87	55	64	68	28	6000	1:1	-
116-43002	30	ER25	YES	87	55	64	68	28	6000	1:1	20
116-44001	40	ER25	NO	105	63	80	86	50	6000	1:1	-
116-44002	40	ER25	YES	105	63	80	86	50	6000	1:1	20
116-44003	40	ER32	NO	108	63	80	86	50	6000	1:1	-
116-44004	40	ER32	YES	108	63	80	86	50	6000	1:1	20
116-45040	50	ER32	NO	114,1	78	88	88	80	6000	1:1	-
116-45041	50	ER32	YES	114,1	78	88	88	80	6000	1:1	20
116-45017	50	ER40	YES	116,1	78	88	88	80	6000	1:1	20

RADIAL DRILLING AND MILLING HEAD





DIN5480 SAUTER

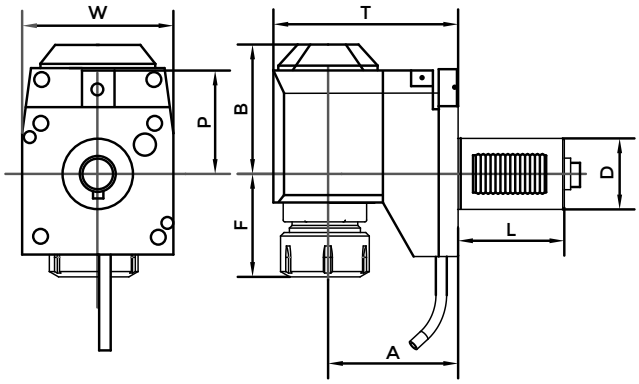
COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	P	T	W	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-43003	30	ER25	NO	DX	55	48	63	55	56	29	64	28	6000	1:1	-
116-43004	30	ER25	YES	DX	55	51	63	55	56	29	64	28	6000	1:1	20
116-43004L	30	ER25	YES	SX	55	51	63	55	56	29	64	28	6000	1:1	20
116-44005	40	ER25	NO	DX	80	59	70	63	65	36	75	50	6000	1:1	-
116-44006	40	ER25	YES	DX	80	62	70	63	65	36	75	50	6000	1:1	20
116-44006-80BAR	40	ER25	YES	DX	80	62	70	63	65	36	75	50	6000	1:1	80
116-43005	30	ER25	NO	DX	85	48	63	55	56	29	64	28	6000	1:1	-
116-43006	30	ER25	YES	DX	85	51	63	55	56	29	64	28	6000	1:1	20
116-54069	30	ER25	YES	DX/SX	85	51	65	55	56	29	64	28	6000	1:1	20
116-46001	30	ER25	NO	DX	100	48	63	55	56	29	64	28	6000	1:1	-
116-46002	30	ER25	YES	DX	100	51	63	55	56	29	64	28	6000	1:1	20
116-54097	40	ER25	NO	SX	100	59	72	63	65	36	75	50	6000	1:1	-
116-44007	40	ER25	NO	DX	100	59	70	63	65	36	75	50	6000	1:1	-
116-44008	40	ER25	YES	DX	100	62	70	63	65	36	75	50	6000	1:1	20
116-44009	40	ER32	NO	DX	80	59	74	63	65	36	75	50	6000	1:1	-
116-54098	40	ER32	YES	DX/SX	80	62	75	63	65	36	75	50	6000	1:1	20
116-44010	40	ER32	YES	DX	80	62	74	63	65	36	75	50	6000	1:1	20
116-44011	40	ER32	NO	DX	100	59	74	63	65	36	75	50	6000	1:1	-
116-44012	40	ER32	YES	DX	100	62	74	63	65	36	75	50	6000	1:1	20
116-44012L	40	ER32	YES	SX	100	62	74	63	65	36	75	50	6000	1:1	20
116-54099	40	ER32	YES	DX	100	72	75	63	65	36	75	50	6000	1:1	80
116-45053	50	ER32	NO	SX	110	64	117,1	78	73	42	88	80	6000	1:1	-
116-45054	50	ER32	YES	DX	110	64	117,1	78	73	42	88	80	6000	1:1	20
116-45030	50	ER40	YES	DX	110	64	119,1	78	73	42	88	80	6000	1:1	20

* left version on enquiry

ON REQUES AVAILABLE INTERNAL COOLANT 80 BAR

OFFSET RADIAL DRILLING AND MILLING HEAD



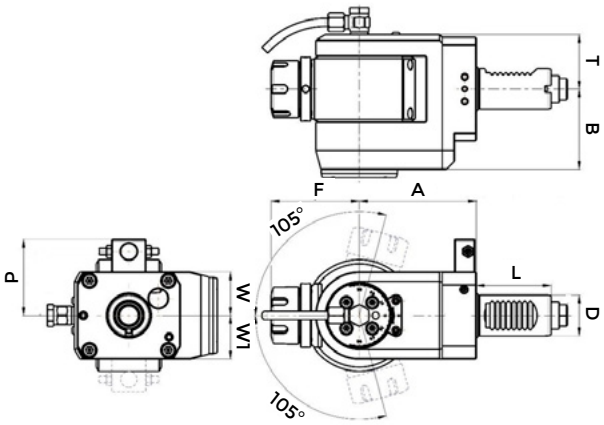


DIN 5480 SAUTER

COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	P	T	W	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-43008	30	ER25	NO	DX	75	71	40	55	56	104	64	28	6000	1:1	-
116-43009	30	ER25	YES	DX	75	74	40	55	56	104	64	28	6000	1:1	20
116-44016	40	ER32	NO	DX	120	92	41	63	65	156	75	50	6000	1:1	-
116-44017	40	ER32	YES	DX	120	95	41	63	65	156	75	50	6000	1:1	20

AXIAL - RADIAL DRILLING AND MILLING HEAD

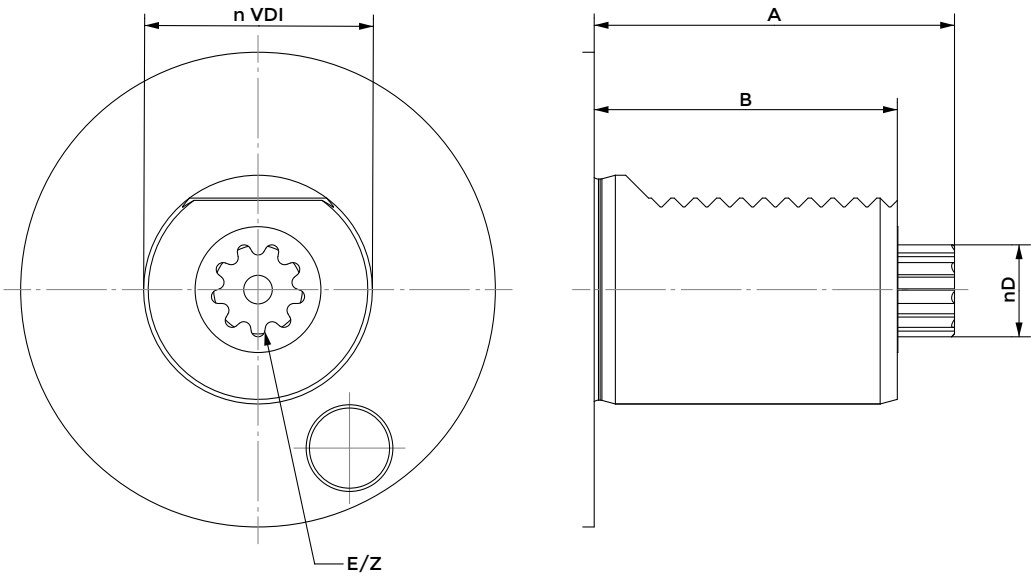




DIN 5480 SAUTER

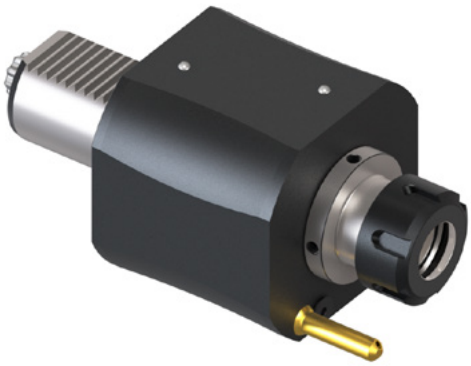
COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	P	T	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-54083	30	ER25	NO	DX	86	59	45	55	56	40	32	32	16	6000	1:1	-
116-54084	30	ER25	YES	DX	86	59	45	55	56	40	32	32	16	6000	1:1	20
116-54085	30	ER25	YES	SX	86	59	65	55	56	40	32	32	16	6000	1:1	20

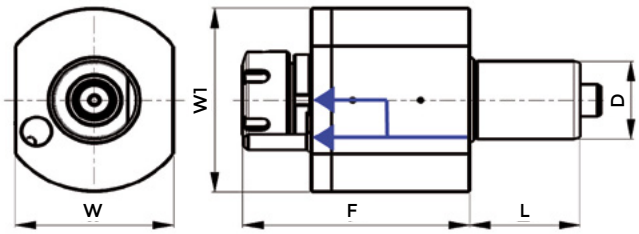
DIN5482



VDI	A	B	d	E	Z
30	55	45	14,5	B15X12	8
40	63	53	16,5	B17X14	9
50	93	78	19,5	B20X17	11

AXIAL DRILLING AND MILLING HEAD



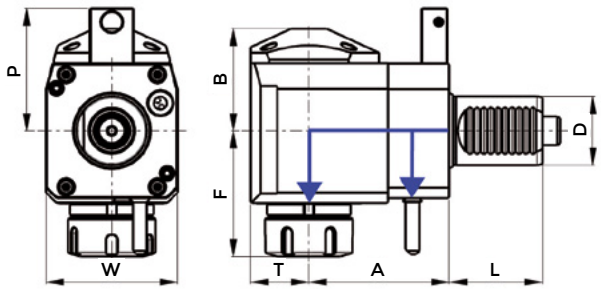


DIN5482 SAUTER

COD.	D	ER	INTERNAL COOLING	F	L	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-43010	30	ER25	NO	87	45	64	68	28	6000	1:1	-
116-43011	30	ER25	YES	87	45	64	68	28	6000	1:1	20
116-44019	40	ER25	YES	105	53	80	86	50	6000	1:1	20
116-44020	40	ER32	NO	108	53	80	86	50	6000	1:1	-
116-44021	40	ER32	YES	108	53	80	86	50	6000	1:1	20
116-45013	50	ER40	YES	116,1	71	88	88	80	6000	1:1	20

RADIAL DRILLING AND MILLING HEAD





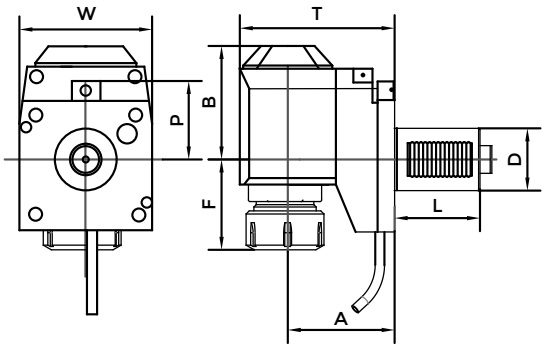
DIN5482 SAUTER

COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	P	T	W	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-43013	30	ER25	YES	DX	55	51	63	45	48	26	64	28	6000	1:1	20
116-44024	40	ER32	NO	DX	80	59	74	53	71	33	75	50	6000	1:1	-
116-44025	40	ER32	YES	DX	80	62	74	53	71	33	75	50	6000	1:1	20
116-45044	50	ER32	NO	DX	110	64	117,1	71	83	42	88	80	6000	1:1	-

* left version on enquiry
ON REQUES AVAILABLE INTERNAL COOLANT 80 BAR

OFFSET RADIAL DRILLING AND MILLING HEAD





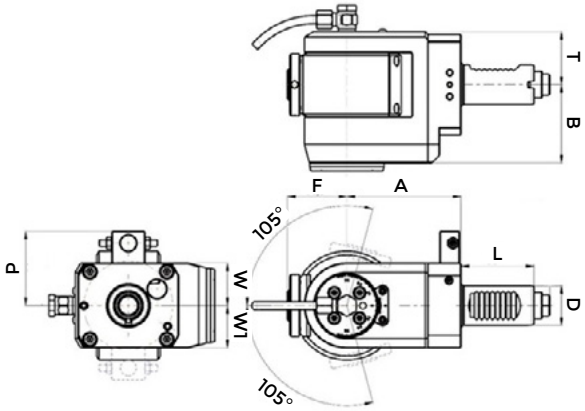
DIN5482 SAUTER

COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	P	T	W	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-54076	30	ER25	NO	SX	75	71	42	45	48	104	64	28	6000	1:1	-

* left version on enquiry
ON REQUES AVAILABLE INTERNAL COOLANT 80 BAR

AXIAL - RADIAL DRILLING AND MILLING HEAD WITH INTERNAL NUT

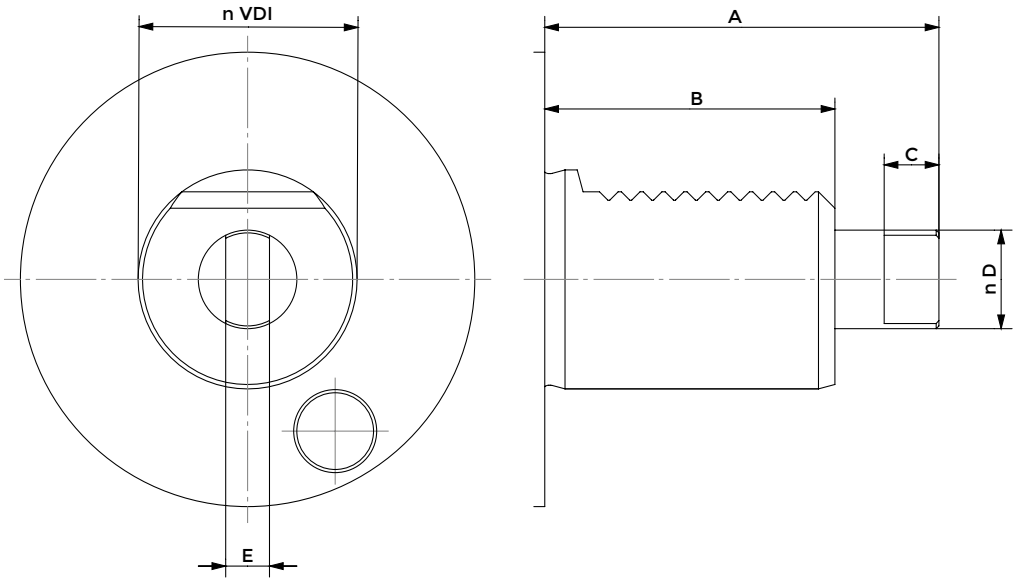




DIN5482 SAUTER

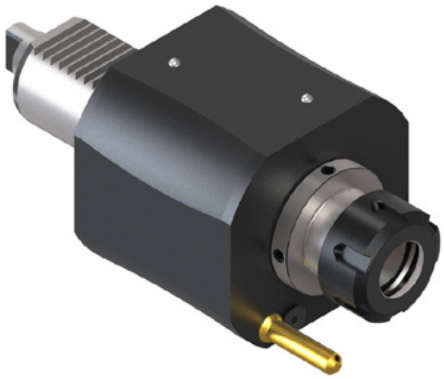
COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	P	T	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-54080	30	ER16	NO	DX	86	59	45	55	48	40	32	32	16	6000	1:1	-

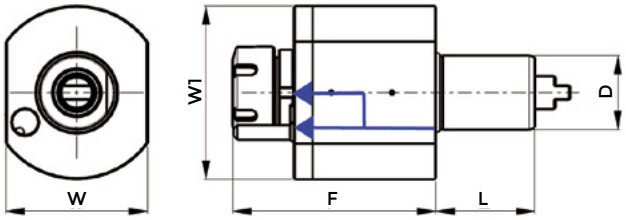
DIN1809



VDI	A	B	C	d	E
30	62	45	8	12	6
40	72	53	10	18	8
50	91	78	13	24	13

AXIAL DRILLING AND MILLING HEAD

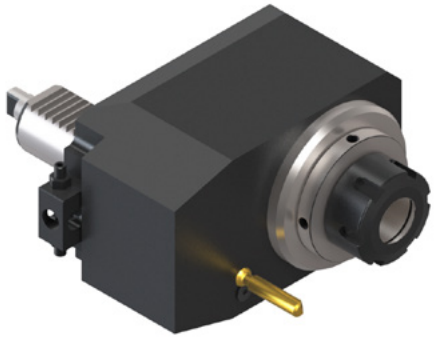


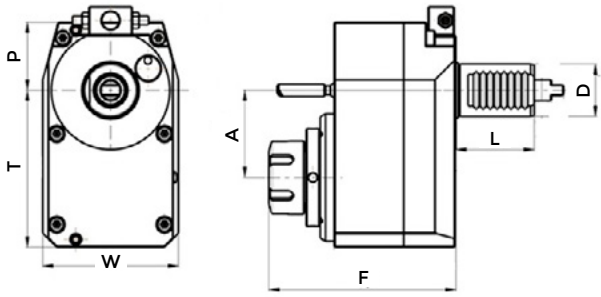


DIN1809 - DUPLOMATIC

COD.	D	ER	INTERNAL COOLING	F	L	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-54065	30	ER25	YES	90	55	64	68	28	6000	1:1	20
116-43017	30	ER25	NO	87	45	64	68	28	6000	1:1	-
116-43018	30	ER25	YES	87	45	64	68	28	6000	1:1	20
116-44027	40	ER25	YES	105	53	80	86	50	6000	1:1	20
116-44028	40	ER32	NO	108	53	80	86	50	6000	1:1	-
116-44029	40	ER32	YES	108	53	80	86	50	6000	1:1	20
116-44030	40	ER32	NO	95	53	80	86	50	6000	1:1	-
116-44031	40	ER32	YES	95	53	80	86	50	6000	1:1	20
116-45039	50	ER32	YES	114,1	71	88	88	80	6000	1:1	20
116-45014	50	ER40	NO	116,1	71	88	88	80	6000	1:1	-
116-45015	50	ER40	YES	116,1	71	88	88	80	6000	1:1	20

OFFSET AXIAL DRILLING AND MILLING HEAD



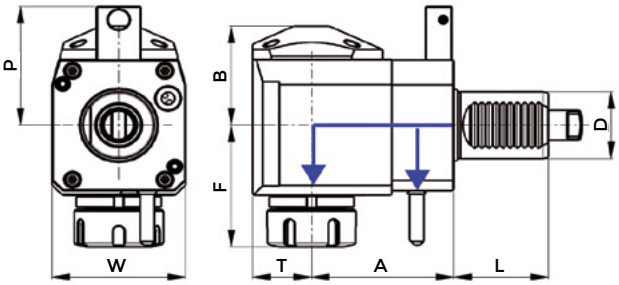


DIN1809 - DUPLOMATIC

COD.	D	ER	INTERNAL COOLING	DIRECTION	A	F	L	P	T	W	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-54074	30	ER25	NO	DX	50	107,6	45	40	90	78	14	12000	1:2	-

RADIAL DRILLING AND MILLING HEAD





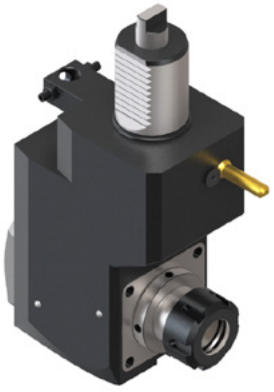
DIN1809 - DUPLOMATIC

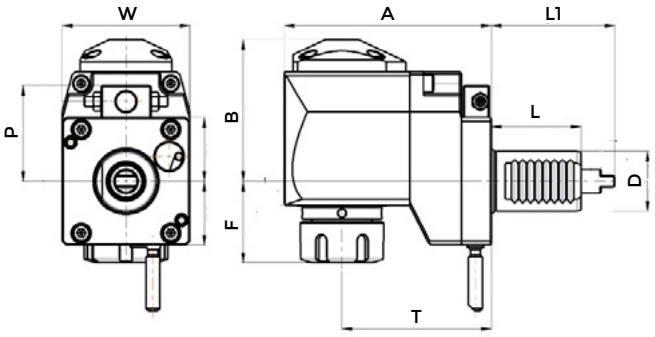
COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	P	T	W	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-54068	30	ER25	NO	SX	55	48	65	55	48	29	64	28	6000	1:1	-
116-43019	30	ER25	NO	DX	55	48	63	45	48	29	64	28	6000	1:1	-
116-43020	30	ER25	YES	DX	55	51	63	45	48	29	64	28	6000	1:1	20
116-54092	40	ER32	NO	SX	80	59	75	53	71	36	75	50	6000	1:1	-
116-44034	40	ER32	NO	DX	80	59	74	53	71	36	75	50	6000	1:1	-
116-44035	40	ER32	YES	DX	80	62	74	53	71	36	75	50	6000	1:1	20
116-44038	40	ER32	NO	SX	100	59	74	53	-	36	75	50	6000	1:1	-
116-44039	40	ER32	YES	SX	100	62	74	53	-	36	75	50	6000	1:1	20
116-45050	50	ER32	YES	DX	110	64	117,1	71	83	42	88	80	6000	1:1	20
116-45051	50	ER32	YES	SX	110	64	117,1	71	83	42	88	80	6000	1:1	20
116-45026	50	ER40	YES	DX	110	64	119,1	71	83	42	88	80	6000	1:1	20

* left version on enquiry

ON REQUES AVAILABLE INTERNAL COOLANT 80 BAR

OFFSET RADIAL DRILLING AND MILLING HEAD





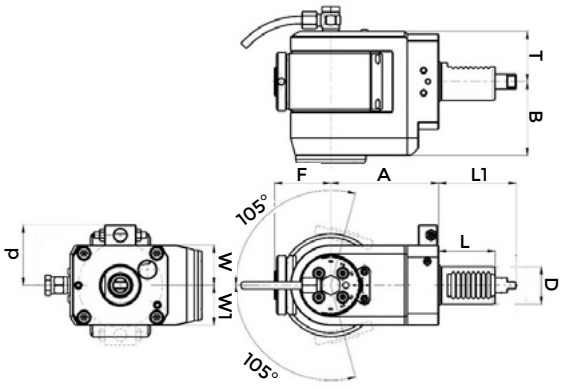
DIN1809 - DUPLOMATIC

COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	P	T	W	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-43022	30	ER25	NO	DX	104	71	40	45	48	75	64	28	6000	1:1	-
116-43022L	30	ER25	NO	SX	104	71	40	45	48	75	64	28	6000	1:1	-
116-43023	30	ER25	YES	DX	104	74	40	45	48	75	64	28	6000	1:1	20
116-46010	40	ER32	YES	DX	156	95	40	53	72	120	75	50	6000	1:1	20

ON REQUES AVAILABLE INTERNAL COOLANT 80 BAR

AXIAL - RADIAL DRILLING AND MILLING HEAD WITH INTERNAL NUT

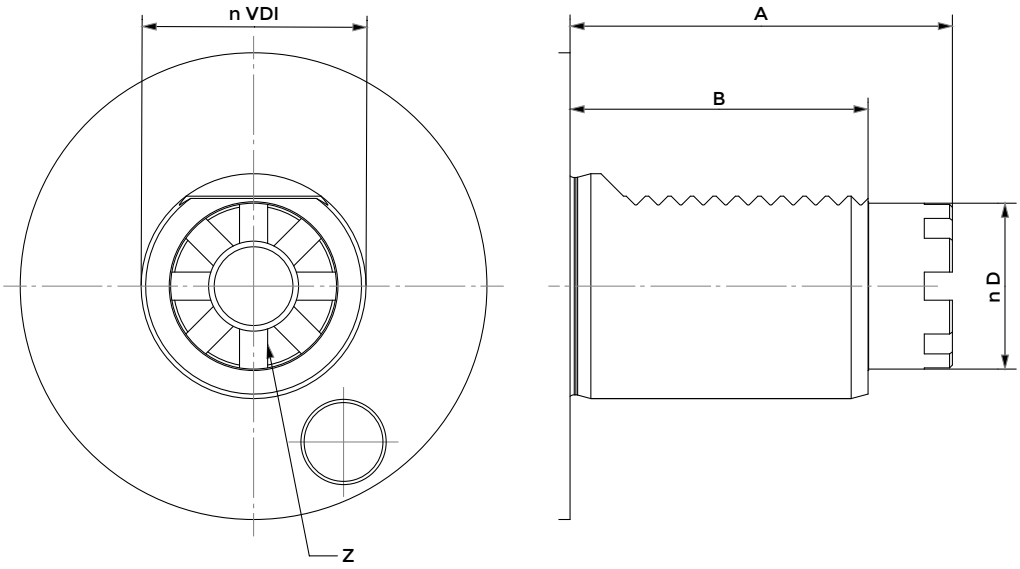




DIN1809 - DUPLOMATIC

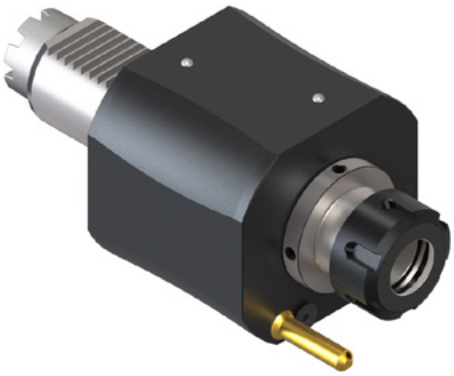
COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	L1	P	T	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-54082	30	ER16	NO	DX	79	59	45	45	62	48	40	32	32	16	6000	1:1	-
116-54081	30	ER25	NO	SX	79	59	45	45	62	48	40	32	32	16	6000	1:1	-
116-54114	40	ER25	NO	SX	79	59	65	53	72	71	40	32	32	16	6000	1:1	-

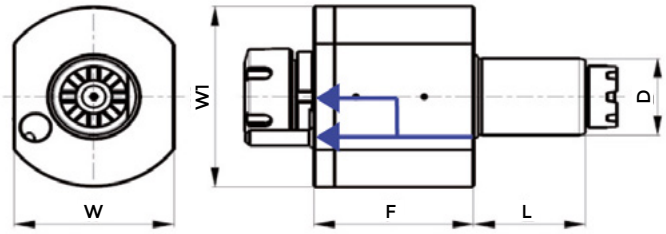
TOEM BARUFFALDI



VDI	A	B	d	Z
30	59	45/53	24	6
40	68	53	32	8
50	84	70	40	8

AXIAL DRILLING AND MILLING HEAD



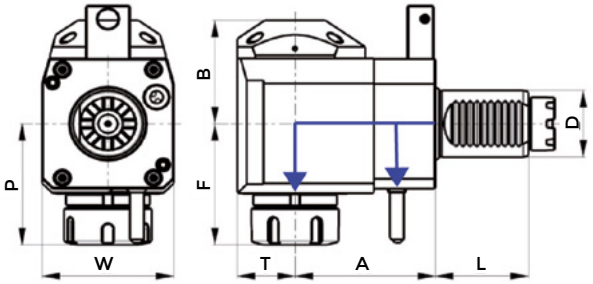


TOEM BARUFFALDI

COD.	D	ER	INTERNAL COOLING	F	L	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-43024	30	ER25	NO	87	45	64	68	28	6000	1:1	-
116-43025	30	ER25	YES	87	45	64	68	28	6000	1:1	20
116-44045	40	ER25	YES	105	53	80	86	50	6000	1:1	20
116-44046	40	ER32	NO	108	53	80	86	50	6000	1:1	-
116-44047	40	ER32	YES	108	53	80	86	50	6000	1:1	20
116-45043	50	ER32	YES	114,1	71	88	88	80	6000	1:1	20
116-45018	50	ER40	NO	116,1	71	88	88	80	6000	1:1	-
116-45019	50	ER40	YES	116,1	71	88	88	80	6000	1:1	20

RADIAL DRILLING AND MILLING HEAD





TOEM BARUFFALDI

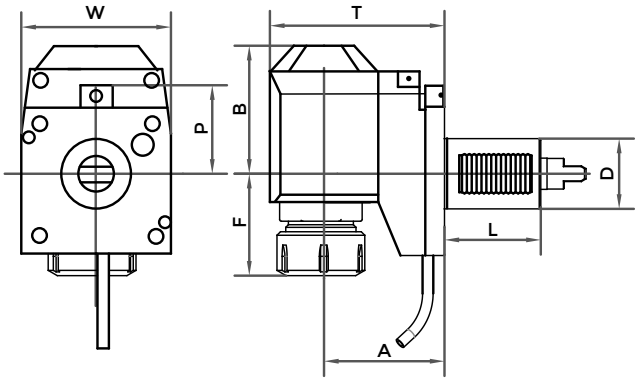
COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	P	T	W	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-54072	30	ER25	YES	DX	55	61	65	45	48	29	64	28	6000	1:1	80
116-43026	30	ER25	NO	DX	55	48	63	45	48	29	64	28	6000	1:1	-
116-43027	30	ER25	YES	DX	55	51	63	45	48	29	64	28	6000	1:1	20
116-54070	30	ER25	NO	SX	85	48	65	45	48	29	64	28	6000	1:1	-
116-54071	30	ER25	YES	SX	85	48	65	45	48	29	64	28	6000	1:1	20
116-44049	40	ER25	YES	DX	80	62	70	53	71	36	75	50	6000	1:1	20
116-44050	40	ER32	NO	DX	80	59	74	53	71	36	75	50	6000	1:1	-
116-44051	40	ER32	YES	DX	80	62	74	53	71	36	75	50	6000	1:1	20
116-45059	50	ER32	YES	SX	110	64	117,1	71	83	42	88	80	6000	1:1	20
116-45033	50	ER40	NO	SX	110	64	119,1	71	83	42	88	80	6000	1:1	20
116-45034	50	ER40	YES	DX	110	64	119,1	71	83	42	88	80	6000	1:1	20
116-45035	50	ER40	YES	SX	110	64	119,1	71	83	42	88	80	6000	1:1	20

* left version on enquiry

ON REQUES AVAILABLE INTERNAL COOLANT 80 BAR

OFFSET RADIAL DRILLING AND MILLING HEAD





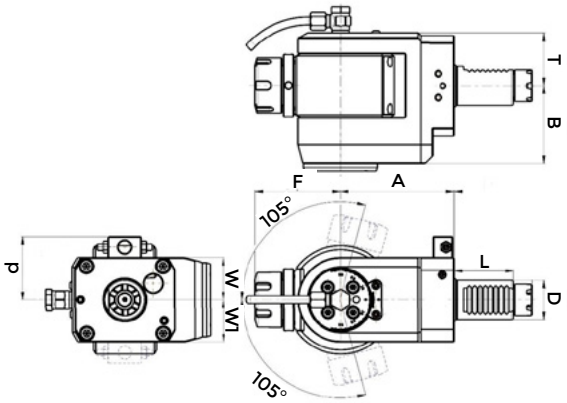
TOEM BARUFFALDI

COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	P	T	W	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-43029	30	ER25	NO	DX	75	71	40	45	48	104	64	28	6000	1:1	-
116-43030	30	ER25	YES	DX	75	74	40	45	48	104	64	28	6000	1:1	20
116-46012	40	ER25	YES	DX	120	95	37	53	71	156	75	50	6000	1:1	20
116-46013	40	ER32	NO	DX	120	92	41	53	71	156	75	50	6000	1:1	-
116-46014	40	ER32	YES	DX	120	95	41	53	71	156	75	50	6000	1:1	20

ON REQUES AVAILABLE INTERNAL COOLANT 80 BAR

AXIAL - RADIAL DRILLING AND MILLING HEAD

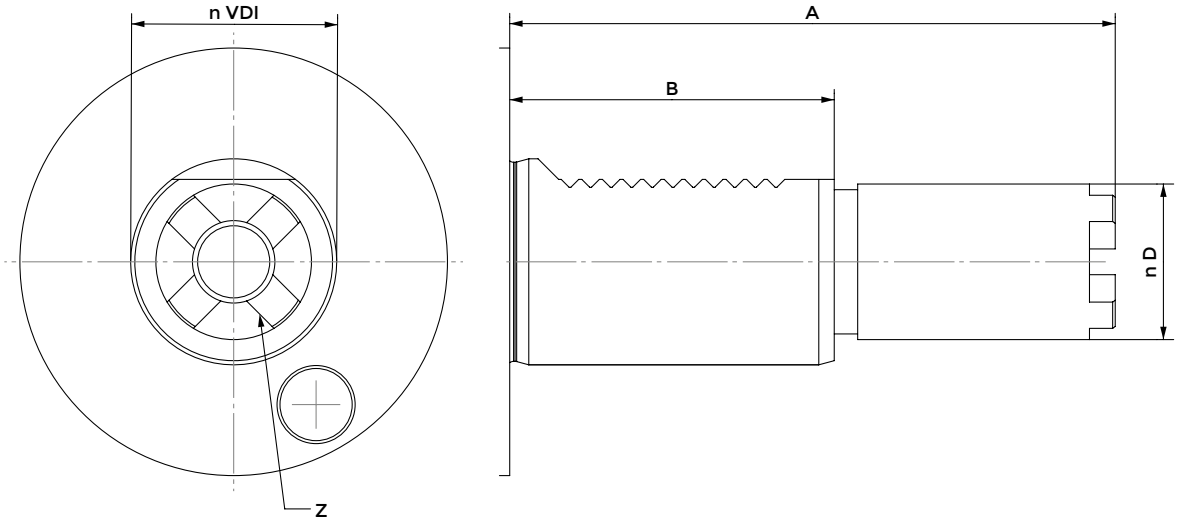




TOEM BARUFFALDI

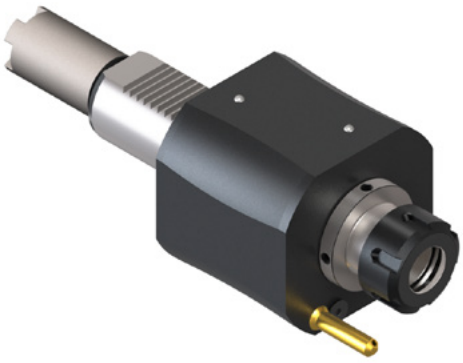
COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	P	T	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-54086	30	ER25	NO	DX	79	59	65	45	48	40	39	39	16	6000	1:1	-
116-54130	40	ER25	NO	SX	79	59	65	53	71	40	39	39	16	6000	1:1	-
116-54131	40	ER25	YES	SX	86	59	65	53	71	40	39	39	16	6000	1:1	20

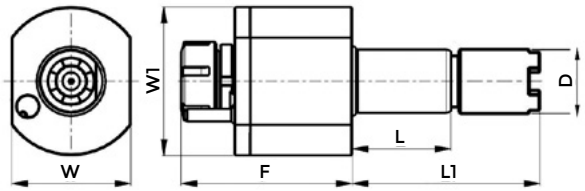
HAAS



VDI	A	B	D	Z	TIPO
40	104.85	63	30,2	4	1
40	117,55	63	30,2	4	2
40	130,25	63	30,2	4	3

AXIAL DRILLING AND MILLING HEAD

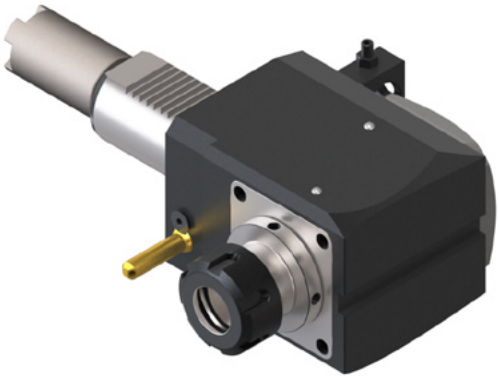


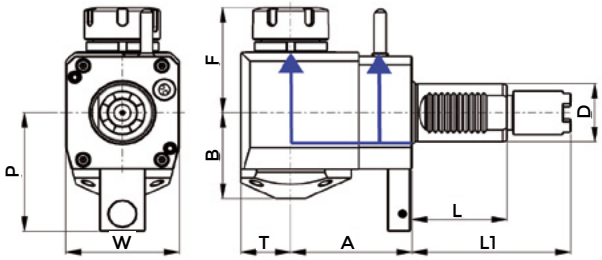


STEPPED - HAAS

COD.	D	ER	INTERNAL COOLING	F	L	L1	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-44060	40	ER25	NO	105	63	117,55	80	86	50	6000	1:1	-
116-44058	40	ER32	NO	108	63	104,85	80	86	50	6000	1:1	-
116-44059	40	ER32	YES	108	63	104,85	80	86	50	6000	1:1	20
116-44062	40	ER32	NO	108	63	117,55	80	86	50	6000	1:1	-
116-44063	40	ER32	YES	108	63	117,55	80	86	50	6000	1:1	20
116-44066	40	ER32	NO	108	63	130,25	80	86	50	6000	1:1	-

RADIAL DRILLING AND MILLING HEAD





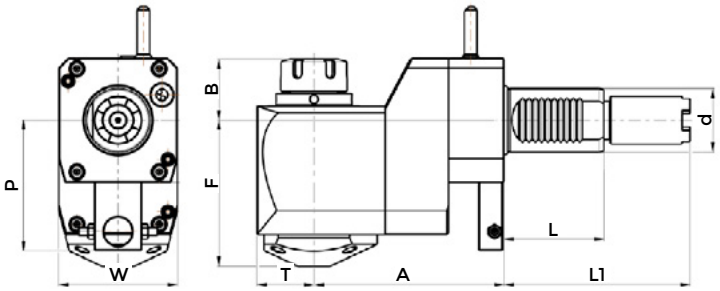
STEPPED - HAAS

COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	L1	P	T	W	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-44073	40	ER25	YES	SX	80	62	70	63	117,55	82	36	75	50	6000	1:1	20
116-54105	40	ER32	YES	SX	80	59	91	63	130,25	82	36	75	50	6000	1:1	20
116-47003	40	ER32	NO	SX	69	59	74	63	104,85	82	36	75	50	6000	1:1	-
116-54101	40	ER32	NO	SX	69	56	91	63	117,55	82	36	75	50	6000	1:1	-
116-47004	40	ER32	YES	SX	69	62	74	63	104,85	82	36	75	50	6000	1:1	20
116-47007	40	ER32	NO	SX	69	59	74	63	117,55	82	36	75	50	6000	1:1	-
116-47008	40	ER32	YES	SX	69	62	74	63	117,55	82	36	75	50	6000	1:1	20
116-44074	40	ER32	NO	SX	80	59	74	63	117,55	82	36	75	50	6000	1:1	-
116-44075	40	ER32	YES	SX	80	62	74	63	117,55	82	36	75	50	6000	1:1	20
116-44078	40	ER32	NO	SX	80	59	74	63	130,25	82	36	75	50	6000	1:1	-

ON REQUES AVAILABLE INTERNAL COOLANT 80 BAR

OFFSET RADIAL DRILLING AND MILLING HEAD

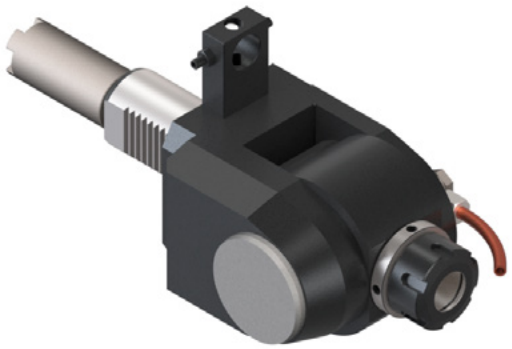


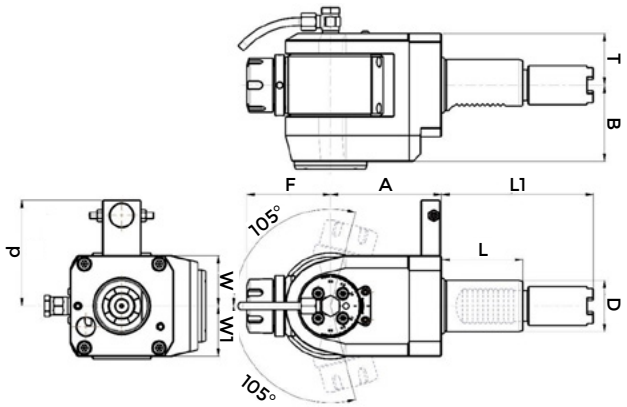


STEPPED - HAAS

COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	L1	P	T	W	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-54110	40	ER32	NO	SX	120	92	42	63	117,55	82	36	75	50	6000	1:1	-
116-54113	40	ER32	YES	SX	120	95	42	63	117,55	82	36	75	50	6000	1:1	20

AXIAL - RADIAL DRILLING AND MILLING HEAD



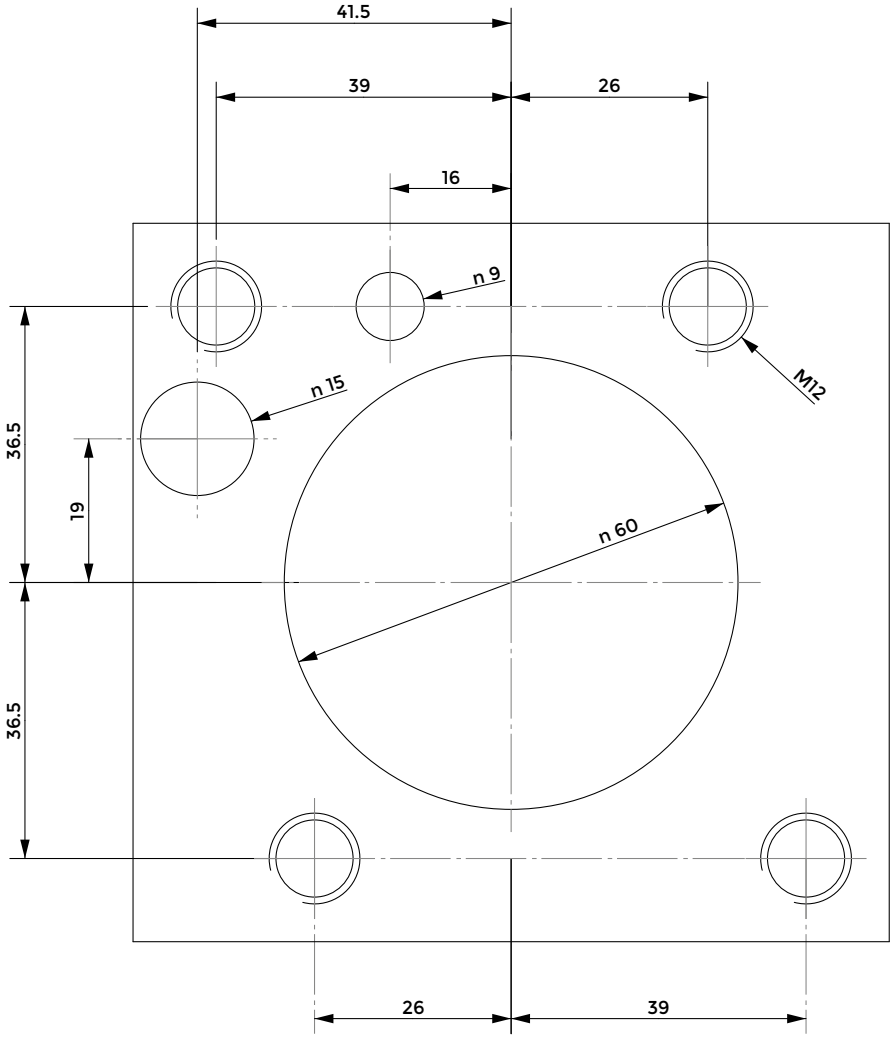


STEPPED - HAAS

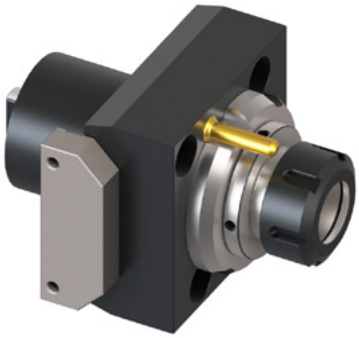
COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	L1	P	T	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
124-04009	40	ER25	YES	SX	86	59	65	63	130,25	82	40	39	39	16	6000	1:1	20

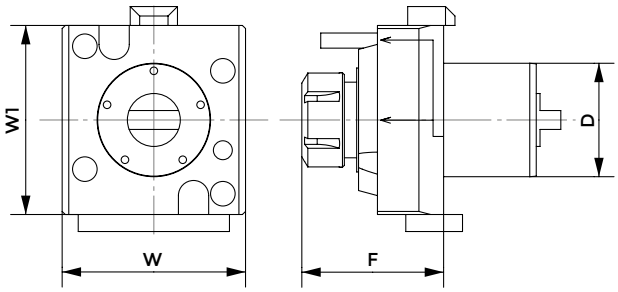
OKUMA - BMT60 – LB2000 EX (M) - LB2500 EX (M) - LB3000 EX (M,MY) - LT2000 EX - LT3000 EX LB3000 EX (MW,MYW) - LU2000 EX - LU2500 EX - LU3000 EX (M,MW,MY) - GENOS L300 (MY,MW,MYW)

CONNECTION TURRET BMT60



AXIAL DRILLING AND MILLING HEAD

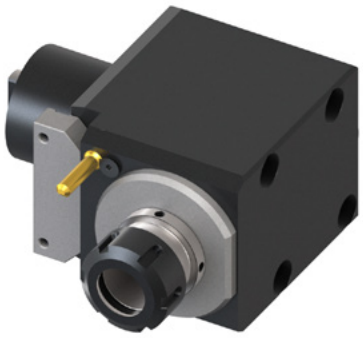


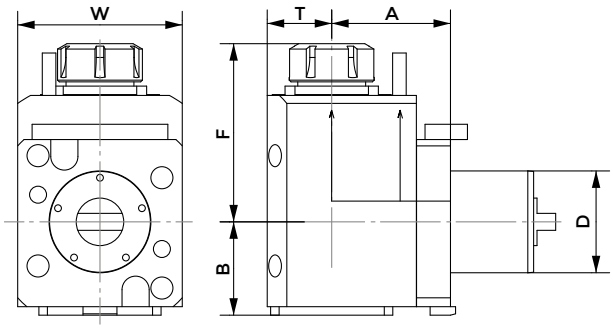


OKUMA BMT60

COD.	D	ER	INTERNAL COOLING	A	B	F	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
124-06005	60	ER32	NO	87	97	100	70	6000	1:1	-
124-06006	60	ER32	YES	87	97	100	70	6000	1:1	20

RADIAL DRILLING AND MILLING HEAD

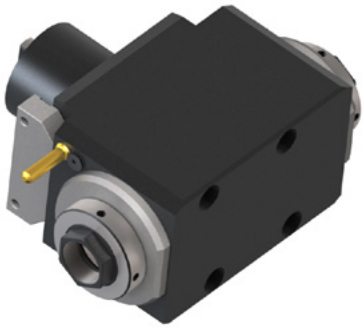


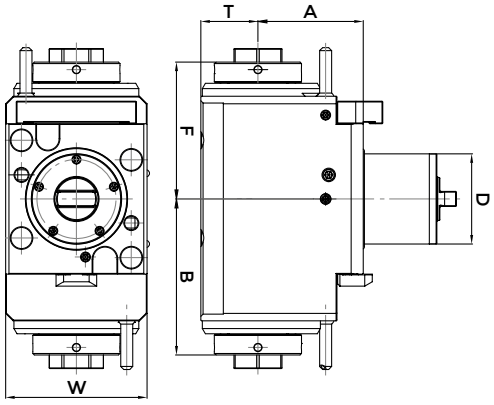


OKUMA BMT60

COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	T	W	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
124-06007	60	ER32	NO	DX/SX	70	59	111	38	94	70	6000	1:1	-
124-06008	60	ER32	YES	DX/SX	70	59	111	38	94	70	6000	1:1	20

DOUBLE RADIAL DRILLING AND MILLING HEAD WITH INTERNAL NUT



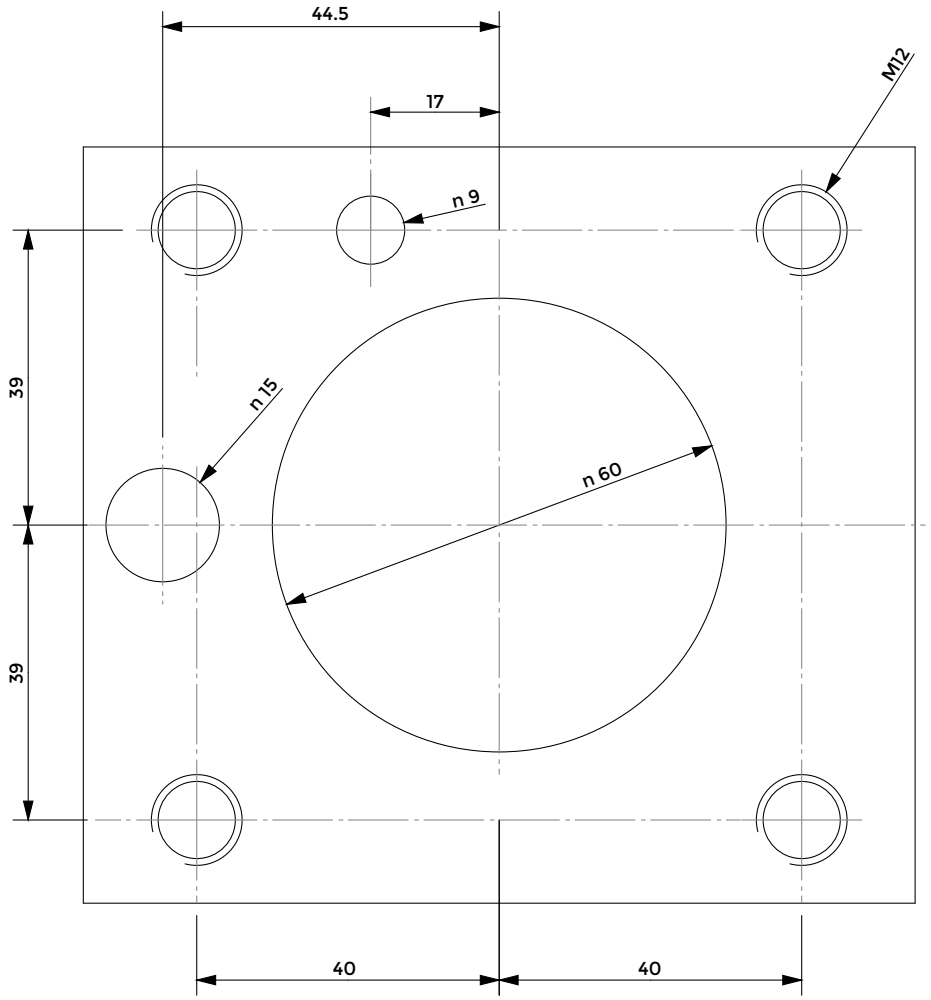


DOUBLE OKUMA BMT60

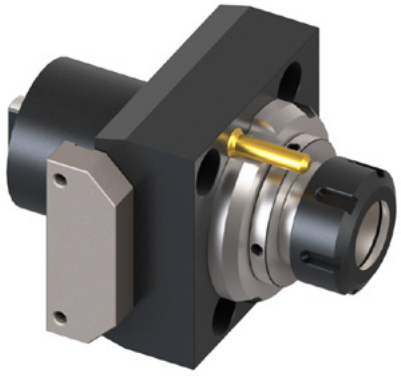
COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	T	W	L	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
124-06602	60	32	YES	DX/SX	70	103.8	91	38	94	49	70	6000	1:1	20

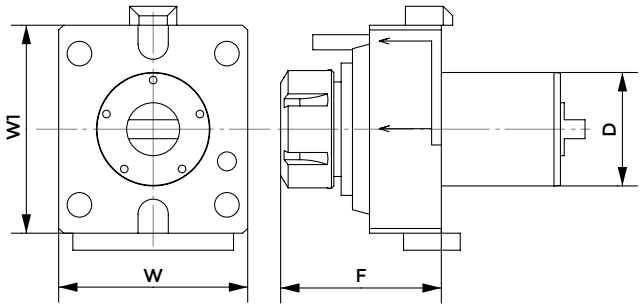
OKUMA - BMT60 - LB4000 EX (M)

CONNECTION TURRET OKUMA BMT60



AXIAL DRILLING AND MILLING HEAD

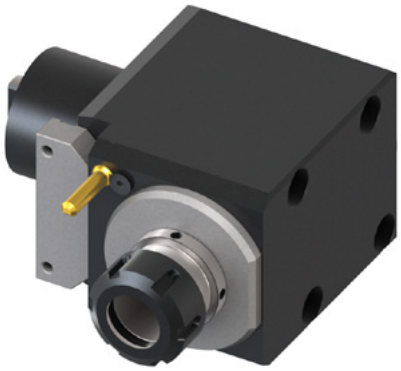


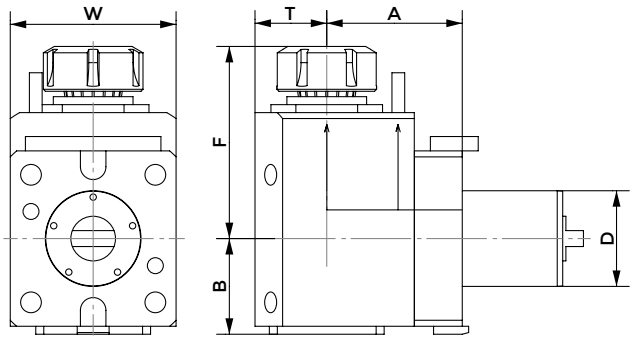


OKUMA BMT60

COD.	D	ER	INTERNAL COOLING	A	B	F	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
124-06009	60	ER40	NO	82	100	110	80	6000	1:1	-
124-06010	60	ER40	YES	82	100	110	80	6000	1:1	20

RADIAL DRILLING AND MILLING HEAD



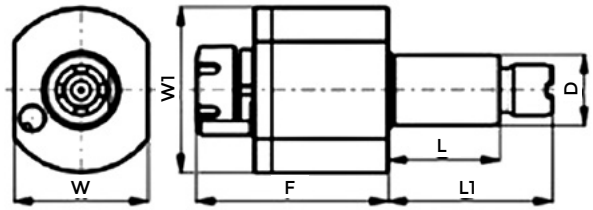


OKUMA BMT60

COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	T	W	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
124-06011	60	ER40	NO	DX/SX	85	64	121	44	100	80	6000	1:1	-
124-06012	60	ER40	YES	DX/SX	85	64	121	44	100	80	6000	1:1	20
124-06014	60	ER40	YES	DX/SX	85	64	121	44	100	80	6000	1:1	80

AXIAL DRILLING AND MILLING HEAD

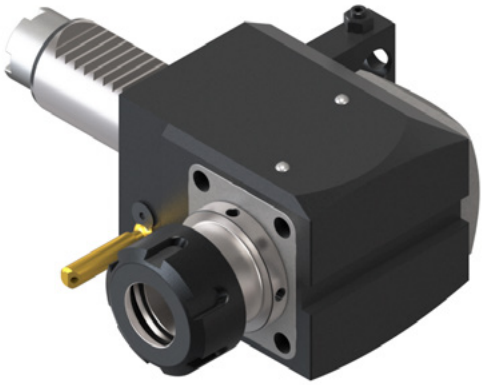


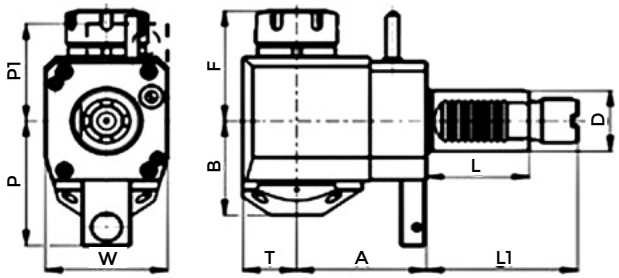


STEPPED - OKUMA

COD.	D	ER	INTERNAL COOLING	F	L	L1	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-54066	30	ER25	YES	88,5	55	69	67	67	28	6000	1:1	80
116-43031	30	ER25	NO	87	55	69	64	68	28	6000	1:1	-
116-43032	30	ER25	YES	87	55	69	64	68	28	6000	1:1	20
116-44098	40	ER25	NO	105	63	93	80	86	50	6000	1:1	-
116-54090	40	ER32	YES	93,5	63	93	79	79	50	6000	1:1	80
116-54001	40	ER32	NO	108	63	93	80	86	50	6000	1:1	-
116-54002	40	ER32	YES	108	63	93	80	86	50	6000	1:1	20
116-54005	40	ER32	NO	108	63	101	80	86	50	6000	1:1	-
116-54006	40	ER32	YES	108	63	101	80	86	50	6000	1:1	20
116-54119	50	ER32	YES	114	71	106	88	88	80	6000	1:1	80
116-54120	50	ER40	NO	116	71	106	88	88	80	6000	1:1	-

RADIAL DRILLING AND MILLING HEAD





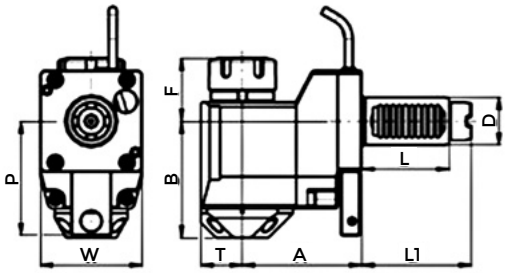
STEPPED - OKUMA

COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	L1	P	T	W	P Bar
116-43033	30	ER25	NO	DX	85	48	63	55	69	-	29	64	-
116-43033L	30	ER25	NO	SX	85	48	63	55	69	-	29	64	-
116-43035	30	ER25	NO	SX	55	48	63	55	69	72	29	64	-
116-43036	30	ER25	YES	SX	55	51	63	55	69	72	29	64	20
116-54007	40	ER25	NO	SX	80	59	70	63	93	82	36	75	-
116-54009	40	ER32	NO	SX	80	59	74	63	93	82	36	75	-
116-54010	40	ER32	YES	SX	80	62	74	63	93	82	36	75	20
116-54014	40	ER32	YES	SX	80	62	74	63	101	82	36	75	20
116-54017	40	ER32	NO	DX	80	59	74	63	93	-	36	75	-
116-54018	40	ER32	YES	DX	80	62	74	63	93	-	36	75	20
116-54104	40	ER32	YES	SX	67	62	91	63	93	82	36	75	20
116-54106	40	ER32	YES	SX	80	62	91	63	93	82	36	75	20
116-54103	40	ER32	NO	SX	80	59	75	63	101	82	36	75	-
116-54127	50	ER32	YES	SX	110	64	117	71	106	102	42	88	20
116-54128	50	ER40	NO	SX	110	64	119	71	106	102	42	88	-
116-54129	50	ER40	YES	SX	110	64	119	71	106	102	42	88	20

ON REQUES AVAILABLE INTERNAL COOLANT 80 BAR

OFFSET RADIAL DRILLING AND MILLING HEAD





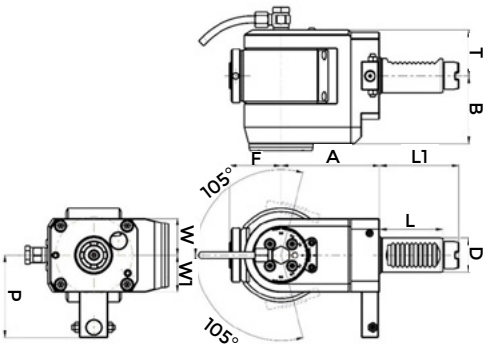
STEPPED - OKUMA

COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	L1	P	T	W	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-48002	40	ER25	YES	SX	120	95	37	63	104,85	82	36	75	50	6000	1:1	20
116-48004	40	ER32	YES	SX	120	95	41	63	104,85	82	36	75	50	6000	1:1	20

ON REQUES AVAILABLE INTERNAL COOLANT 80 BAR

AXIAL - RADIAL DRILLING AND MILLING HEAD



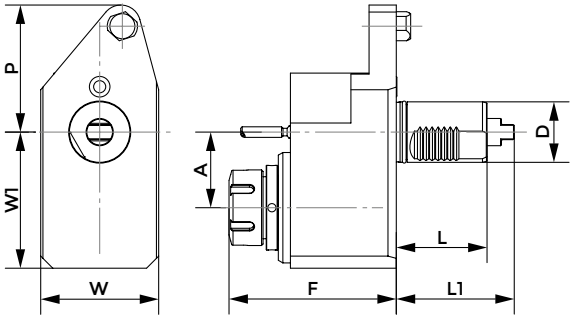


STEPPED - OKUMA

COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	P	T	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-54087	30	ER16	NO	SX	86	59	45	55	72	40	32	32	16	6000	1:1	-
116-54115	40	ER25	NO	SX	86	59	65	63	-	40	39	39	16	6000	1:1	-

AXIAL DRILLING AND MILLING HEAD



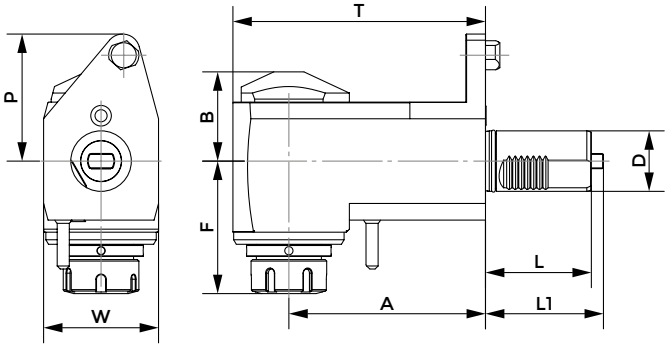


MAZAK

COD.	D	ER	INTERNAL COOLING	F	A	L	L1	P	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-54053	40	ER32	NO	110,6	50	60	61	84	78	90	50	6000	1:1	-

RADIAL DRILLING AND MILLING HEAD



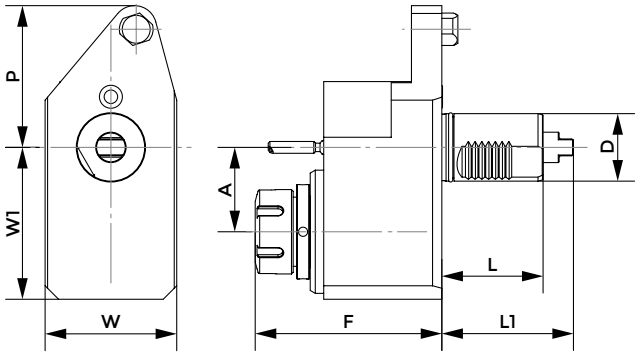


MAZAK

COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	L1	P	T	W	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-54049	40	ER32	NO	DX	100	59	87,6	60	61	79	137	76	50	6000	1:1	-

AXIAL DRILLING AND MILLING HEAD



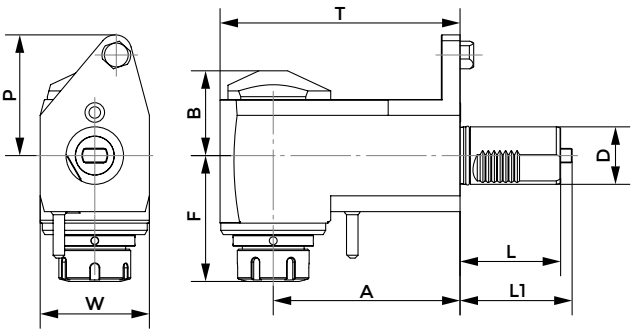


MAZAK

COD.	D	ER	INTERNAL COOLING	F	A	L	L1	P	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-54019	40	ER32	NO	110,6	50	60	78	84	78	90	50	6000	1:1	-
116-54044	40	ER32	YES	110,6	50	60	78	84	78	90	50	6000	1:1	20

RADIAL DRILLING AND MILLING HEAD



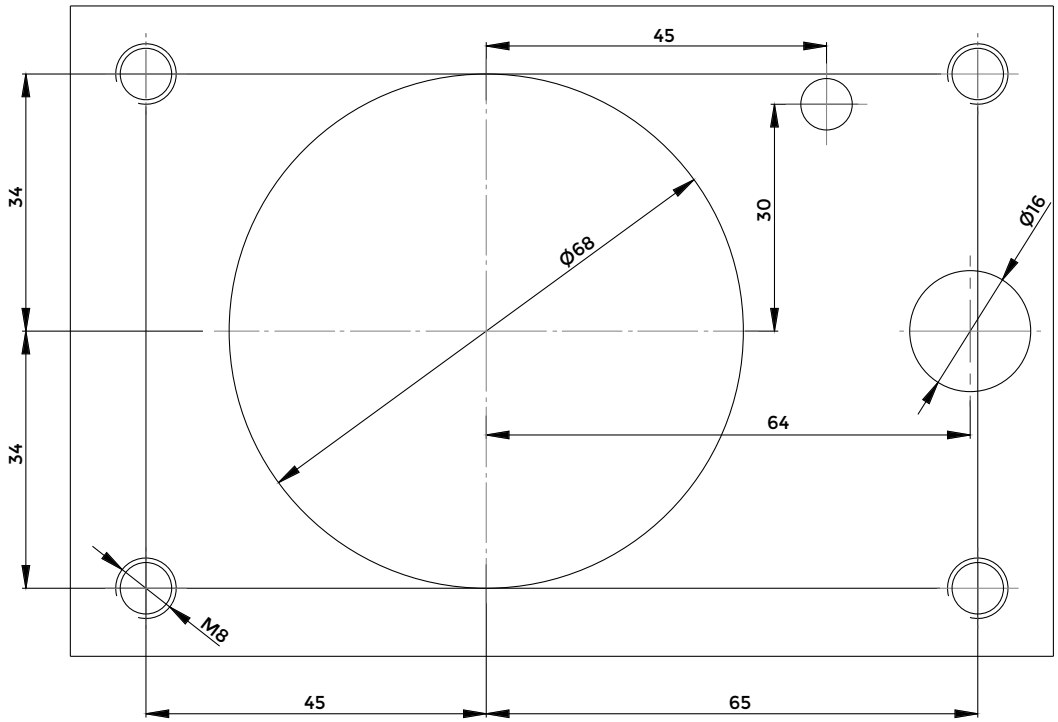


MAZAK

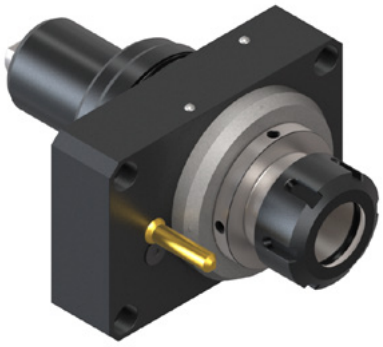
COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	L	L1	P	T	W	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-54020	40	ER32	NO	DX	130	62	87,6	70	78	84	167	76	50	6000	1:1	-
116-54040	40	ER32	NO	SX	130	62	87,6	70	78	84	167	76	50	6000	1:1	-
116-54041	40	ER32	YES	DX	130	62	87,6	70	78	84	167	76	50	6000	1:1	20
116-54093	40	ER32	YES	DX	100	62	87,6	60	61	68	137	76	50	6000	1:1	20
116-54095	40	ER32	YES	SX	100	62	87,6	60	61	68	137	76	50	6000	1:1	-
116-54096	40	ER32	YES	DX	100	62	87,6	60	61	68	137	76	50	6000	1:1	80

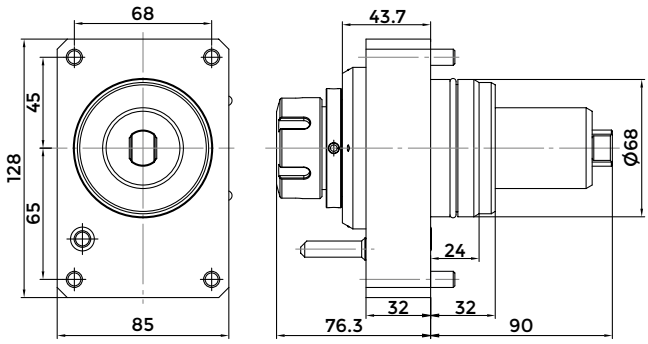
MAZAK BMT68 – QTC/QTU 100-350 M/MY/MS/MSY - QT/QTS 100-250 M/MY/MS/MSY
QT 200-250 M/MY/MS/MSY (16D)

CONNECTION TURRET MAZAK BMT68



AXIAL DRILLING AND MILLING HEAD



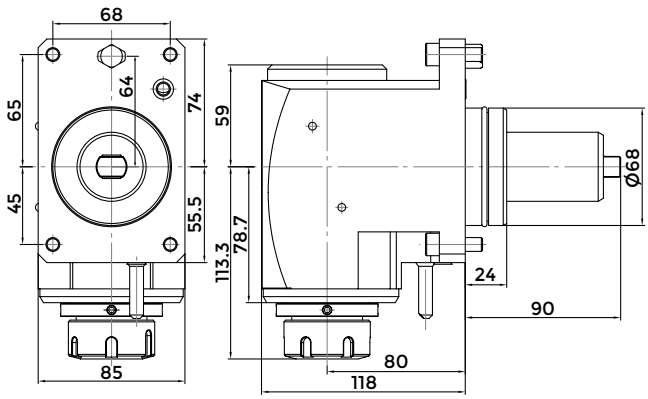


MAZAK BMT68

COD.	ER	MAX SPEED (Rpm)	RATIO	MAX TORQUE (Nm)	INTERNAL COOLING	P Bar
124-06805	ER32	12000	1:1	70	NO	-
124-06806	ER32	12000	1:1	70	YES	20

RADIAL DRILLING AND MILLING HEAD



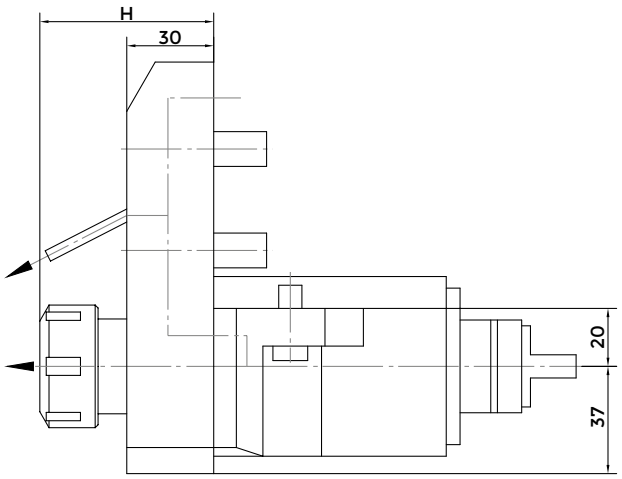


MAZAK BMT68

COD.	ER	MAX SPEED (Rpm)	RATIO	MAX TORQUE (Nm)	INTERNAL COOLING	P Bar
124-06807	ER32	6000	1:1	70	NO	-
124-06808	ER32	6000	1:1	70	YES	20
124-06809	ER32	6000	1:1	70	YES	80

DMG MORI SEIKI / CMZ - CL 200/203 - SL 20/25 - SL 203/204/250/253 - SL 254 (MC,SMC)/2500Y SL 203MC - SL 253MC - ZL 200MC - ZL 250SMC - SL 204SMC - SL 300MC - TBI 520 - TL 20/25 - TC 15/20/25/30/35 TA 15M/Y/MS/MY/YS - TA 20M/Y/MS/MY/YS - TA 25M/Y/MS/MY/YS - TA 30M/Y/MS/MY/YS - TD 15/20/25/30/35/45 TD 55M/Y/MS/MY/YS

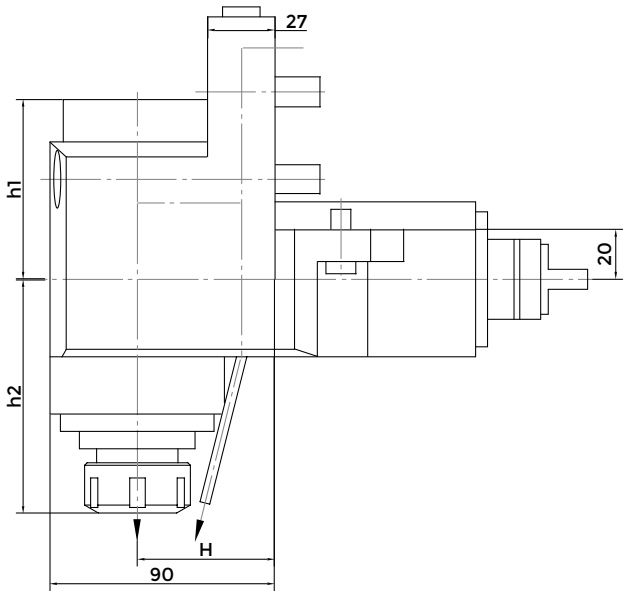
AXIAL DRILLING AND MILLING HEAD



DMG MORI SEIKI CMZ

COD.	ER	H	MAX SPEED (Rpm)	RATIO	MAX TORQUE (Nm)	INTERNAL COOLING	P Bar
124-00001	ER32	55.5-60	6000	1:1	70	NO	-
124-00002	ER32	55.5-60	6000	1:1	70	YES	80

RADIAL DRILLING AND MILLING HEAD

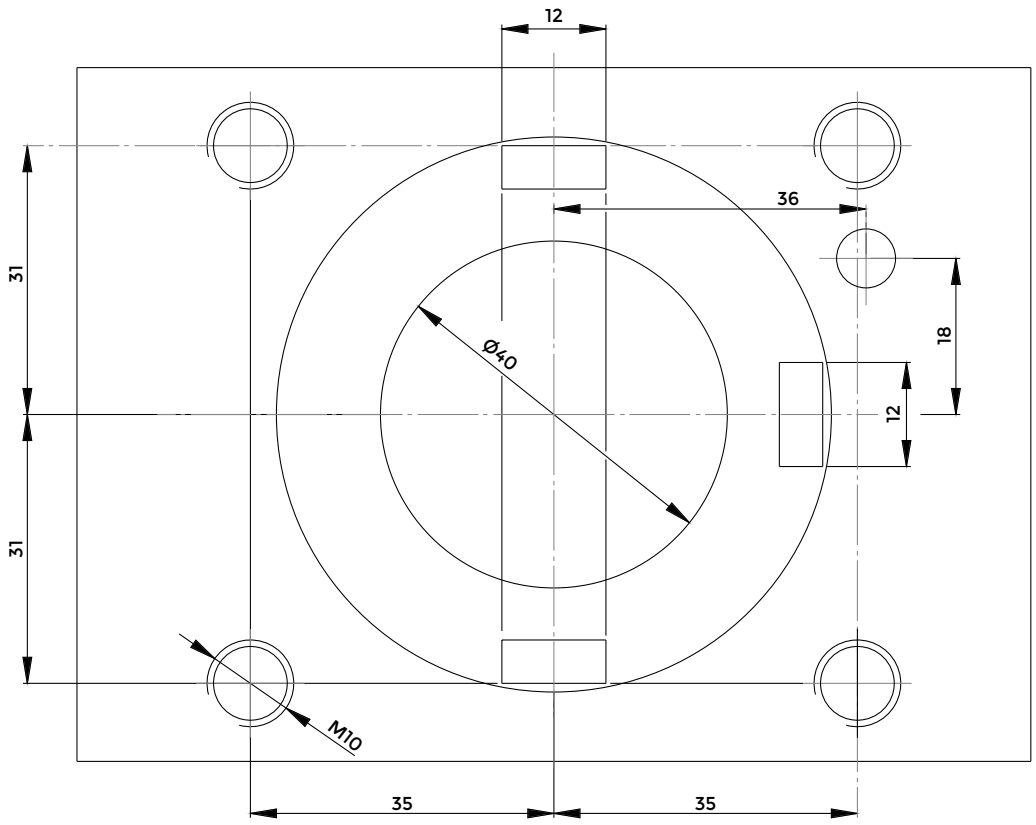


DMG MORI SEIKI CMZ

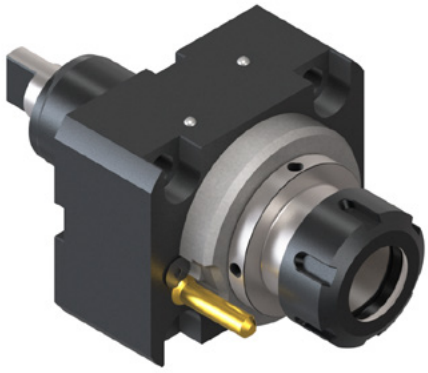
COD.	ER	H	h1	h2	MAX SPEED (Rpm)	RATIO	MAX TORQUE (Nm)	INTERNAL COOLING	P Bar
124-00003	ER32	55	57	89-93.5	6000	1:1	70	NO	-
124-00004	ER32	55	72	89-93.5	6000	1:1	70	YES	80

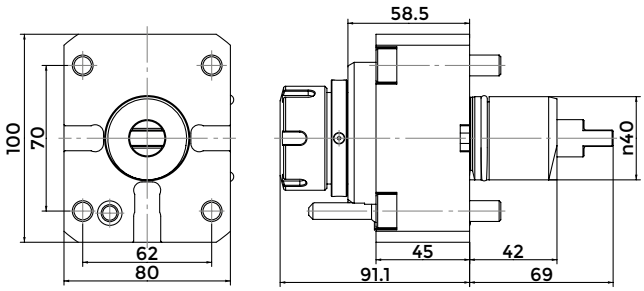
DMG MORI SEIKI BMT40 - NZ 1500/2000/3100 - NZ/NTZ 1000/2000/3000/3100/3150/3200
NZ/NZX 2000/2500 (16 station turret) - NL/NLX 1500/2000/2500 (20 station turret) - DURATURN 2050/2550 MC
LTX310ECO-BMT

CONNECTION TURRET DMG MORI SEIKI BMT40



AXIAL DRILLING AND MILLING HEAD

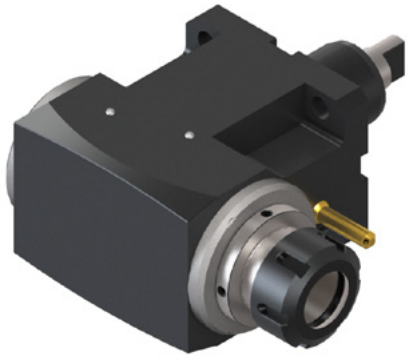


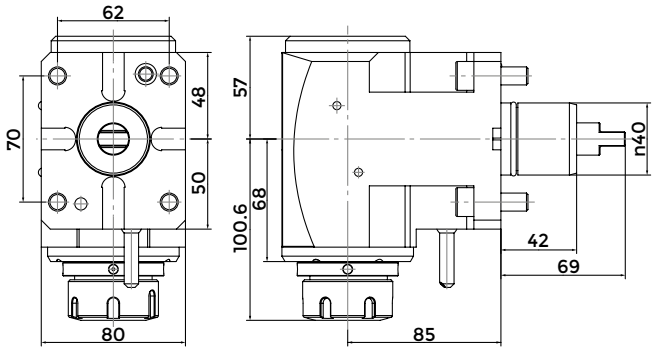


DMG MORI BMT40

COD.	ER	MAX SPEED (Rpm)	RATIO	MAX TORQUE (Nm)	INTERNAL COOLING	P Bar
124-04005	ER32	12000	1:1	50	NO	-
124-04006	ER32	12000	1:1	50	YES	20

RADIAL DRILLING AND MILLING HEAD



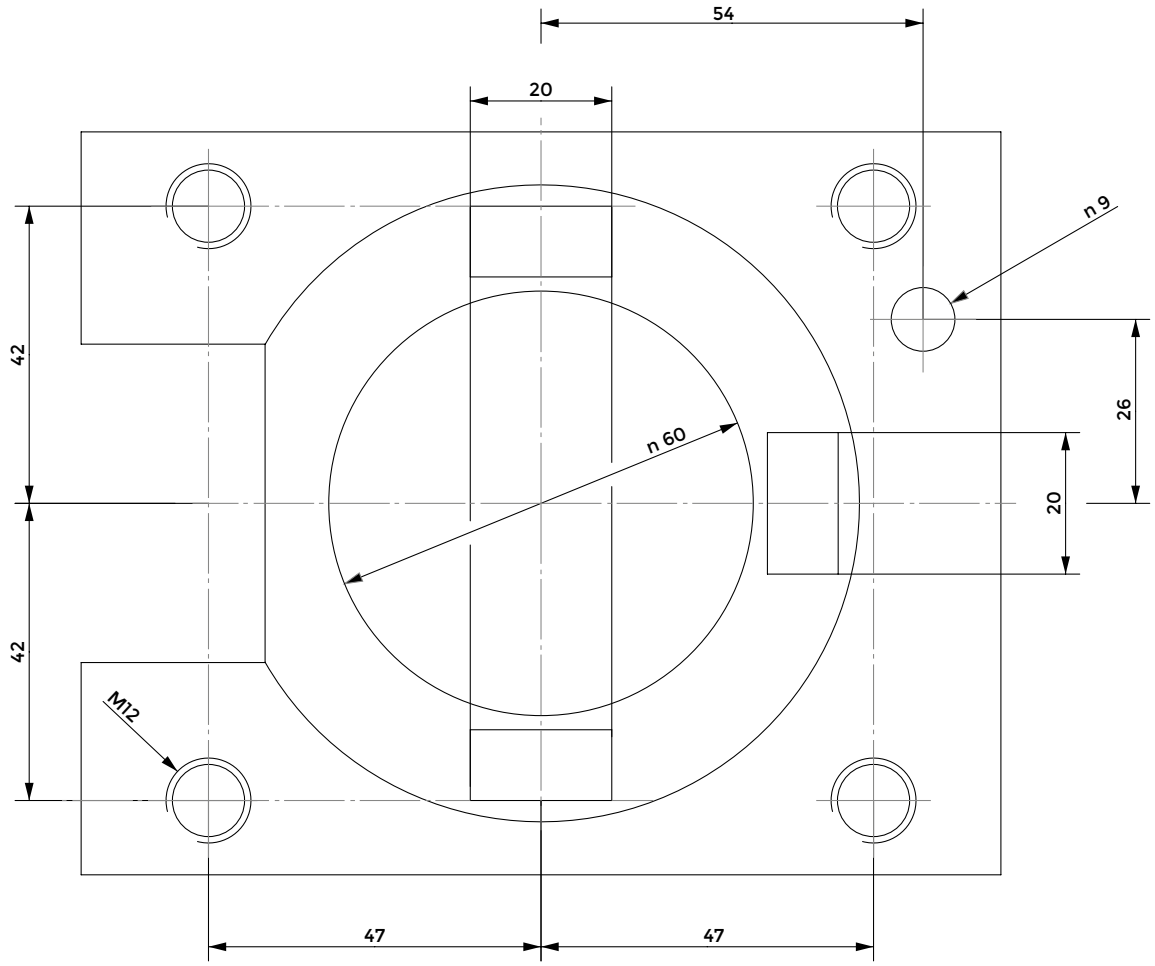


DMG MORI BMT40

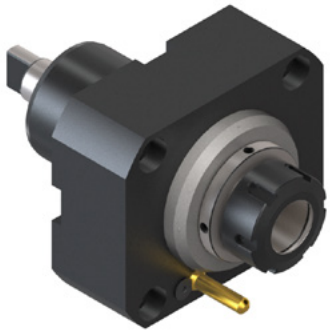
COD.	ER	MAX SPEED (Rpm)	RATIO	MAX TORQUE (Nm)	INTERNAL COOLING	P Bar
124-04007	ER32	6000	1:1	50	NO	-
124-04008	ER32	6000	1:1	50	YES	20

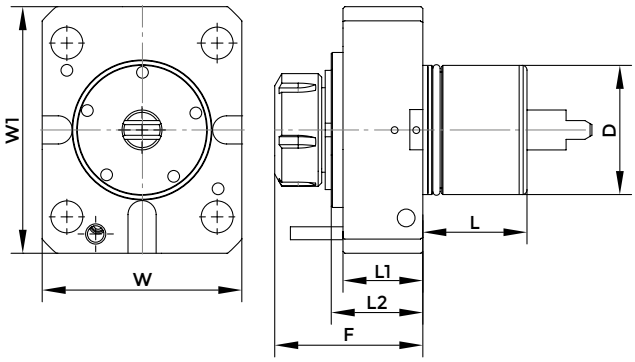
MORI SEIKI SEIKI BMT60 - DURATURN 2050/25550MC (16 stazioni) - NLX1500 (12 stazioni) - NLX2000 NLX2500 - NLX3000 - NLX4000 - NL2000 (S)MC - 2500 (S)MC - NL3000MC (12 stazioni) - NRX2000MC (10 stazioni) NT3100 - NT3200 -NT3250 - NT4200 - NT4250 - NT4300 - NT5400 - NZL2500 - NT4000 - NT5000 - NZL 2000/2500 NZX 2500 (station turret) - NTX 1000/2000/2500/3000 - 2ND GEN. 10 ST. - (TX2500 BMT60) - TAKISAWA TM-2000 Y2

CONNECTION TURRET MORI SEIKI BMT60



AXIAL DRILLING AND MILLING HEAD



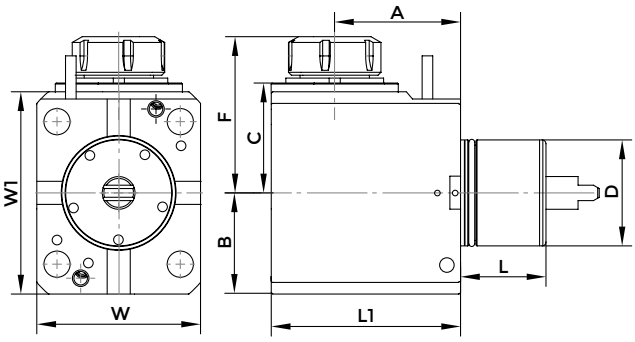


MORI SEIKI BMT60

COD.	ER	D	F	L	L1	L2	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	INTERNAL COOLING	P Bar
124-06001	ER32	60	89	53	48,5	58	108	130	70	6000	1:1	NO	-
124-06003	ER32	60	89	53	48,5	58	108	130	70	6000	1:1	YES	20

RADIAL DRILLING AND MILLING HEAD



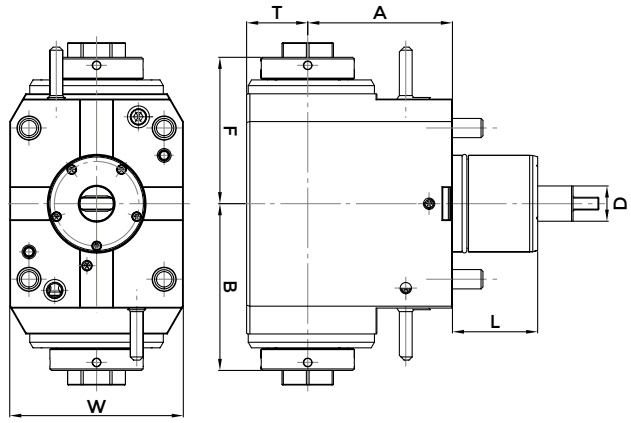


MORI SEIKI BMT60

COD.	ER	D	F	L	L1	A	B	C	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	INTERNAL COOLING	P Bar
124-06002	ER32	60	107	53	128	90	65	78	108	130	70	6000	1:1	NO	-
124-06004	ER32	60	107	53	128	90	65	78	108	130	70	6000	1:1	YES	20

DOUBLE RADIAL DRILLING AND MILLING HEAD WITH INTERNAL NUT



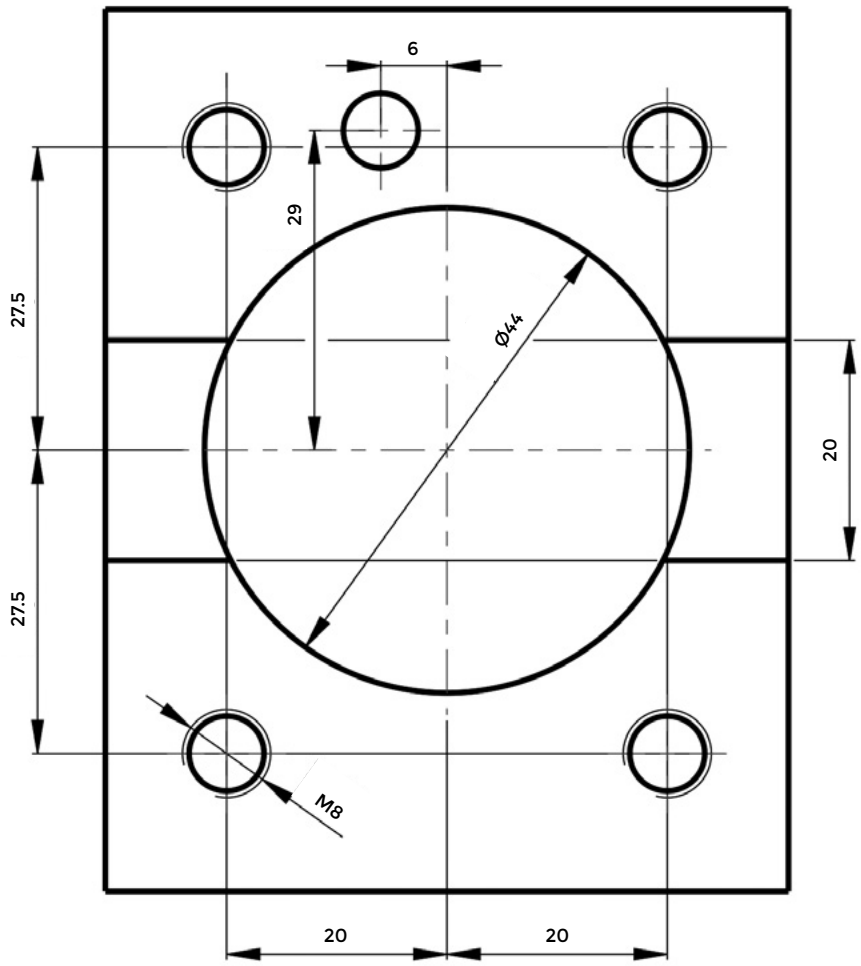


DOUBLE MORI SEIKI

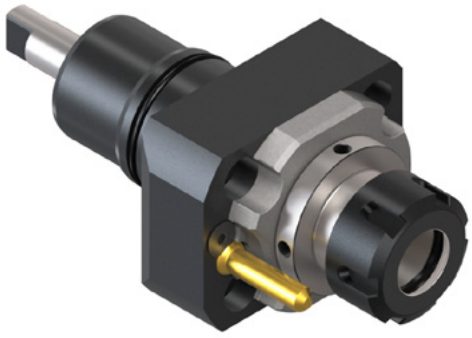
COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	T	W	L	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
124-06603	60	32	NO	DX/SX	90	103.8	91	38	108	53	70	6000	1:1	-

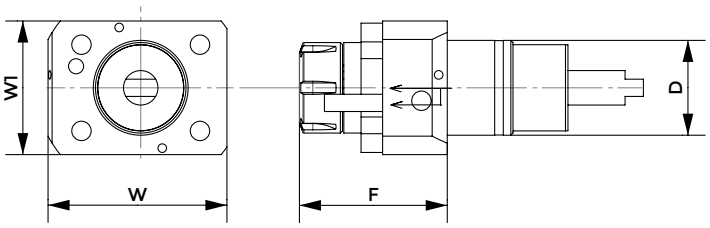
NAKAMURA - TOME - BMT44 - NTY3/SUPER - NTMX/NTMXL - WT100 - MURATA MURATEC MT100 WY-100II - NTJ100

CONNECTION TURRET NAKAMURA - TOME - BMT44



AXIAL DRILLING AND MILLING HEAD

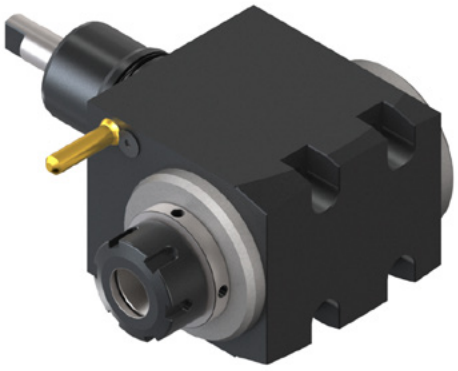


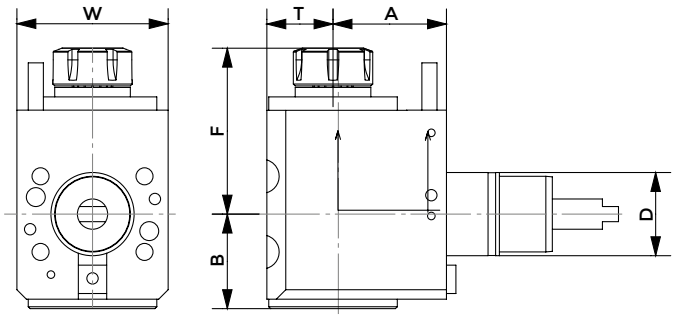


NAKAMURA - TOME

COD.	D	ER	INTERNAL COOLING	F	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
124-04402	44	ER25	YES	68.6	83	62	40	6000	1:1	20

RADIAL DRILLING AND MILLING HEAD



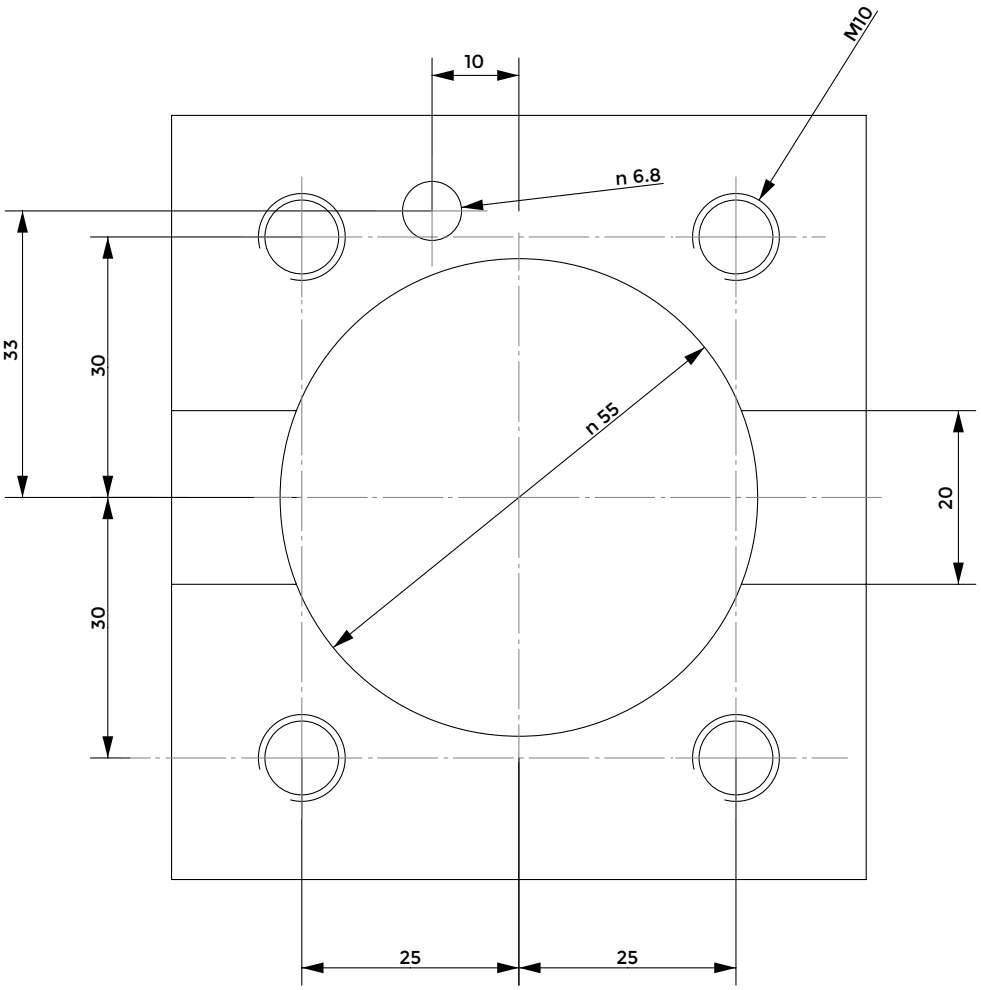


NAKAMURA - TOME

COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	T	W	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
124-04403	44	ER25	NO	DX/SX	60	50,3	87,8	35	80	28	6000	1:1	-
124-04404	44	ER25	YES	DX/SX	60	50,3	87,8	35	80	28	6000	1:1	20
124-04405	44	ER25	NO	DX/SX	75	50	89	35	78	28	6000	1:1	-
124-04406	44	ER25	YES	DX/SX	75	50	89	35	78	28	6000	1:1	80

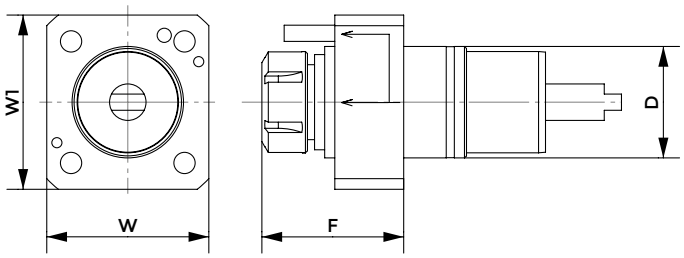
NAKAMURA - TOME - BMT55 - AS-200 /NTM 3 / NTY3-250 - SC-150M - SC-200MY - SC-250M
SuperNTJ - TMC-20 II M/ML - TW-10 - TW-20 - WT-20 II M/MY - WT150/200 - WT-250 - WTS-150 - WTW-150/160
WT200 II (M,MY) - WY-250
CMZ - TX52/66 - SUPER NTJ/NTM3 - SC150/250 - TX52 Y3-Y2 QUATTRO-Y2 TW IN - TX66 Y3-Y2 QUATTRO-Y2 TW IN
TTL52 - TTL66 - TA15-20-25-30M/Y/MS/MY/YS 15ST

CONNECTION TURRET NAKAMURA - TOME - BMT55



AXIAL DRILLING AND MILLING HEAD



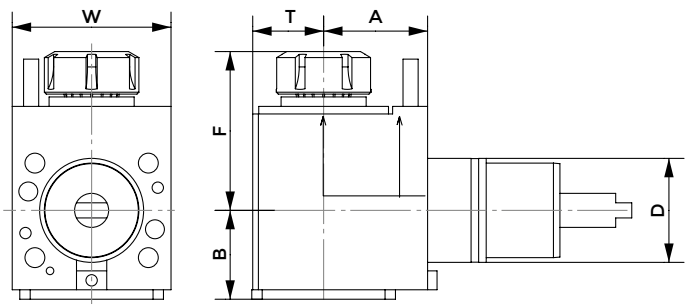


NAKAMURA - TOME

COD.	D	ER	INTERNAL COOLING	F	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
124-05507	55	ER25	NO	78	80	86	50	6000	1:1	-
124-05508	55	ER25	YES	78	80	86	50	6000	1:1	20
124-05529	55	ER32	NO	78	80	86	50	6000	1:1	-

RADIAL DRILLING AND MILLING HEAD



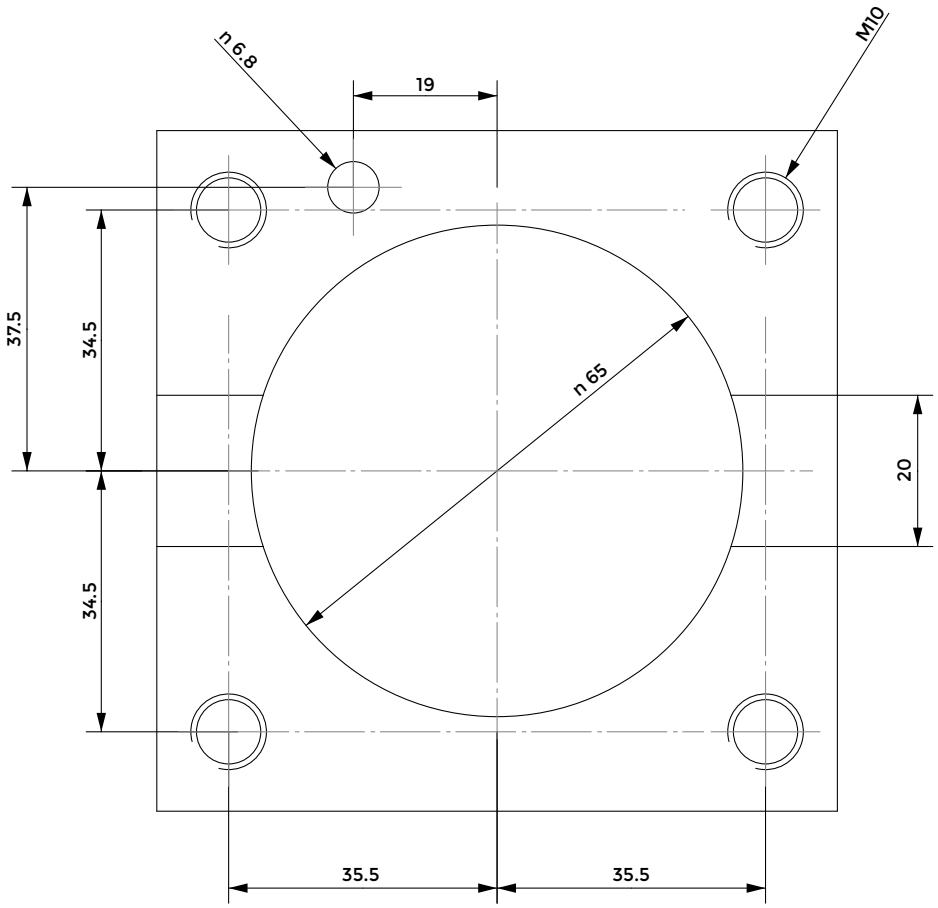


NAKAMURA - TOME

COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	T	W	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
124-05509	55	ER25	NO	DX/SX	55	50,3	74,8	35	84	28	6000	1:1	-
124-05510	55	ER25	YES	DX/SX	55	50,3	74,8	35	84	28	6000	1:1	20
124-05517	55	ER25	YES	DX/SX	55	50,3	74,8	35	84	28	6000	1:1	80

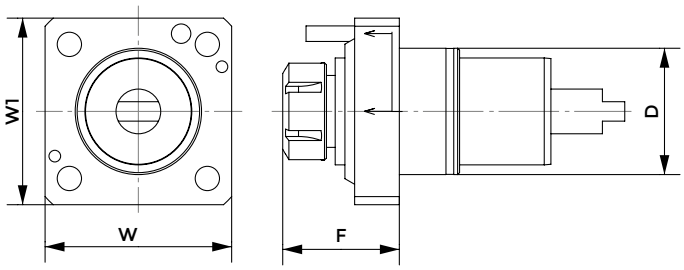
NAKAMURA - TOME - BMT65 – WT300 - SC300 - TW20 - TMC-200M - TMC-300M - SUPER NTX
TW20M /MY/MM/MMY/MMYY (12 stations) - TW30M/MY/MM/MMY/MMYY (16 stations)

CONNECTION TURRET NAKAMURA - TOME - BMT65



AXIAL DRILLING AND MILLING HEAD

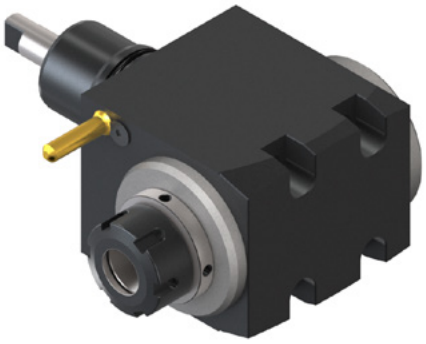


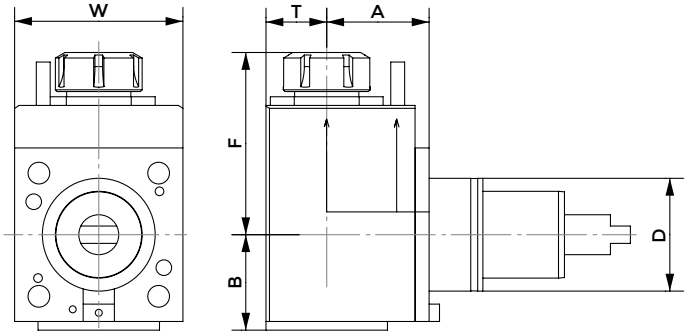


NAKAMURA - TOME

COD.	D	ER	INTERNAL COOLING	F	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
124-06504	65	ER32	NO	75	96	96	70	6000	1:1	-
124-06505	65	ER32	YES	75	96	96	70	6000	1:1	20

RADIAL DRILLING AND MILLING HEAD





NAKAMURA - TOME

COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	T	W	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
124-06506	65	ER32	NO	DX/SX	65	59	110	38	96	70	6000	1:1	-
124-06507	65	ER32	YES	DX/SX	65	59	110	38	96	70	6000	1:1	20

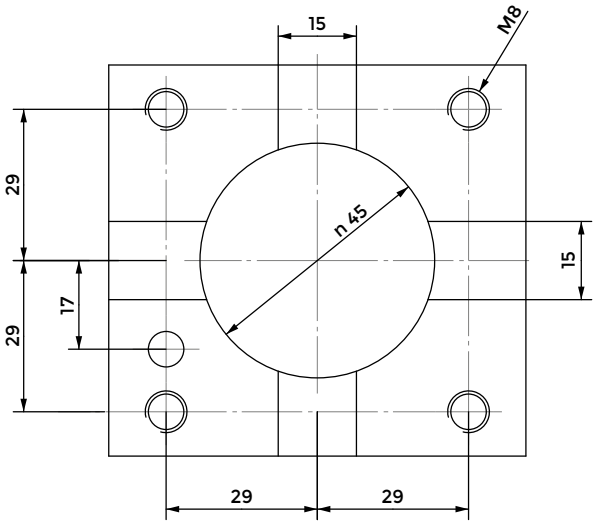
BMT45

DOOSAN - LYNX 2100MA/220 (LMSA,LMSC)
220 (LSYA,LSYC) - 220 (M,LM)
LYNX 220 (MA,LMA,MC,LMC) - 220 (YA,YC,LYA,LYC)
220 (YA,YC,LYA,LYC) - PUMA MX1600 (T,ST)
HARDINGE - BMT45
SMEC - PL1600 (M,CM)

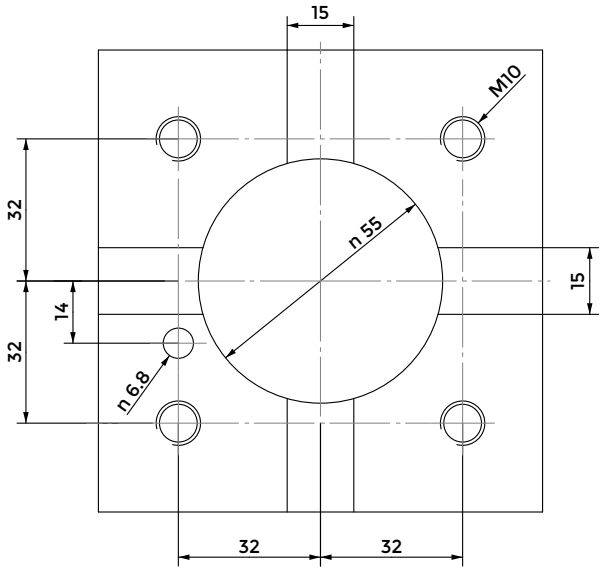
BMT55

DOOSAN - LYNX 300 (M) - PUMA 1500/2000/2500 (M,S,Y) - PUMA 2100 (Y,LY,SY,LSY) - PUMA 2100/2600/3100 M/Y/MS/SY PUMA 230/240/280 (M,LM,S) - PUMA GT2100M - PUMA MX2100 (ST/LST) PUMA TL2000/2500 (M,LM)
HARDINGE - BMT55
HWACHEON - CUTEX-160
SMEC/SAMSUNG - SL 20MC
HYUNDAI WIA - SKT-180TTSY
VICTOR - VTURN-A16/A20 (YSCM)

CONNECTION TURRET BMT45



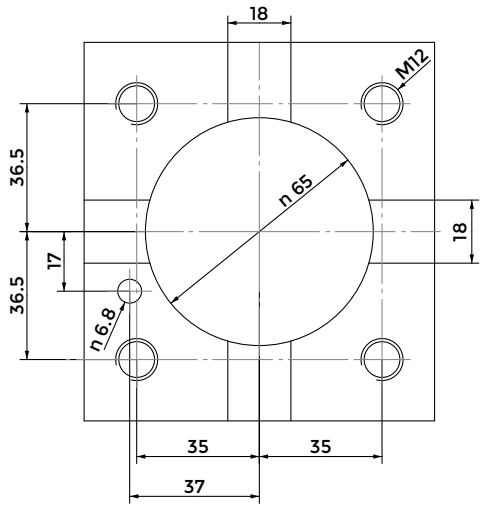
CONNECTION TURRET BMT55



BMT65

DOOSAN - PUMA 2100/2600 (M,LM,MS,LMS) - PUMA 2100/2600 (Y,LY,SY,LSY) - PUMA 300 (M,MS,MB,MC) - PUMA 3100 (M,LM,LY,XLM, XLY,ULM,ULY) - PUMA MX2000/2500 - PUMA MX2600 (T,ST) - PUMA TT2500 (MS/SY) - PUMA V400 (M) - PUMA VT450 (M,SP)
HWACHEON - CUTEX-240 - HI-TECH200/T2-Series HI-TECH300/400 - VT-450
HYUNDAI WIA - L2100SY - SKT-200/250TTSY SKT-250/300 (L,M) - SKT-250/300 (MS)
MAXSIN - BMT65
SMEC/SAMSUNG - SL25 - SL35
TONGTAI - TMT2000
VICTOR - VTURN-A26 (YSCM)

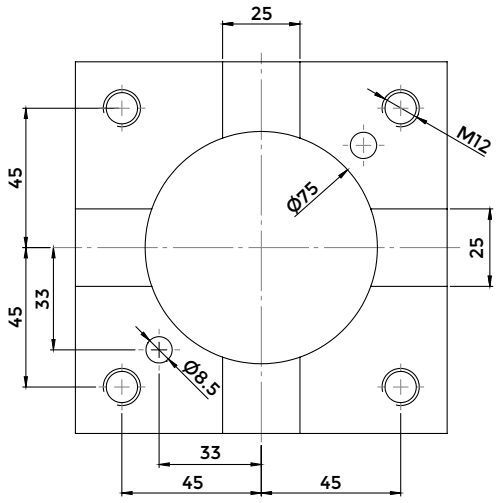
CONNECTION TURRET BMT65



BMT75

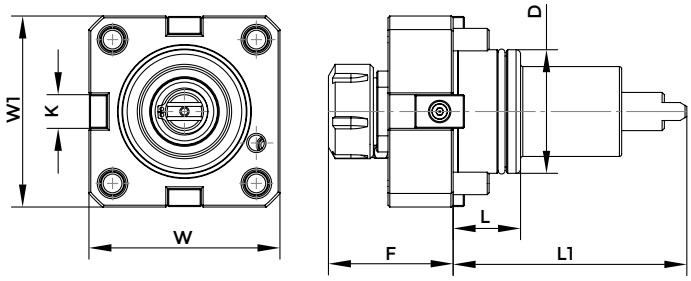
DOOSAN - PUMA 400/480 (M,LM,XLM) - 500 (M) - V550 (M) - VT750 (TM, 2SP)
SAMSUNG - PL 45LM - HYUNDAI WIA - LV800RM - SKT400M/MA/MC/LMC
HYUNDAI WIA - LV800RM - SKT400M/MA/MC/LMC
HWACHEON - HI-TECH 550/700/7026 - VT-550

CONNECTION TURRET BMT75



AXIAL DRILLING AND MILLING HEAD



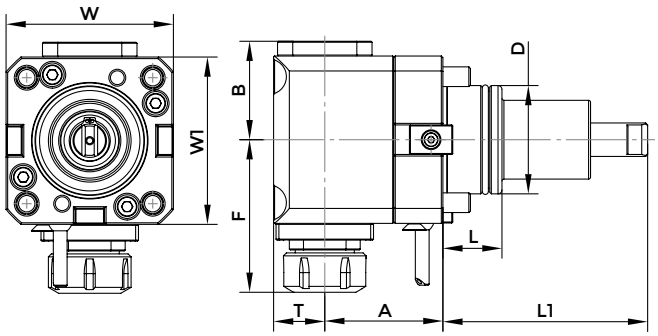


BMT

COD.	BMT	ER	D	F	K	L	L1	W	W1	MAX SPEED (Rpm)	RATIO	MAX TORQUE (Nm)	INTERNAL COOLING	P Bar
124-04501	45	ER25	45	67,6	15	40	84	78,5	75	6000	1:1	50	NO	-
124-04502	45	ER25	45	67,6	15	40	84	78,5	75	6000	1:1	50	YES	20
124-05501	55	ER25	55	71	15	30	104	85	85	6000	1:1	50	NO	-
124-06509	55	ER25	55	71	15	30	104	85	85	6000	1:1	50	YES	20
124-06518	55	ER32	55	71	15	30	104	85	85	6000	1:1	50	YES	20
124-05525	55	ER32	55	73	15	30	104	87	85	6000	1:1	50	NO	-
124-06501	65	ER32	65	75	18	32	112	94	94	6000	1:1	70	NO	-
124-06508	65	ER32	65	75	18	32	112	94	94	6000	1:1	70	YES	20
124-06518	65	ER32	65	76	18	32	112	95	95	6000	1:1	70	YES	20
124-07506	75	ER32	75	67	25	43	110	112	112	6000	1:1	80	NO	-
124-07507	75	ER40	75	67	25	43	110	112	112	6000	1:1	80	NO	-

RADIAL DRILLING AND MILLING HEAD



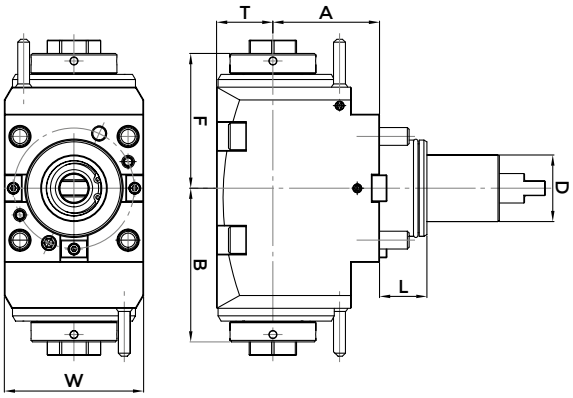


BMT

COD.	BMT	ER	D	A	B	F	L	L1	T	W	W1	MAX SPEED (Rpm)	RATIO	MAX TORQUE (Nm)	INTERNAL COOLING	P Bar
124-04503	45	ER25	45	65	57	97,6	40	84	36,5	75	83	6000	1:1	50	NO	-
124-04504	45	ER25	45	65	57	97,6	40	84	36,5	75	83	6000	1:1	50	YES	20
124-04505	45	ER25	45	65	57	97,6	40	84	36,5	75	83	6000	1:1	50	NO	-
124-05502	55	ER25	55	70	57	98	30	104	36,5	85	98	6000	1:1	50	NO	-
124-06510	55	ER25	55	70	57	98	30	104	36,5	85	98	6000	1:1	50	YES	20
124-05511	55	ER25	55	85	57	98	30	104	36.5	85	98	6000	1:1	50	NO	-
124-05512	55	ER25	55	85	57	98	30	104	36.5	85	98	6000	1:1	50	YES	20
124-06520	55	ER25	55	85	57	98	30	104	36.5	85	98	6000	1:1	50	YES	80
124-05513	55	ER32	55	85	57	101	30	104	36.5	85	98	6000	1:1	50	NO	-
124-05514	55	ER32	55	85	57	101	30	104	36.5	85	98	6000	1:1	50	YES	20
124-05526	55	ER32	55	85	57	101	30	104	36,5	85	108	6000	1:1	50	NO	-
124-05527	55	ER32	55	85	57	101	30	104	36,5	85	108	6000	1:1	50	YES	20
124-05528	55	ER32	55	85	68	101	30	104	36,5	85	108	6000	1:1	50	YES	80
124-06502	65	ER32	65	72	59	111	32	112	38	94	100	6000	1:1	70	NO	-
124-06512	65	ER32	65	72	59	111	32	112	38	94	100	6000	1:1	70	YES	20
124-06521	65	ER32	65	72	59	111	32	112	38	94	100	6000	1:1	70	YES	80
124-06513	65	ER32	65	100	59	111	32	112	38	94	100	6000	1:1	70	NO	-
124-06514	65	ER32	65	100	59	111	32	112	38	94	100	6000	1:1	70	YES	20
124-07508	75	ER32	75	100	76	104	43	90	44	112	110	6000	1:1	80	NO	-
124-07509	75	ER32	75	100	76	104	43	90	44	112	110	6000	1:1	80	YES	20
124-07510	75	ER32	75	100	76	104	43	110	44	112	110	6000	1:1	80	NO	-
124-07511	75	ER32	75	100	76	104	43	110	44	112	110	6000	1:1	80	YES	20
124-07512	75	ER40	75	100	76	104	43	90	44	112	110	6000	1:1	80	NO	-
124-07513	75	ER40	75	100	76	104	43	90	44	112	110	6000	1:1	80	YES	20
124-07514	75	ER40	75	100	76	104	43	110	44	112	110	6000	1:1	80	NO	-
124-07515	75	ER40	75	100	76	104	43	110	44	112	110	6000	1:1	80	YES	20

DOUBLE RADIAL DRILLING AND MILLING HEAD WITH INTERNAL NUT

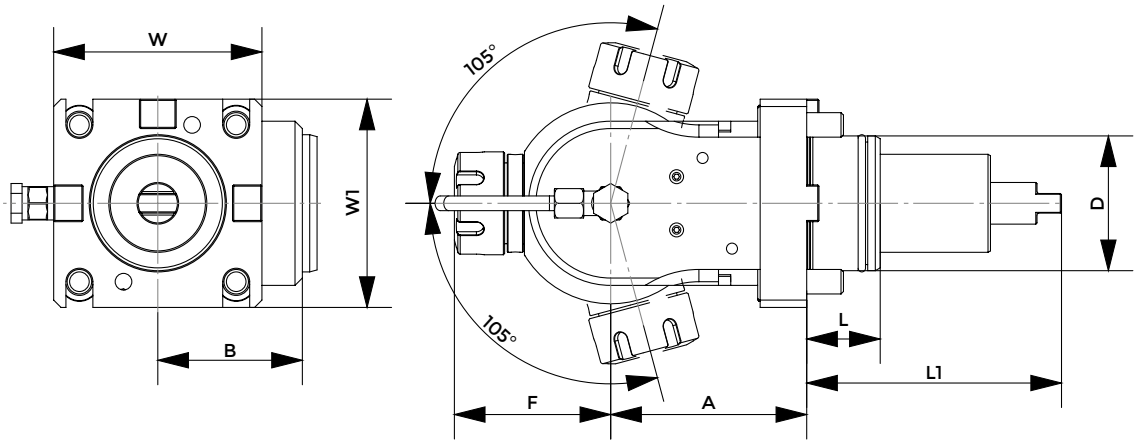




DOUBLE BMT

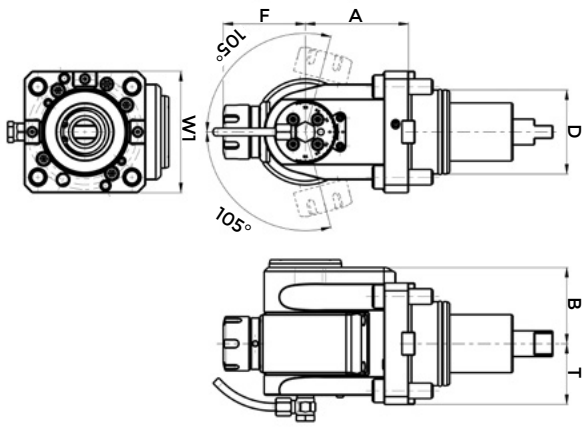
COD.	D	ER	INTERNAL COOLING	DIRECTION	A	B	F	T	W	L	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
124-06605	65	32	NO	DX/SX	72	104	91	38	94	32	70	6000	1:1	-
124-06606	65	32	YES	DX/SX	72	104	91	38	94	32	70	6000	1:1	20

DOOSAN - BMT



AXIAL - RADIAL DRILLING AND MILLING HEAD

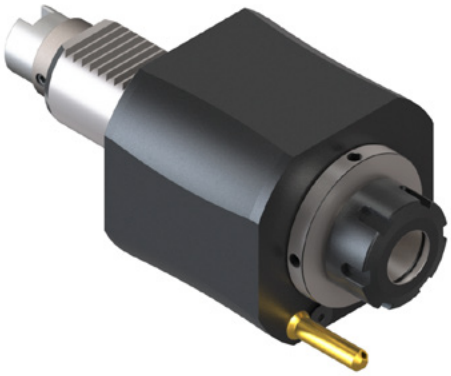


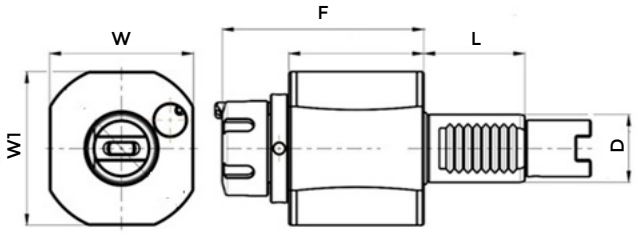


BMT

COD.	BMT	ER	D	A	B	T	F	L	L1	W	W1	MAX SPEED (Rpm)	RATIO	MAX TORQUE (Nm)	INTERNAL COOLING	P Bar
124-04506	45	ER25	45	80	59	40	65	40	84	80	80	6000	1:1	16	NO	-
124-04507	45	ER25	45	80	59	40	65	40	84	80	80	6000	1:1	16	YES	20
124-05515	55	ER25	55	80	59	42,5	63,8	30	104	85	85	6000	1:1	16	NO	-
124-05516	55	ER25	55	80	59	42,5	63,8	30	104	85	85	6000	1:1	16	YES	20

AXIAL DRILLING AND MILLING HEAD INDEX/TRAUB



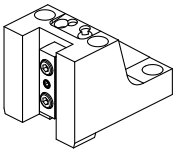


INDEX /TRAUB

COD.	D	ER	INTERNAL COOLING	F	L	W	W1	MAX TORQUE (Nm)	MAX SPEED (Rpm)	RATIO	P Bar
116-54061	30	ER25	NO	90	45	64	68	28	6000	1:1	-
116-54062	30	ER25	YES	90	45	64	68	28	6000	1:1	20
116-54063	40	ER32	NO	106	53	80	86	50	6000	1:1	-
116-54064	40	ER32	YES	106	53	80	86	50	6000	1:1	20

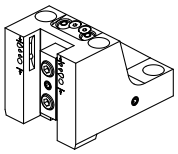
BIGLIA - B301/445/470/501(Y-S)/510/545/550/565/650/658/1200/446/465/745/765-B750/1250 16 ST.

FACE AND O.D. CUTTING HOLDER



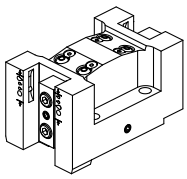
128-41524 - 20x20 mm
128-41525 - 25x25 mm

FACE AND O.D. CUTTING HOLDER



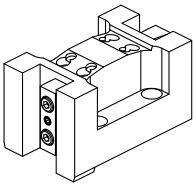
128-41525-IC - 25x25 mm
IC-TOOLTEK

FACE AND O.D. CUTTING HOLDER



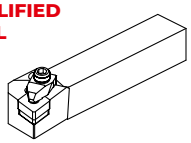
128-41527-IC - 20x20 mm
IC-TOOLTEK

FACE AND O.D. CUTTING HOLDER

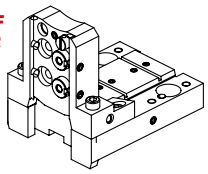


128-41527 - 20x20 mm

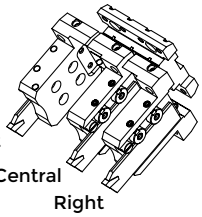
QUALIFIED TOOL



CUT-OFF HOLDER



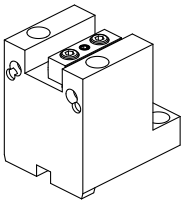
128-11566 - 26 mm
128-11567 - 32 mm



CUT-OFF TOOL



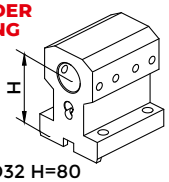
FACE AND O.D. CUTTING HOLDER



128-31515 - 20x20 mm

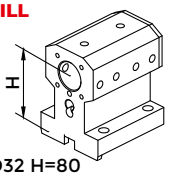
ACCESSORIES

TOOLHOLDER FOR BORING BAR



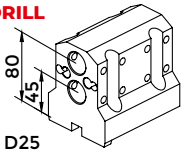
128-21538 D32 H=80
128-21540 D32 H=100
128-21548 D40 H=80

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



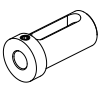
128-21539 D32 H=80
128-21541 D32 H=100
128-21549 D40 H=80

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

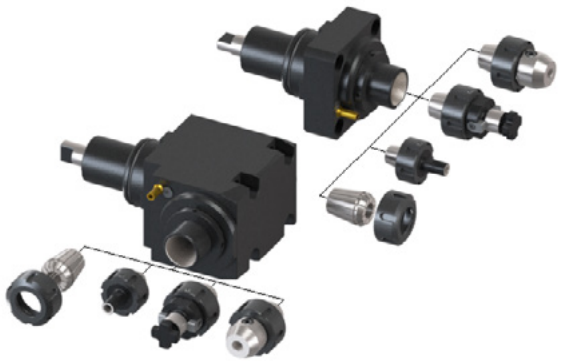


128-21542 D25

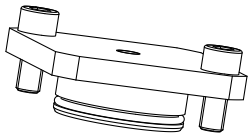
BORING BAR SLEEVE p. 705

	D32	D40
	1376 <MT1> 1377 <MT2>	3245 <MT2> 1232 <MT3>
	5316 (Ø8) 5317 (Ø10) 5318 (Ø12) 5319 (Ø16) 5320 (Ø20)	5322 (Ø8) 5323 (Ø10) 5324 (Ø12) 5325 (Ø16) 5326 (Ø20) 5327 (Ø25)
	5333 (Ø25)	5334 (Ø32)
	9607 (Ø8) 9608 (Ø10) 9609 (Ø12)	9615 (Ø8) 9616 (Ø10) 9617 (Ø12)
	9611 (Ø16) 9613 (Ø20) 9614 (Ø25)	9619 (Ø16) 9621 (Ø20) 9622 (Ø25) 9623 (Ø32)
	8764 (Ø16) 8766 (Ø20) 8767 (Ø25)	8768 (Ø16) 8770 (Ø20) 8771 (Ø25) 8772 (Ø32)

FAST-IN p. 490
DRIVEN TOOLS p. 298

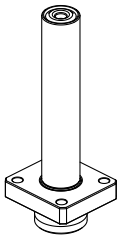


PROTECTION COVER



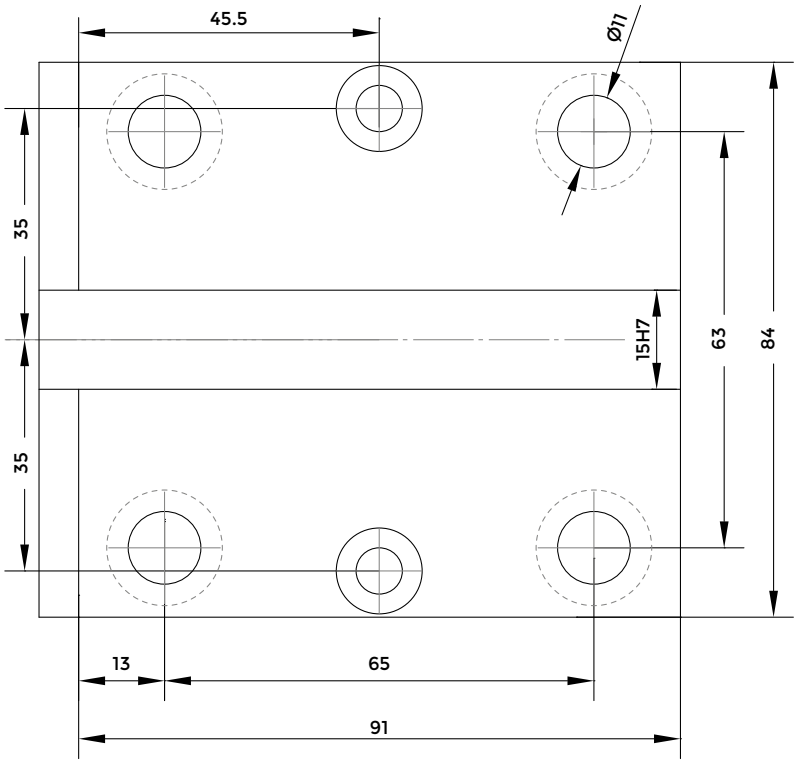
137-00244

CONTROL PIN p. 740

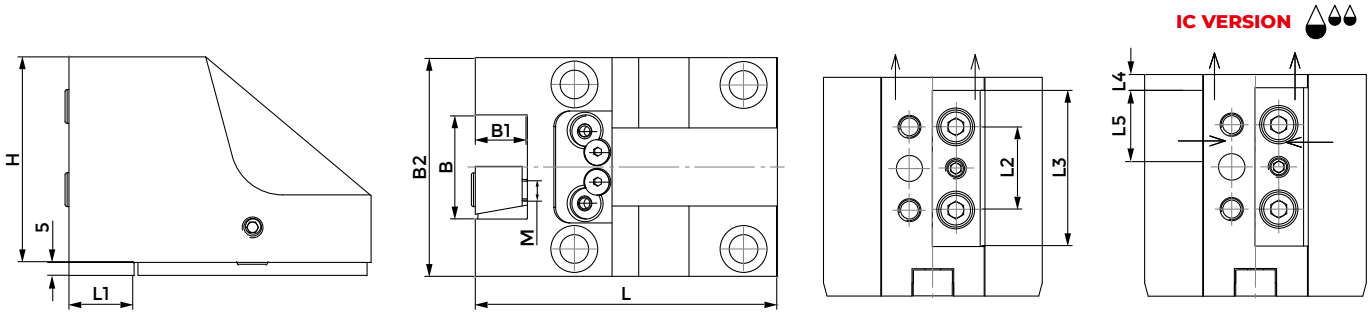


137-00209

CONNECTION



RADIAL TOOLHOLDER

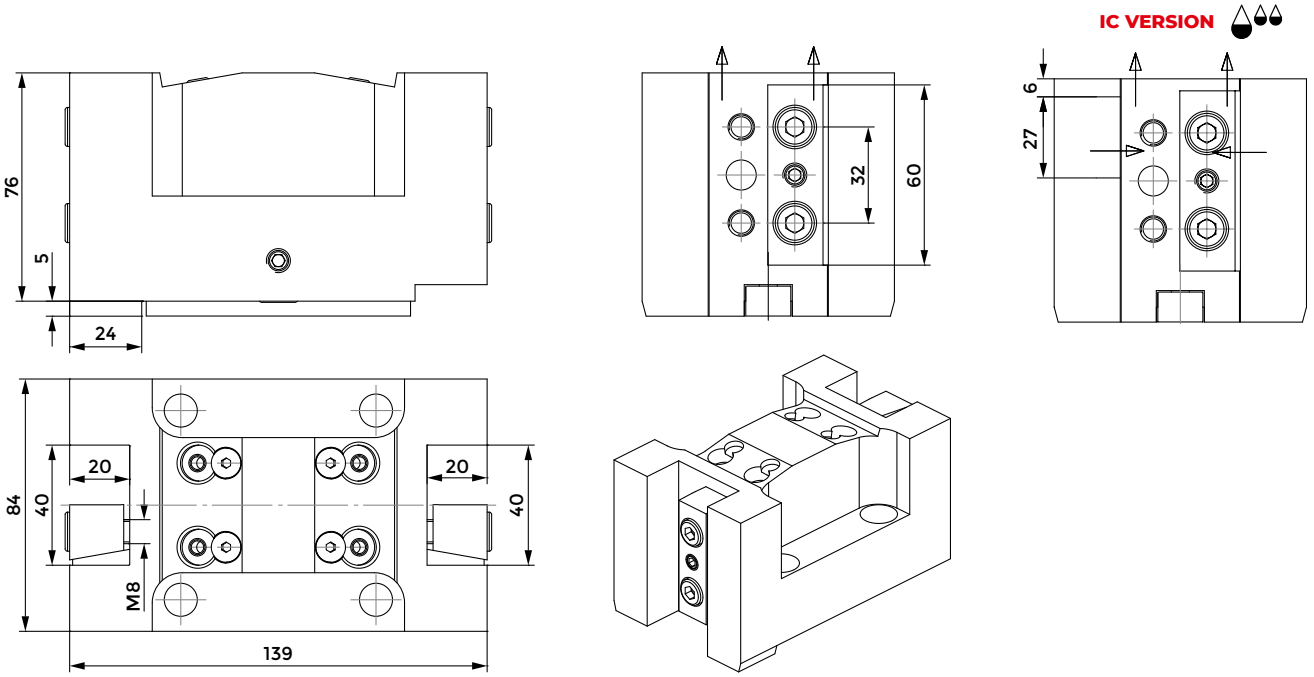


COD.	INTERNAL COOLANT	B1	B	B2	L	L1	L2	L3	L4	L5	H	M
128-41524	NO	20	40	84	116	25	32	60	6	27	79	M8
128-41525	NO	25	50	98	121	30	46	80	8	32	84	M10
128-41525-IC	YES	25	50	98	121	30	46	80	8	32	84	M10

COD.	CLAMPING PLATE	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL	O RING
						
128-41524	832-007030	814-203230	811-101016	833-001410	811-108024	823-101015
128-41525	832-007540	814-203230	811-101016	833-001410	811-108024	823-101015
128-41525-IC	832-007540	814-203230	811-101016	833-001410	811-108024	823-101015

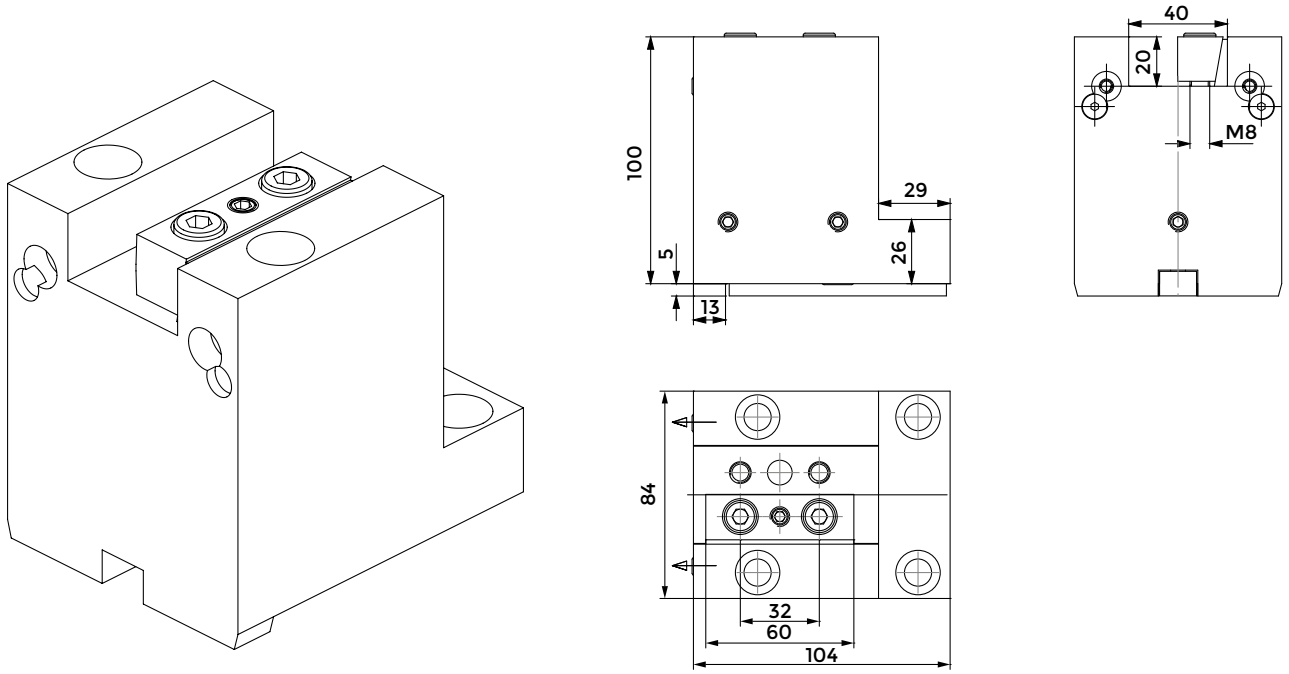
RADIAL TOOLHOLDER

IC VERSION



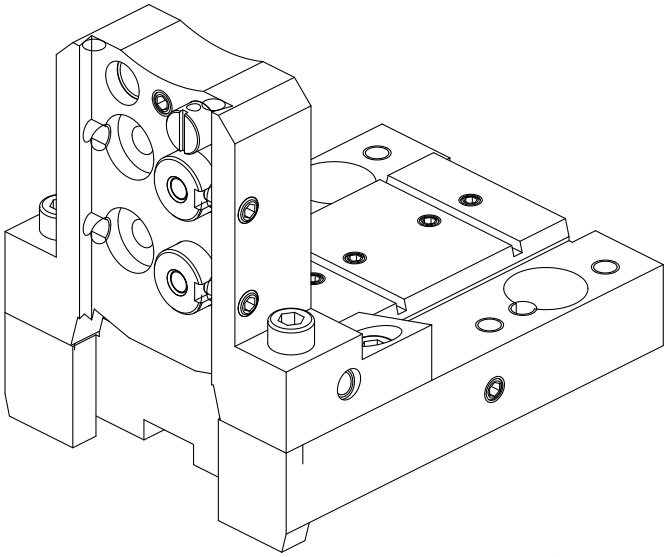
COD.	INTERNAL COOLANT	CLAMPING PLATE	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL	O RING
128-41527	NO	832-007030	814-203230	811-101016	833-001410	811-108024	823-101015
128-41527-IC	YES	832-007030	814-203230	811-101016	833-001410	811-108024	823-101015

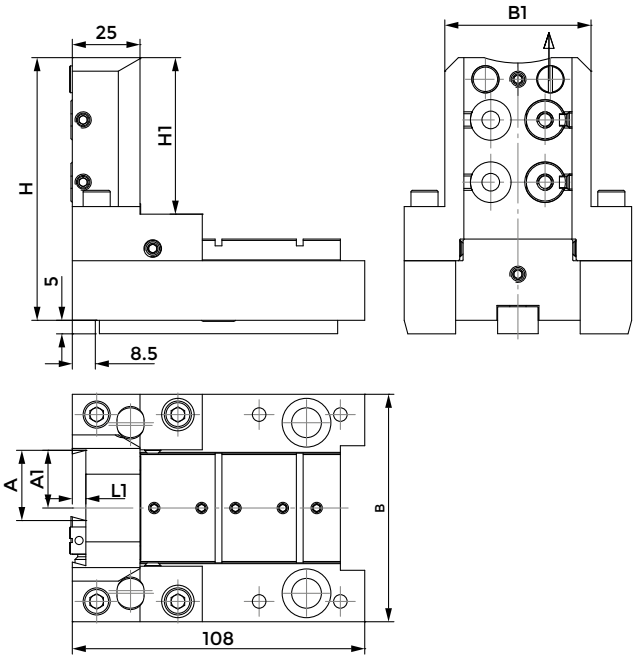
AXIAL TOOLHOLDER

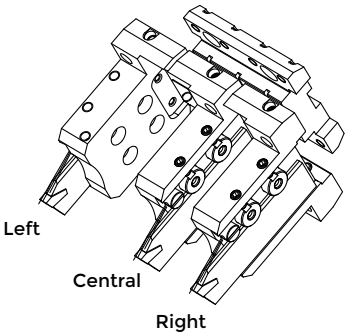


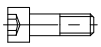
COD.	CLAMPING PLATE	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL	O RING
128-31515	832-007030	814-203230	811-101016	833-001410	811-108024	823-101015

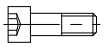
CUT-OFF HOLDER



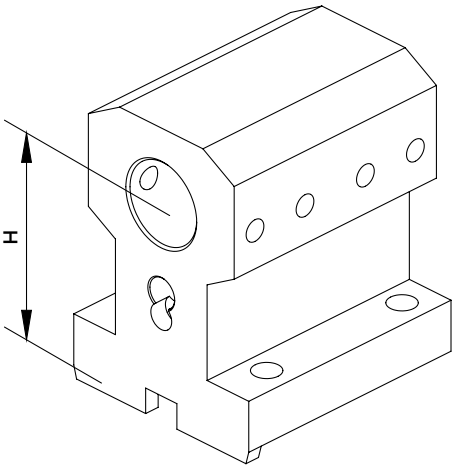


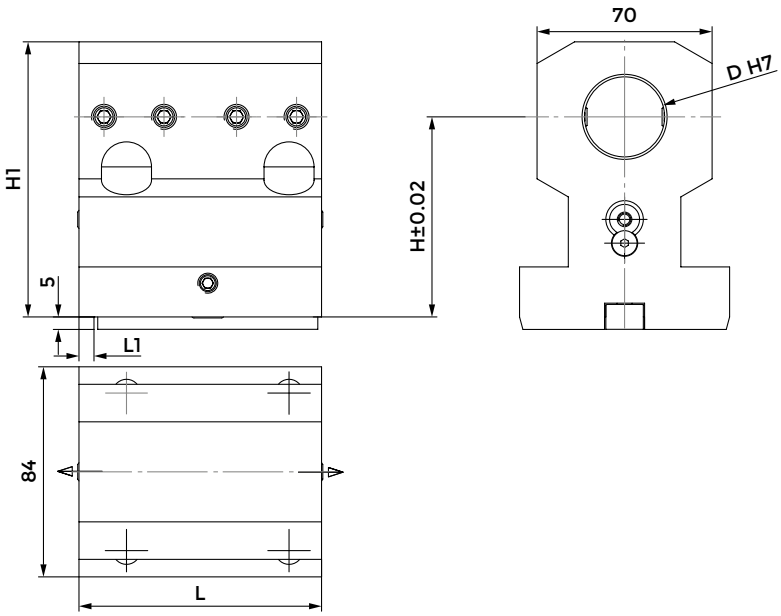


COD.	INTERNAL COOLANT	A	A1	L1	B	B1	H	M	KEY	SCREW FOR KEY	COOLANT NOZZLE	O RING FOR COOLANT NOZZLE	O RING FOR INTERNAL COOLANT
													
128-11566	NO	26	21.4	5	84	54	97	58	814-203230	811-101015	833-001490	823-101058	-
128-11567	NO	32	25	6	94	63	105	66	814-203230	811-101015	833-001490	823-101058	-

COD.	O RING FOR BODY	O RING FOR COOLANT INTAKE	SHIM PLATE	SCREW FOR PLATE	CLAMPING PLATE	SPRING	CLAMPING SCREW	SCREW
								
128-11566	823-101061	823-101015	832-014448	811-108037	832-014447	824-300012	811-101028	811-104013
128-11567	823-101061	823-101015	832-014448	811-108037	832-014450	824-300012	811-101029	811-104013

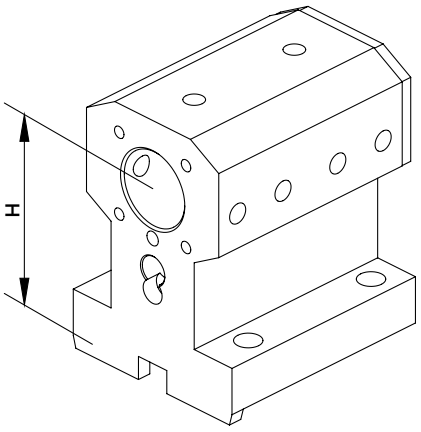
TOOLHOLDER FOR BORING BAR

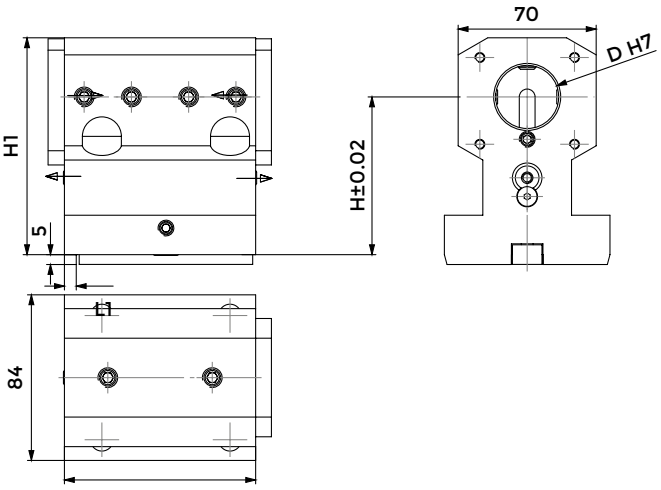




COD.	D	H	H1	L	L1	CLAMPING SCREW	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL	O RING
											
128-21538	32	80	110	97	6	811-102038	814-203230	811-101016	833-001410	811-108024	823-101015
128-21540	32	100	130	97	6	811-102038	814-203230	811-101016	833-001410	811-108024	823-101015
128-21548	40	80	110	106	15	811-102037	814-203230	811-101016	833-001410	811-108024	823-101015

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

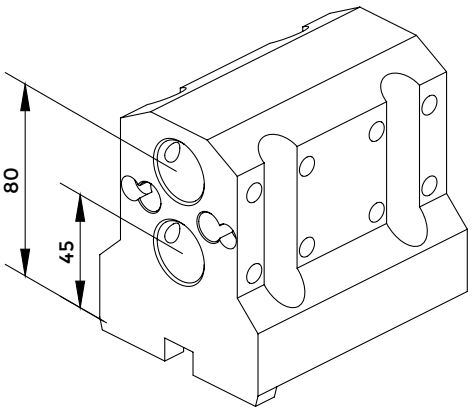


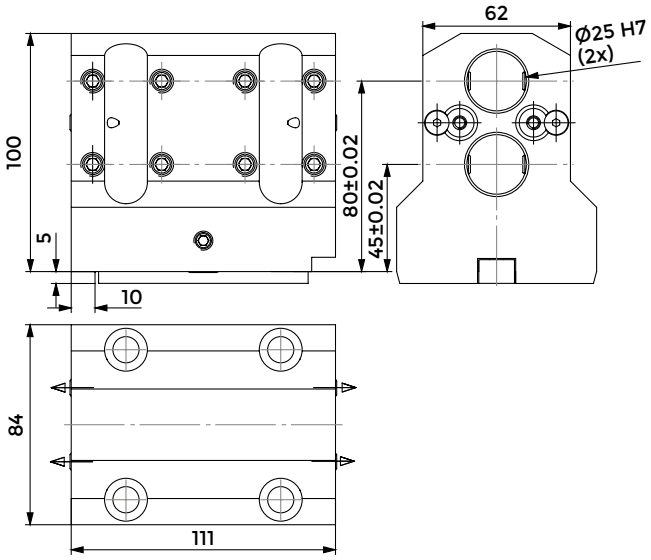


COD.	D	H	H1	L	L1
128-21539	32	80	110	97	6
128-21541	32	100	130	97	6
128-21549	40	80	110	97	6

COD.	CLAMPING SCREW 1 (D32 M10X20) (D40 M10X16)	CLAMPING SCREW 2 (D32 M10X16) (D40 M10X12)	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL	COVER	SCREW FOR COVER	O RING
									
128-21539	811-102038	811-102037	814-203230	811-101016	833-001410	811-108024	832-003363	811-101016	823-101015
128-21541	811-102038	811-102037	814-203230	811-101016	833-001410	811-108024	832-003363	811-101016	823-101015
128-21549	811-102037	811-102036	814-203230	811-101016	833-001410	811-108024	832-003363	811-101016	823-101015

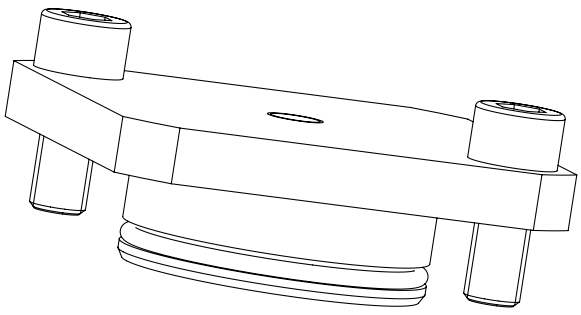
TOOLHOLDER FOR BORING BAR

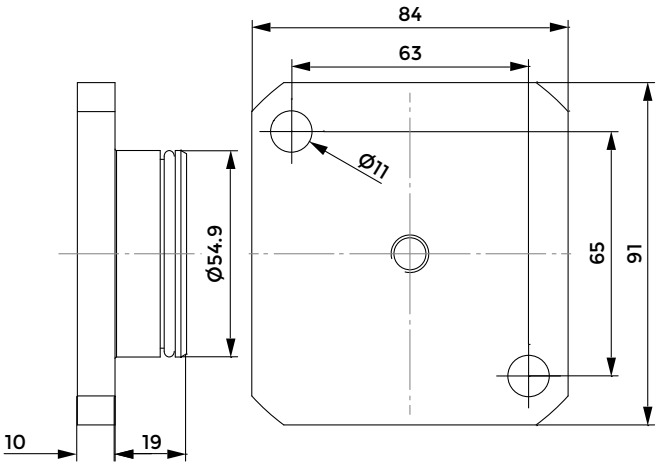




COD.	CLAMPING SCREW	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL	O RING
						
128-21542	811-102038	814-203230	811-101016	833-001410	811-108024	823-101015

PROTECTION COVER

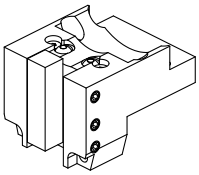




COD.	O RING
	
137-00244	823-101064

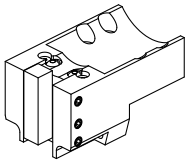
CMZ - TL15T/M/TM/S/MS - TB46/67 M/CM
MIYANO - ABX 51/64 THY/SYY

FACE AND O.D. CUTTING HOLDER



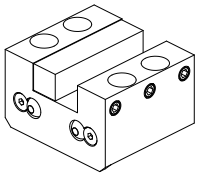
KTL15/10000/06
20x20 mm

FACE AND O.D. CUTTING HOLDER



KTL15/10000/45
20x20 mm

FACE AND O.D. CUTTING HOLDER

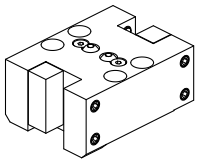


KTL15/10000/08
20x20 mm

QUALIFIED TOOL



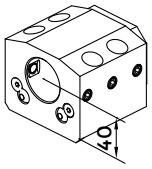
FACE AND O.D. CUTTING HOLDER



KTL15/10000/07 - 20x20 mm

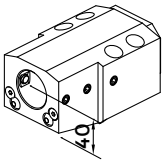
ACCESSORIES

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



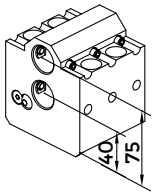
KTL15/10000/12
Ø40 mm

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



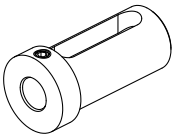
KTL15/10000/38
Ø40 mm

TOOLHOLDER FOR BORING BAR

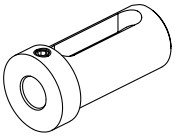


KTL15/10000/11
Ø25 mm

BORING BAR SLEEVE
p. 707

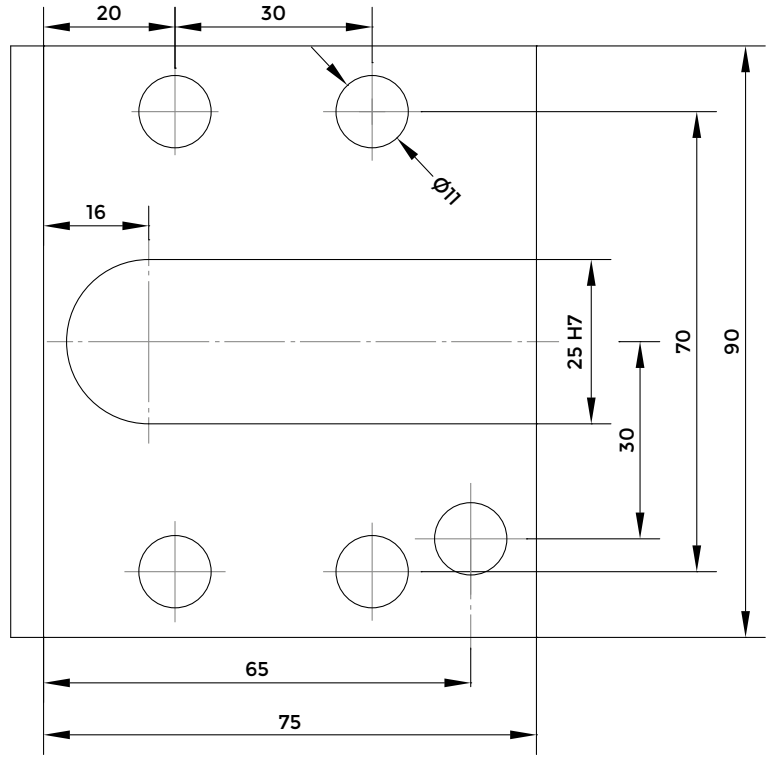


8768 (Ø16 mm)
8770 (Ø20 mm)
8771 (Ø25 mm)
8772 (Ø32 mm)

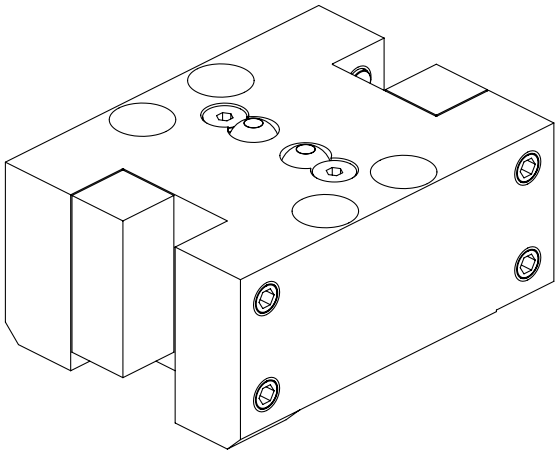


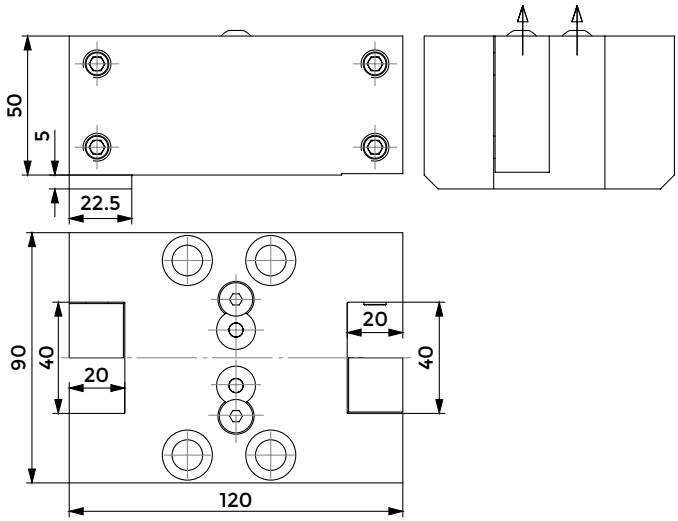
8759 (Ø12 mm)
8761 (Ø16 mm)
8763 (Ø20 mm)

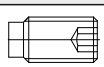
CONNECTION



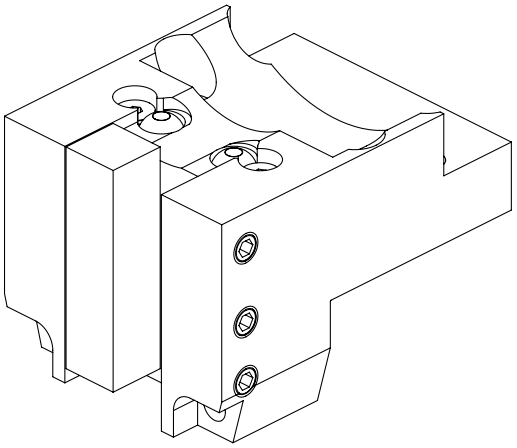
RADIAL TOOLHOLDER

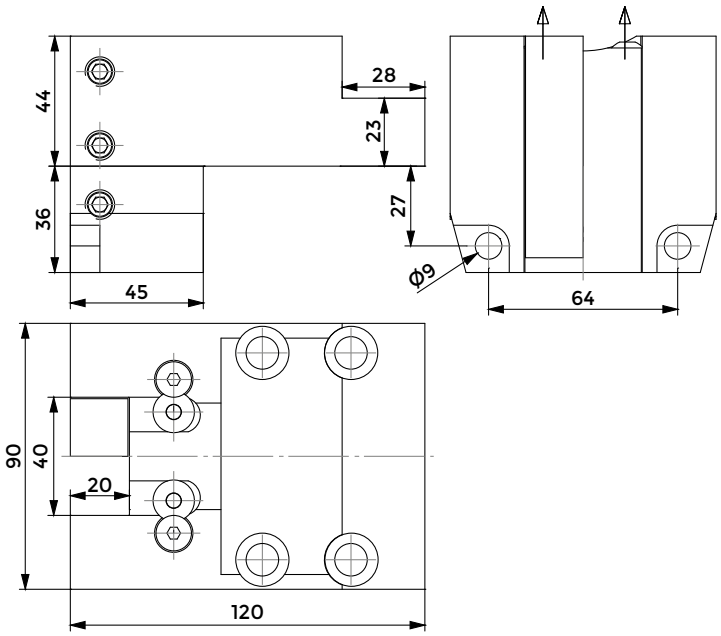




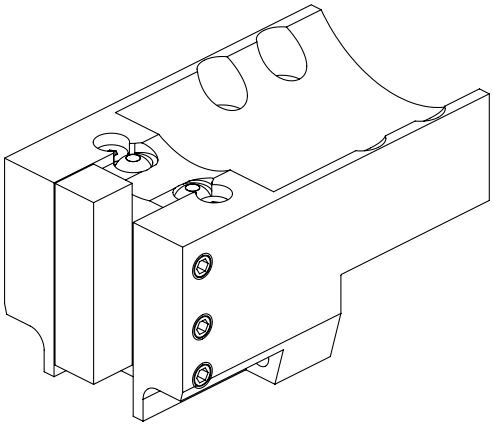
COD.	CLAMPING SCREW	CLAMPING PLATE	COOLANT BALL	SCREW FOR BALL
				
KTL 15/10000/07	811-104030	832-002222	833-001470	811-108018

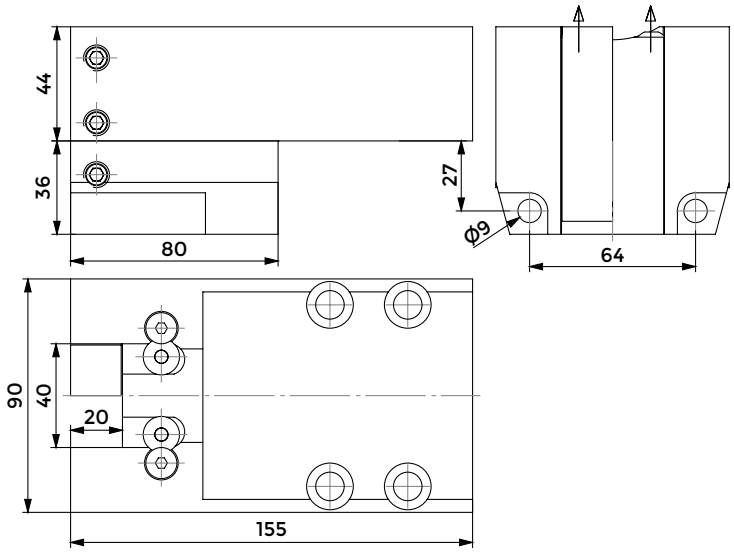
RADIAL TOOLHOLDER





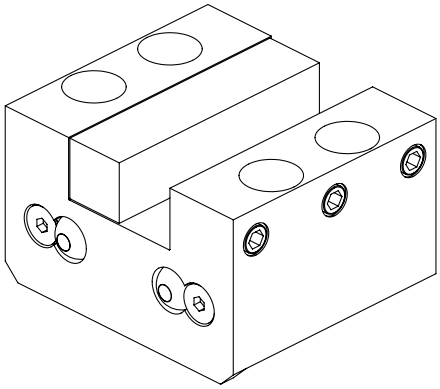
COD.	CLAMPING SCREW	CLAMPING PLATE	COOLANT BALL	SCREW FOR BALL
KTL 15/10000/06	811-104030	832-002223	833-001470	811-108018

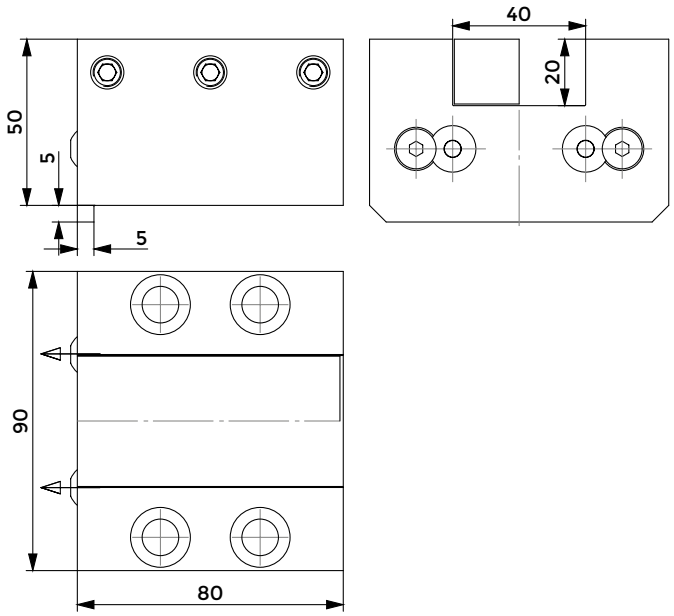


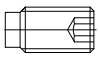


COD.	CLAMPING SCREW	CLAMPING PLATE	COOLANT BALL	SCREW FOR BALL
KTL 15/10000/45	811-104030	832-002223	833-001470	811-108018

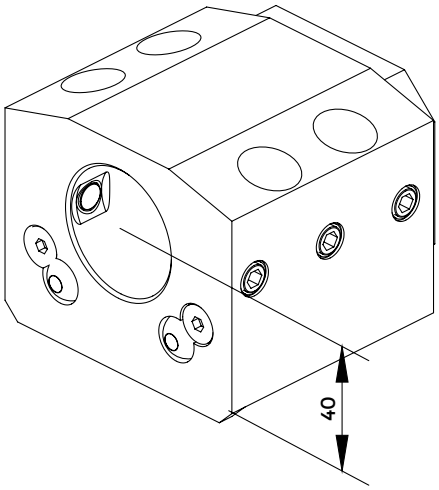
AXIAL TOOLHOLDER

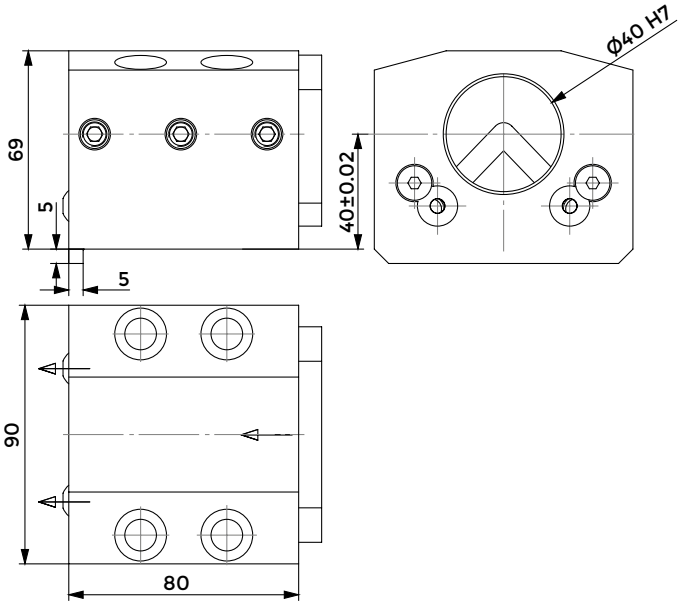


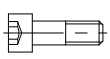


COD.	CLAMPING SCREW	CLAMPING PLATE	COOLANT BALL	SCREW FOR BALL
				
KTL 15/10000/08	811-104030	832-002223	833-001470	811-108018

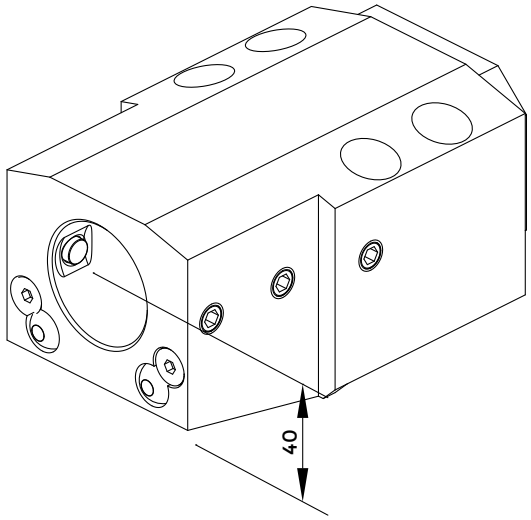
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

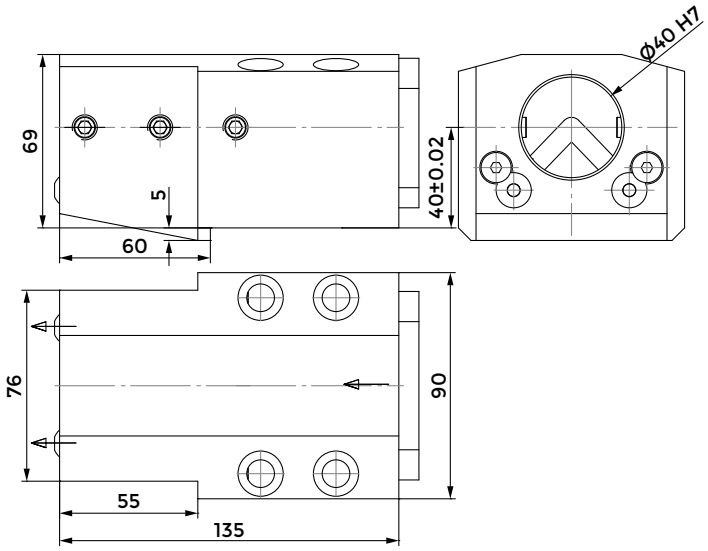


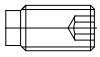
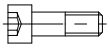


COD.	CLAMPING SCREW	COVER	SCREW FOR COVER	COOLANT BALL	SCREW FOR BALL
					
KTL 15/10000/12	811-104030	832-003063	811-101016	833-001470	811-108018

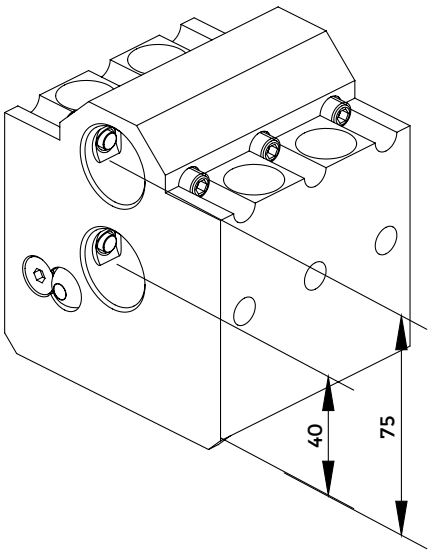
COMBI TOOLHOLDER FOR BORING BAR AND INSERTDRILL

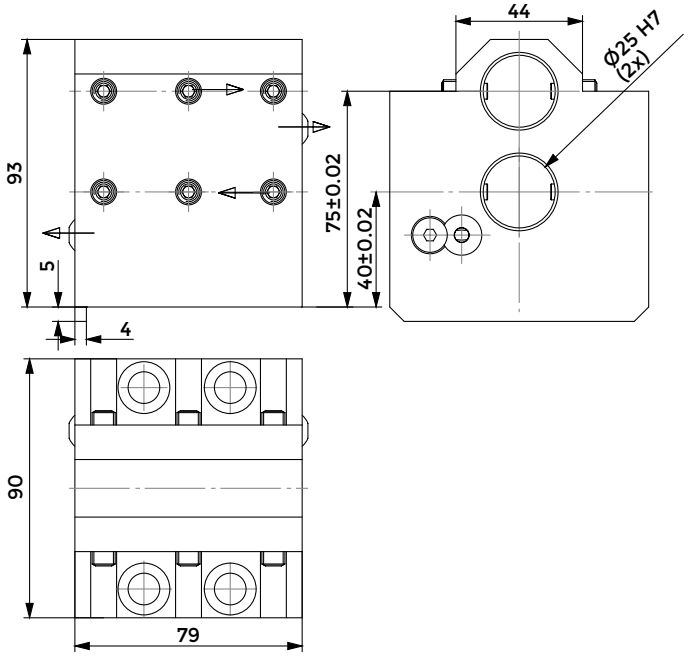


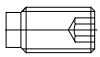


COD.	CLAMPING SCREW 1 (M10X20)	CLAMPING SCREW 2 (M10X25)	COVER	SCREW FOR COVER	COOLANT BALL	SCREW FOR BALL
						
KTL 15/10000/38	811-104029	811-104030	832-003063	811-101016	833-001470	811-108018

DOUBLE TOOLHOLDER FOR BORING BAR





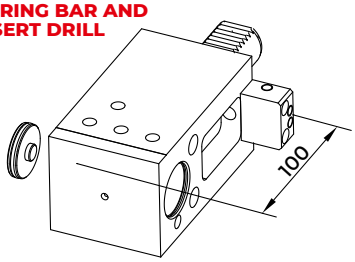
COD.	CLAMPING SCREW	COOLANT BALL	SCREW FOR BALL
			
KTL 15/10000/11	811-104021	833-001470	811-108018

DMG MORI (VDI30) - CTX310/410 V4/V6 - CTX320 V4/V6 - CTX420 V4/V6 (option) - CTX Alpha 300 V4 CTX Alpha 500 V4/V6 - CTX Beta 500/800/1250 V4/V6 (option) - TWIN 42/65/102 - SPRINT 65/50

RADIAL TURRET



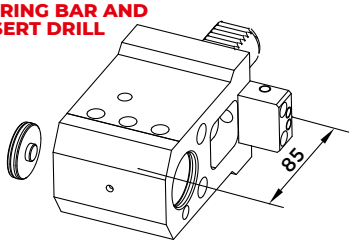
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



115-53025 (Ø32)

Plug:
823-301260

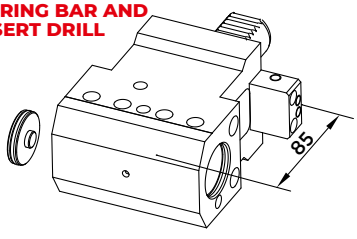
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



115-53027 (Ø25)
115-53028 (Ø32)

Plug:
823-301270
823-301260

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

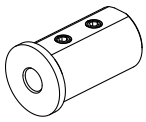


115-53030 (Ø32)

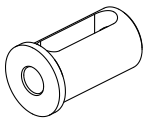
Plug:
823-301260

ACCESSORIES

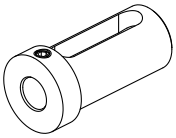
BORING BAR SLEEVE
p. 707



9600 (Ø25/Ø8)
9601 (Ø25/Ø10)
9602 (Ø25/Ø12)
9607 (Ø32/Ø8)
9608 (Ø32/Ø10)
9609 (Ø32/Ø12)

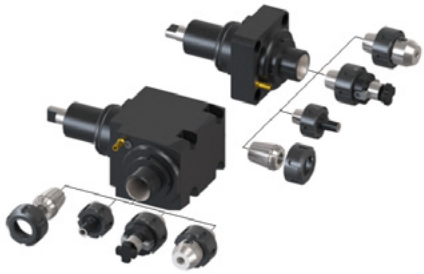


9604 (Ø25/Ø16)
9606 (Ø25/Ø20)
9611 (Ø32/Ø16)
9613 (Ø32/Ø20)
9614 (Ø32/Ø25)

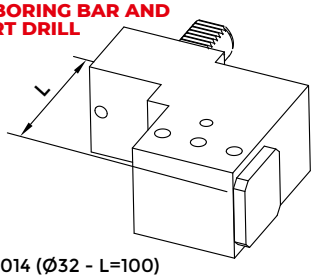


8759 (Ø25/Ø12)
8761 (Ø25/Ø16)
8763 (Ø25/Ø20)
8764 (Ø32/Ø16)
8766 (Ø32/Ø20)
8767 (Ø32/Ø25)

FAST-IN p. 490
DRIVEN TOOLS p. 298



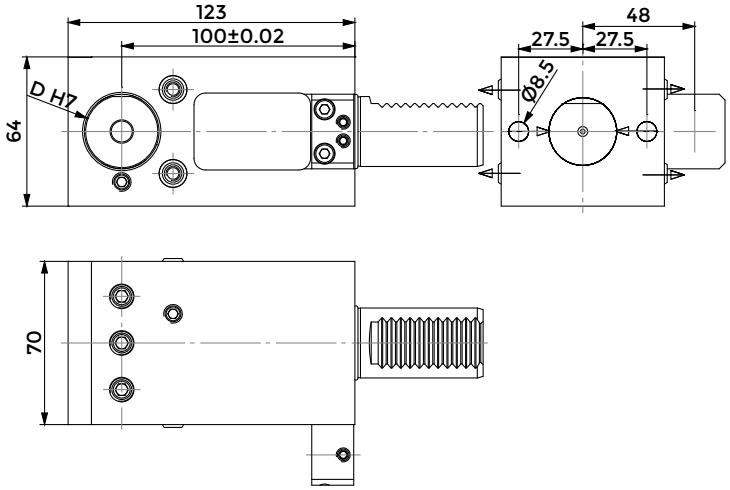
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



115-53014 (Ø32 - L=100)

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

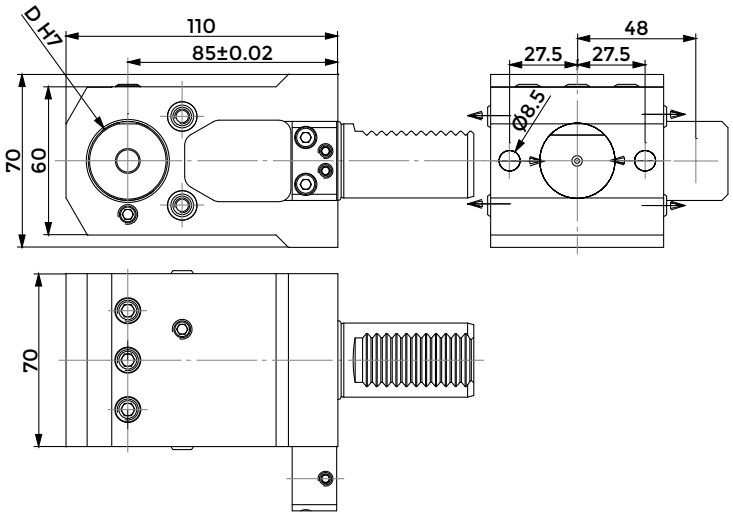




COD.	D	CLAMPING SCREW	COOLANT PLUG	SEEGER RING FOR COOLANT PLUG	O RING FOR COOLANT PLUG
115-53025	32	811-102037	823-301260	822-10208	823-101017

COD.	COOLANT NOZZLE	STOP NUT	INSERT FOR STOP NUT	SCREW FOR STOP NUT	SCREW FOR STOP NUT (M6x6)	SCREW FOR STOP NUT (M6X8)	O RING VDI30
115-53025	833-001110	832-003301	832-003302	811-101021	811-102017	811-102018	823-101017



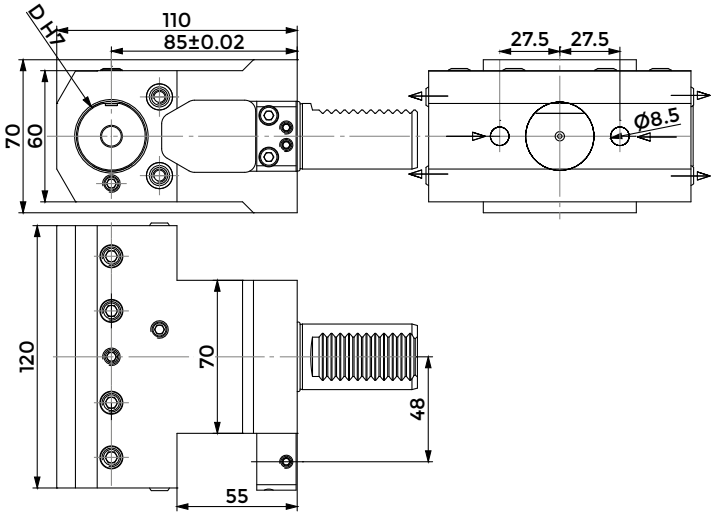


COD.	D	CLAMPING SCREW	COOLANT PLUG	SEEGER RING FOR COOLANT PLUG	O RING FOR COOLANT PLUG
115-53027	25	811-102029	823-301270	822-10209	823-101031
115-53028	32	811-102037	823-301260	822-10208	823-101017

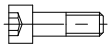
COD.	COOLANT NOZZLE	STOP NUT	INSERT FOR STOP NUT	SCREW FOR STOP NUT	SCREW FOR STOP NUT (M6x6)	SCREW FOR STOP NUT (M6X8)	O RING VDI30
115-53027	833-001110	832-003301	832-003302	811-101021	811-102017	811-102018	823-101017
115-53028	833-001110	832-003301	832-003302	811-101021	811-102017	811-102018	823-101017

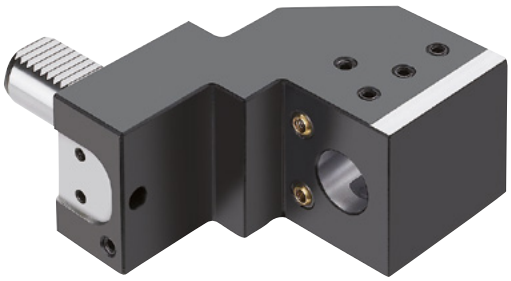
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

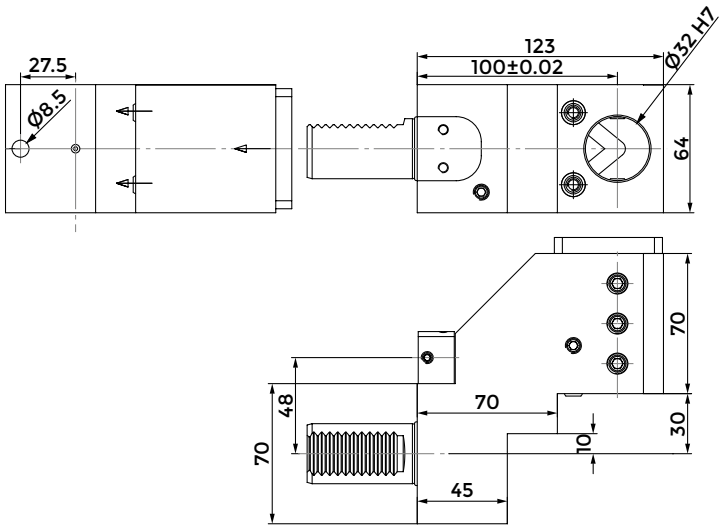


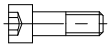


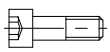
COD.	D	CLAMPING SCREW 1	CLAMPING SCREW 2	COOLANT PLUG	O RING FOR COOLANT PLUG	O RING FOR COOLANT PLUG
						
115-53030	32	811-102037	811-104021	823-301260	822-10208	823-101017

COD.	COOLANT NOZZLE	STOP NUT	INSERT FOR STOP NUT	SCREW FOR STOP NUT	SCREW FOR STOP NUT (M6x6)	SCREW FOR STOP NUT (M6X8)	O RING VDI30
							
115-53030	833-001110	832-003301	832-003302	811-101021	811-102017	811-102018	823-101017





COD.	CLAMPING SCREW	COVER INTERNAL COOLANT	SCREW FOR COVER	COOLANT NOZZLE	STOP NUT
					
115-53014	811-102037	832-003304	811-101016	833-001110	832-003301

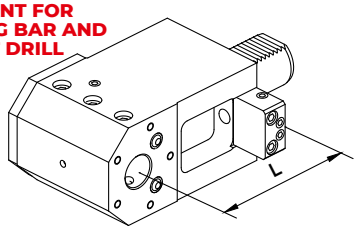
COD.	INSERT FOR STOP NUT	SCREW FOR STOP NUT	SCREW FOR STOP NUT (M6x6)	SCREW FOR STOP NUT (M6X8)	O RING VDI30
					
115-53014	832-003302	811-101021	811-102017	811-102018	823-101017

DMG MORI (VDI40) - CTX410 V4/V6 (option) - CTX420 V4/V6 - CTXBeta 500/800/1250 V4/V6 - TWIN42/65/102 RG2 - GMX250/300/400/500 - SPRINT65 (option)

RADIAL TURRET

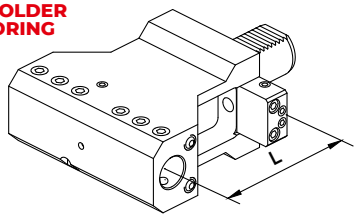


COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



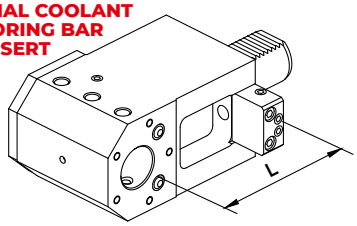
115-54130 (Ø25 - L=100)

TOOLHOLDER FOR BORING BAR



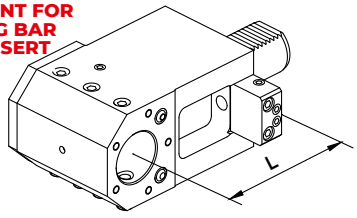
115-54133 (Ø25 - L=100)

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



115-54131 (Ø32 - L=100)
115-54078 (Ø25 - L=120)
115-54079 (Ø32 - L=120)

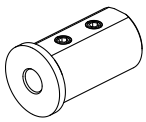
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



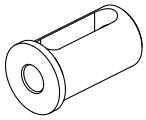
115-54132 (Ø40 - L=100)
115-54080 (Ø40 - L=120)

ACCESSORIES

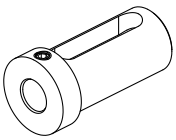
BORING BAR SLEEVE
p. 707



9600 (Ø25/Ø8)
9601 (Ø25/Ø10)
9602 (Ø25/Ø12)
9607 (Ø32/Ø8)
9608 (Ø32/Ø10)
9609 (Ø32/Ø12)
9615 (Ø40/Ø8)
9616 (Ø40/Ø10)
9617 (Ø40/Ø12)



9604 (Ø25/Ø16)
9606 (Ø25/Ø20)
9611 (Ø32/Ø16)
9613 (Ø32/Ø20)
9614 (Ø32/Ø25)
9619 (Ø40/Ø16)
9621 (Ø40/Ø20)
9622 (Ø40/Ø25)
9623 (Ø40/Ø32)

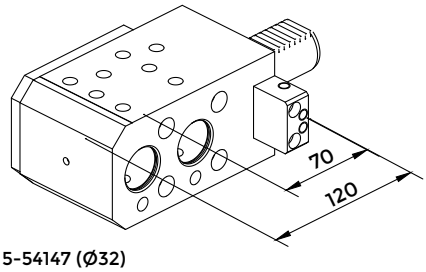


8754 (Ø20/Ø8)
8755 (Ø20/Ø10)
8756 (Ø20/Ø12)
8759 (Ø25/Ø12)
8761 (Ø25/Ø16)
8763 (Ø25/Ø20)
8764 (Ø32/Ø16)
8766 (Ø32/Ø20)
8767 (Ø32/Ø25)
8768 (Ø40/Ø16)
8770 (Ø40/Ø20)
8771 (Ø40/Ø25)
8772 (Ø40/Ø32)

FAST-IN p. 490
DRIVEN TOOLS p. 298

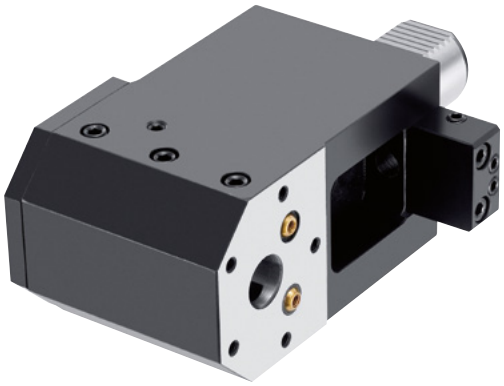


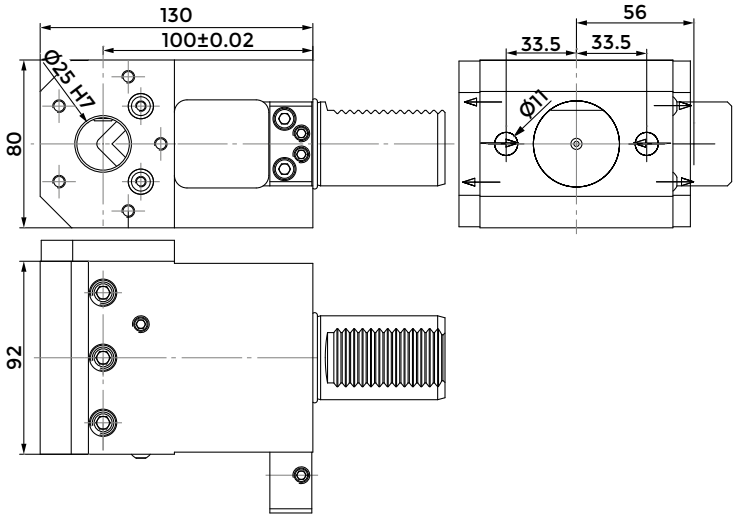
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

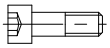


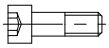
115-54147 (Ø32)

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



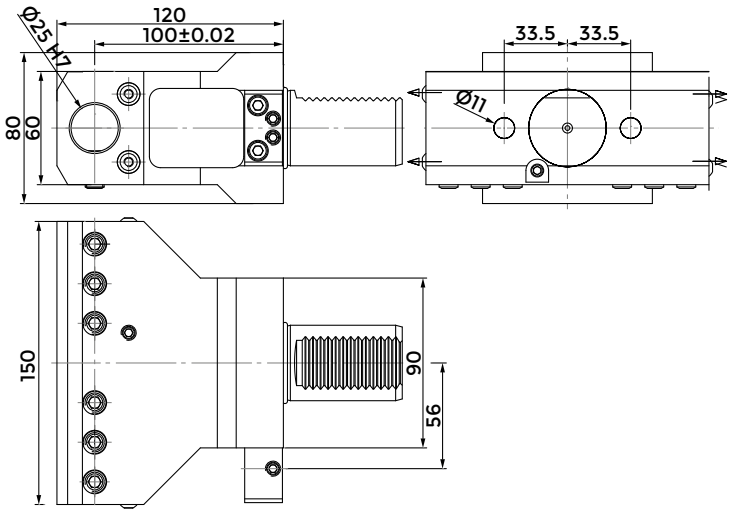


COD.	CLAMPING SCREW 1 (M12x25)	CLAMPING SCREW 2 (M10x25)	COVER INTERNAL COOLANT	SCREW FOR COVER	COOLANT NOZZLE
					
115-54130	811-102045	811-102039	832-003303	811-101027	833-001080

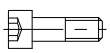
COD.	STOP NUT	INSERT FOR STOP NUT	SCREW FOR STOP NUT	SCREW FOR STOP NUT	O RING VDI40
					
115-54130	832-003237	832-003238	811-101032	811-102027	823-101036

TOOLHOLDER FOR BORING BAR



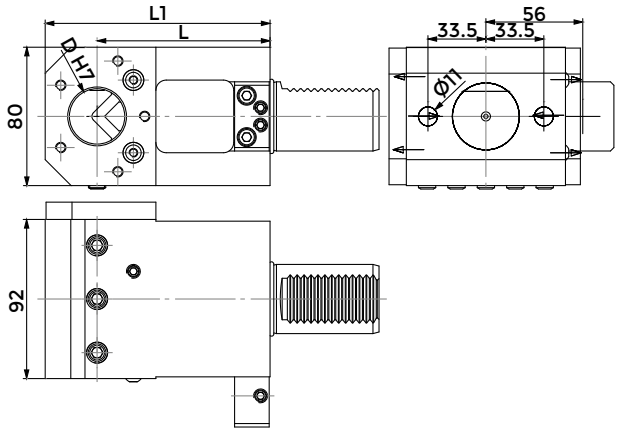


COD.	CLAMPING SCREW 1 (M12x16)	CLAMPING SCREW 2 (M10x20)	COOLANT NOZZLE	STOP NUT
				
115-54133	811-102043	811-102038	833-001080	832-003237

COD.	INSERT FOR STOP NUT	SCREW FOR STOP NUT	SCREW FOR STOP NUT	O RING VDI40
				
115-54133	832-003238	811-101032	811-102027	823-101036

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

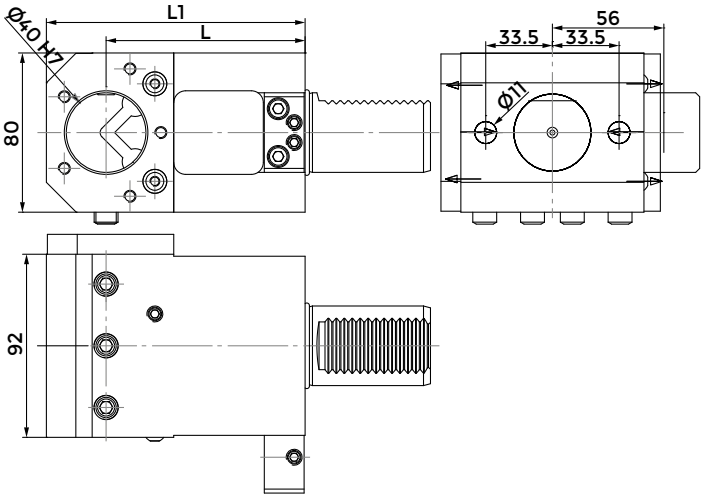




COD.	D	L	L1	CLAMPING SCREW 1 (M12x25)	CLAMPING SCREW 2 (M10x25)	COVER INTERNAL COOLANT	SCREW FOR COVER
115-54131	32	100	130	811-102044	811-102039	832-003303	811-101027
115-54078	25	120	150	811-102045	811-102039	832-003236	811-101027
115-54079	32	120	150	811-102044	811-102039	832-003236	811-101027

COD.	STOP NUT	INSERT FOR STOP NUT	SCREW FOR STOP NUT	SCREW FOR STOP NUT	O RING VDI40	COOLANT NOZZLE
115-54131	832-003237	832-003238	811-101032	811-102027	823-101036	833-001080
115-54078	832-003237	832-003238	811-101032	811-102027	823-101036	833-001080
115-54079	832-003237	832-003238	811-101032	811-102027	823-101036	833-001080

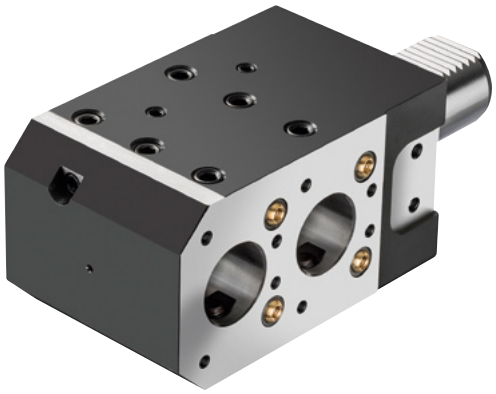


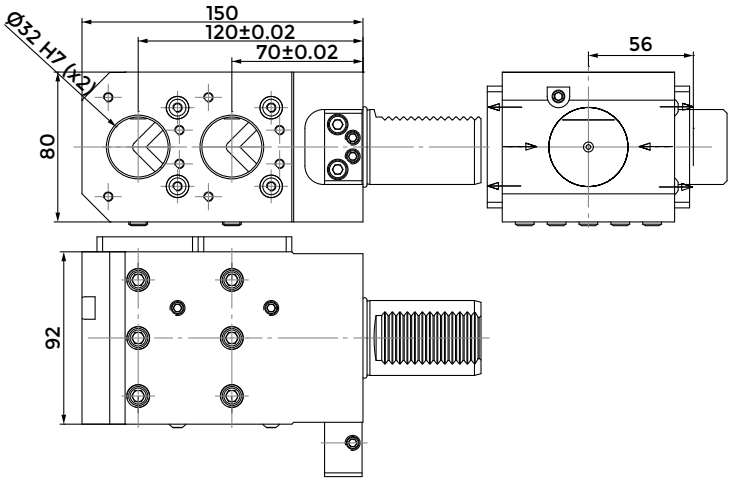


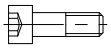
COD.	L	L1	CLAMPING SCREW 1 (M12x25)	CLAMPING SCREW 2 (M10x25)	COVER INTERNAL COOLANT	SCREW FOR COVER
115-54132	100	130	811-102044	811-102045	832-003303	811-101027
115-54080	120	150	811-102044	811-102045	832-003236	811-101027

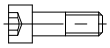
COD.	STOP NUT	INSERT FOR STOP NUT	SCREW FOR STOP NUT	SCREW FOR STOP NUT	O RING VDI40	COOLANT NOZZLE
115-54132	832-003237	832-003238	811-101032	811-102027	823-101036	833-001080
115-54080	832-003237	832-003238	811-101032	811-102027	823-101036	833-001080

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



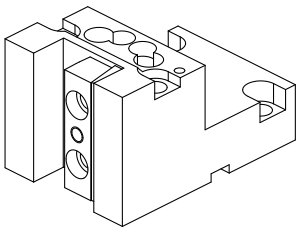


COD.	CLAMPING SCREW 1 (M12x25)	CLAMPING SCREW 2 (M10x25)	COVER 1 INTERNAL COOLANT	COVER 2 INTERNAL COOLANT	SCREW FOR COVER
					
115-54147	811-102044	811-102039	832-003318	832-003319	811-101017

COD.	STOP NUT	INSERT FOR STOP NUT	SCREW FOR STOP NUT	SCREW FOR STOP NUT	O RING VDI40	COOLANT NOZZLE
						
115-54147	832-003237	832-003238	811-101032	811-102027	823-101036	833-001080

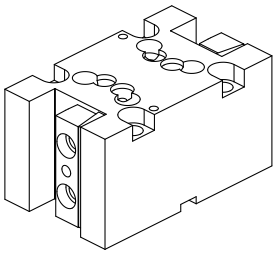
DMG MORI (BMT40) - NZ 1500/2000/3100 - NZ/NTZ 1000/2000/3000/3100/3150/3200 - NZ/NLX 2000/2500 (16 station turrent) - NZ/NLX 1500/2000/2500 (20 station turrent) - DURATURN 2050/2550 MC - LTX310ECO-BMT

FACE AND O.D. CUTTING HOLDER



KMS-T00224 (H70) - 20X20 mm

FACE AND O.D. CUTTING HOLDER



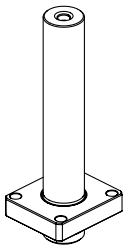
KMS-T00228 (H70) - 20x20 mm

QUALIFIED TOOL



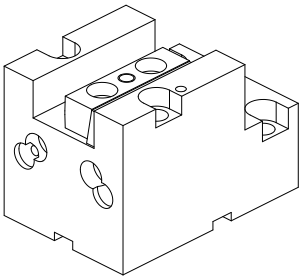
CONTROL PIN

p. 740



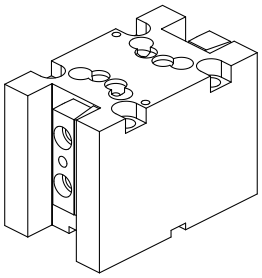
137-00193

FACE AND O.D. CUTTING HOLDER



KMS-T03017 - 20x20 mm

FACE AND O.D. CUTTING HOLDER



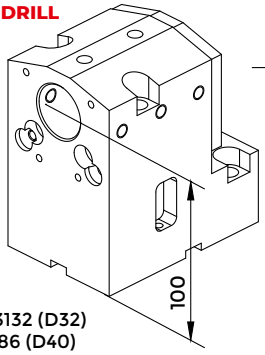
KMS-T00226 (H95) - 20x20 mm

ACCESSORIES

FAST-IN DRIVEN TOOLS

FAST-IN p. 490
DRIVEN TOOLS p. 298

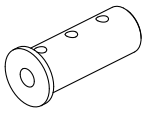
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



KMS-T13132 (D32)
137-00286 (D40)

BORING BAR SLEEVE

p. 720

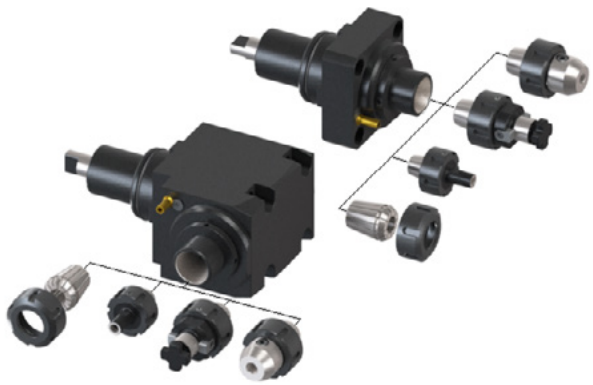


D32

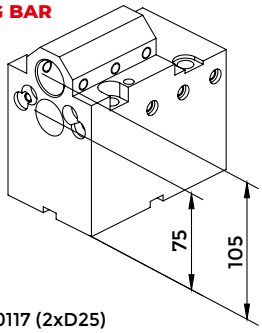
8946 (Ø25 mm)
8945 (Ø20 mm)
8944 (Ø16 mm)
8943 (Ø12 mm)
8942 (Ø10 mm)
8941 (Ø8 mm)

D40

5906 (Ø32 mm)
5905 (Ø25 mm)
5904 (Ø20 mm)
5903 (Ø16 mm)
5902 (Ø12 mm)
5901 (Ø10 mm)
5900 (Ø8 mm)

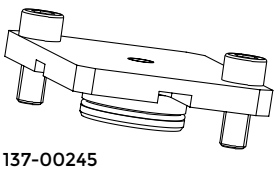


TOOLHOLDER FOR BORING BAR



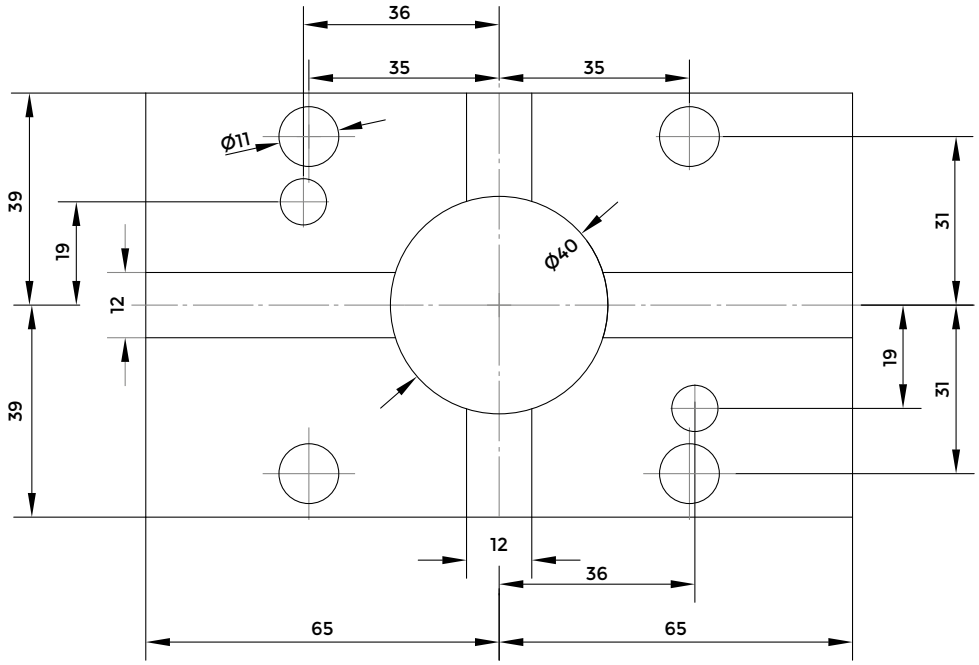
KMS-T10117 (2xD25)

PROTECTION COVER

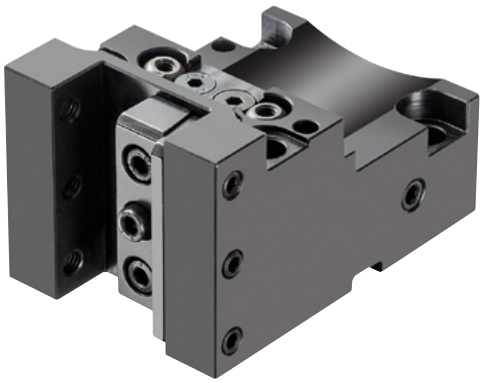


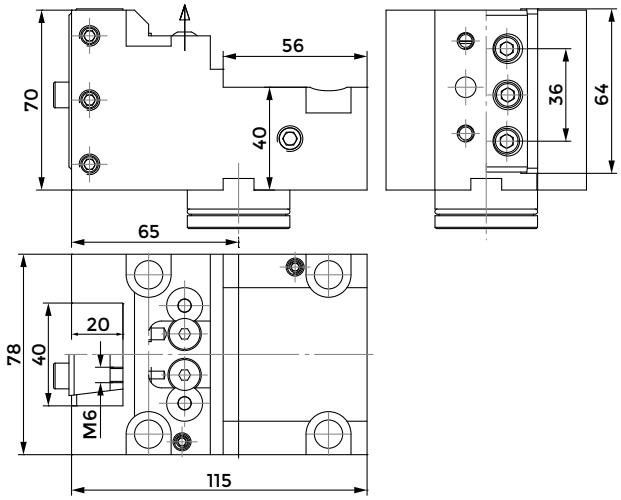
137-00245

CONNECTION



RADIAL TOOLHOLDER

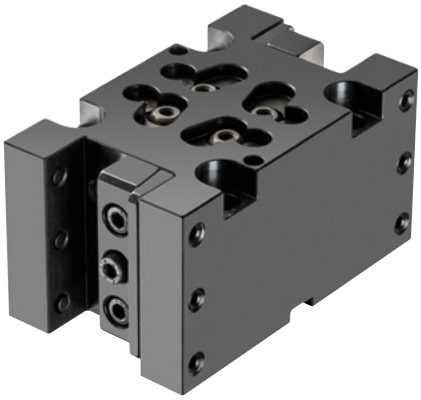


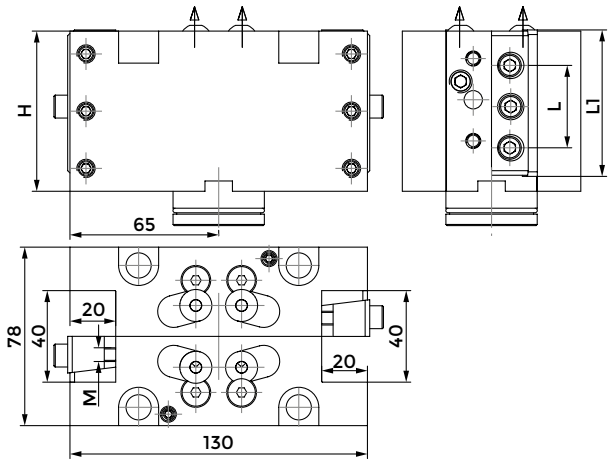


COD.	CLAMPING PLATE	CLAMPING SCREW	SCREW FOR DISASSEMBLE	COOLANT BALL
KMS-T00224	832-020460	811-102029	811-104016	833-001470

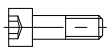
COD	SCREW FOR BALL	CENTRAL PIN	SCREW FOR PIN	O RING FOR PIN (36x2)	O RING FOR PIN (28X2)
KMS-T00224	811-108018	832-020451	811-101029	823-101016	823-101018

RADIAL TOOLHOLDER

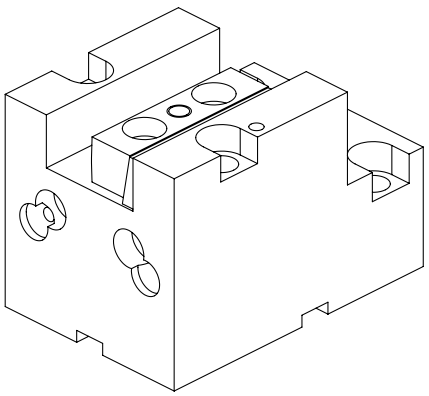


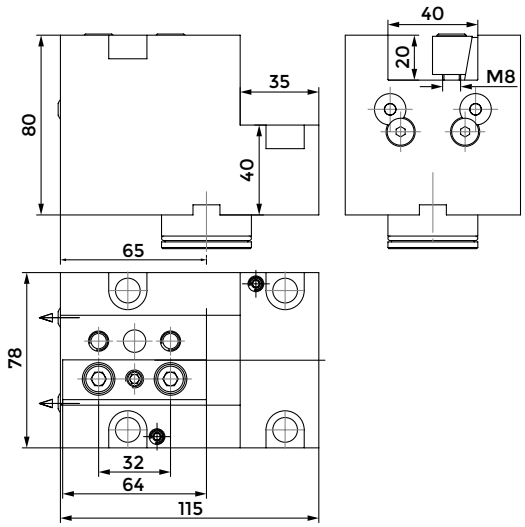


COD.	H	L	L1	M	CLAMPING PLATE	CLAMPING SCREW	SCREW FOR DISASSEMBLE	COOLANT BALL
								
KMS-T00226	95	32	64	M8	832-020400	-	811-102023	833-001470
KMS-T00228	70	36	64	M6	832-020460	811-102029	811-104016	833-001470

COD.	SCREW FOR BALL	CENTRAL PIN	SCREW FOR PIN	O RING FOR PIN (36x2)	O RING FOR PIN (28X2)
					
KMS-T00226	811-108018	832-020121	811-101029	823-101016	823-101018
KMS-T00228	811-108018	832-020451	811-101029	823-101016	823-101018

AXIAL TOOLHOLDER



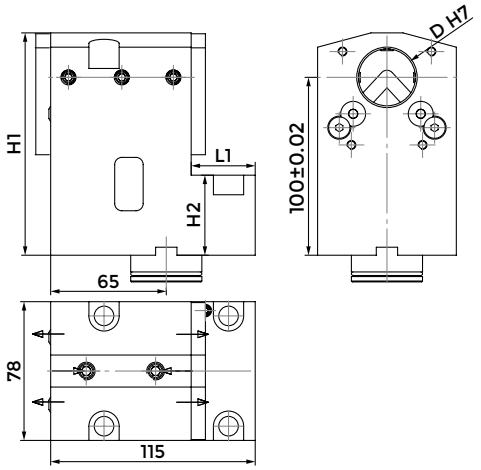


COD.	CLAMPING PLATE	SCREW FOR DISASSEMBLE	COOLANT BALL	SCREW FOR BALL
				
KMS-T03017	832-020400	811-102023	833-001470	811-108018

COD.	CENTRAL PIN	SCREW FOR PIN	O RING FOR PIN (36x2)	O RING FOR PIN (28X2)
				
KMS-T03017	832-020121	811-101029	823-101016	823-101018

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

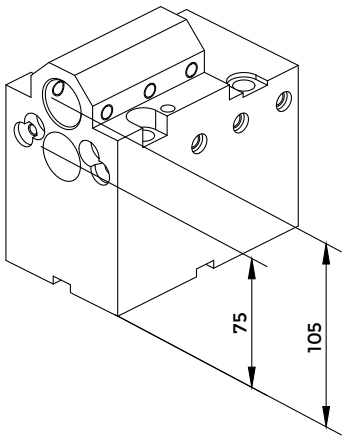


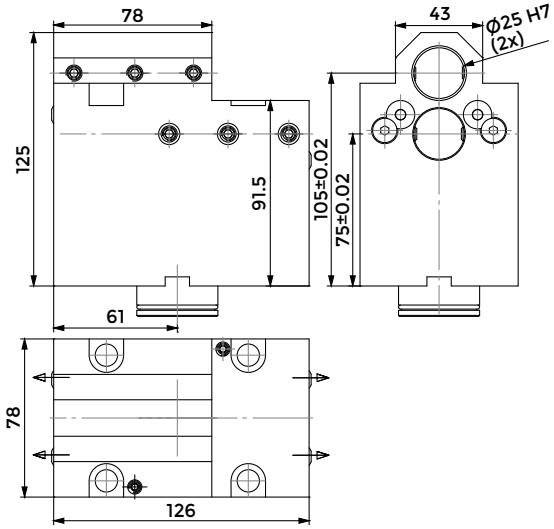


COD.	D	H1	H2	L1	CLAMPING SCREW 1 (D32 M8X20) - (D40 M10X20)	CLAMPING SCREW 2 (M10X10)	SCREW FOR DISASSEMBLE	COOLANT BALL	SCREW FOR BALL
KMS-T13132	32	125	45	36	811-102030	811-102035	811-102023	833-001470	811-108018
137-00286	40	129	33	26	811-102038	811-102035	811-102023	833-001470	811-108018

COD.	CENTRAL PIN	SCREW FOR PIN	O RING FOR PIN (36x2)	O RING FOR PIN (28X2)	COVER	SCREW FOR COVER
KMS-T13132	832-020121	811-101029	823-101016	823-101018	832-003378	811-101016
137-00286	832-020121	811-101029	823-101016	823-101018	832-003404	811-101016

TOOLHOLDER FOR BORING BAR

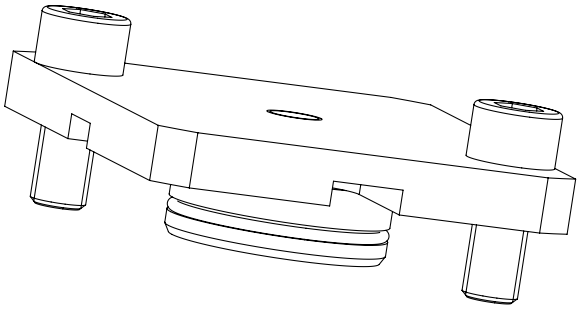


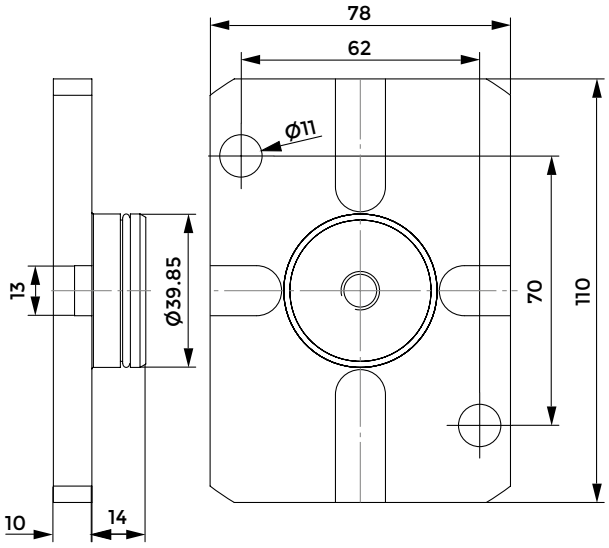


COD.	CLAMPING SCREW 1 (M8X25)	CLAMPING SCREW 2 (M8X20)	CLAMPING SCREW 3 (M8X10)	SCREW FOR DISASSEMBLE
KMS-T10117	811-102031	811-102030	811-102027	811-102023

COD.	COOLANT BALL	SCREW FOR BALL	CENTRAL PIN	SCREW FOR PIN	O RING FOR PIN (36x2)	O RING FOR PIN (28X2)
KMS-T10117	833-001470	811-108018	832-020121	811-101029	823-101016	823-101018

PROTECTION COVER



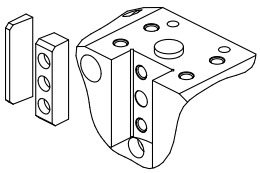


COD.	O RING
137-00245	823-101016

DMG MORI (BMT60) - NLX1500 (12 stazioni) - NLX2000 - NLX2500 - NLX3000 - NLX4000 - NL2000 (S)MC NL2500 (S)MC - NL3000MC (12 stazioni) - NT3250 - NT4200 - NT4250 - NT4300 - NT5400 - NZL2500 - NT4000 NT5000 NZL 2000/2500 - NZX2500 (station turret) - NTX 2000/2500/3000 - 2ND GEN. 10 ST. - (TX2500 BMT60)

GOODWAY - G4/G5 200 - 2600/280 - 3000/3300 - 3600 - GS2000 SERIE - GS3000 SERIE - GS4000 SERIE

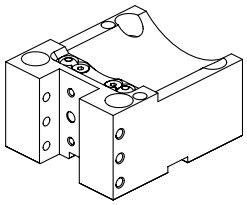
DIRECT MONTING ON TURRET



832-018722 - 25 mm

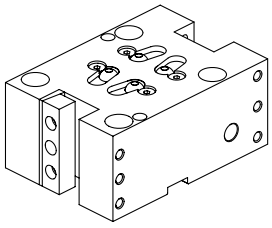
832-018721 - 25 mm

FACE AND O.D. CUTTING HOLDER



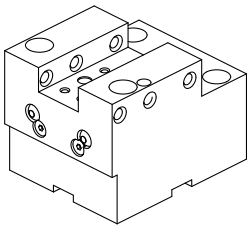
KMS-T00186
25x25 mm

FACE AND O.D. CUTTING HOLDER



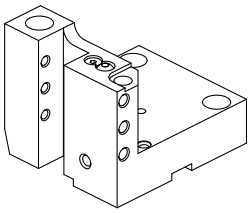
KMS-T00184
25x25 mm

FACE AND O.D. CUTTING HOLDER



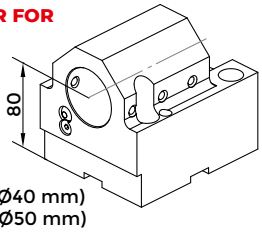
KMS-T03005
25x25 mm

FACE AND O.D. CUTTING HOLDER



KMS-T00197
25x25 mm

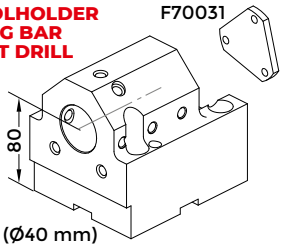
TOOLHOLDER FOR BORING BAR



KMS-T10097 (Ø40 mm)
KMS-T10098 (Ø50 mm)

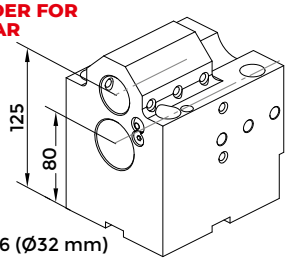
COMBI TOOLHOLDER FOR BORING BAR AND INSERT DRILL

F70031



KMS-T13128 (Ø40 mm)
(INTERNAL COOLANT)

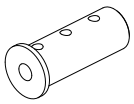
TOOLHOLDER FOR BORING BAR



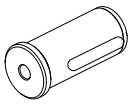
KMS-T10096 (Ø32 mm)

ACCESSORIES

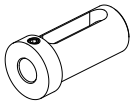
BORING BAR SLEEVE
p. 707



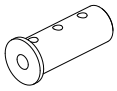
5906 (Ø32 mm)
5905 (Ø25 mm)
5904 (Ø20 mm)
5903 (Ø16 mm)
5902 (Ø12 mm)
5901 (Ø10 mm)
5900 (Ø8 mm)



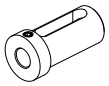
8969 (MT3)
8959 (MT2)



8768 (Ø16 mm)
8770 (Ø20 mm)
8771 (Ø25 mm)
8772 (Ø32 mm)

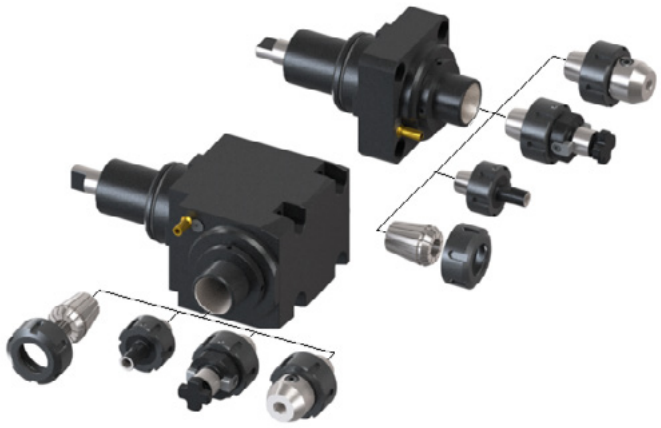


8946 (Ø25 mm)
8945 (Ø20 mm)
8944 (Ø16 mm)
8943 (Ø12 mm)
8942 (Ø10 mm)
8941 (Ø8 mm)

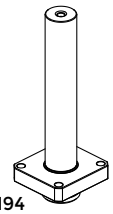


8764 (Ø16 mm)
8766 (Ø20 mm)
8767 (Ø25 mm)

FAST-IN p. 490
DRIVEN TOOLS p. 298

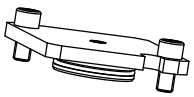


CONTROL PIN
p. 740



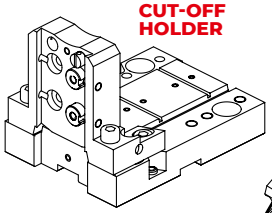
137-00194

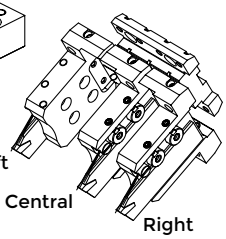
PROTECTION COVER



137-00246

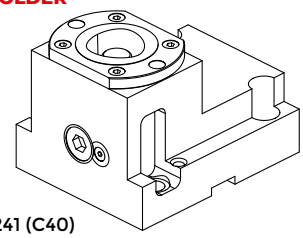
CUT-OFF HOLDER





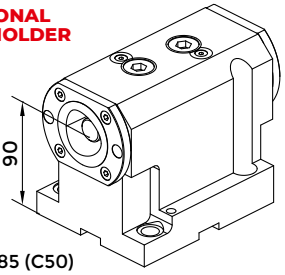
137-00092 (32 mm)

POLYGONAL TOOL HOLDER



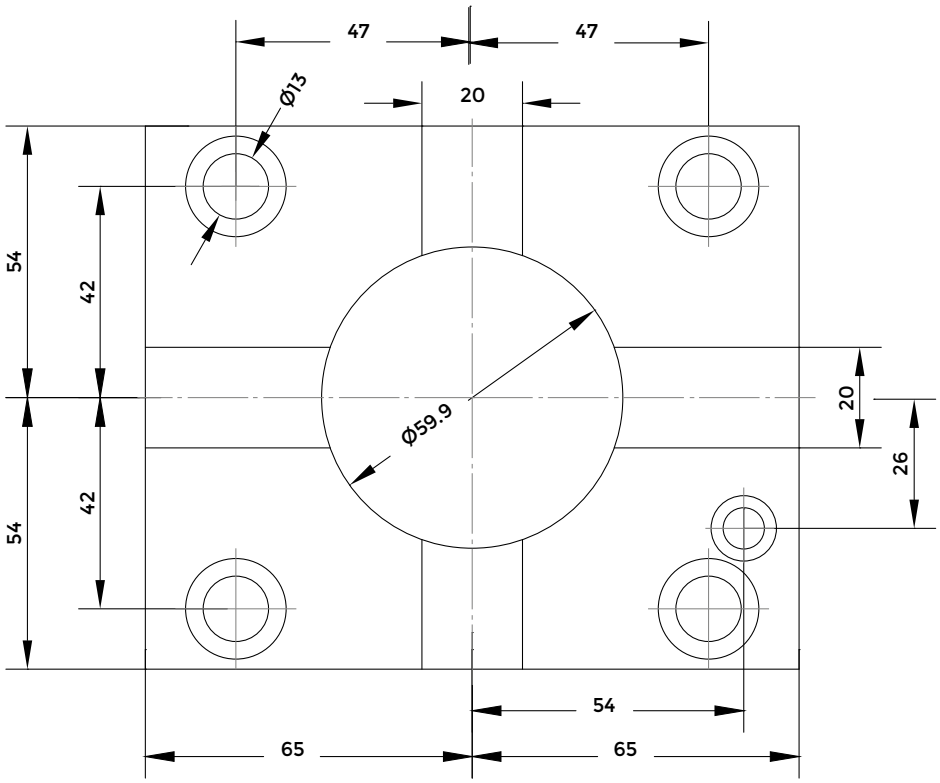
137-00241 (C40)

POLYGONAL TOOL HOLDER

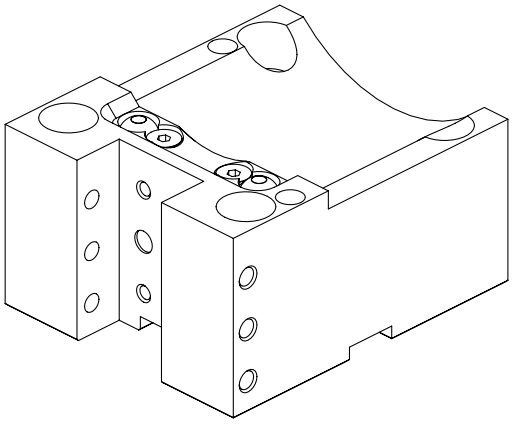


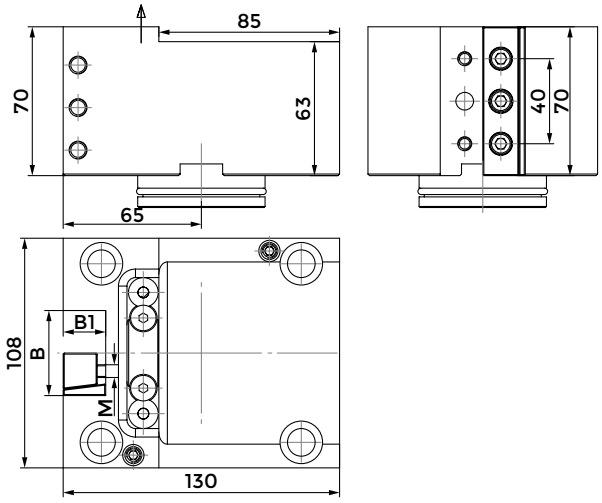
137-00185 (C50)

CONNECTION



RADIAL TOOLHOLDER

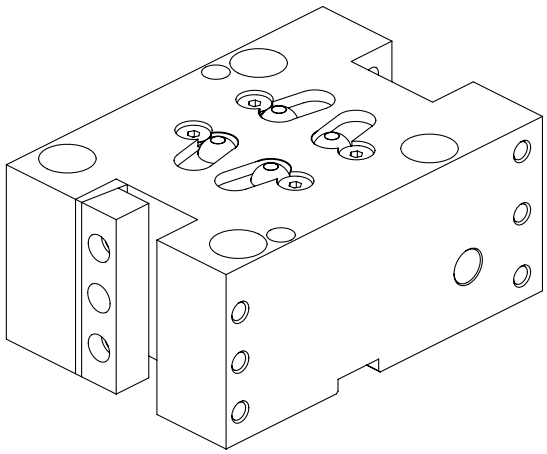


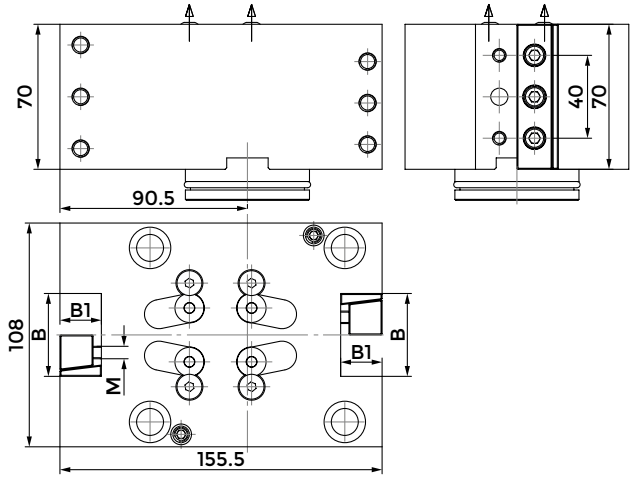


COD.	B	B1	M	CLAMPING PLATE	CLAMPING SCREW	SCREW FOR DISASSEMBLE	COOLANT BALL	SCREW FOR BALL
KMS-T00186	50	25	M8	832-018720	811-104021	811-102102	833-001470	811-108018

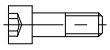
COD.	CENTRAL PIN	SCREW FOR PIN	O RING FOR PIN (54X3)	O RING FOR PIN (44.5X3)	O RING FOR COOLANT (9.25X1.78)
KMS-T00186	832-018741	811-101041	823-101077	823-101069	823-101076

RADIAL TOOLHOLDER

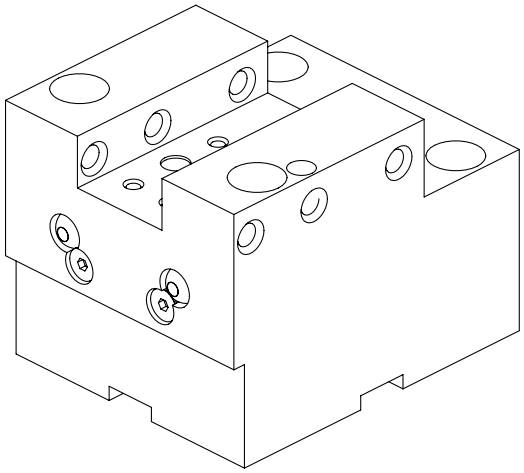


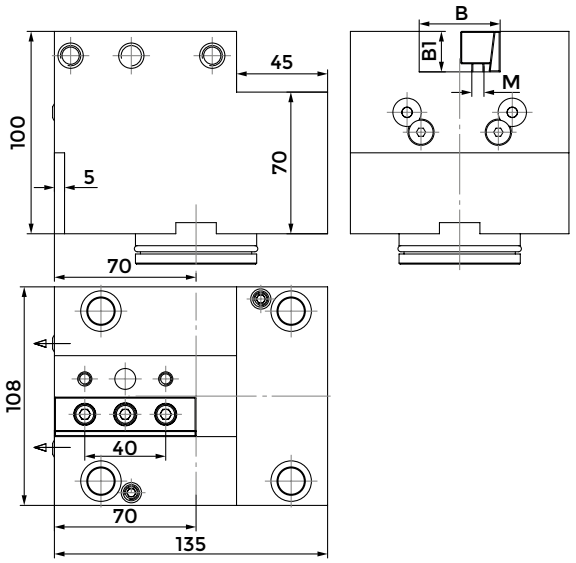


COD.	B	B1	M	CLAMPING PLATE	CLAMPING SCREW	SCREW FOR DISASSEMBLE	COOLANT BALL	SCREW FOR BALL
								
KMS-T00184	50	25	M8	832-018720	811-104021	811-102102	833-001470	811-108018

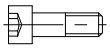
COD.	CENTRAL PIN	SCREW FOR PIN	O RING FOR PIN (54X3)	O RING FOR PIN (44.5X3)	O RING FOR COOLANT (9.25X1.78)
					
KMS-T00184	832-018741	811-101041	823-101077	823-101069	823-101076

AXIAL TOOLHOLDER

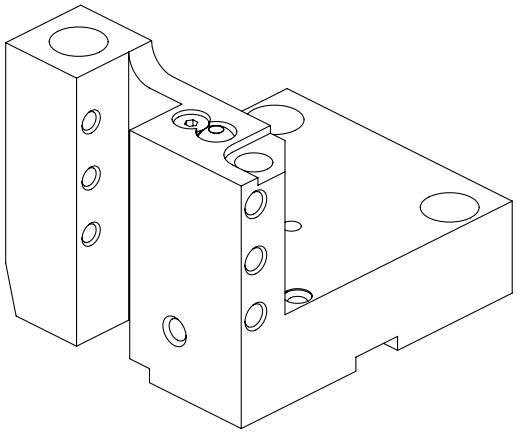


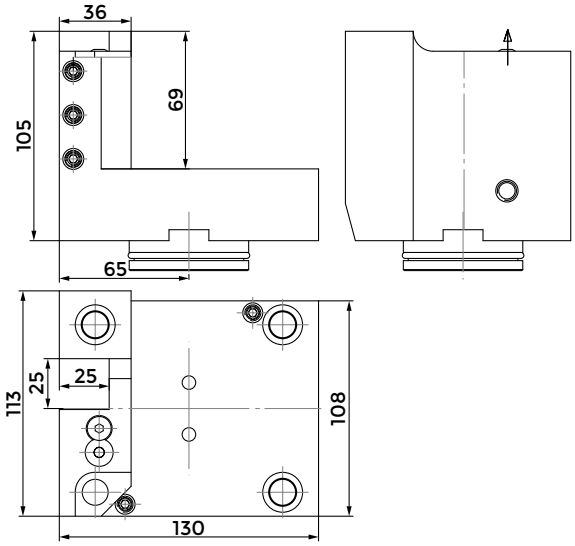


COD.	B	B1	M	CLAMPING PLATE	CLAMPING SCREW	SCREW FOR DISASSEMBLE	COOLANT BALL	SCREW FOR BALL
								
KMS-T03005	50	25	M8	832-018720	811-104030	811-102102	833-001470	811-108018

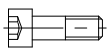
COD.	CENTRAL PIN	SCREW FOR PIN	O RING FOR PIN (54X3)	O RING FOR PIN (44.5X3)	O RING FOR COOLANT (9.25X1.78)
					
KMS-T03005	832-018741	811-101041	823-101077	823-101069	823-101076

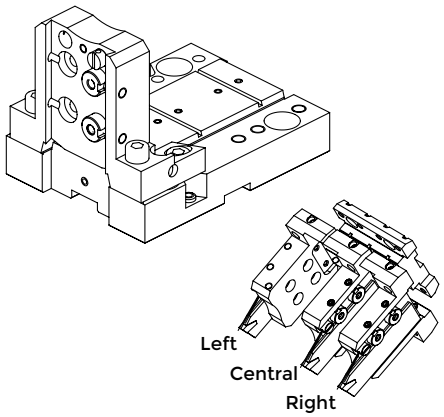
CUT-OFF HOLDER

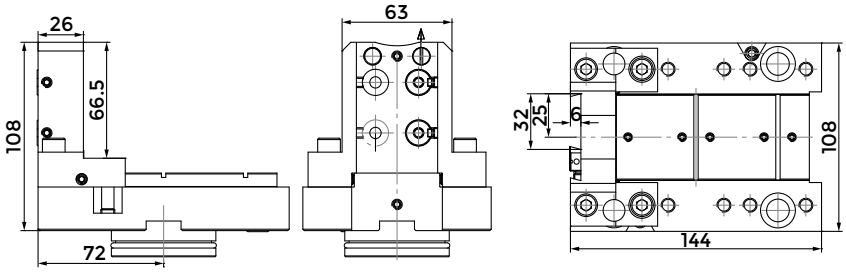




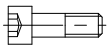
COD.	CLAMPING SCREW	SCREW FOR DISASSEMBLE	COOLANT BALL	SCREW FOR BALL
				
KMS-T00197	811-104021	811-102032	833-001470	811-108018

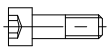
COD.	CENTRAL PIN	SCREW FOR PIN	O RING FOR PIN (54X3)	O RING FOR PIN (44.5X3)	O RING FOR COOLANT (9.25X1.78)
					
KMS-T00197	832-018741	811-101041	823-101077	823-101069	823-101076



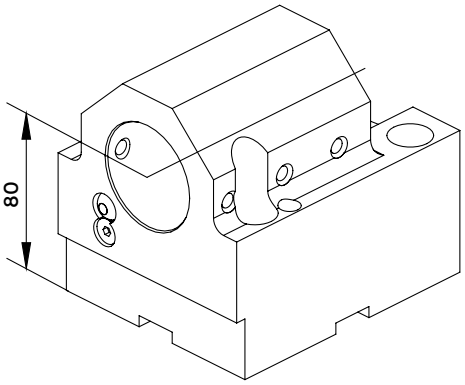


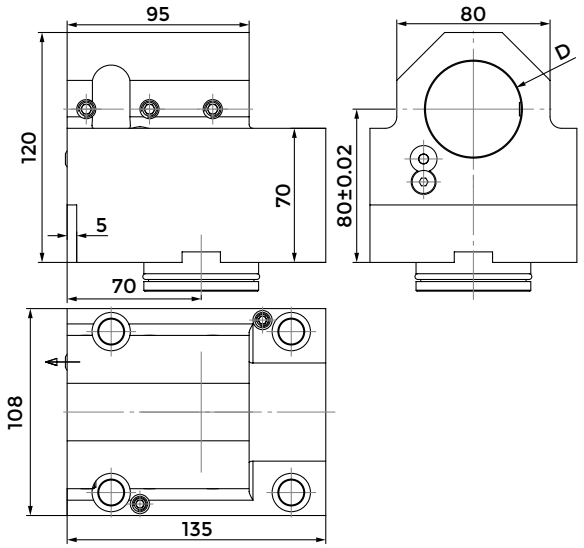
COD.	SCREW FOR DISASSEMBLE	COOLANT NOZZLE	O RING COOLANT BALL	O RING FOR BODY	SHIM PLATE
					
137-00092	811-102028	833-001490	823-101058	823-101061	832-014449

COD.	SCREW FOR PLATE	CLAMPING PIN	SPRING	CLAMPING SCREW	SCREW
					
137-00092	811-108037	832-014450	824-300012	811-101028	811-104013

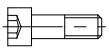
COD.	CENTRAL PIN	SCREW FOR PIN	O RING FOR PIN (54.5X3)	O RING FOR PIN (44.5X3)	O RING FOR COOLANT (9X2)
					
137-00092	832-018741	811-101041	823-101070	823-101069	823-101015

TOOLHOLDER FOR BORING BAR

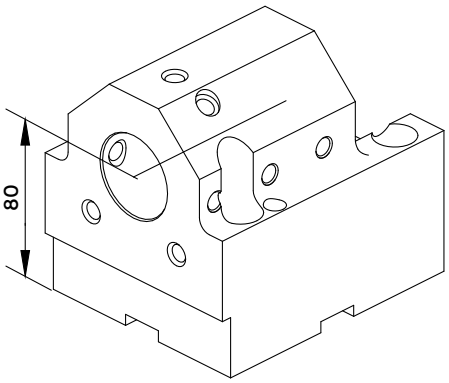


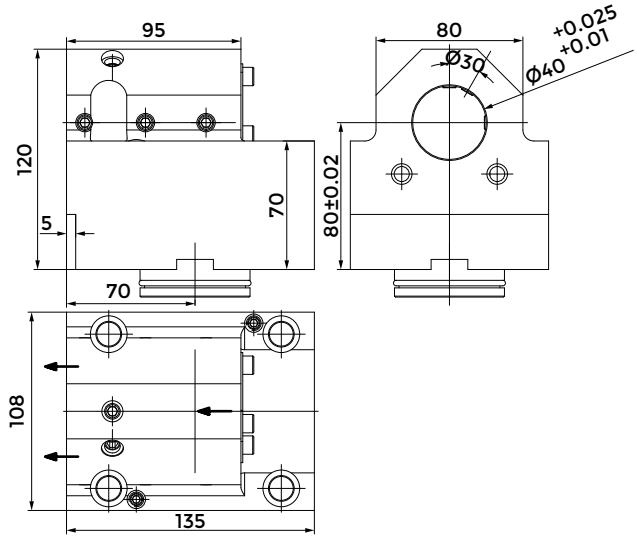


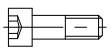
COD.	D	CLAMPING SCREW	SCREW FOR DISASSEMBLE	COOLANT BALL	SCREW FOR BALL
					
KMS-T10097	40	811-104028	811-102102	833-001470	811-108018
KMS-T10098	50	811-104028	811-102102	833-001470	811-108018

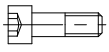
COD.	CENTRAL PIN	SCREW FOR PIN	O RING FOR PIN (54X3)	O RING FOR PIN (44.5X3)	O RING FOR COOLANT (9.25X1.78)
					
KMS-T10097	832-018741	811-101041	823-101077	823-101069	823-101076
KMS-T10098	832-018741	811-101041	823-101077	823-101069	823-101076

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

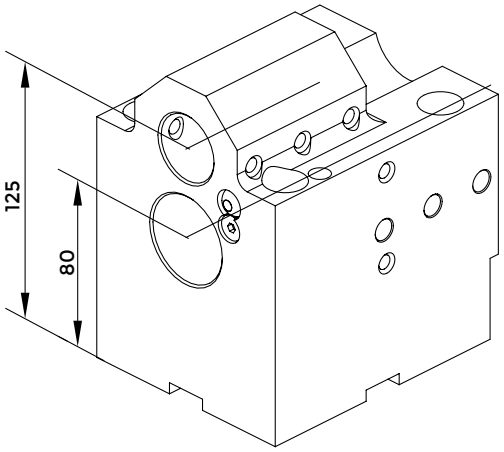


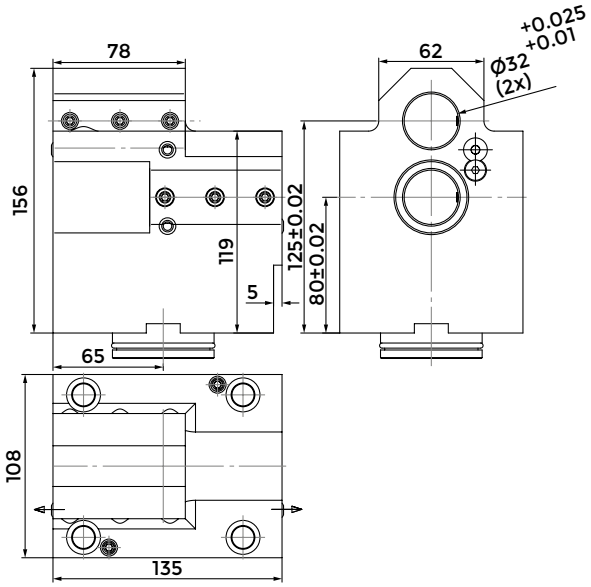


COD.	CLAMPING SCREW	SCREW FOR DISASSEMBLE	COVER F70031	SCREW FOR COVER	CENTRAL PIN
					
KMS-T13128	811-104028	811-102032	832-003229	811-101028	832-018741

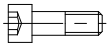
COD.	SCREW FOR PIN	O RING FOR PIN (54X3)	O RING FOR PIN (44.5X3)	O RING FOR COOLANT (9.25X1.78)
				
KMS-T13128	811-101041	823-101077	823-101069	823-101076

DOUBLE TOOLHOLDER FOR BORING BAR

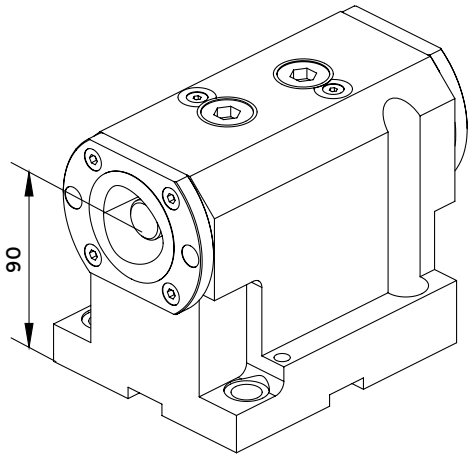


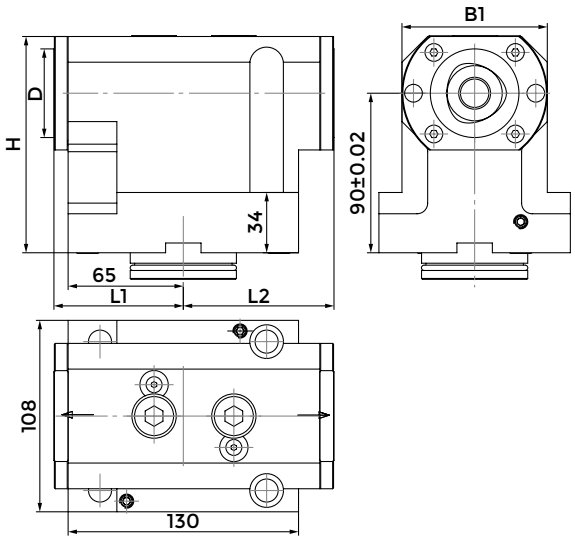


COD.	CLAMPING SCREW	SCREW FOR DISASSEMBLE	COOLANT BALL	SCREW FOR BALL	CENTRAL PIN
					
KMS-T10096	811-104021	811-102102	833-001470	811-108018	832-018741

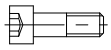
COD.	SCREW FOR PIN	O RING FOR PIN (54X3)	O RING FOR PIN (44.5X3)	O RING FOR COOLANT (9.25X1.78)
				
KMS-T10096	811-101041	823-101077	823-101069	823-101076

POLYGONAL TOOLHOLDER

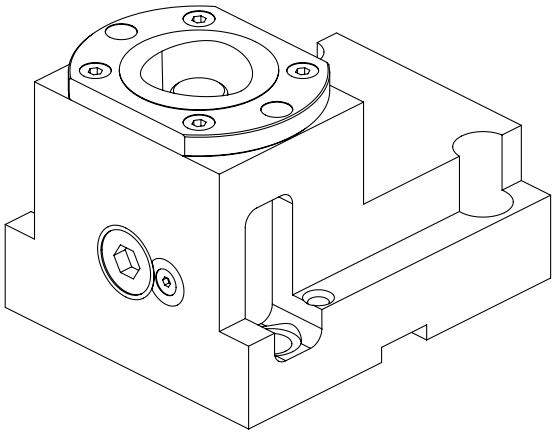


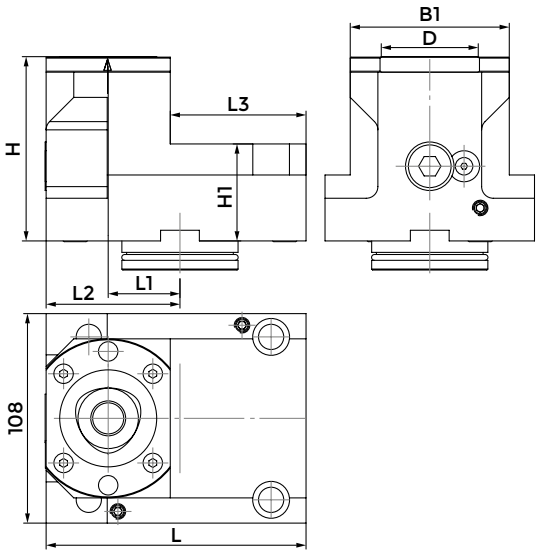


COD.	POLYGONAL	D	D	H	L1	B1	CLAMPING UNIT	SCREW FOR DISASSEMBLE	CENTRAL PIN
									
137-00185	C50	50	122	73	85	82	CXC50-10	811-102032	832-018741

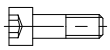
COD.	SCREW FOR PIN	O RING FOR PIN (54X3)	O RING FOR PIN (44.5X3)	COOLANT PLUG (9.25X1.78)
				
137-00185	811-101041	823-101077	823-101069	823-101076

POLYGONAL TOOLHOLDER

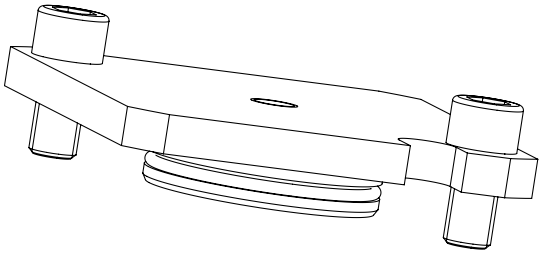


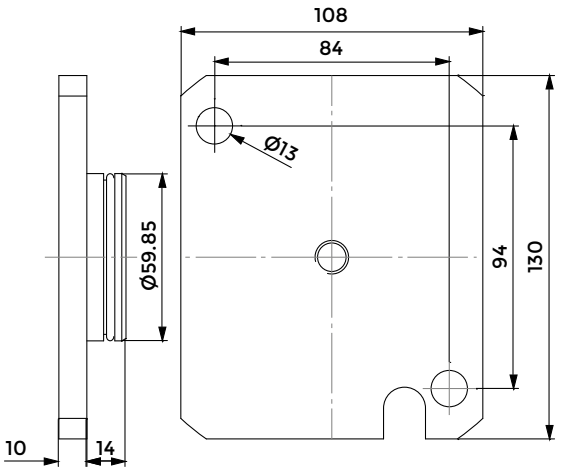


COD.	POLYGONAL	D	H	H1	L	L1	L2	L3	B1	CLAMPING UNIT	SCREW FOR DISASSEMBLE
											
137-00241	C40	40	80	42	130	41	65	82	67	CXC40-10	811-102032

COD.	CENTRAL PIN	SCREW FOR PIN	O RING FOR PIN (54X3)	O RING FOR PIN (44.5X3)	O RING FOR COOLANT (9.25X1.78)
					
137-00241	832-018741	811-101041	823-101077	823-101069	823-101076

PROTECTION COVER





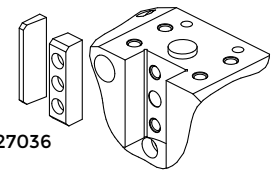
COD.	O RING
	
137-00246	823-101077

DMG MORI - CL 200/203 - SL 20/25 - SL 203/204/250/253 - SL 254 (MC, SMC)/2500Y - SL 203MC - SL 253MC ZL 200MC - ZL250SMC - SL204SMC - SL 300MC

CMZ - TBI 520 - TL 20/25 - TC 15/20/25/30/35 - TA 15M/Y/MS/MY/YS - TA 20M/Y/MS/MY/YS - TA25M/Y/MS/MY/YS TA 30M/Y/MS/MY/YS - TD 15/20/25/30/35/45 - TD 55M/Y/MS/MY/YS

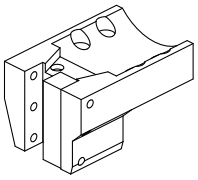
GOODWAY - GS 200/260/280 - GA 2000/2600/2800 - GA 3000/3300/3600

DIRECT MONTING ON TURRET



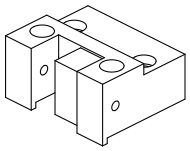
FACE AND O.D. CUTTING HOLDER

KMS-T00076
25x25 mm



FACE AND O.D. CUTTING HOLDER

KMS-T00174
25x25 mm

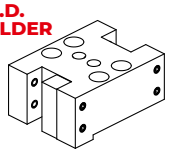


QUALIFIED TOOL



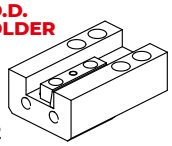
FACE AND O.D. CUTTING HOLDER

KMS-T00158
25x25 mm



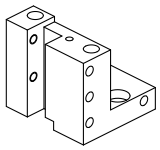
FACE AND O.D. CUTTING HOLDER

KMS-T00082
25x25 mm



CUT-OFF HOLDER

KMS-T00156
25x25 mm

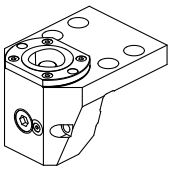


CUT-OFF TOOL



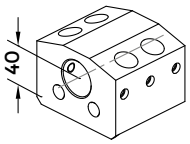
POLYGONAL TOOL HOLDER

128-12527 (C40)
128-12513 (C50)



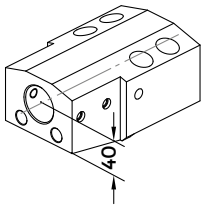
TOOLHOLDER FOR BORING BAR

KMS-T10036 (Ø40 mm)
KMS-T10044 (Ø50 mm)



TOOLHOLDER FOR BORING BAR

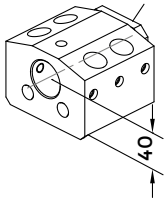
KMS-T10038 (Ø40 mm)
128-22519 (Ø50 mm)



COVER: 832-003063

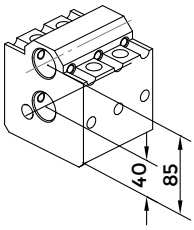
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

KMS-T13064
Ø40 mm



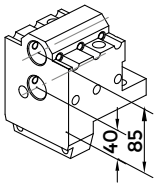
TOOLHOLDER FOR BORING BAR

KMS-T10086
Ø32 mm



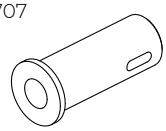
TOOLHOLDER FOR BORING BAR

KMS-T10208
Ø32 mm

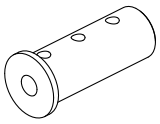


ACCESSORIES

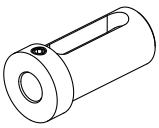
BORING BAR SLEEVE
p. 707



D40
8960 <MT3>
8959 <MT2>

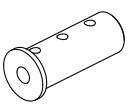


D40
5906 (Ø32 mm)
5905 (Ø25 mm)
5904 (Ø20 mm)
5903 (Ø16 mm)
5902 (Ø12 mm)
5901 (Ø10 mm)
5900 (Ø8 mm)

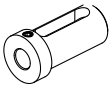


D40
8768 (Ø16 mm)
8770 (Ø20 mm)
8771 (Ø25 mm)
8772 (Ø40 mm)

D50
8773 (Ø25 mm)
8774 (Ø32 mm)
8775 (Ø40 mm)

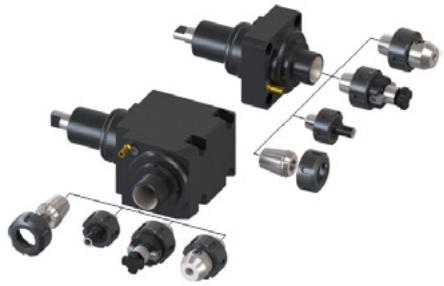


8946 (Ø25 mm)
8945 (Ø20 mm)
8944 (Ø16 mm)
8943 (Ø12 mm)
8942 (Ø10 mm)
8941 (Ø8 mm)

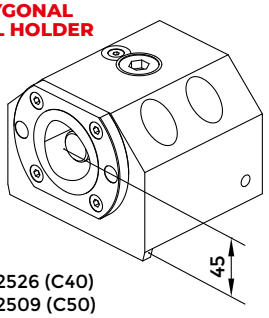


8764 (Ø16 mm)
8766 (Ø20 mm)
8767 (Ø25 mm)

FAST-IN p. 490
DRIVEN TOOLS p. 298

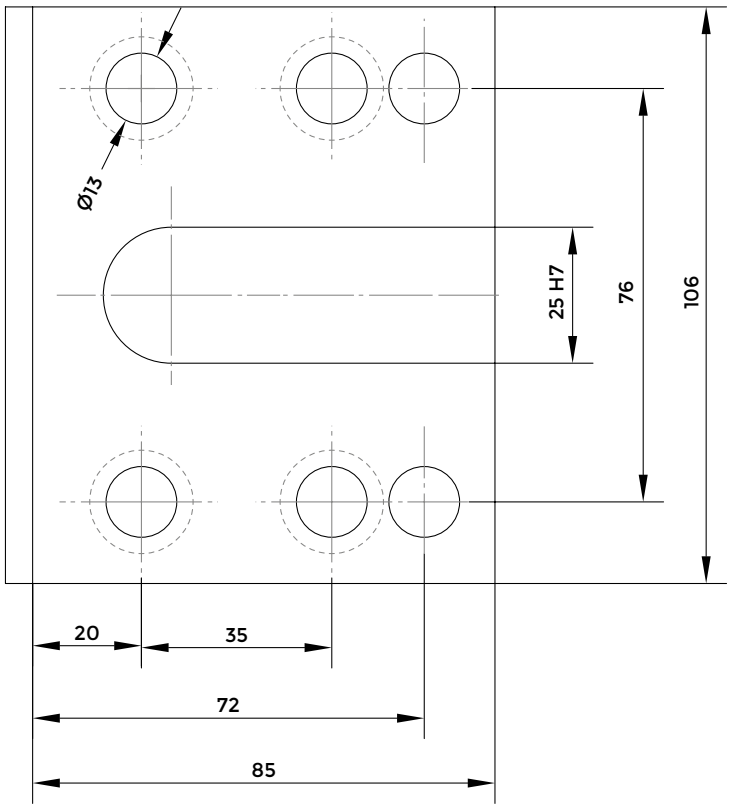


POLYGONAL TOOL HOLDER

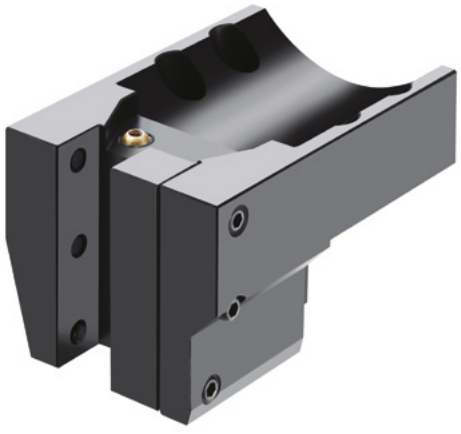


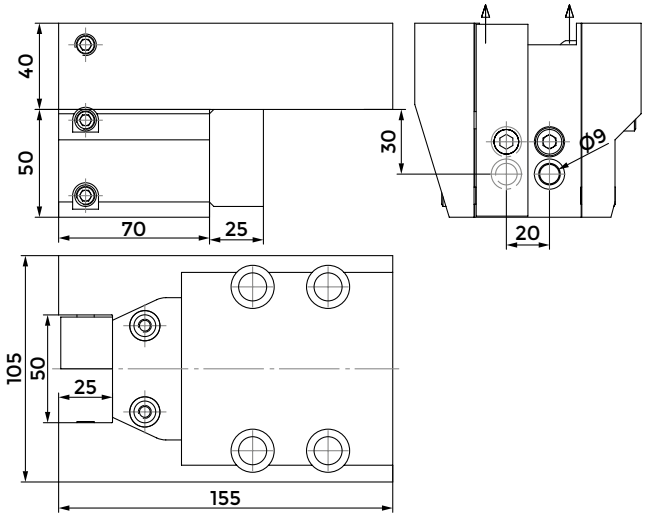
128-12526 (C40)
128-12509 (C50)

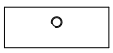
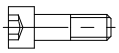
CONNECTION



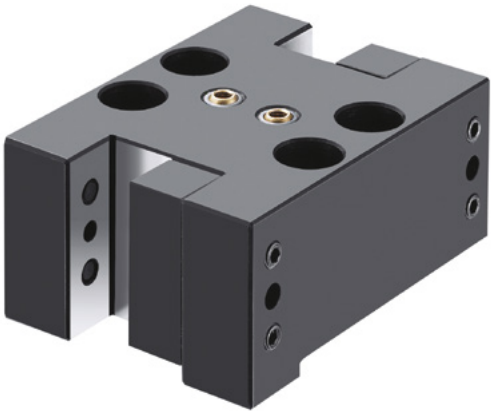
RADIAL TOOLHOLDER

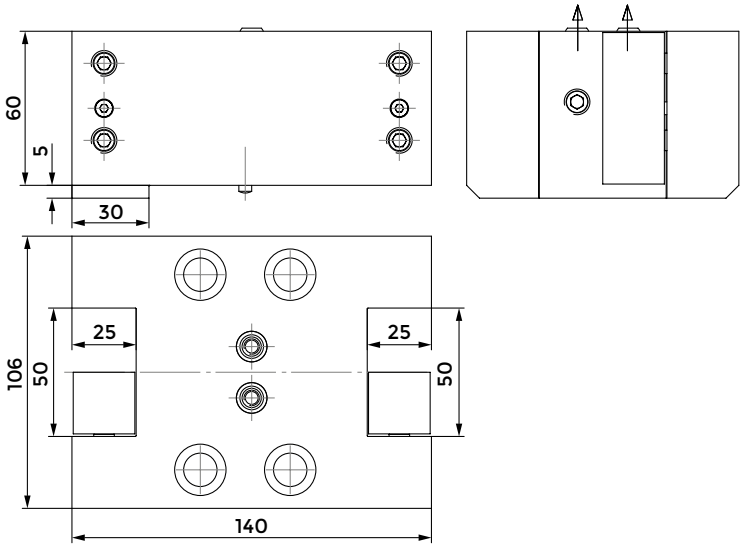


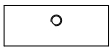
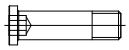
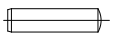


COD.	CLAMPING SCREW 1 (M10X25)	CLAMPING SCREW 2 (M10X16)	CLAMPING PLATE	COOLANT NOZZLE	SPACER	SCREW FOR SPACER
						
KMS-T00076	811-104030	811-104028	832-002117	833-001090	832-002116	811-101046

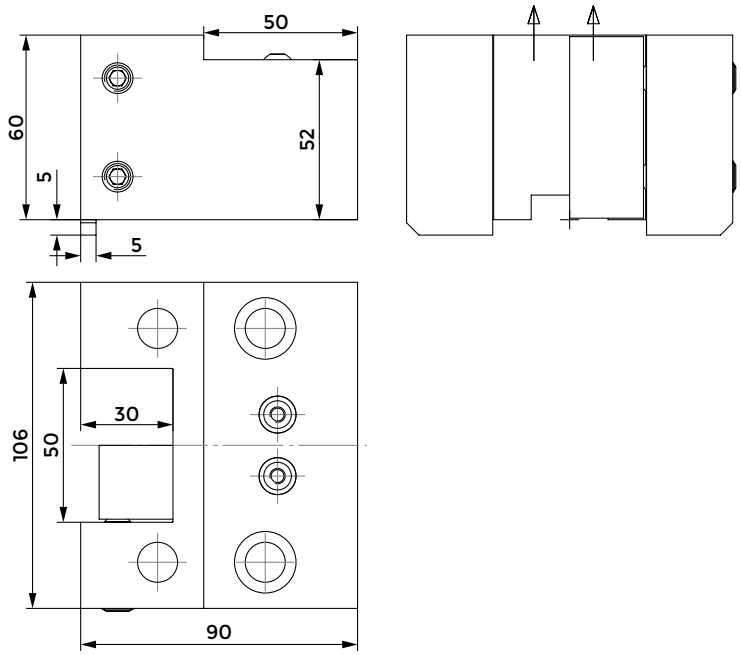
RADIAL TOOLHOLDER

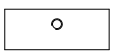




COD.	CLAMPING SCREW	CLAMPING PLATE	SCREW FOR CLAMPING PLATE	SPRING FOR CLAMPING PLATE	COOLANT NOZZLE	PIN
						
KMS-T00158	811-104030	832-002095	811-302004	824-101010	833-001110	815-220008

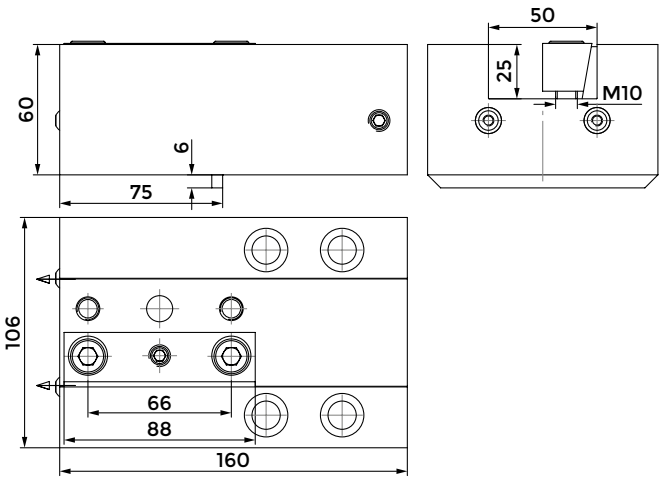




COD.	CLAMPING SCREW	CLAMPING PLATE	COOLANT NOZZLE
			
KMS-T00174	811-102040	832-002095	833-001080

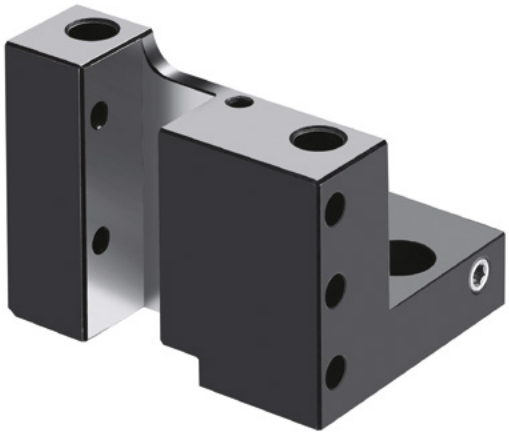
AXIAL TOOLHOLDER

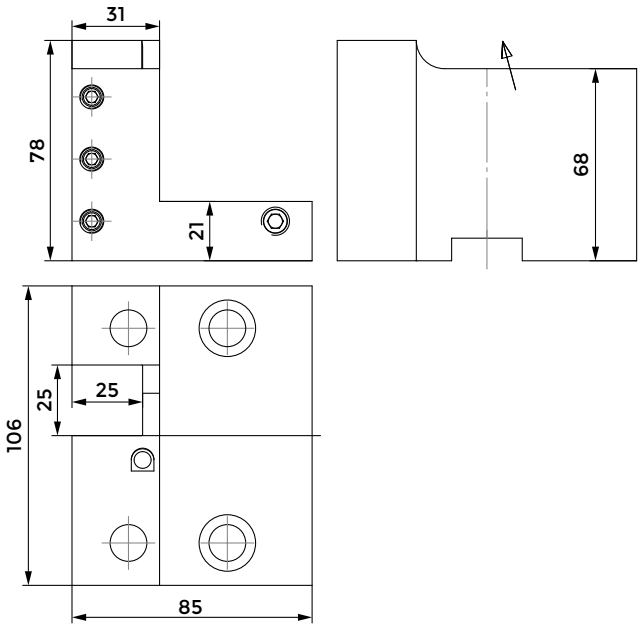




COD.	CLAMPING PLATE	COOLNT NOZZLE
		
KMS-T00082	832-007500	833-001080

CUT-OFF HOLDER

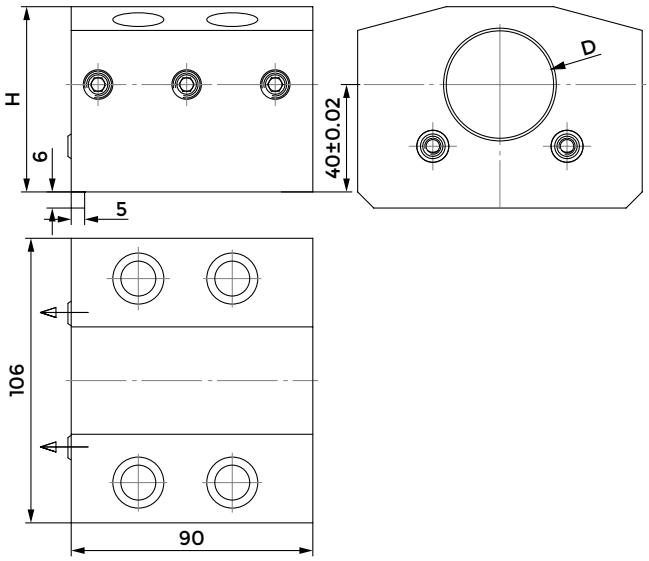




COD.	CLAMPING SCREW
	
KMS-T00156	811-104023

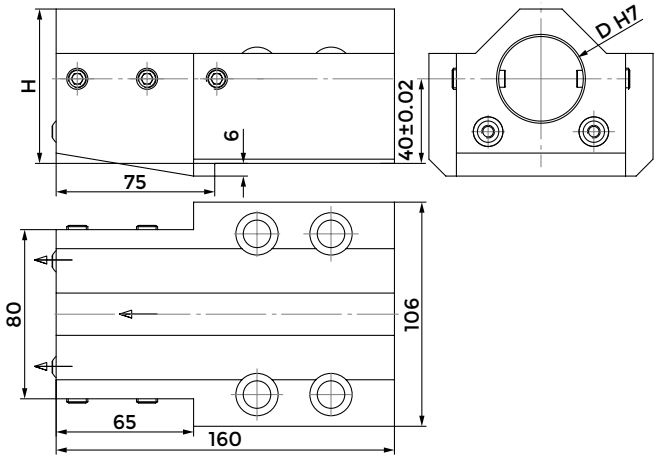
TOOLHOLDER FOR BORING BAR





COD.	D	H	CLAMPING SCREW	COOLANT NOZZLE
KMS-T10036	40	69	811-102039	833-001110
KMS-T10044	50	74	811-102038	833-001110

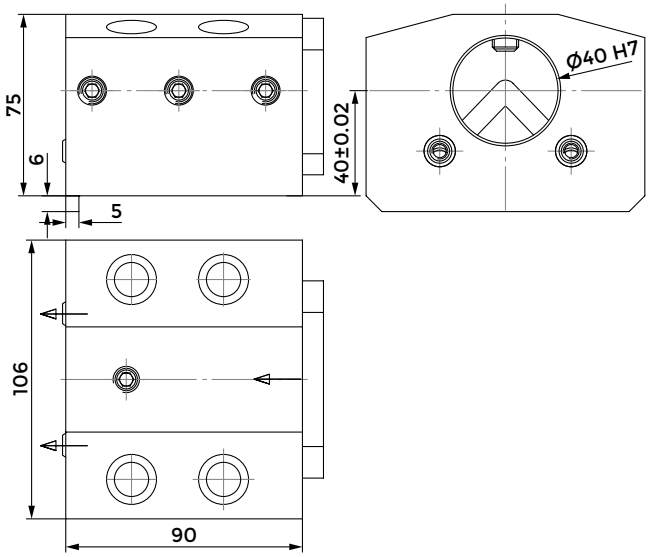


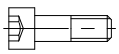


COD.	D	H	CLAMPING SCREW	CLAMPING SCREW	COOLANT NOZZLE
KMS-T10038	40	73	811-104030	-	833-001090
128-22519	50	76	-	811-102043	833-001090

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

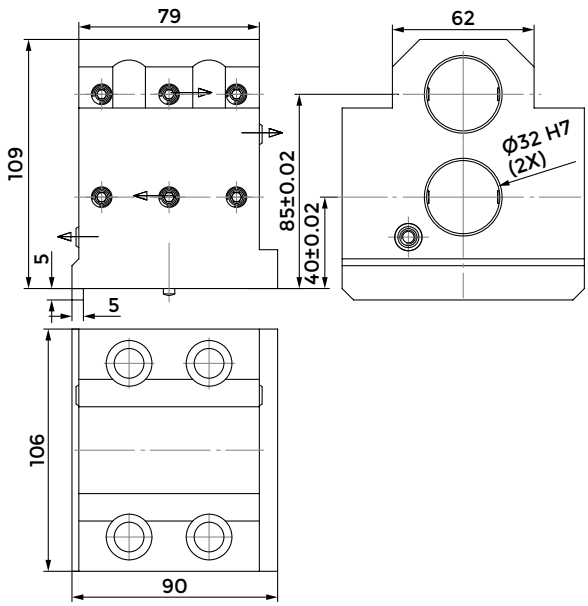


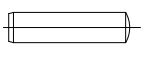


COD.	CLAMPING SCREW 1 (M10X25)	CLAMPING SCREW 2 (M10X14)	COOLANT NOZZLE	COVER	SCREW FOR COVER
					
KMS-T13064	811-102039	811-102060	833-001110	832-003063	811-101016

TOOLHOLDER FOR BORING BAR

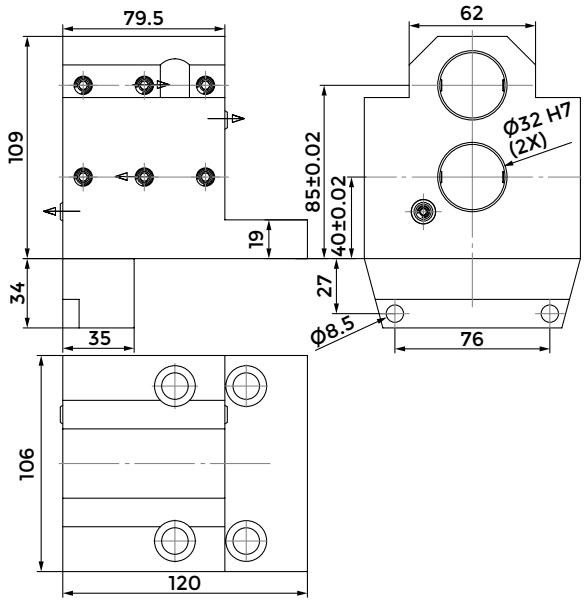




COD.	CLAMPING SCREW	COOLANT NOZZLE	PIN
			
KMS-T10086	811-104021	833-001110	815-210170

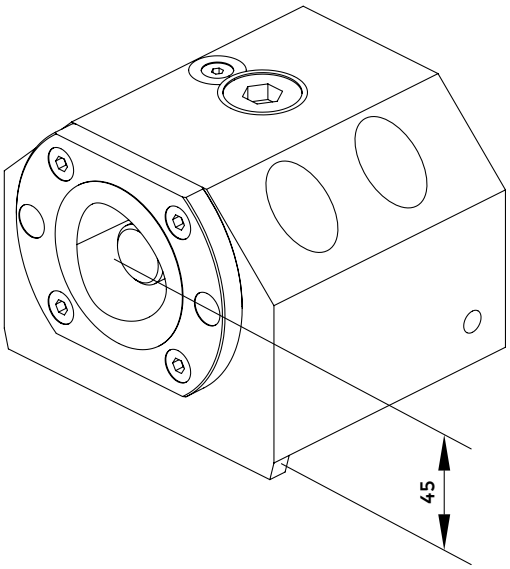
TOOLHOLDER FOR BORING BAR

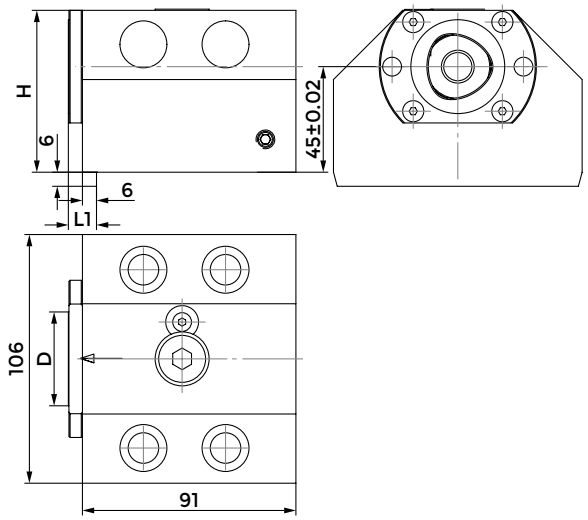




COD.	CLAMPING SCREW	COOLANT NOZZLE
		
KMS-T10208	811-104021	833-001110

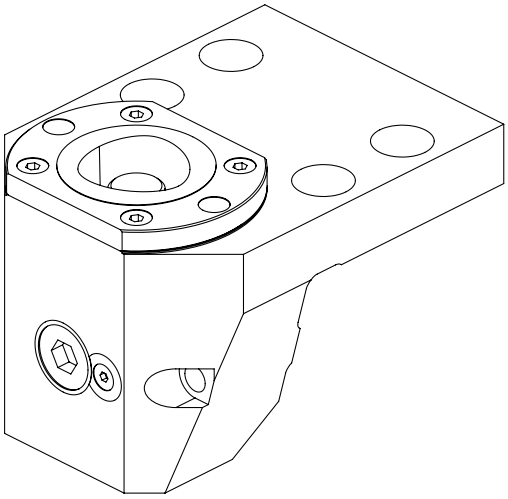
POLYGONAL TOOLHOLDER

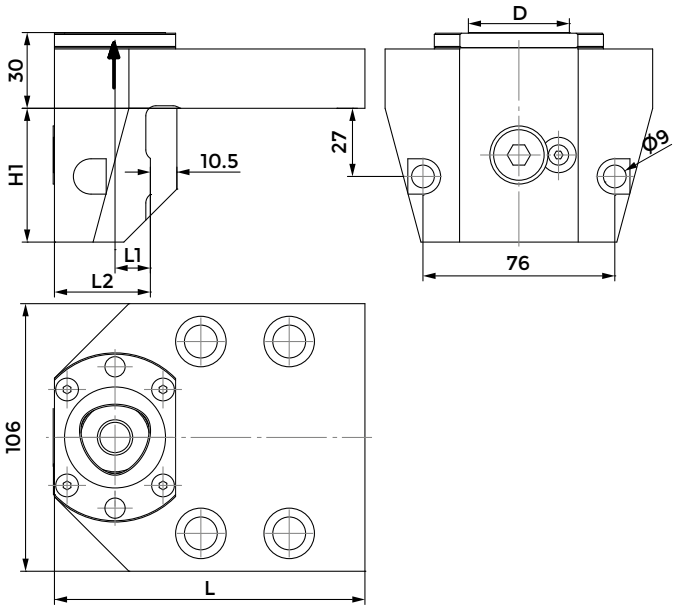




COD.	POLYGONAL	D	H	L1	CLAMPING UNIT
128-12526	C40	40	69	12	CXC40-10
128-12509	C50	50	77	14	CXC50-10

POLYGONAL TOOLHOLDER

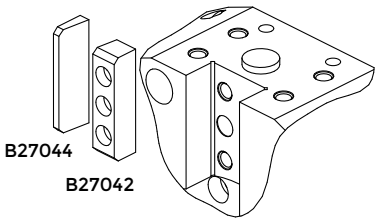




COD.	POLYGONAL	D	H1	L	L1	L2	CLAMPING UNIT
128-12527	C40	40	53	123	14	38	CXC40-10
128-12513	C50	50	65	139	22	54	CXC50-10

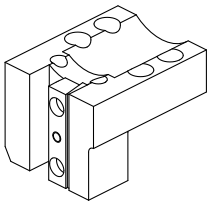
DMG MORI - SL150 - SL153 - ZL150 - CL150 - SL154 - SL153MC - ZL150MC - SL154MC
CMZ - TL15

DIRECT MONTING ON TURRET



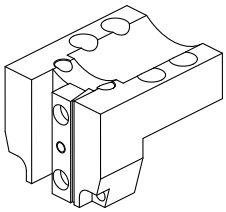
B27044
B27042

FACE AND O.D. CUTTING HOLDER (ONLY FOR CL150)



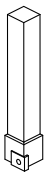
KMS-T00078
20x20 mm

FACE AND O.D. CUTTING HOLDER

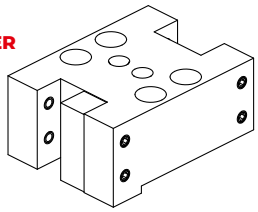


KMS-T00146
20x20 mm

QUALIFIED TOOL

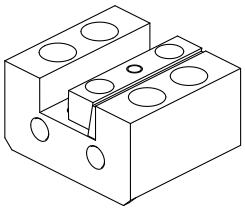


FACE AND O.D. CUTTING HOLDER



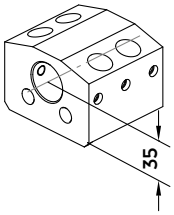
KMS-T00108
20x20 mm

FACE AND O.D. CUTTING HOLDER



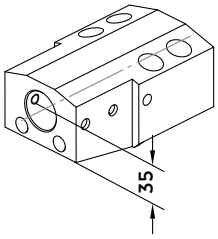
KMS-T00080
20x20 mm

TOOLHOLDER FOR BORING BAR



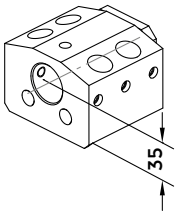
KMS-T10046
Ø32 mm

TOOLHOLDER FOR BORING BAR



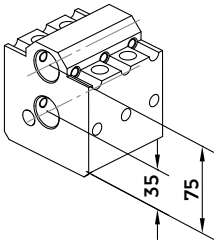
KMS-T10052
Ø32 mm

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



KMS-T13066
Ø32 mm

TOOLHOLDER FOR BORING BAR

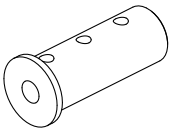


KMS-T10082
Ø25 mm

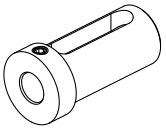
ACCESSORIES

BORING BAR SLEEVE

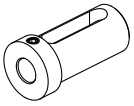
p. 707



8946 (Ø25 mm)
8945 (Ø20 mm)
8944 (Ø16 mm)
8943 (Ø12 mm)
8942 (Ø10 mm)
8941 (Ø8 mm)

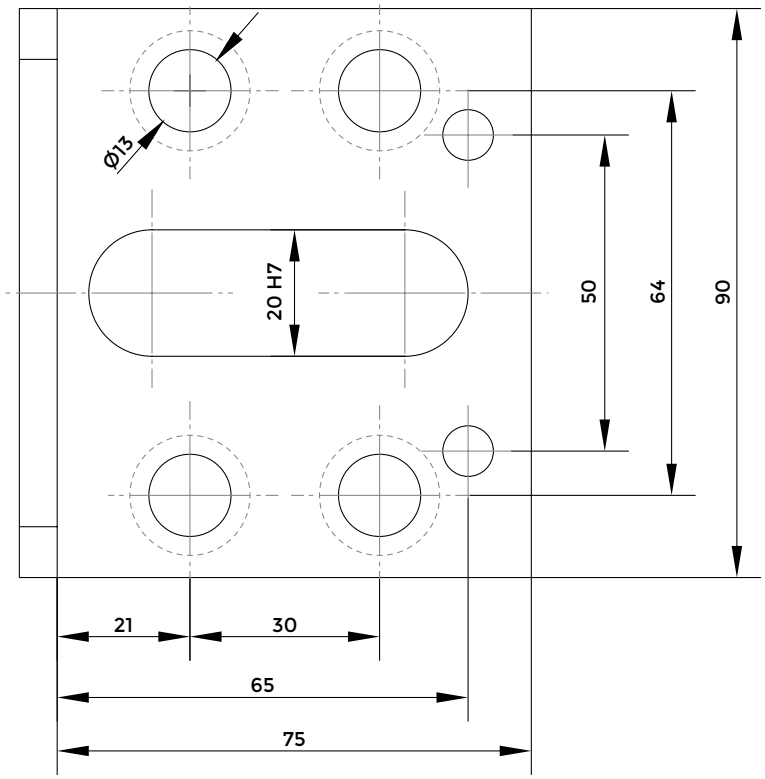


8764 (Ø16 mm)
8766 (Ø20 mm)
8767 (Ø25 mm)



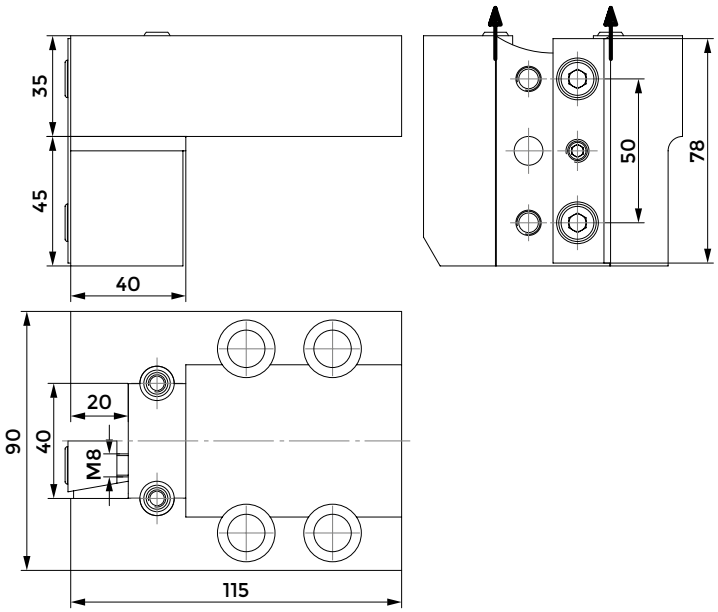
165-62545 (Ø12 mm)
165-62547 (Ø16 mm)
165-62549 (Ø20 mm)

CONNECTION



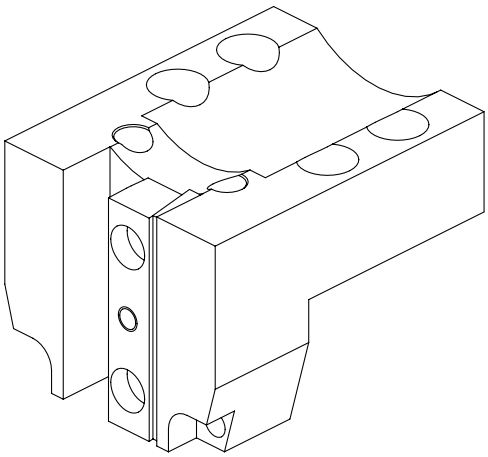
RADIAL TOOLHOLDER

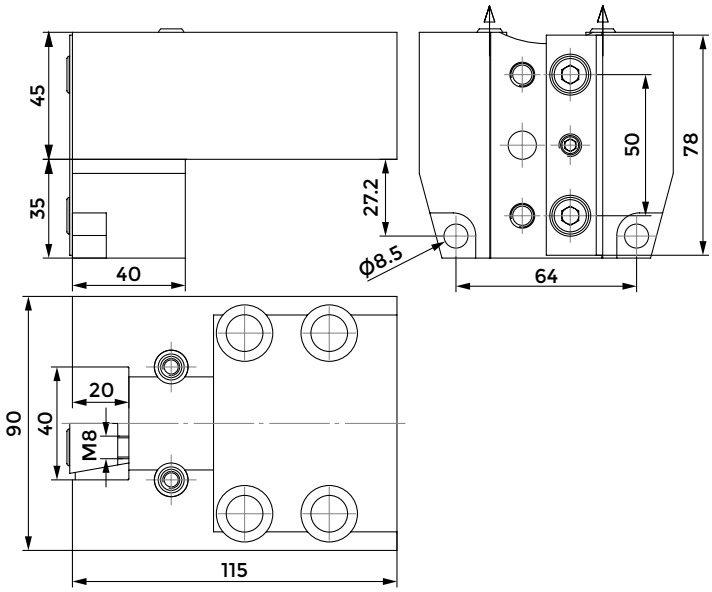




COD.	CLAMPING PLATE	COOLANT NOZZLE
KMS-T00078	832-007200	833-001110

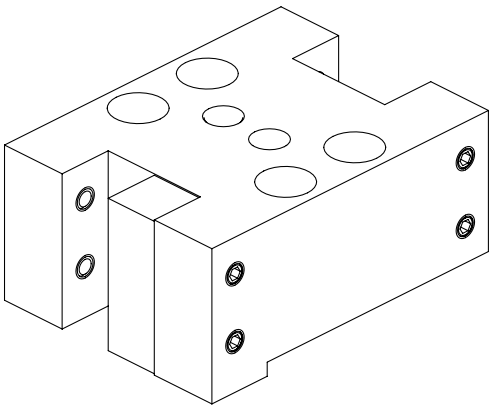
RADIAL TOOLHOLDER

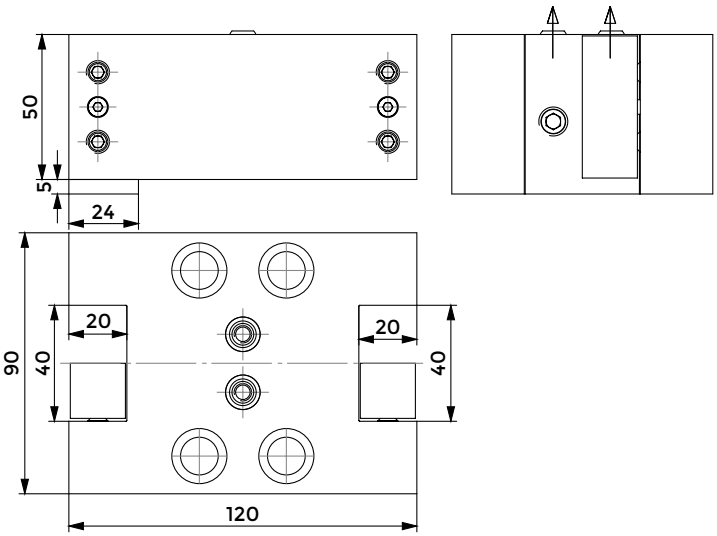




COD.	CLAMPING PLATE	COOLANT NOZZLE
KMS-T00146	832-007200	833-001110

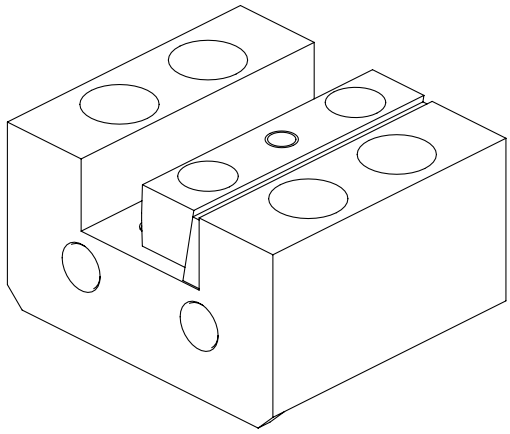
RADIAL TOOLHOLDER

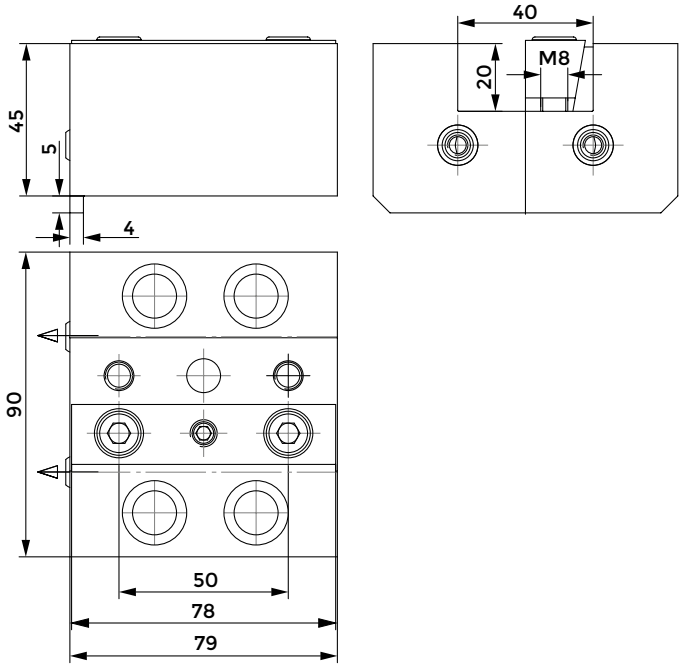




COD.	CLAMPING SCREW	CLAMPING PLATE	SPRING FOR CLAMPING PLATE	SCREW FOR CLAMPING PLATE	COOLANT NOZZLE
KMS-T00108	811-102031	832-002096	824-101010	811-302004	833-001110

AXIAL TOOLHOLDER

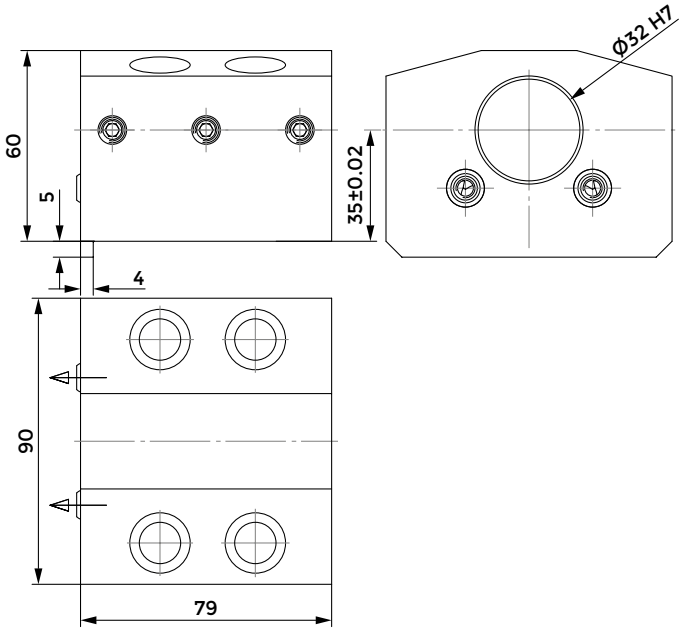




COD.	CLAMPING PLATE	COOLANT NOZZLE
KMS-T00080	832-007200	833-001110

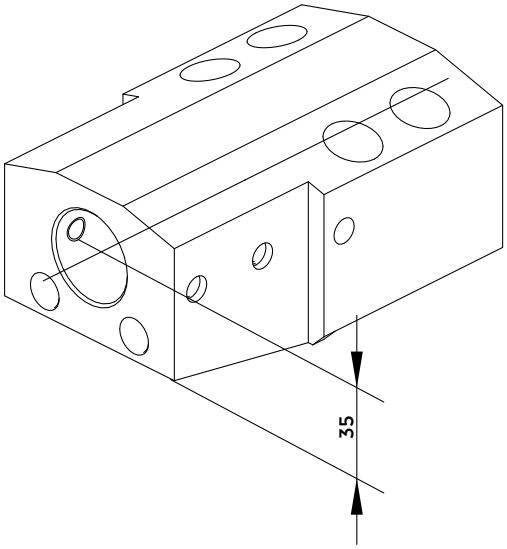
TOOLHOLDER FOR BORING BAR

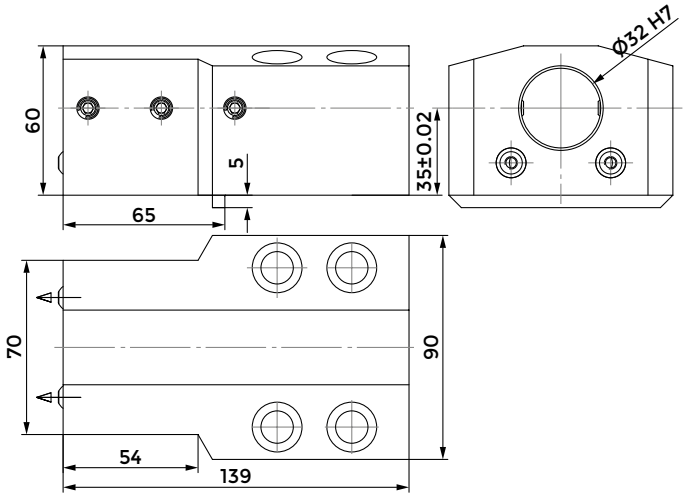




COD.	CLAMPING PLATE	COOLANT NOZZLE
KMS-T10046	811-102031	833-001110

TOOLHOLDER FOR BORING BAR

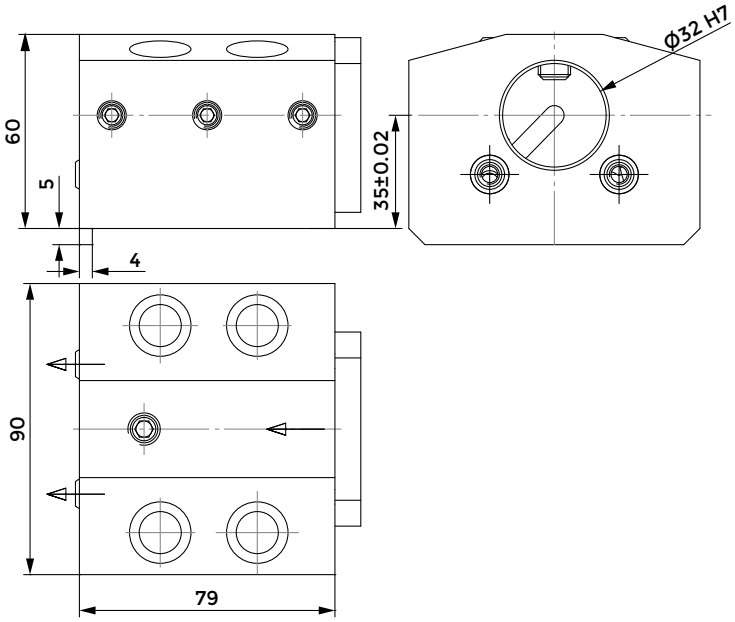


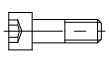


COD.	CLAMPING SCREW	COOLANT NOZZLE
		
KMS-T10052	811-102030	833-001080

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

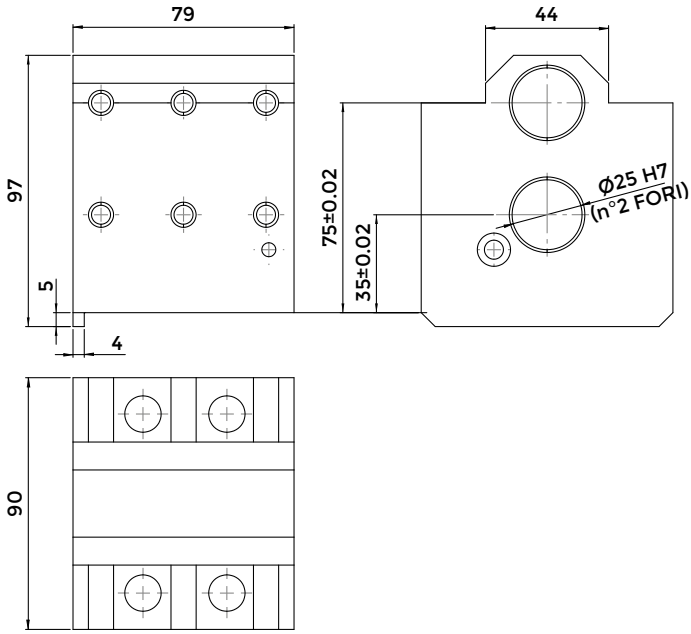




COD.	CLAMPING SCREW 1 (M8X25)	CLAMPING SCREW 2 (M10X14)	COOLANT NOZZLE	COVER	SCREW FOR COVER
					
KMS-T13066	811-102031	811-102060	833-001110	832-003062	811-101016

TOOLHOLDER FOR BORING BAR



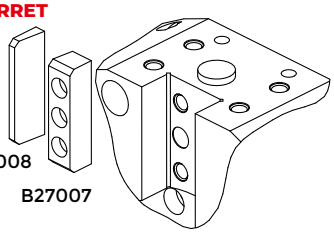


COD.	CLAMPING SCREW	COOLANT NOZZLE
		
KMS-T10082	811-104021	833-001110

DMG MORI - CL 200/203 - SL 20/25 - SL 200/203/204/250/253/254 (MC, SMD)/2500Y - ZL/DL 200/250 (MC) DURATURN 2030 - DURATURN 2050 - DURATURN 2550

GOODWAY - GS 200/260/280 - GA 2000/2600/2800/3000/3300/3600

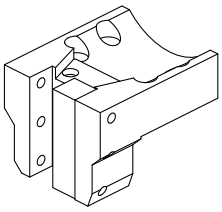
DIRECT MONTING ON TURRET



B27008

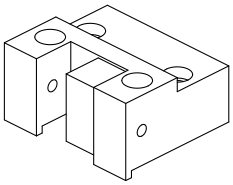
B27007

FACE AND O.D. CUTTING HOLDER (also for machine CLB2000B-MT2000 ZT2500-DURATURN2550)



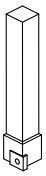
KMS-T00074
25x25 mm

FACE AND O.D. CUTTING HOLDER

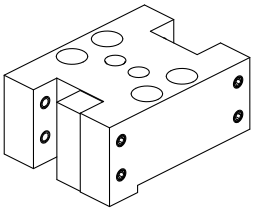


KMS-T00174
25x25 mm

QUALIFIED TOOL

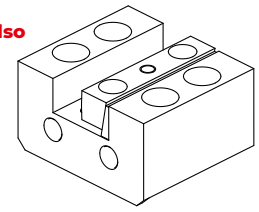


FACE AND O.D. CUTTING HOLDER



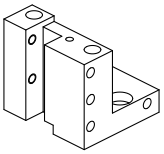
KMS-T00158
25x25 mm

FACE AND O.D. CUTTING HOLDER (also for machine CLB2000B-MT2000 ZT2500-DURATURN2550)



KMS-T00068
25x25 mm

CUT-OFF HOLDER (also for machine CLB2000B-MT2000 ZT2500-DURATURN2550)

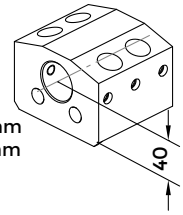


KMS-T00156 - 25x25 mm

CUT-OFF TOOL

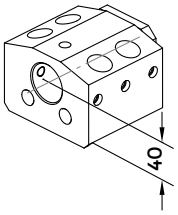


TOOLHOLDER FOR BORING BAR



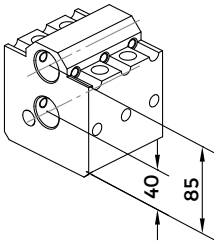
KMS-T10036 - Ø40 mm
KMS-T10044 - Ø50 mm

TOOLHOLDER FOR BORING BAR



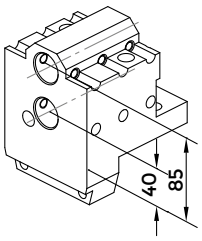
KMS-T13064
Ø40 mm

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



KMS-T10086
Ø32 mm

TOOLHOLDER FOR BORING BAR

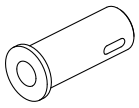
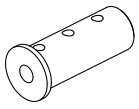
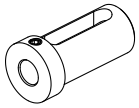
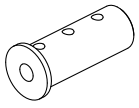
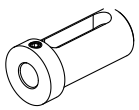


KMS-T10208
Ø32 mm

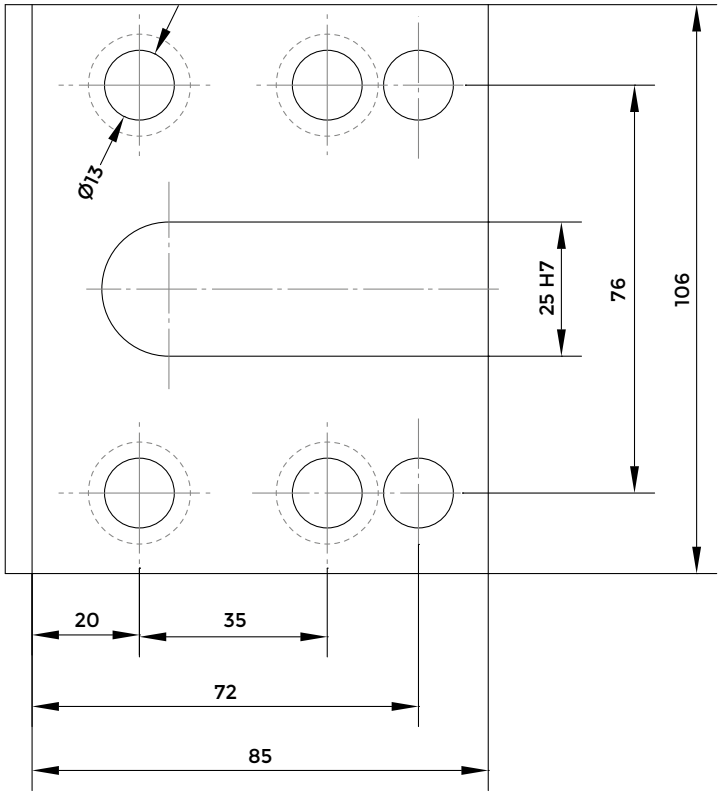
ACCESSORIES

BORING BAR SLEEVE

p. 707

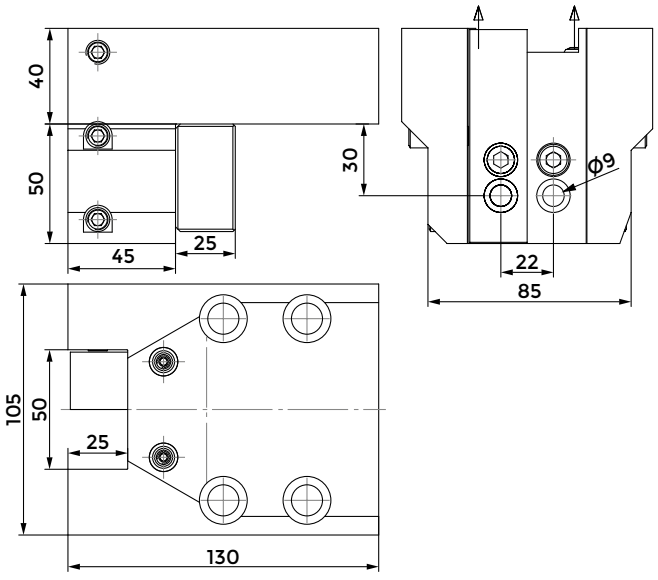
	D40	D50
	8960 (MT3) 8959 (MT2)	
	5906 (Ø32 mm) 5905 (Ø25 mm) 5904 (Ø20 mm) 5903 (Ø16 mm) 5902 (Ø12 mm) 5901 (Ø10 mm) 5900 (Ø8 mm)	
	8768 (Ø16 mm) 8770 (Ø20 mm) 8771 (Ø25 mm) 8772 (Ø32 mm)	8773 (Ø25 mm) 8774 (Ø32 mm) 8775 (Ø40 mm)
	8946 (Ø25 mm) 8945 (Ø20 mm) 8944 (Ø16 mm) 8943 (Ø12 mm) 8942 (Ø10 mm) 8941 (Ø8 mm)	
	8764 (Ø16 mm) 8766 (Ø20 mm) 8767 (Ø25 mm)	

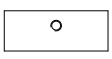
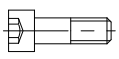
CONNECTION



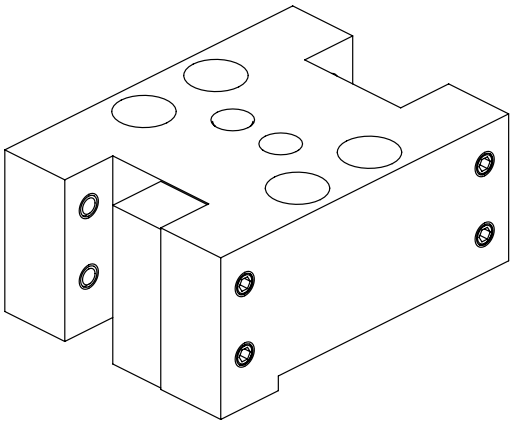
RADIAL TOOLHOLDER

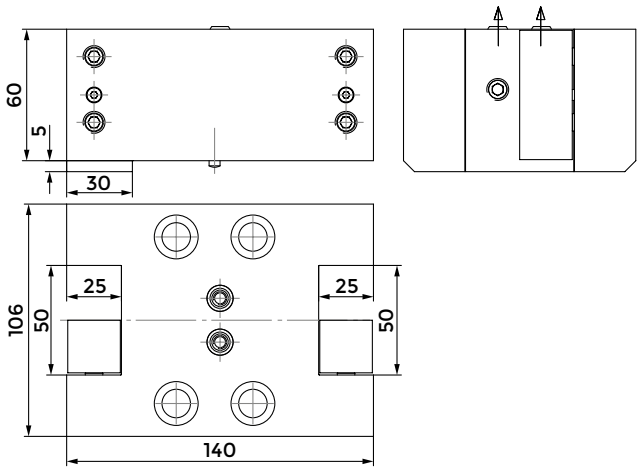


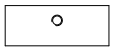
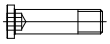
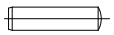


COD.	CLAMPING SCREW 1 (M10X25)	CLAMPING SCREW 2 (M10X16)	CLAMPING PLATE	COOLANT NOZZLE	SPACER	SCREW FOR SPACER
						
KMS-T00074	811-104030	811-104028	832-002117	833-001110	832-002132	811-101041

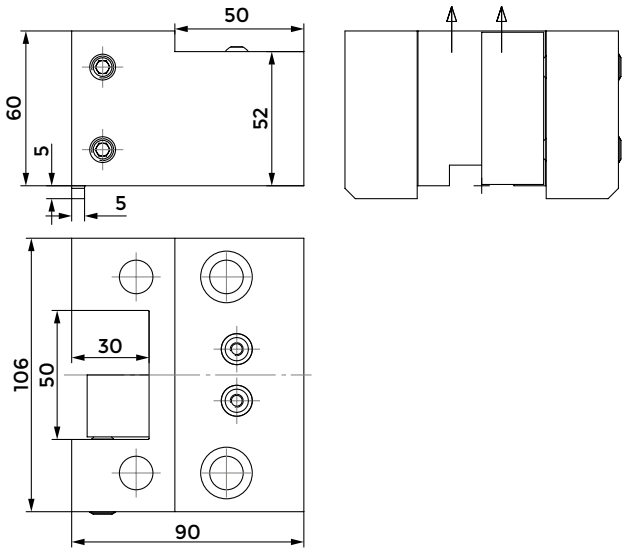
RADIAL TOOLHOLDER

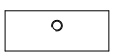




COD.	CLAMPING SCREW	CLAMPING PLATE	SCREW FOR CLAMPING PLATE	SPRING FOR CLAMPING PLATE	COOLANT NOZZLE	PIN
						
KMS-T00158	811-104030	832-002095	811-302004	824-101010	833-001110	815-220008

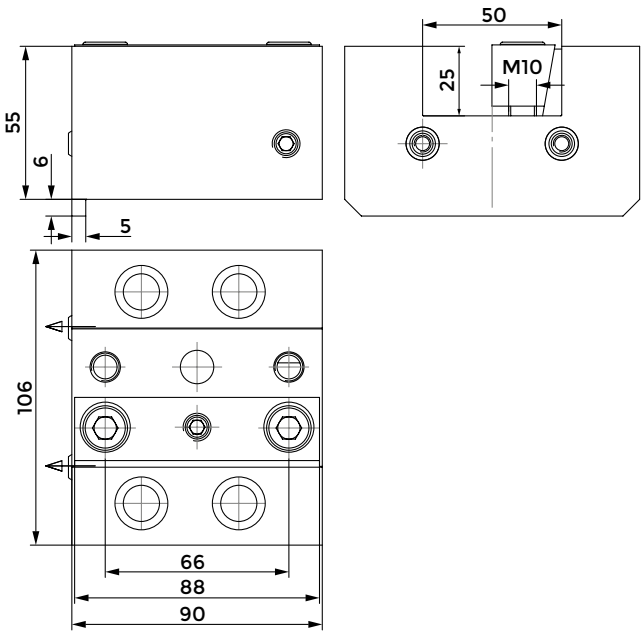




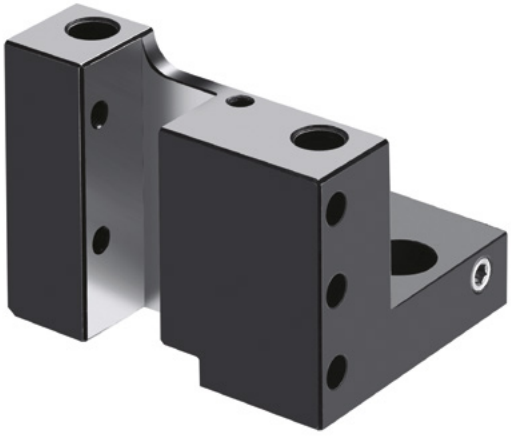
COD.	CLAMPING SCREW	CLAMPING PLATE	COOLANT NOZZLE
			
KMS-T00174	811-102040	832-002095	833-001080

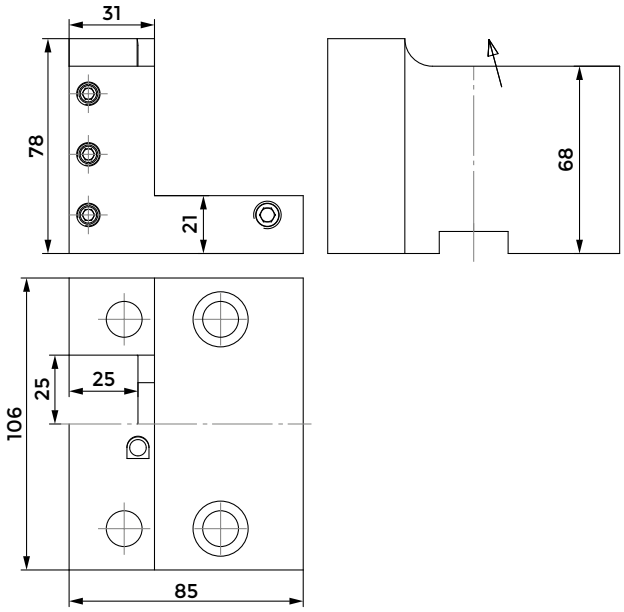
AXIAL TOOLHOLDER





COD.	CLAMPING PLATE	COOLANT NOZZLE
KMS-T00068	832-007500	833-001110

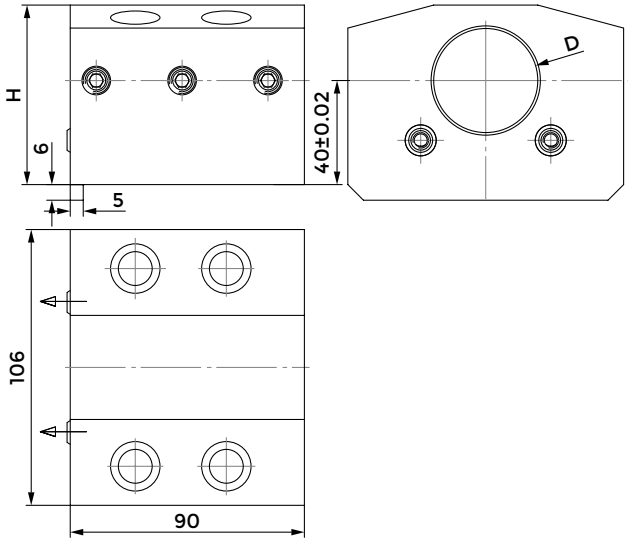




COD.	CLAMPING SCREW
KMS-T00156	811-104023

TOOLHOLDER FOR BORING BAR

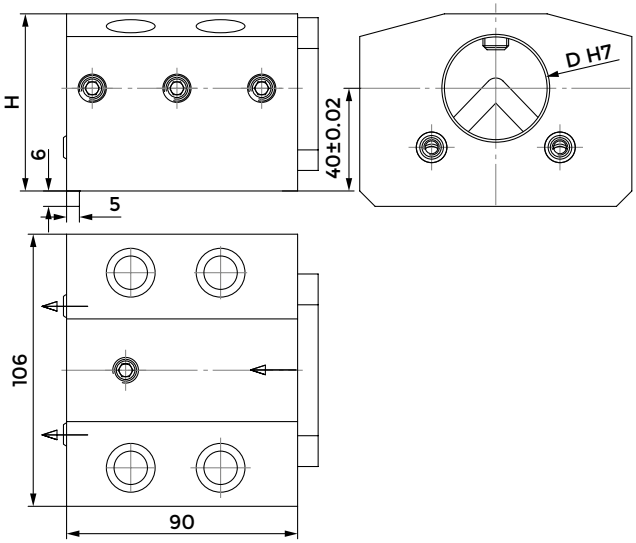




COD.	D	H	CLAMPING SCREW	COOLANT NOZZLE
KMS-T10036	40	69	811-102039	833-001110
KMS-T10044	50	74	811-102038	833-001110

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

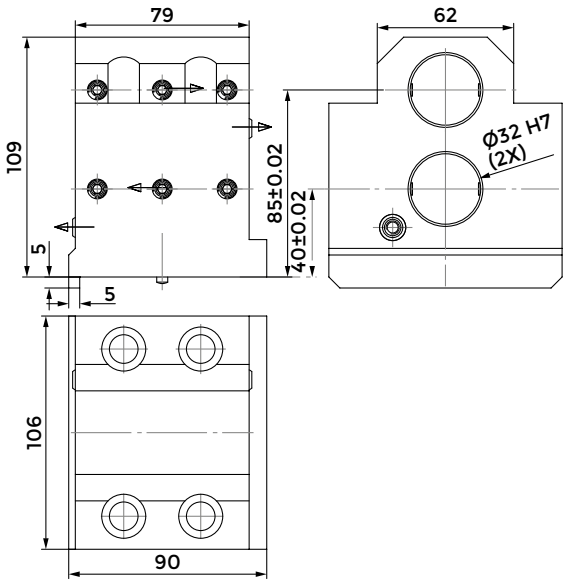


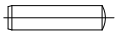


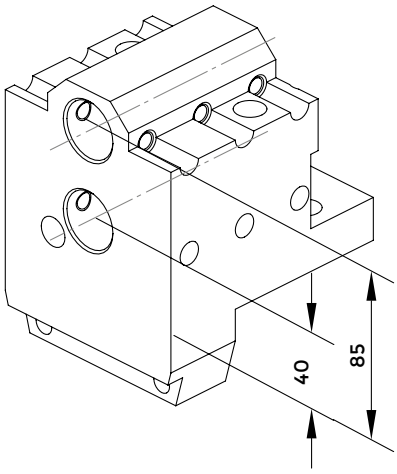
COD.	D	H	CLAMPING SCREW 1 (D40M10X25) (D50M10X20)	CLAMPING SCREW 2 (M10X14)	COOLANT NOZZLE	COVER	SCREW FOR COVER
KMS-T13064	40	69	811-102039	811-102060	833-001110	832-003063	811-101016

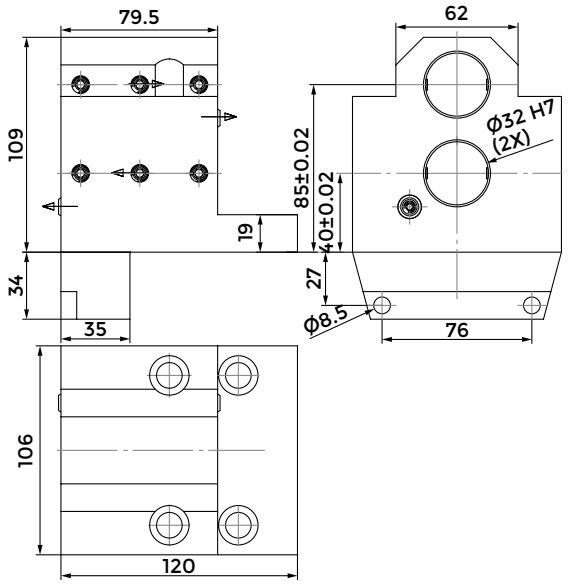
TOOLHOLDER FOR BORING BAR





COD.	CLAMPING SCREW	COOLANT NOZZLE	PIN
			
KMS-T10086	811-104021	833-001110	815-210170



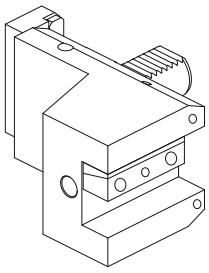


COD.	CLAMPING SCREW	COOLANT NOZZLE
		
KMS-T10208	811-104021	833-001110

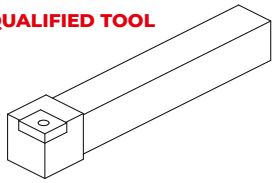
OKUMA (VDI30) - LT10M - LT200M - LB10

AXIAL TOOLHOLDER

112-330080
20x20 mm

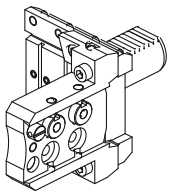


QUALIFIED TOOL

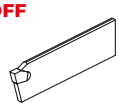


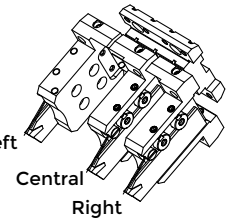
CUT-OFF HOLDER

117-53001 - 26 mm

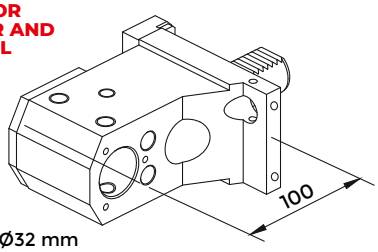


CUT-OFF TOOL





COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

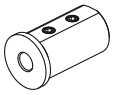


115-230460 - Ø32 mm

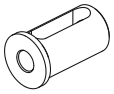
ACCESSORIES

BORING BAR SLEEVE

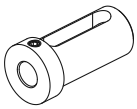
p. 707



9607 (Ø8 mm)
9608 (Ø10 mm)
9609 (Ø12 mm)



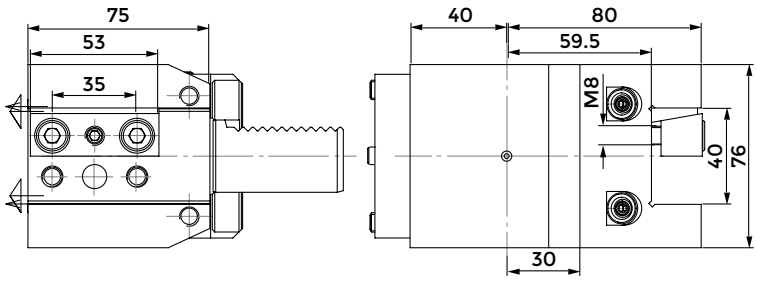
9611 (Ø16 mm)
9613 (Ø25 mm)
9614 (Ø20 mm)



8764 (Ø16 mm)
8766 (Ø20 mm)
8767 (Ø25 mm)

AXIAL TOOLHOLDER

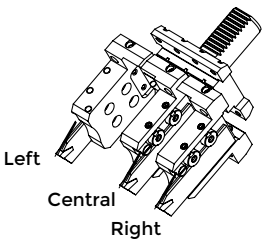


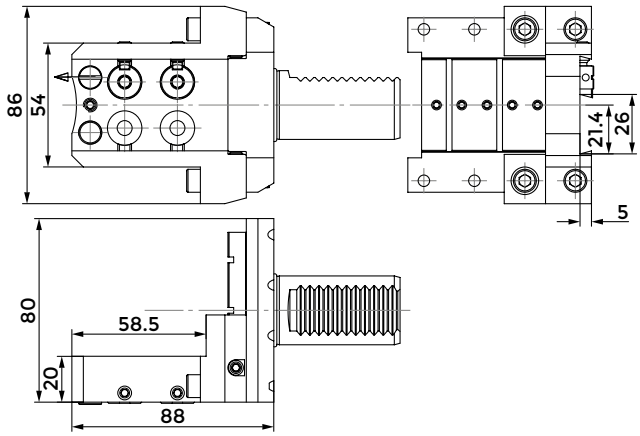


COD.	CLAMPING PLATE	COOLANT NOZZLE	STOP PLATE	SCREW FOR STOP PLATE	STOP SCREW	O RING VDI30
						
112-330080	832-007190	833-001110	832-018380	811-101038	811-102020	823-101017

CUT-OFF HOLDER



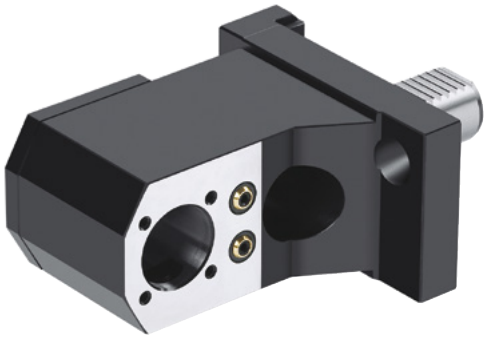


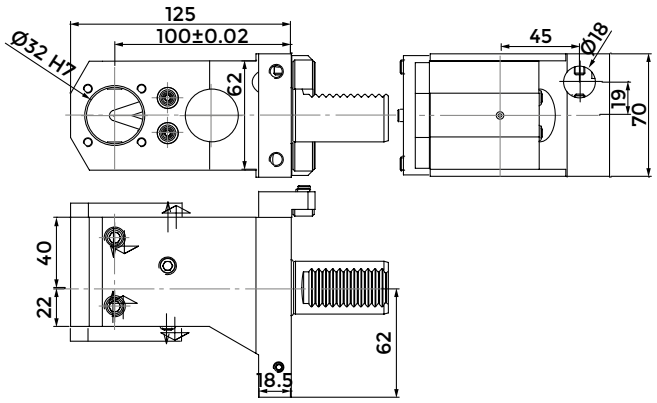


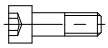
COD.	COOLANT NOZZLE	O RING FOR COOLANT NOZZLE	O RING FOR BODY	O RING VDI30	SHIM PLATE
					
117-53001	833-001490	823-101058	823-101061	823-101017	832-014448

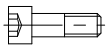
COD.	SCREW FOR PLATE	CLAMPING PIN	SPRING	CLAMPING SCREW	SCREW
					
117-53001	811-108037	832-014447	824-300012	811-101027	811-104013

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



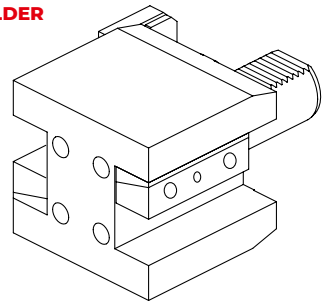


COD.	CLAMPING SCREW	COOLANT NOZZLE	STOP PLATE	SCREW FOR STOP PLATE
				
115-230460	811-102043	833-001110	832-018380	811-101038

COD.	STOP SCREW	COVER	SCREW FOR COVER	O RING VDI30
				
115-230460	811-102020	832-003212	811-101016	823-101017

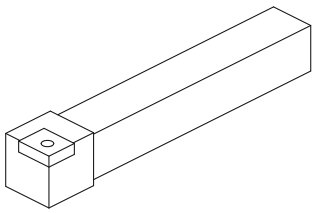
OKUMA (VDI40) - LT15M - LT300M - MT250 - LB300 - LB300M - LV300

AXIAL TOOLHOLDER

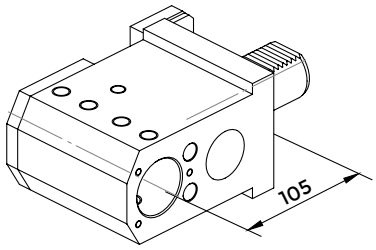


112-14009
25X25 mm

QUALIFIED TOOL



COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

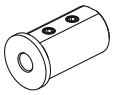


115-240810 - Ø40 mm

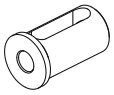
ACCESSORIES

BORING BAR SLEEVE

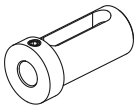
p. 705



9615 (Ø8 mm)
9616 (Ø10 mm)
9617 (Ø12 mm)

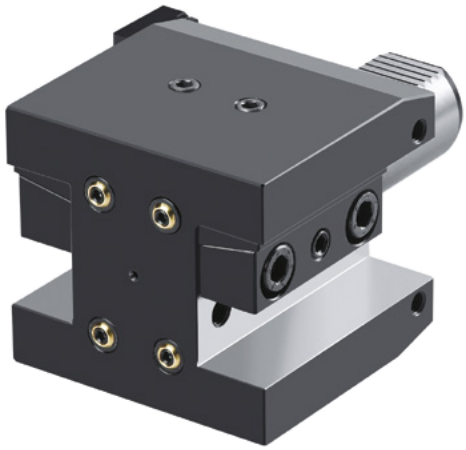


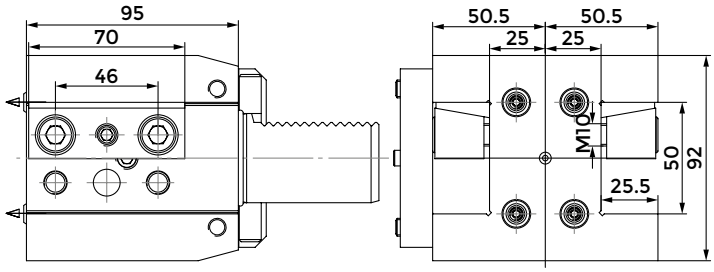
9619 (Ø16 mm)
9621 (Ø20 mm)
9622 (Ø25 mm)
9623 (Ø32 mm)

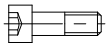


8768 (Ø16 mm)
8770 (Ø20 mm)
8771 (Ø25 mm)
8772 (Ø32 mm)

AXIAL TOOLHOLDER

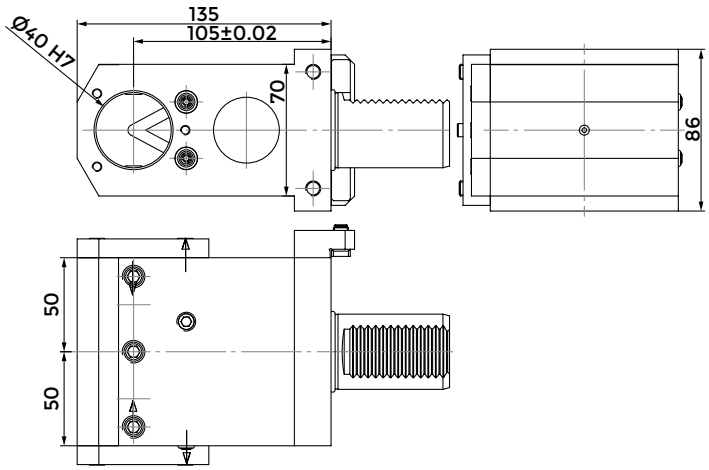


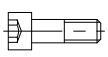


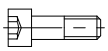
COD.	CLAMPING PLATE	COOLANT NOZZLE	STOP PLATE	SCREW FOR STOP PLATE	O RING VDI40
					
112-14009	832-007010	833-001110	832-020730	811-101039	823-101036

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



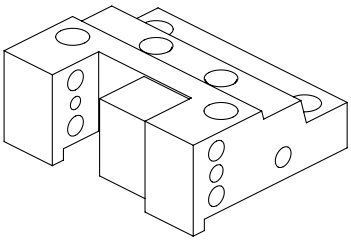


COD.	CLAMPING SCREW	COOLANT NOZZLE	STOP PLATE	SCREW FOR STOP PLATE
				
115-240810	811-102043	833-001110	832-020730	811-101039

COD.	COVER	SCREW FOR COVER	O RING VDI40
			
115-240810	832-003104	811-101017	823-101036

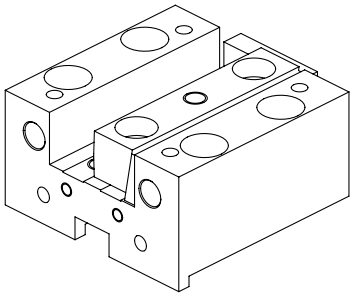
OKUMA - LB15 - LB25 - LB15II - LB300
HAAS - SL20 - SL30 - ST-20 - ST-25 - ST-30 - ST-35 - DS-30

FACE AND O.D. CUTTING HOLDER



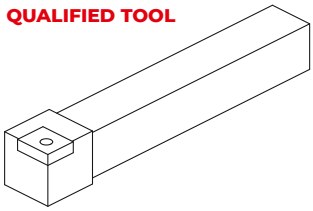
128-420110 - 25x25 mm

FACE AND O.D. CUTTING HOLDER

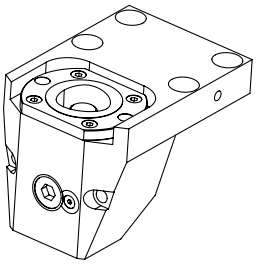


128-32001 - 25x25 mm

QUALIFIED TOOL

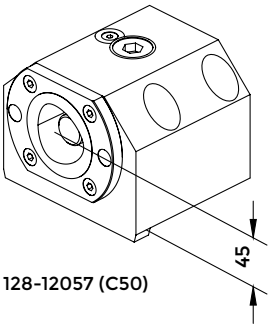


POLYGONAL TOOL HOLDER



128-12059 (C50)

POLYGONAL TOOL HOLDER



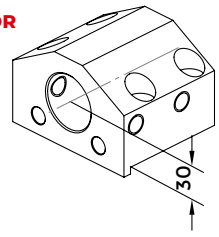
128-12057 (C50)

ACCESSORIES

BORING BAR SLEEVE

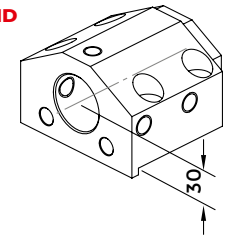
p. 707

TOOLHOLDER FOR BORING BAR

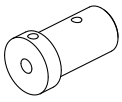


128-22001
Ø40 mm

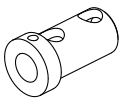
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



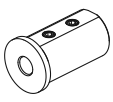
128-22005
Ø40 mm



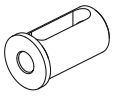
8971 (Ø10 mm)
8972 (Ø12 mm)
8973 (Ø16 mm)
8974 (Ø20 mm)



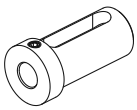
8975 (Ø25 mm)
8976 (Ø32 mm)



9615 (Ø8 mm)
9616 (Ø10 mm)
9617 (Ø12 mm)

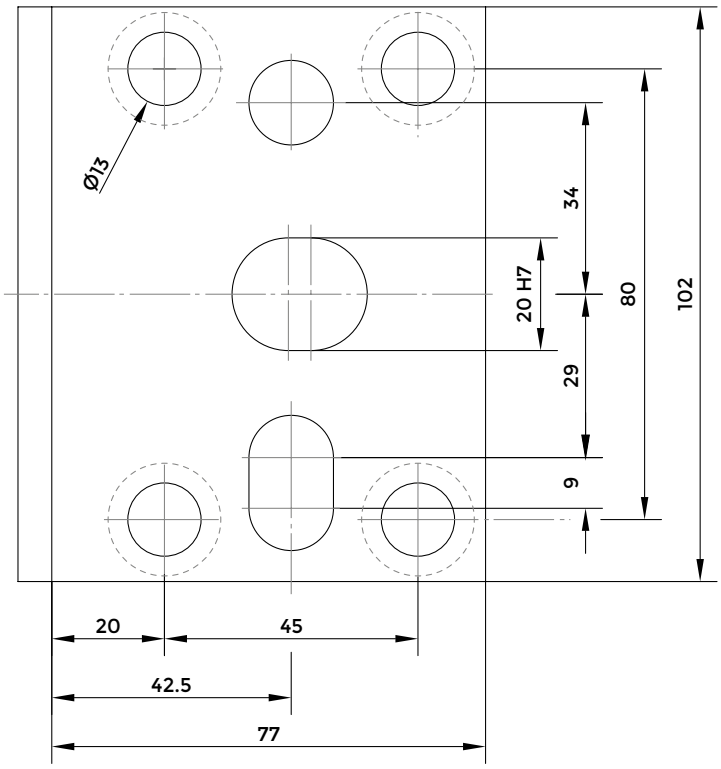


9619 (Ø16 mm)
9621 (Ø20 mm)
9622 (Ø25 mm)
9623 (Ø32 mm)



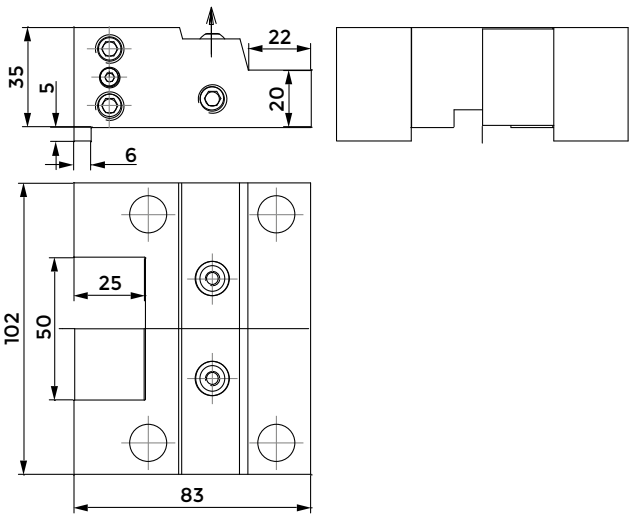
8768 (Ø16 mm)
8770 (Ø20 mm)
8771 (Ø25 mm)
8772 (Ø32 mm)

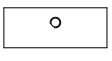
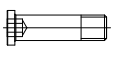
CONNECTION



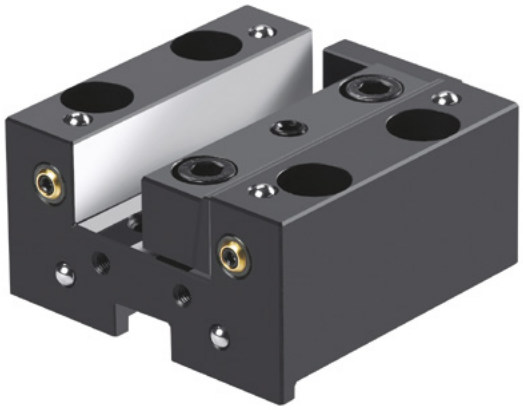
RADIAL TOOLHOLDER

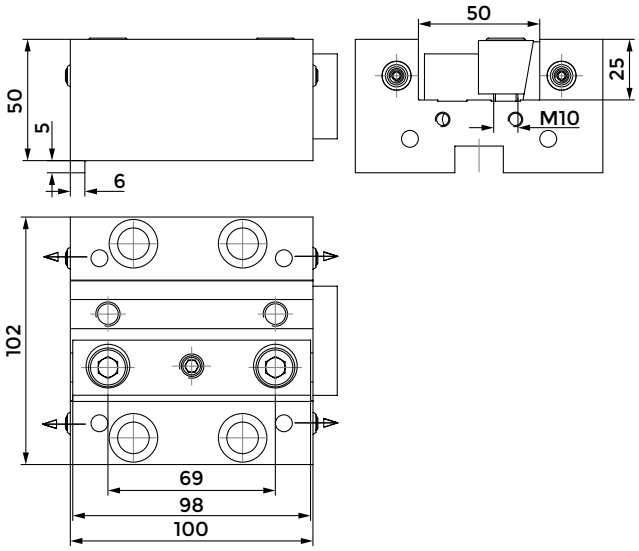


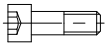


COD.	CLAMPING SCREW	CLAMPING PLATE	SCREW FOR CLAMPING PLATE	SPRING FOR CLAMPING PLATE	COOLANT NOZZLE
					
128-420110	811-104030	832-002069	811-302004	824-101010	833-001080

AXIAL TOOLHOLDER

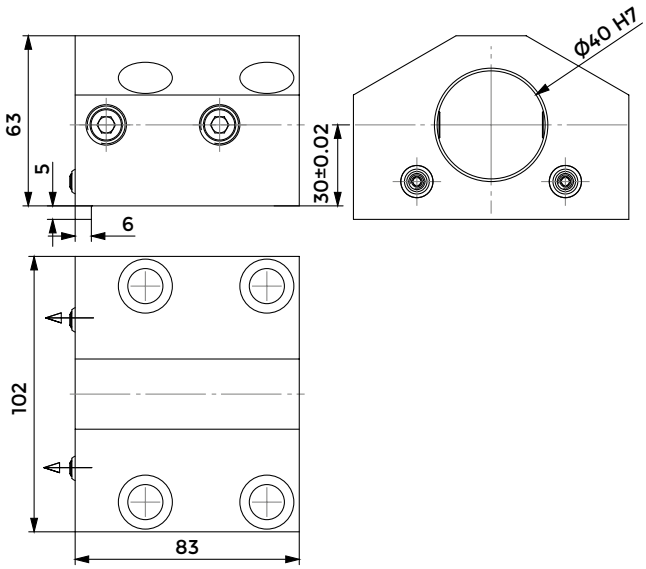




COD.	CLAMPING PLATE	COOLANT NOZZLE	STOP PLATE	SCREW FOR PLATE
				
128-32001	832-007220	833-001110	832-003045	811-101026

TOOLHOLDER FOR BORING BAR

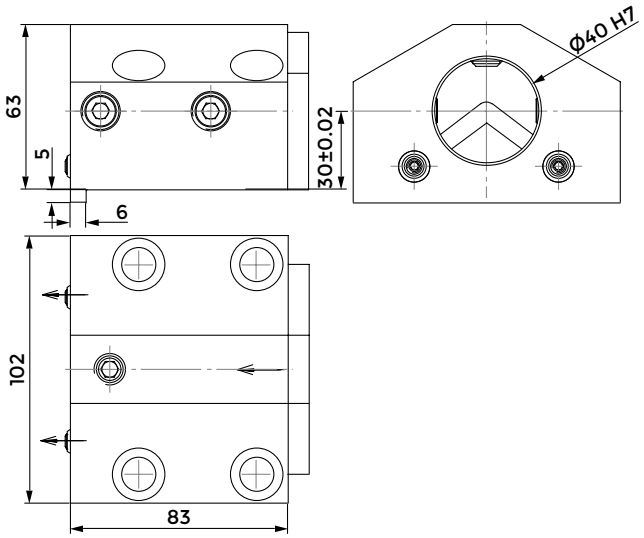


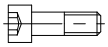


COD.	CLAMPING SCREW	COOLANT NOZZLE
		
128-22001	811-104069	833-001110

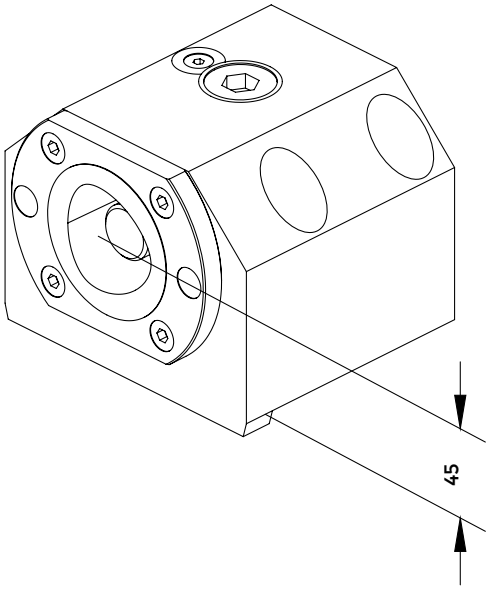
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

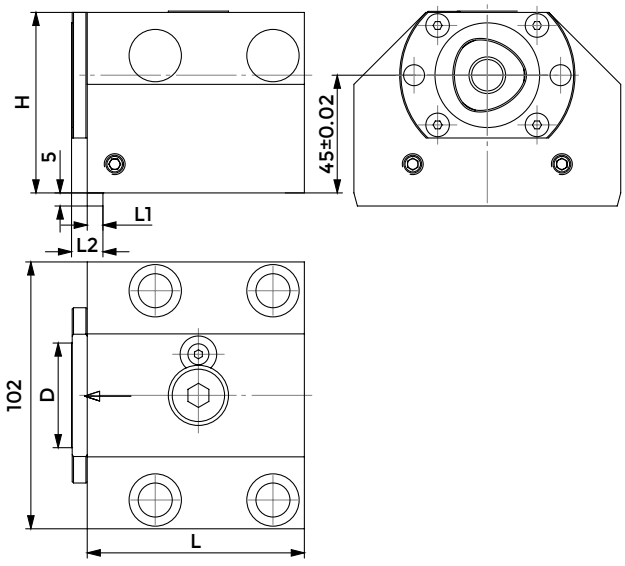




COD.	CLAMPING SCREW 1	CLAMPING SCREW 2	COOLANT NOZZLE	COVER	SCREW FOR COVER
					
128-22005	811-104069	811-102043	833-001110	832-003056	811-101016

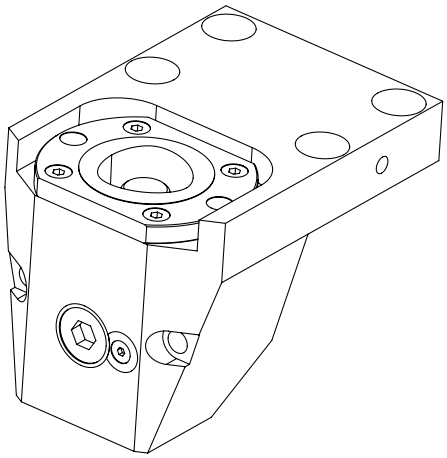
POLYGONAL TOOLHOLDER

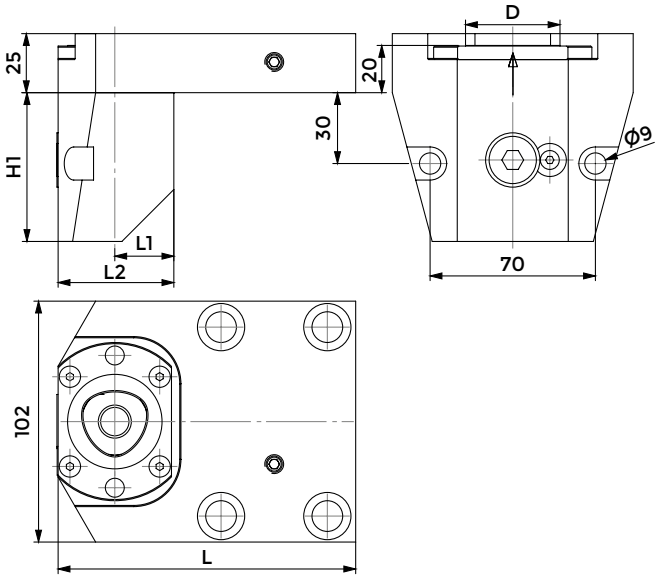




COD.	POLYGONAL	D	H	L	L1	L2	CLAMPING UNIT
128-12057	C50	50	77	88	11	19	CXC50-10

POLYGONAL TOOLHOLDER

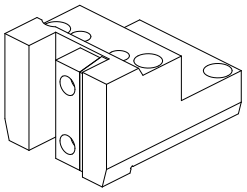




COD.	POLYGONAL	D	H	L	L1	L2	CLAMPING UNIT
128-12059	C50	50	75	142	33	65	CXC50-10

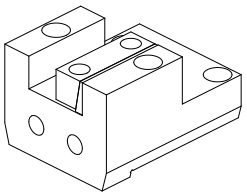
OKUMA (BMT60) - LB2000 EX (M) - LB2500 EX (M) - LB3000 EX (M, MY) - LT2000 EX - LT3000 EX LB3000 EX (MW, MYW) - LU2000 EX - LU2500 EX - LU3000 EX (M, MW, MY) - GENOS L300 (MY, MW, MYW)

FACE AND O.D. CUTTING HOLDER



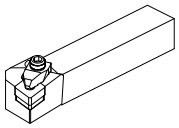
128-41507 - 25x25 mm

FACE AND O.D. CUTTING HOLDER

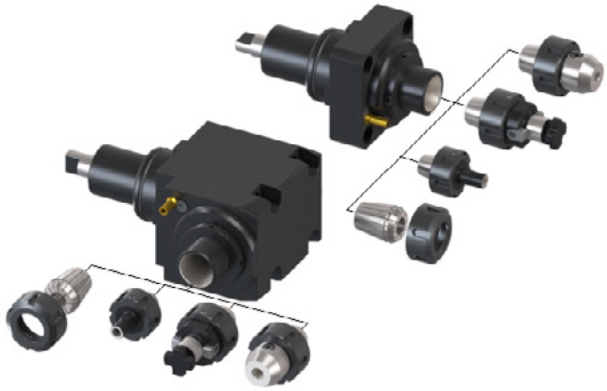


128-31503 - 25x25 mm

QUALIFIED TOOL

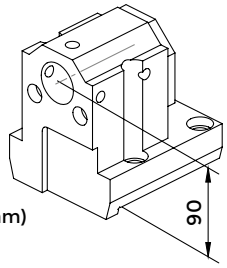


FAST-IN p. 490
DRIVEN TOOLS p. 298



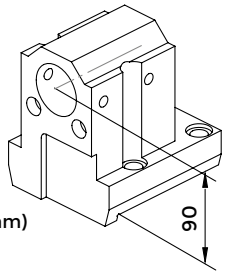
ACCESSORIES

TOOLHOLDER FOR BORING BAR



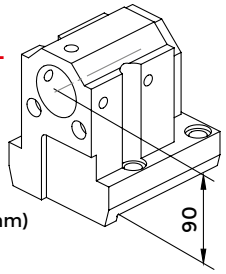
128-21514 (Ø32 mm)

TOOLHOLDER FOR BORING BAR



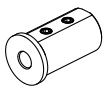
128-21515 (Ø40 mm)

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

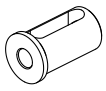


128-21516 (Ø40 mm)

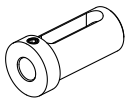
BORING BAR SLEEVE
p. 707



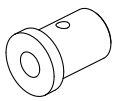
9607 (Ø8 mm)
9608 (Ø10 mm)
9609 (Ø12 mm)



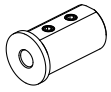
9611 (Ø16 mm)
9613 (Ø20 mm)
9614 (Ø25 mm)



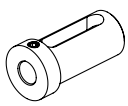
8764 (Ø16 mm)
8766 (Ø20 mm)
8767 (Ø25 mm)



8463 (Ø25 mm)
8964 (Ø32 mm)

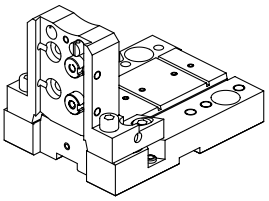


9615 (Ø8 mm)
9616 (Ø10 mm)
9617 (Ø12 mm)



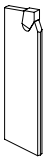
8768 (Ø16 mm)
8770 (Ø20 mm)
8771 (Ø25 mm)
8772 (Ø32 mm)

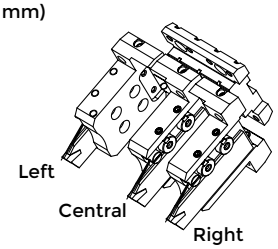
CUT-OFF HOLDER



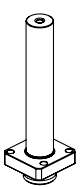
128-11535 (H=32 mm)

CUT-OFF TOOL



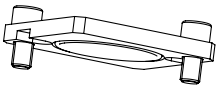


CONTROL PIN
p. 740



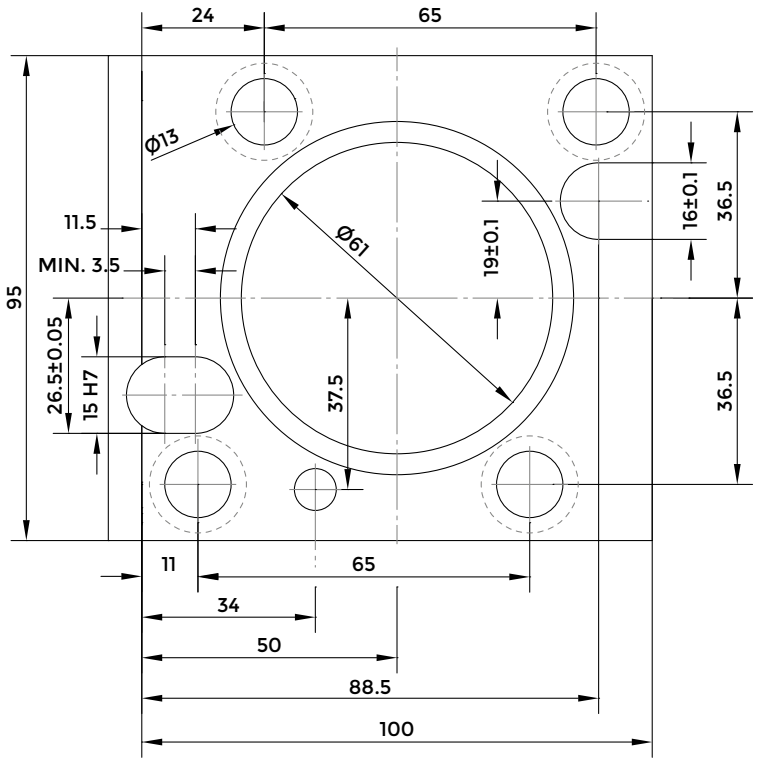
137-00195

PROTECTION COVER

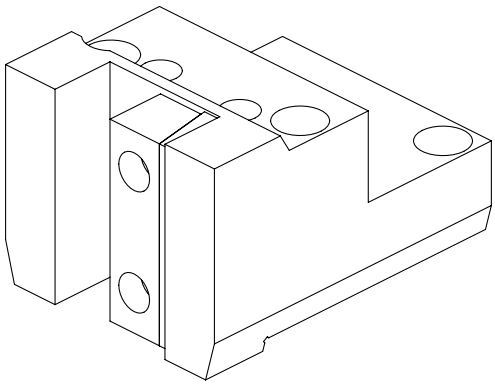


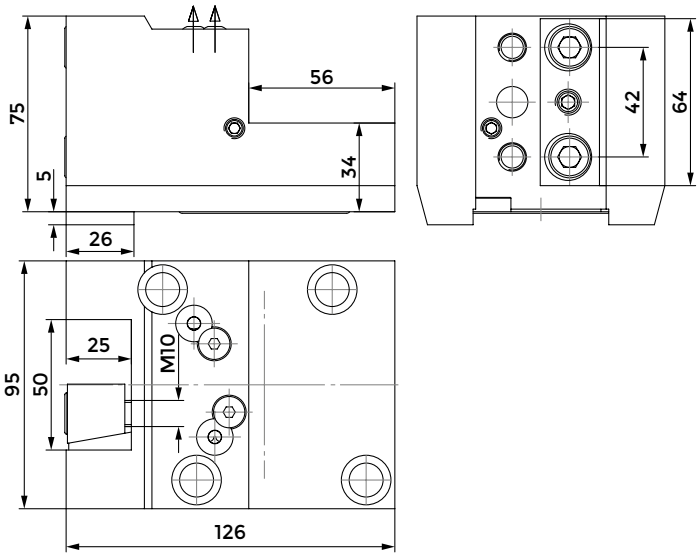
137-00247

CONNECTION



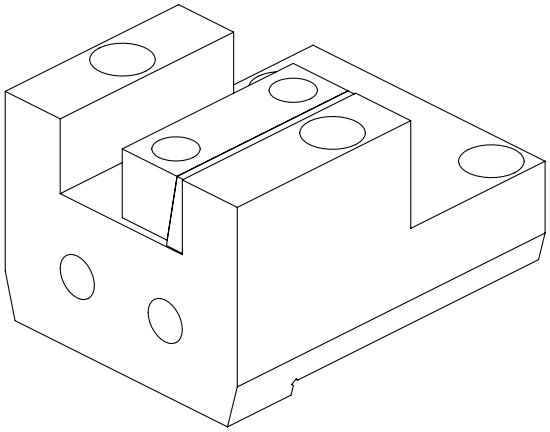
RADIAL TOOLHOLDER

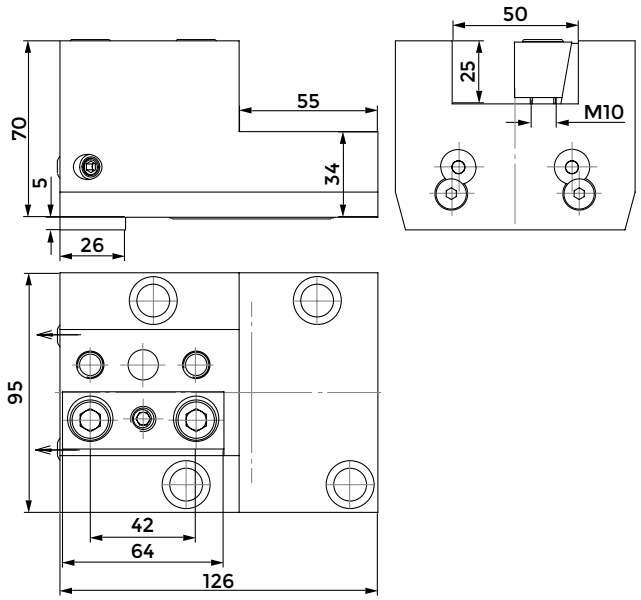




COD.	CLAMPING PLATE	COOLANT BALL	SCREW FOR BALL	O RING
				
128-41507	832-007360	833-001470	811-108018	823-101084

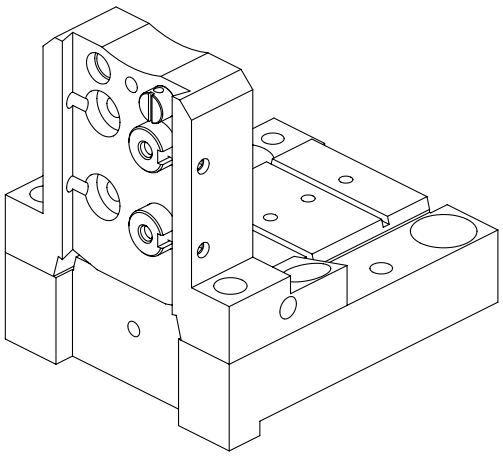
AXIAL TOOLHOLDER

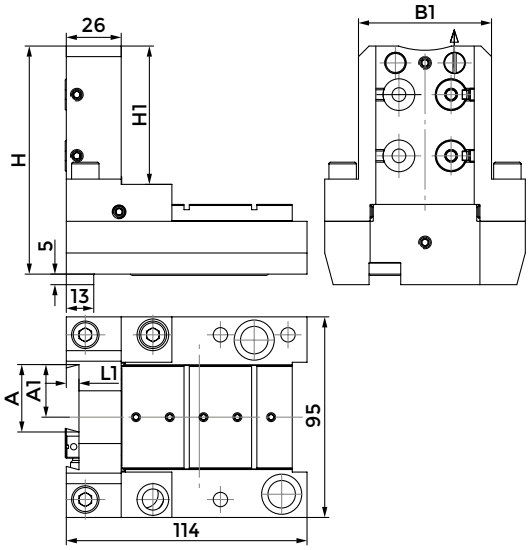




COD.	CLAMPING PLATE	COOLANT BALL	SCREW FOR BALL	O RING
128-31503	832-007360	833-001470	811-108018	823-101084

CUT-OFF HOLDER

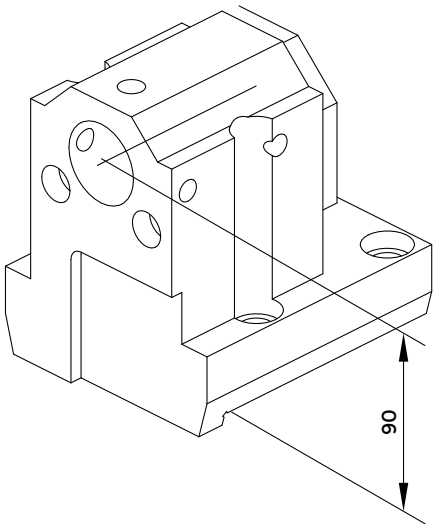


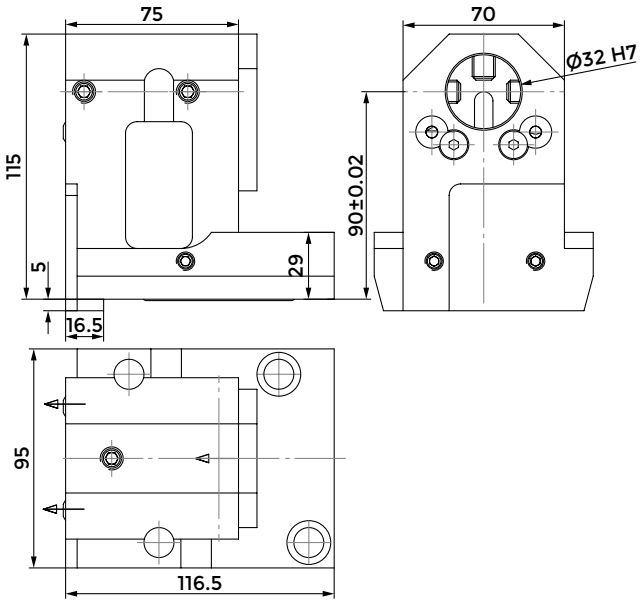


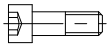
COD.	A	A1	L1	B1	H	H1	COOLANT NOZZLE	O RING FOR COOLANT NOZZLE	O RING FOR BODY	O RING
128-11535	32	25	6	63	108	65.5	833-001490	823-101058	823-101061	823-101084

COD.	SHIM PLATE	SCREW FOR PLATE	CLAMPING PLATE	SPRING	CLAMPING SCREW	SCREW
128-11535	832-014449	811-108037	832-014450	824-300012	811-101028	811-104013

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

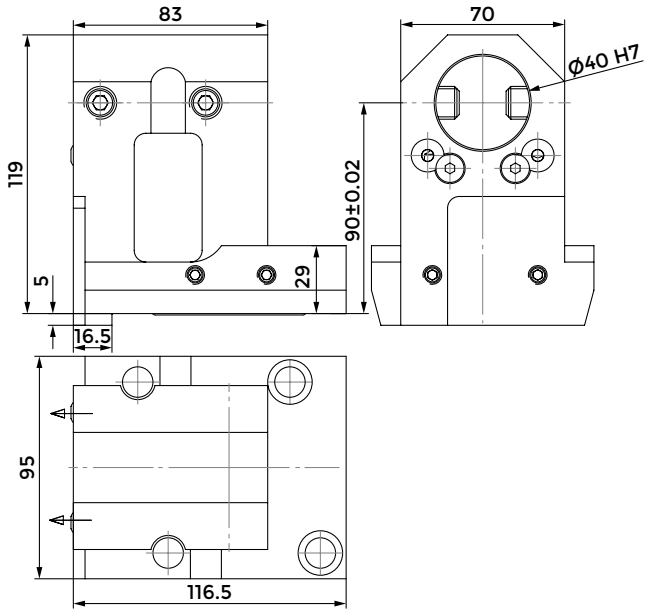




COD.	CLAMPING SCREW 1 (M10X25)	CLAMPING SCREW 2 (M10X20)	COOLANT BALL	SCREW FOR BALL	O RING	COVER	SCREW FOR COVER
							
128-21514	811-102039	811-102038	833-001470	811-108018	823-101084	832-003297	811-101016

TOOLHOLDER FOR BORING BAR

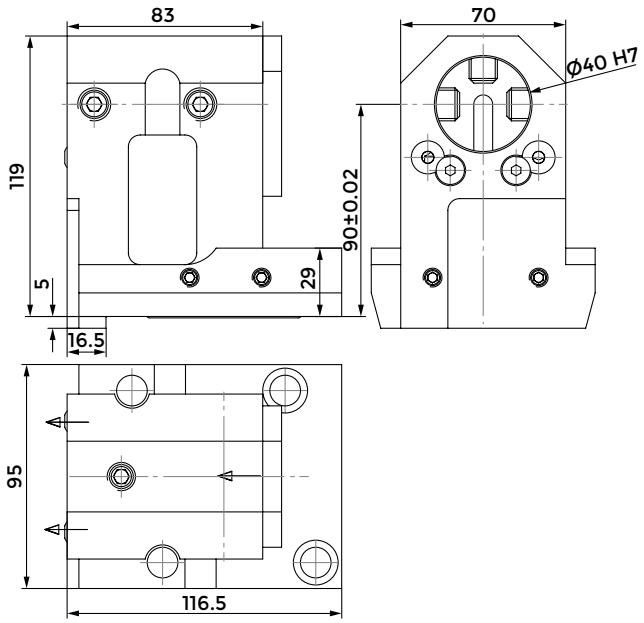


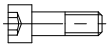


COD.	CLAMPING SCREW	COOLANT BALL	SCREW FOR BALL	O RING
				
128-21515	811-102088	833-001470	811-108018	823-101084

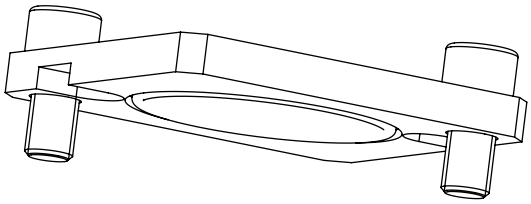
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

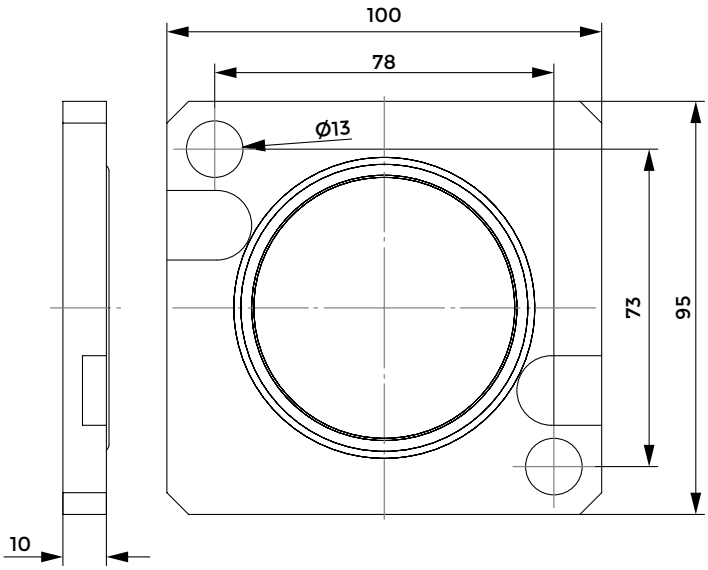




COD.	CLAMPING SCREW 1 (M14X25)	CLAMPING SCREW 2 (M12X20)	COOLANT BALL	SCREW FOR BALL	O RING	COVER	SCREW FOR COVER
							
128-21516	811-102088	811-102044	833-001470	811-108018	823-101084	832-003297	811-101016

PROTECTION COVER

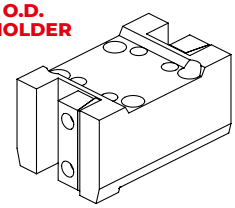




COD.	O RING
	
137-00247	823-101084

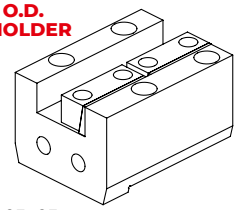
OKUMA (BMT60) - LB3000 EX (MW, MYW)

FACE AND O.D. CUTTING HOLDER



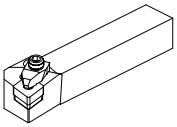
128-41509 - 25x25 mm

FACE AND O.D. CUTTING HOLDER

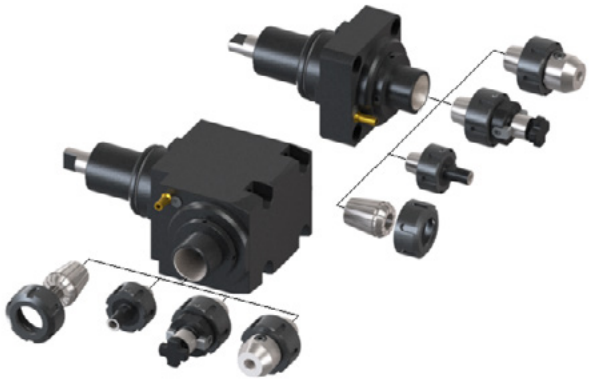


128-31505 - 25x25 mm

QUALIFIED TOOL

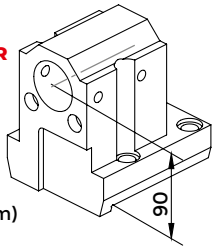


FAST-IN p. 490
DRIVEN TOOLS p. 298



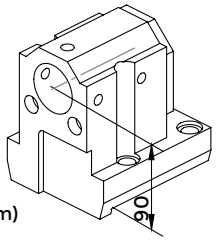
ACCESSORIES

TOOLHOLDER FOR BORING BAR



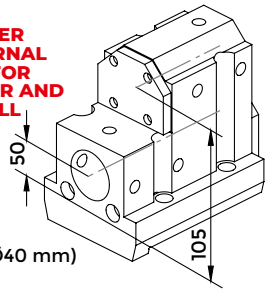
128-21515 (Ø40 mm)

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



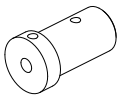
128-21516 (Ø40 mm)

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

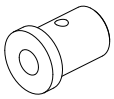


128-21520 (Ø40 mm)

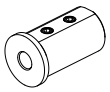
BORING BAR SLEEVE p. 707



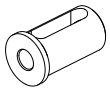
8971 (Ø10 mm)
8972 (Ø12 mm)
8973 (Ø16 mm)
8974 (Ø20 mm)



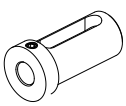
8463 (Ø25 mm)
8964 (Ø32 mm)



9615 (Ø8 mm)
9616 (Ø10 mm)
9617 (Ø12 mm)

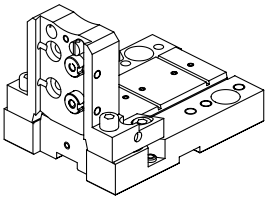


9619 (Ø16 mm)
9621 (Ø20 mm)
9622 (Ø25 mm)
9623 (Ø32 mm)



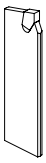
8768 (Ø16 mm)
8770 (Ø20 mm)
8771 (Ø25 mm)
8772 (Ø32 mm)

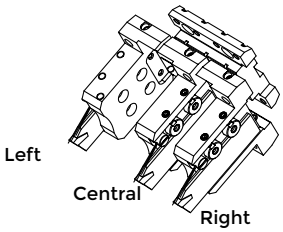
CUT-OFF HOLDER



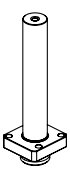
128-11535 (32 mm)

CUT-OFF TOOL



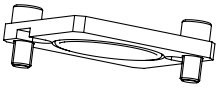


CONTROL PIN p. 740



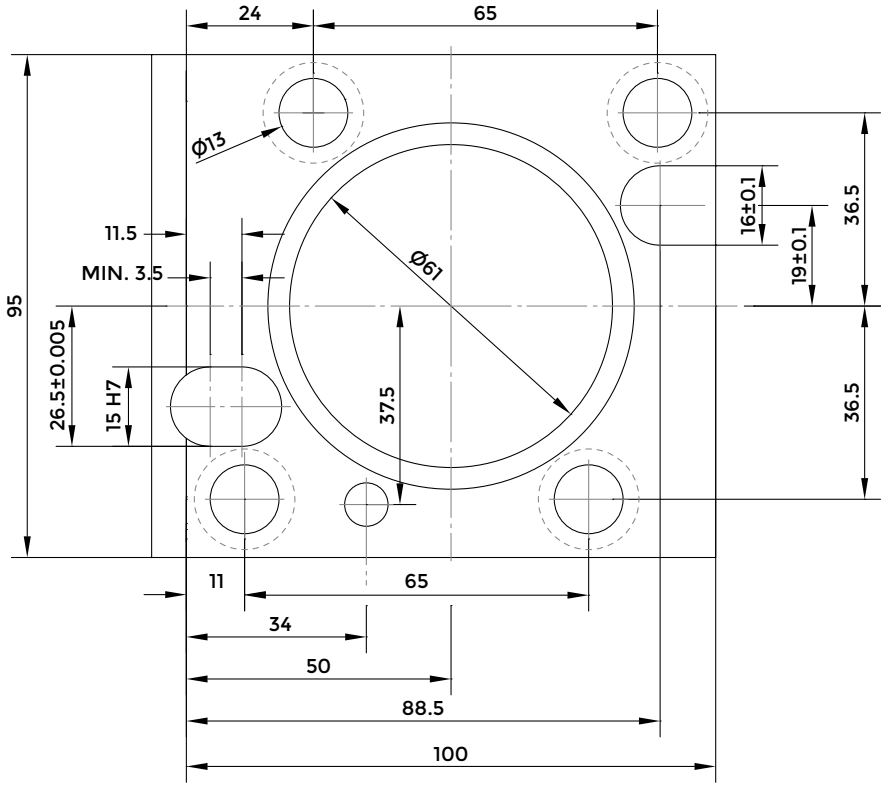
137-00195

PROTECTION COVER

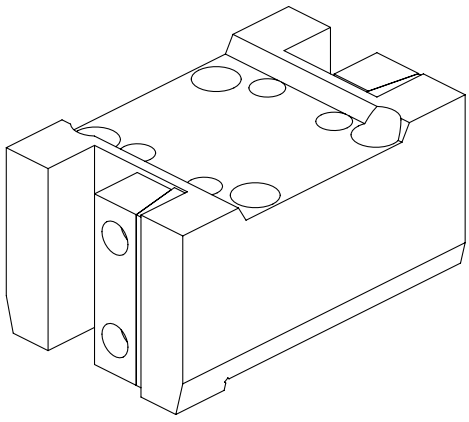


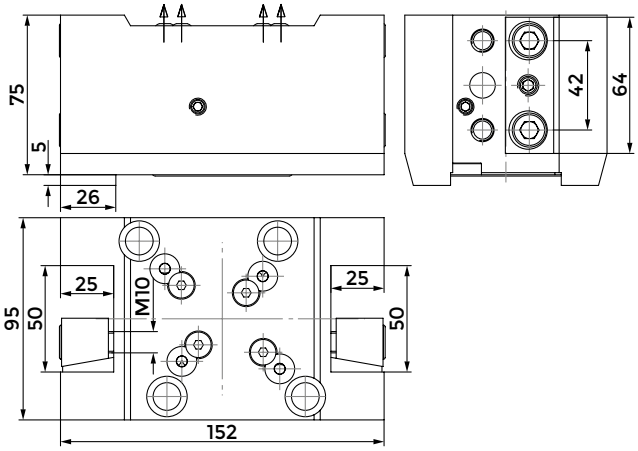
137-00247

CONNECTION



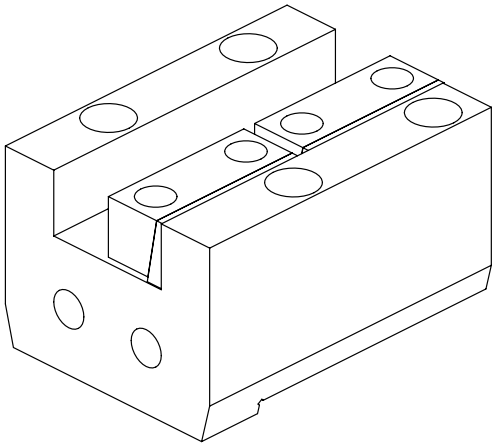
RADIAL TOOLHOLDER

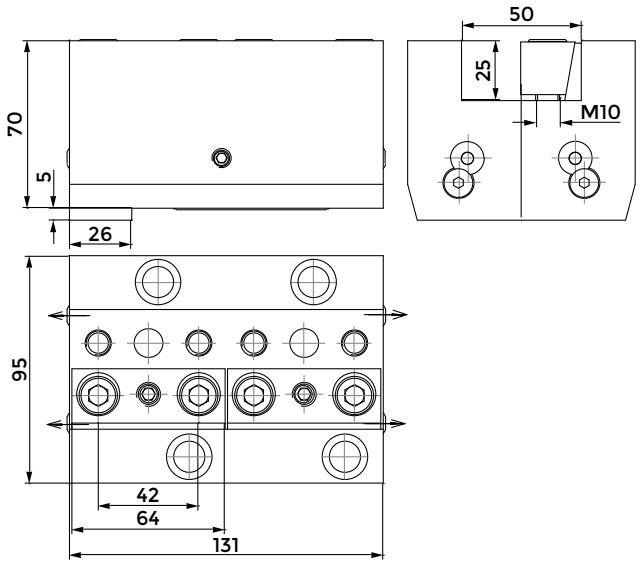




COD.	CLAMPING PLATE	COOLANT BALL	SCREW FOR BALL	O RING
				
128-41509	832-007360	833-001470	811-108018	823-101084

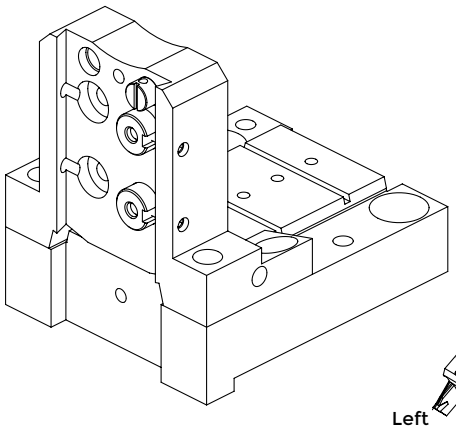
AXIAL TOOLHOLDER

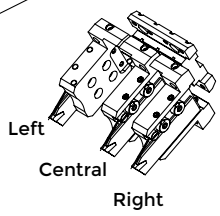


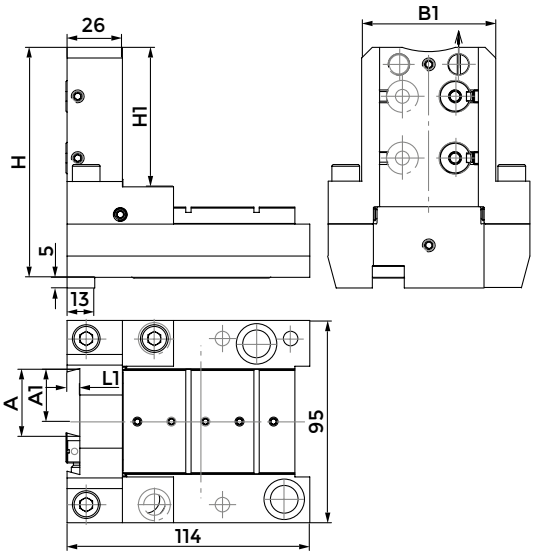


COD.	CLAMPING PLATE	COOLANT BALL	SCREW FOR BALL	O RING
128-31505	832-007360	833-001470	811-108018	823-101084

CUT-OFF HOLDER





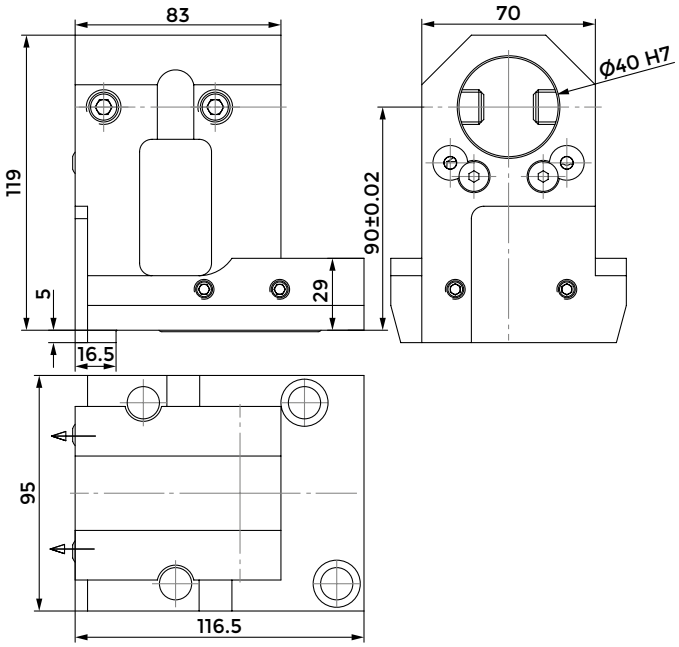


COD.	A	A1	L1	B1	H	H1	COOLANT NOZZLE	O RING FOR COOLANT NOZZLE	O RING FOR BODY	O RING FOR BASE
128-11535	32	25	6	63	108	65.5	833-001490	823-101058	823-101061	823-101084

COD.	SHIM PLATE	SCREW FOR PLATE	CLAMPING PIN	SPRING	CLAMPING SCREW	SCREW
128-11535	832-014449	811-108037	832-014450	824-300012	811-101028	811-104013

TOOLHOLDER FOR BORING BAR

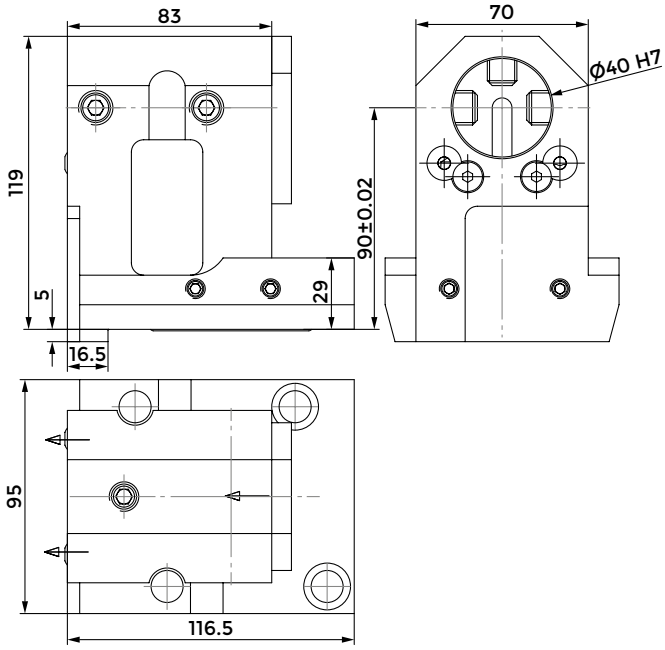


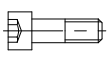


COD.	CLAMPING SCREW	COOLANT BALL	SCREW FOR BALL	O RING
				
128-21515	811-102088	833-001470	811-108018	823-101084

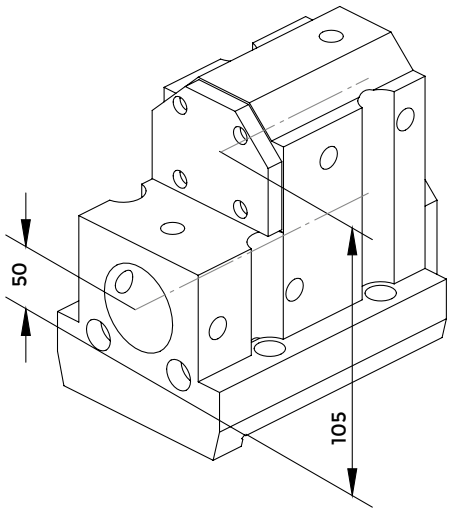
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

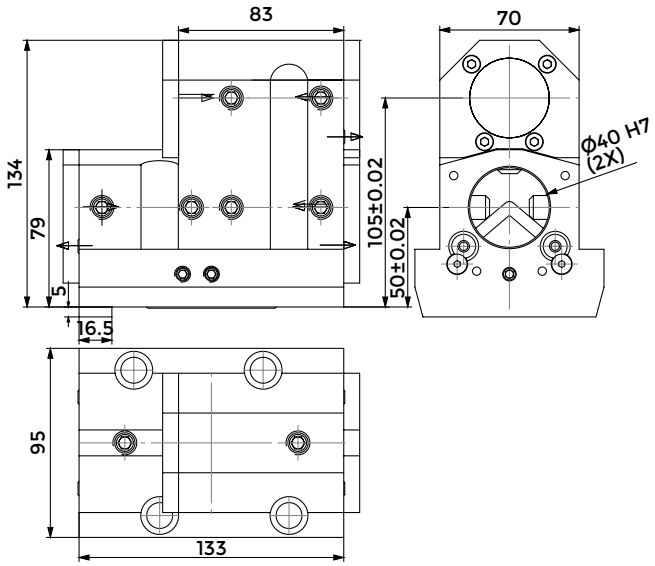


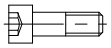


COD.	CLAMPING SCREW 1 (M14X25)	CLAMPING SCREW 2 (M12X20)	COOLANT BALL	SCREW FOR BALL	O RING	COVER	SCREW FOR COVER
							
128-21516	811-102088	811-102044	833-001470	811-108018	823-101084	832-003297	811-101016

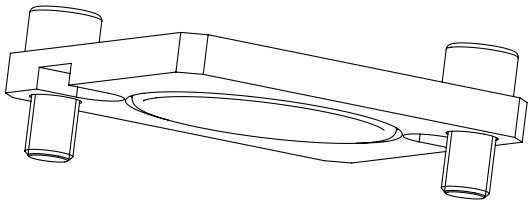
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

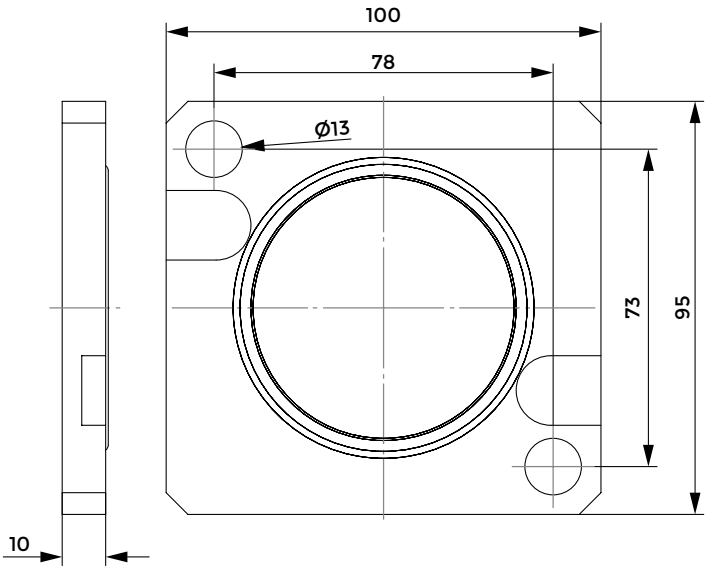




COD.	CLAMPING SCREW 1 (M12X25)	CLAMPING SCREW 2 (M12X12)	COOLANT BALL	SCREW FOR BALL	O RING	COVER 1	COVER 2	SCREW FOR COVER
								
128-21520	811-102045	811-102064	833-001410	811-108024	823-101084	832-003306	832-003307	811-101016

PROTECTION COVER

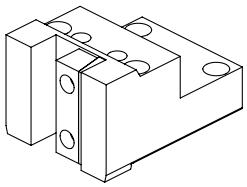




COD.	O RING
	
137-00247	823-101084

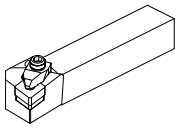
OKUMA (BMT60) - LB4000 EX (M, MY)

FACE AND O.D. CUTTING HOLDER

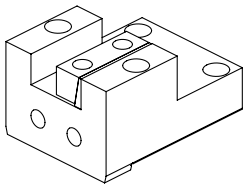


128-41508
25x25 mm

QUALIFIED TOOL

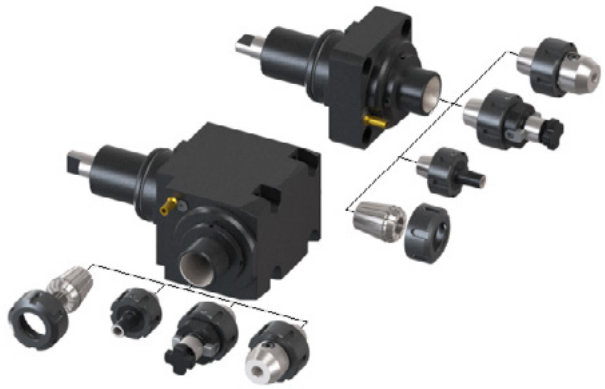


FACE AND O.D. CUTTING HOLDER



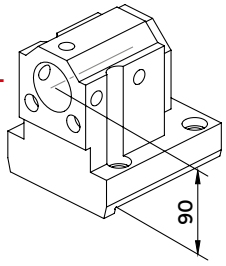
128-31504
25x25 mm

FAST-IN p. 490
DRIVEN TOOLS p. 298



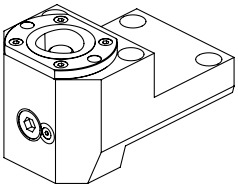
ACCESSORIES

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



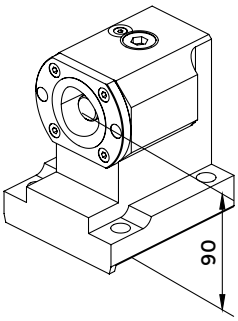
128-21518 (D40)
128-21527 (D50)

POLYGONAL TOOL HOLDER



128-11562 (C50)

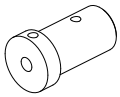
POLYGONAL TOOL HOLDER



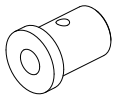
128-11560 (C50)

BORING BAR SLEEVE p. 707

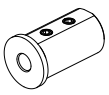
D40



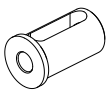
8971 (Ø10 mm)
8972 (Ø12 mm)
8973 (Ø16 mm)
8974 (Ø20 mm)



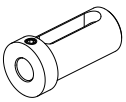
BOK64205 (Ø20 mm)
8953 (Ø32 mm)



9615 (Ø8 mm)
9616 (Ø10 mm)
9617 (Ø12 mm)

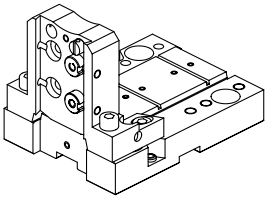


9619 (Ø16 mm)
9621 (Ø20 mm)
9622 (Ø25 mm)
9623 (Ø32 mm)



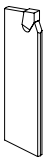
8768 (Ø16 mm)
8770 (Ø20 mm)
8771 (Ø25 mm)
8772 (Ø32 mm)

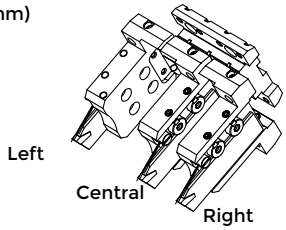
CUT-OFF HOLDER



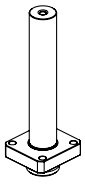
128-11536 (32 mm)

CUT-OFF TOOL



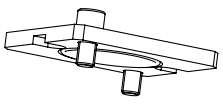


CONTROL PIN p. 740



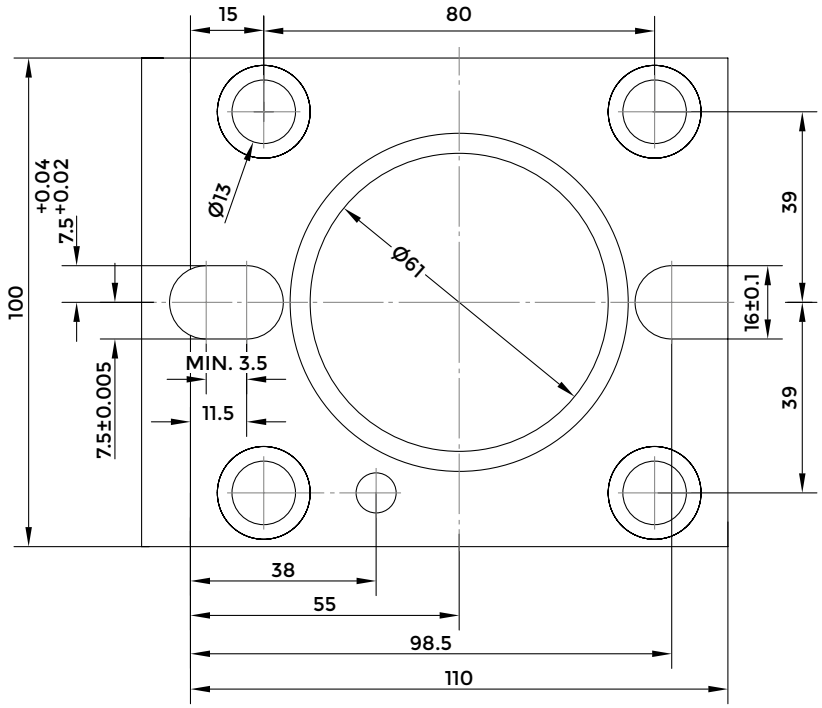
137-00196

PROTECTION COVER

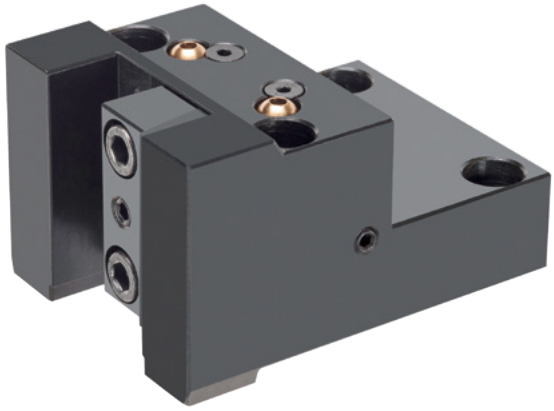


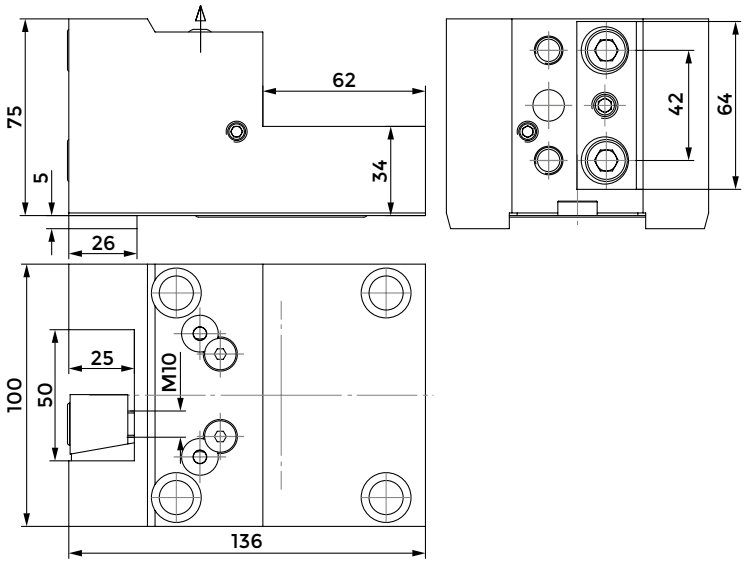
137-00248

CONNECTION



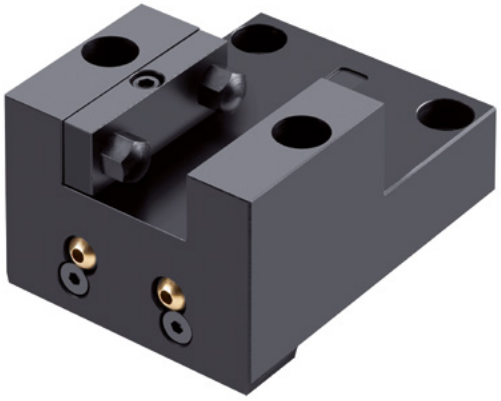
RADIAL TOOLHOLDER

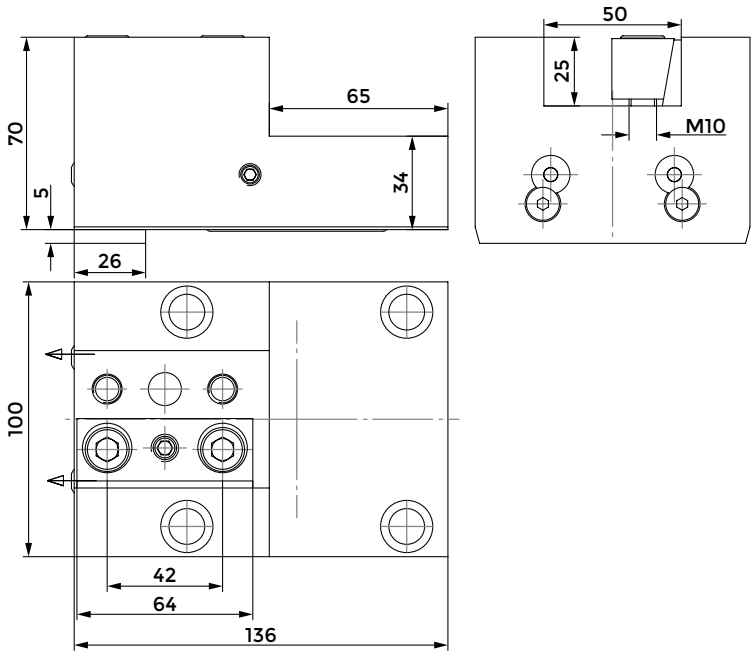




COD.	CLAMPING PLATE	COOLANT BALL	SCREW FOR BALL	O RING
				
128-41508	832-007360	833-001470	811-108018	823-101084

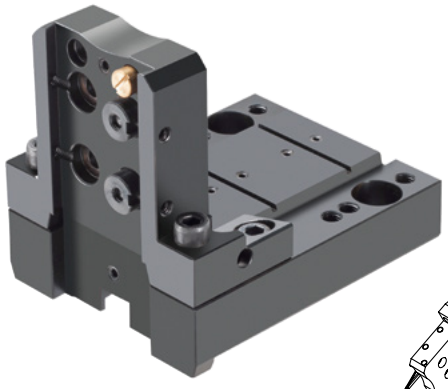
AXIAL TOOLHOLDER

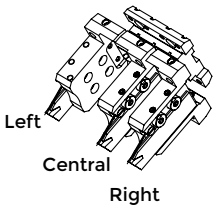


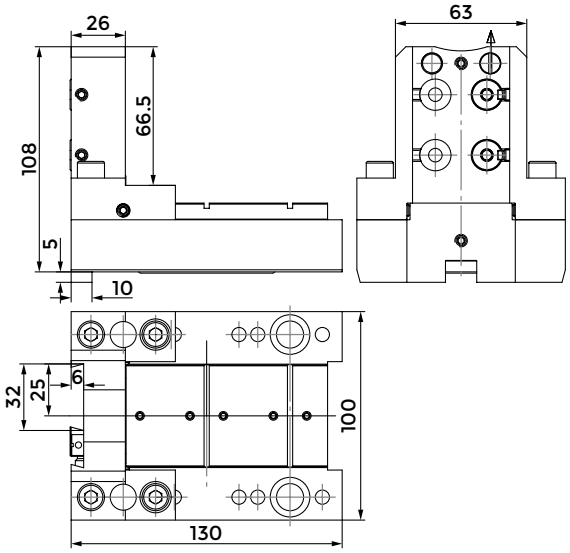


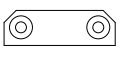
COD.	CLAMPING PLATE	COOLANT BALL	SCREW FOR BALL	O RING
				
128-31504	832-007360	833-001470	811-108018	823-101084

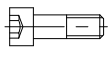
CUT-OFF HOLDER





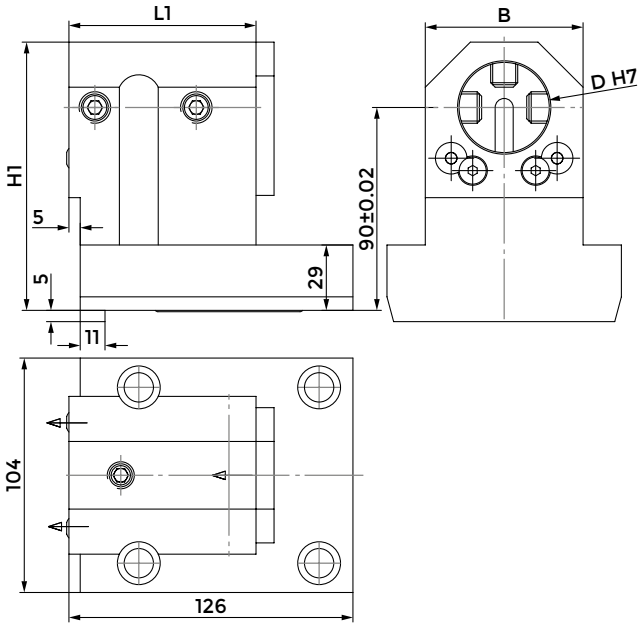


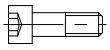
COD.	COOLANT NOZZLE	O RING FOR COOLANT NOZZLE	O RING FOR BODY	O RING FOR BASE	SHIM PLATE
					
128-11536	833-001490	823-101058	823-101061	823-101084	832-014449

COD.	SCREW FOR PLATE	CLAMPING PIN	SPRING	CLAMPING SCREW	SCREW
					
128-11536	811-108037	832-014450	824-300012	811-101028	811-104013

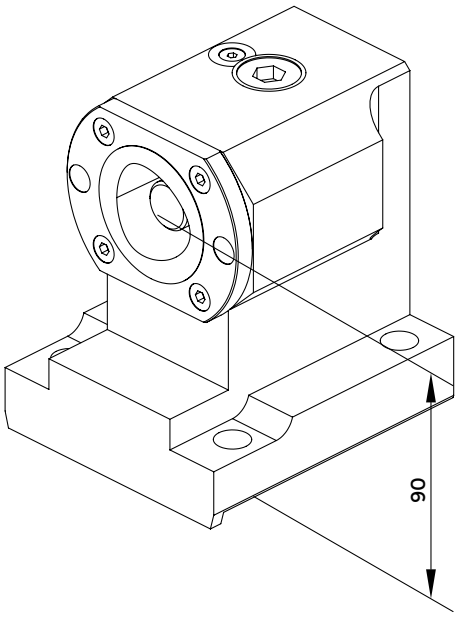
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

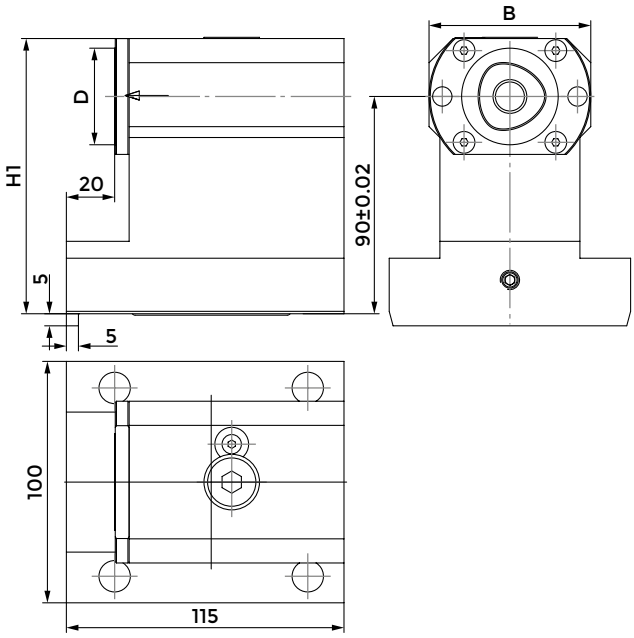




COD.	D	B	H1	L1	CLAMPING SCREW 1 (M14X25)	CLAMPING SCREW 2 (M12X20)	COOLANT BALL	SCREW FOR BALL	O RING	COVER	SCREW FOR COVER
											
128-21518	40	70	119	83	811-102088	811-102044	833-001470	811-108018	823-101084	832-003297	811-101016
128-21527	50	80	124	93	811-102088	811-102044	833-001470	811-108018	823-101084	832-003314	811-101016

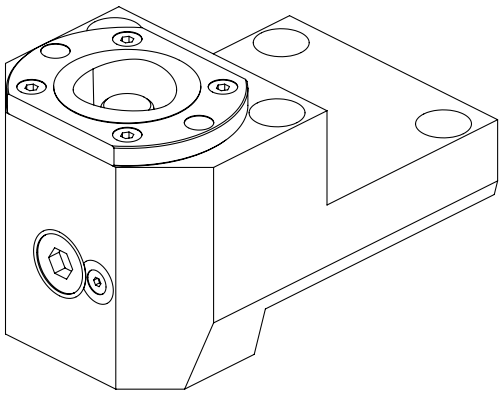
POLYGONAL TOOLHOLDER

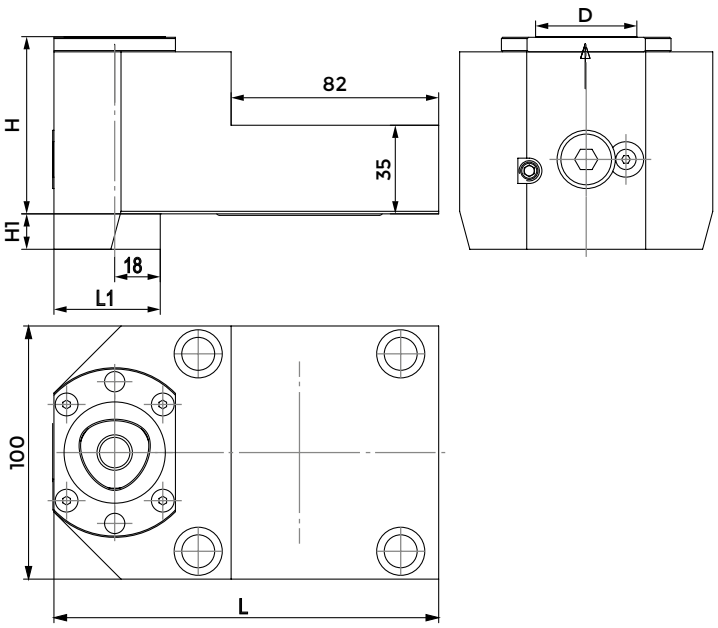




COD.	POLYGONAL	D	H1	B	CLAMPING UNIT	O RING
						
128-11560	C50	50	122	82	CXC50-10	823-101084

POLYGONAL TOOLHOLDER

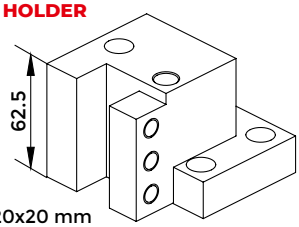




COD.	POLYGONAL	D	H	H1	L	L1	CLAMPING UNIT	O RING
128-11562	C50	50	75	20	160	50	CXC50-10	823-101084

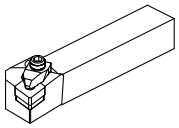
NAKAMURA TOME (BMT44) - NTY3 - SUPER NTMX/NTMXL - WT100 - MURATA MURATEC MT100 WY-100II - NTJ100

FACE AND O.D. CUTTING HOLDER

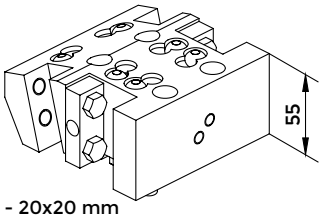


C21410 - 20x20 mm

QUALIFIED TOOL

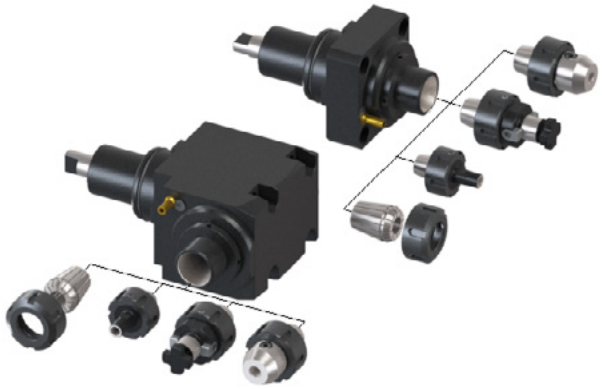


FACE AND O.D. CUTTING HOLDER



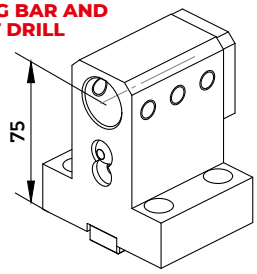
C21478 - 20x20 mm

FAST-IN p. 490
DRIVEN TOOLS p. 298



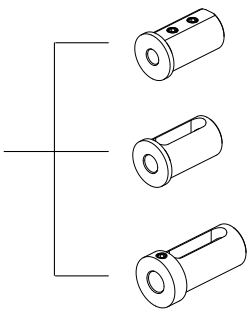
ACCESSORIES

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



C22410

BORING BAR SLEEVE
p. 707

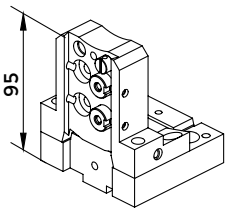


9600 (Ø8 mm)
9601 (Ø10 mm)
9602 (Ø12 mm)

9604 (Ø16 mm)

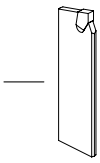
8759 (Ø12 mm)
8761 (Ø16 mm)
8763 (Ø20 mm)

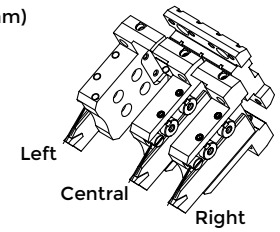
CUT-OFF HOLDER



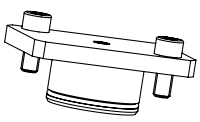
121-22074 (26 mm)

CUT-OFF TOOL



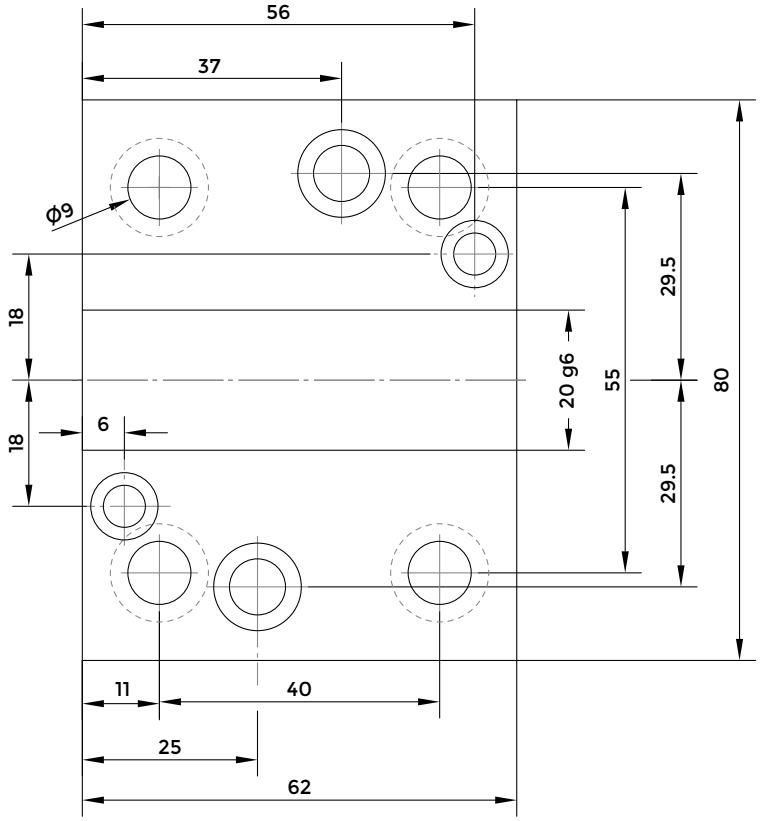


PROTECTION COVER



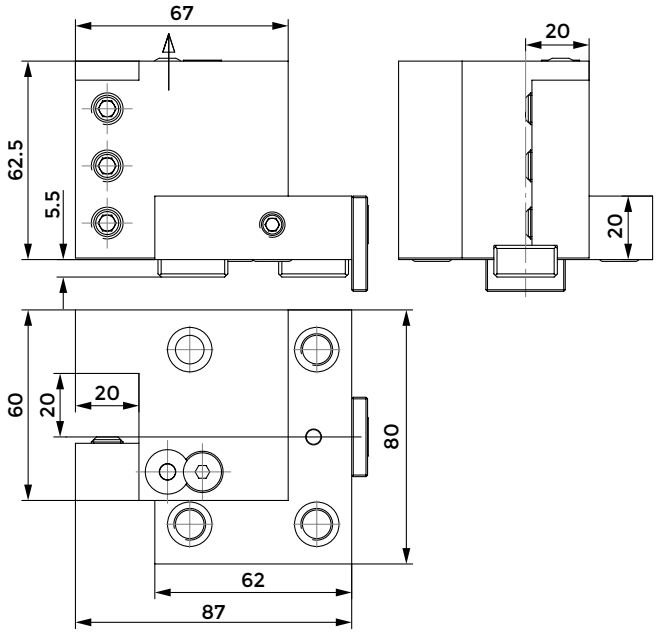
137-00251

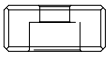
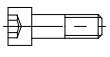
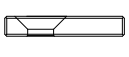
CONNECTION



RADIAL TOOLHOLDER

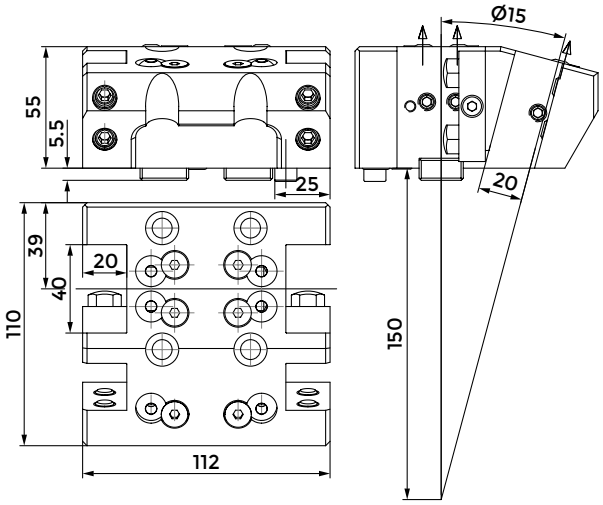


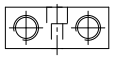
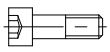
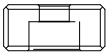
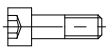


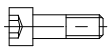
COD.	CLAMPING SCREW	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL	STOP PLATE	SCREW FOR PLATE	O RING FOR COOLANT INTAKE
								
C21410	811-102038	814-203270	811-101027	833-001470	811-108018	832-003232	811-108029	823-101083

RADIAL TOOLHOLDER

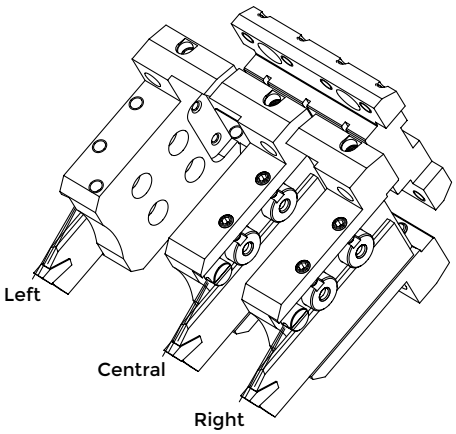


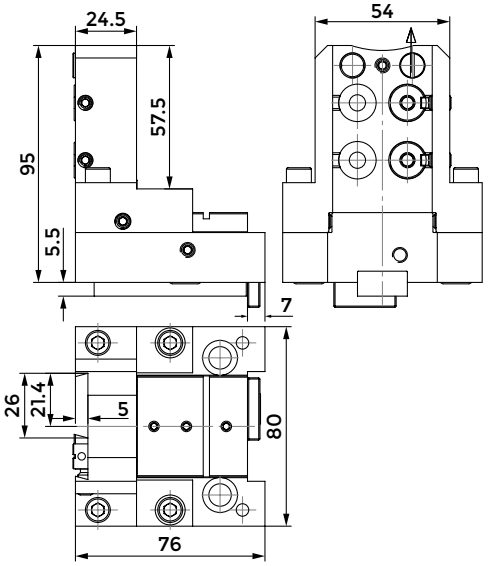


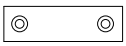
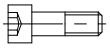
COD.	CLAMPING SCREW 1	CLAMPING SCREW 2	CLAMPING PLATE	SCREW FOR PLATE	KEY	SCREW FOR KEY
						
C21478	811-102037	811-301108	832-002184	811-101019	814-203270	811-101027

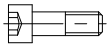
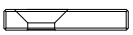
COD.	STOP SCREW	COOLANT BALL	SCREW FOR BALL	O RING FOR COOLANT INTAKE 1 (d7 59X2.62)	O RING FOR COOLANT INTAKE 2 (d6X2)
					
C21478	811-101026	833-001470	811-108018	823-101083	823-101082

CUT-OFF HOLDER



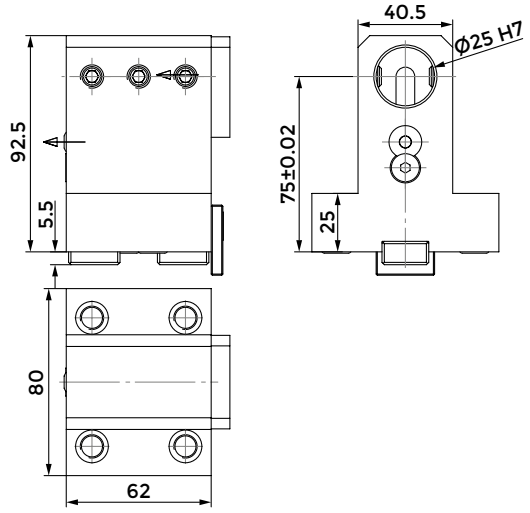


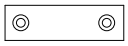
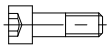
COD.	KEY	SCREW FOR KEY	COOLANT NOZZLE	O RING FOR COOLANT NOZZLE	O RING FOR BODY	SHIM PLATE	SCREW FOR PLATE
							
121-22074	814-203380	811-101011	833-001490	823-101058	823-101061	832-014448	811-108037

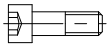
COD.	CLAMPING PIN	SPRING	CLAMPING SCREW	SCREW	STOP PLATE	SCREW FOR PLATE	O RING FOR COOLANT INTAKE
							
121-22074	832-014447	824-300012	811-101028	811-104013	832-003232	811-108029	823-101083

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

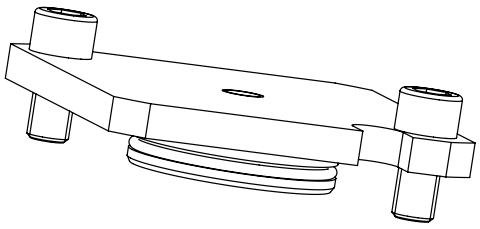


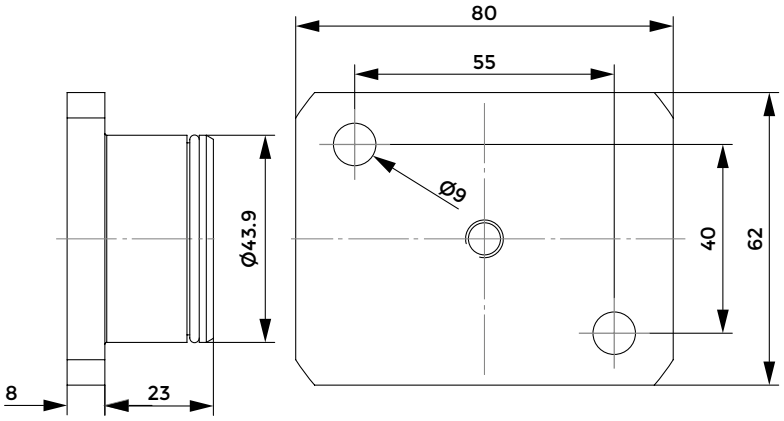


COD.	CLAMPING SCREW	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
					
C22410	811-102035	814-203270	811-101027	833-001470	811-108018

COD.	COVER	SCREW FOR COVER	STOP PLATE	SCREW FOR PLATE	O RING FOR COOLANT INTAKE
					
C22410	832-003291	811-101016	832-003232	811-108029	823-101083

PROTECTION COVER



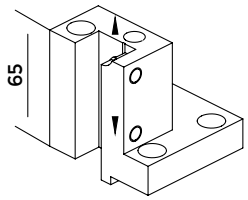


COD.	O RING
	
137-00251	823-101066

NAKAMURA TOME (BMT55) - AS-200 - NTM3 - NTY3-250 - SC-150M - SC-200MY - SC-250M - SUPRERNTJ TMC-20 II M/ML - TW-10 - TW-20 - WT-20 II M/MY - WT150/200 - WT-250 - WTS-150 - WTW-150/160 - WT200 II (M,MY) WY-250

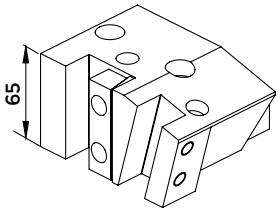
CMZ - TX52/66 - SUPER NTJ - NTM3 - SC150/250 - TX52 Y3-Y2 QUATTRO-Y2 TW IN - TX66 Y3-Y2 QUATTRO-Y2 TW IN TTL 52 - TTL 66 - TA15-20-25-30M/Y/MS/MY/YS 15ST

FACE AND O.D. CUTTING HOLDER



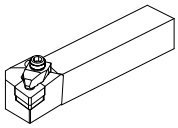
W1431 - 20x20 mm

FACE AND O.D. CUTTING HOLDER

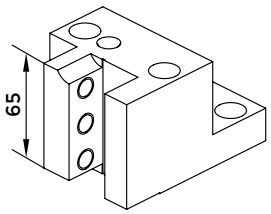


R1452 - 20x20 mm

QUALIFIED TOOL

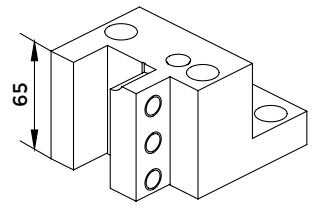


FACE AND O.D. CUTTING HOLDER



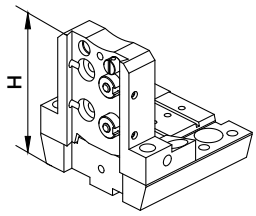
Z2414 - 25x25 mm

FACE AND O.D. CUTTING HOLDER

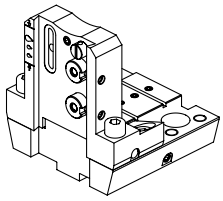


Z2413 - 25x25 mm

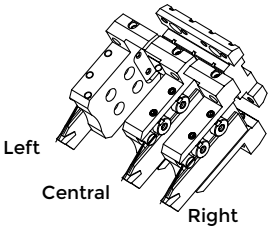
CUT-OFF HOLDER



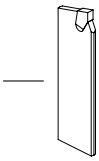
121-22076 (h=32 mm - H=100 mm)



121-22076-IC (INTERNAL COOLANT)

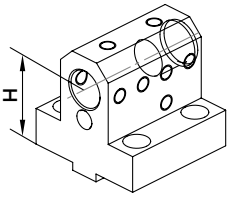


CUT-OFF TOOL



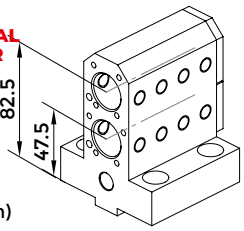
ACCESSORIES

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



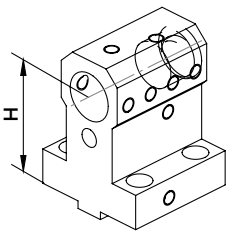
W1417 D25 - H=55 mm (Ø25 mm)
W4437 D25 - H=75 mm (Ø25 mm)

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



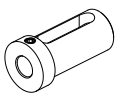
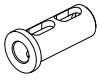
R8418 (Ø25 mm)

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



W1417 D32 - H=55 mm (Ø32 mm)
Z2417 D32 - H=70 mm (Ø32 mm)
Z7417 D32 - H=80 mm (Ø32 mm)

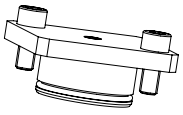
BORING BAR SLEEVE p. 707

	D25	D32
	9600 (Ø8 mm) 9601 (Ø10 mm) 9602 (Ø12 mm)	9607 (Ø8 mm) 9608 (Ø10 mm) 9609 (Ø12 mm)
	9604 (Ø16 mm)	9611 (Ø16 mm) 9613 (Ø20 mm) 9614 (Ø25 mm)
	8759 (Ø12 mm) 8761 (Ø16 mm) 8763 (Ø20 mm)	8764 (Ø16 mm) 8766 (Ø20 mm) 8767 (Ø25 mm)
	5968 (Ø6 mm) 5969 (Ø8 mm) 5970 (Ø10 mm) 5971 (Ø12 mm)	
	5995 (Ø16 mm)	

FAST-IN p. 490 DRIVEN TOOLS p. 298



PROTECTION COVER

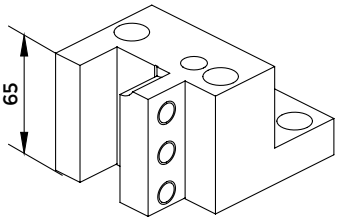


137-00249

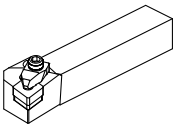
NAKAMURA TOME (BMT55) - AS-200 - NTM3 - NTY3-250 - SC-150M - SC-200MY - SC-250M - SUPRERNTJ TMC-20 II M/ML - TW-10 - TW-20 - WT-20 II M/MY - WT150/200 - WT-250 - WTS-150 - WTW-150/160 - WT200 II (M,MY) WY-250

CMZ - TX52/66 - SUPER NTJ - NTM3 - SC150/250 - TX52 Y3-Y2 QUATTRO-Y2 TW IN - TX66 Y3-Y2 QUATTRO-Y2 TW IN TTL 52 - TTL 66 - TA15-20-25-30M/Y/MS/MY/YS 15ST

FACE AND O.D. CUTTING HOLDER

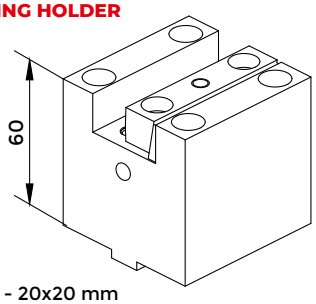


QUALIFIED TOOL



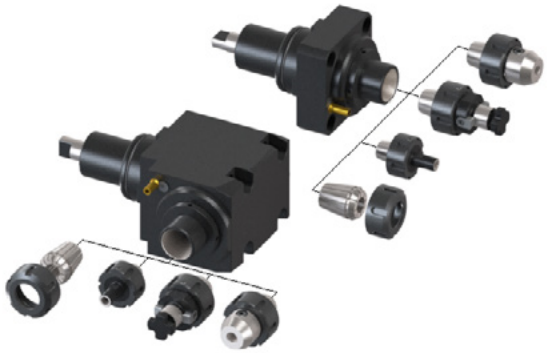
W1413 - 20x20 mm

FACE AND O.D. CUTTING HOLDER

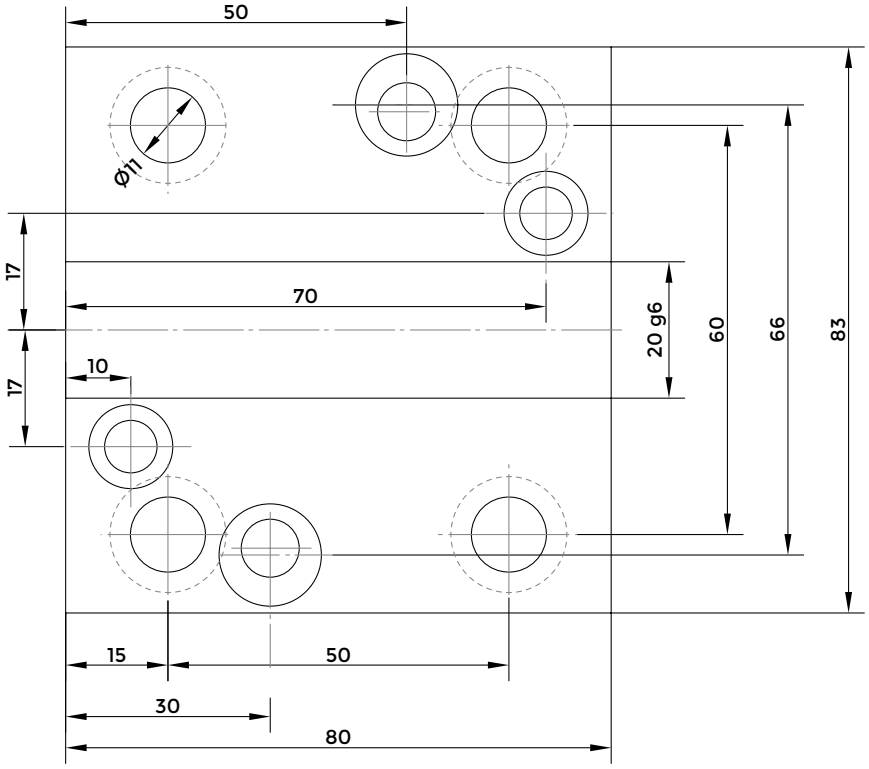


W1415 - 20x20 mm

FAST-IN p. 490
DRIVEN TOOLS p. 298

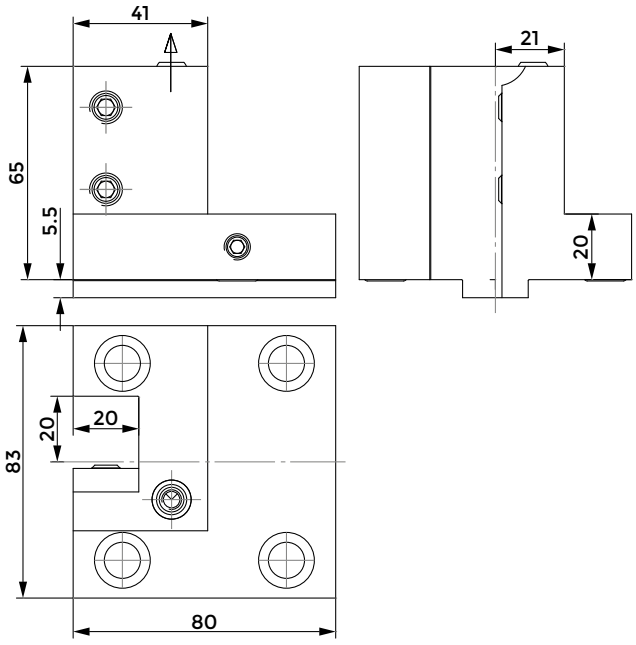


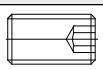
CONNECTION



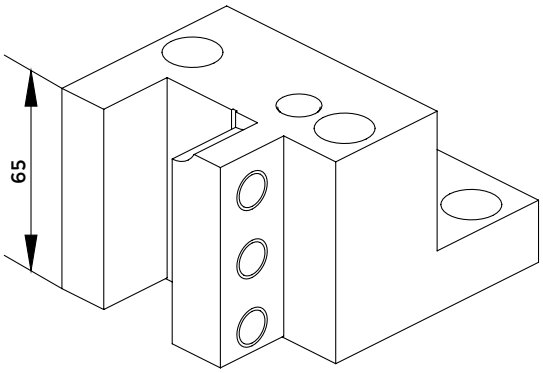
RADIAL TOOLHOLDER

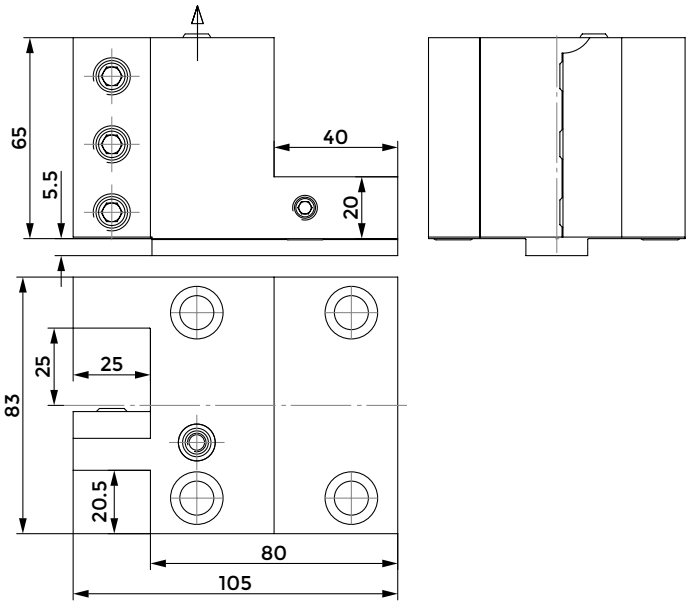




COD.	CLAMPING SCREW	COOLANT NOZZLE	O RING
			
W1431	811-102038	833-001110	823-101015

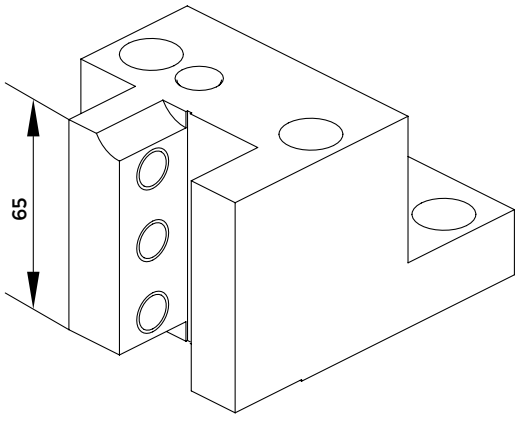
RADIAL TOOLHOLDER

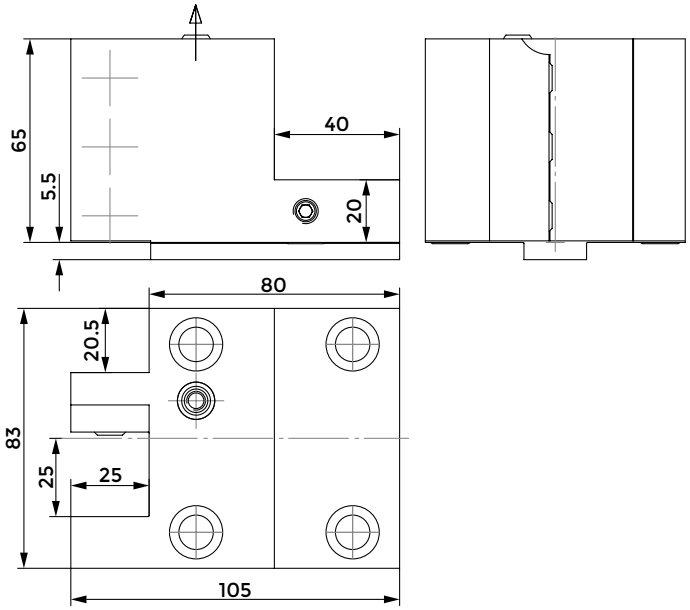


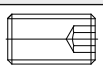


COD.	CLAMPING SCREW	COOLANT NOZZLE	O RING
			
Z2413	811-102044	833-001110	823-101015

RADIAL TOOLHOLDER

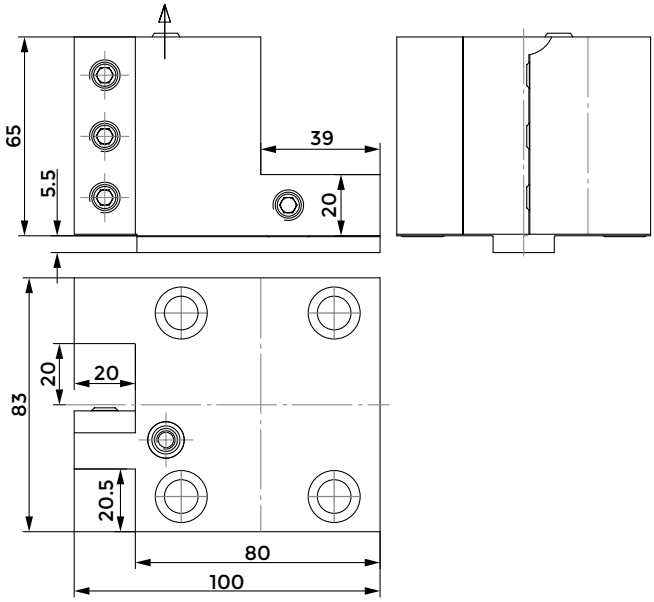




COD.	CLAMPING SCREW	COOLANT NOZZLE	O RING
			
Z2414	811-102044	833-001110	823-101015

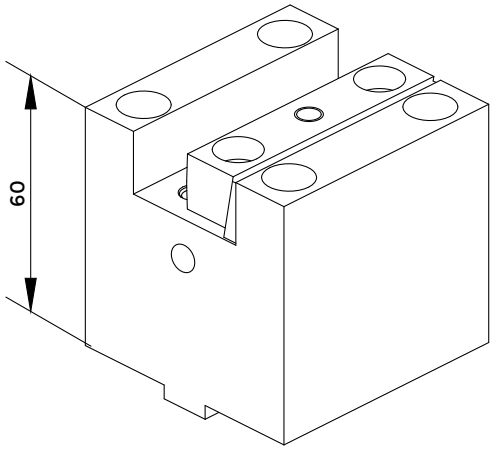
RADIAL TOOLHOLDER

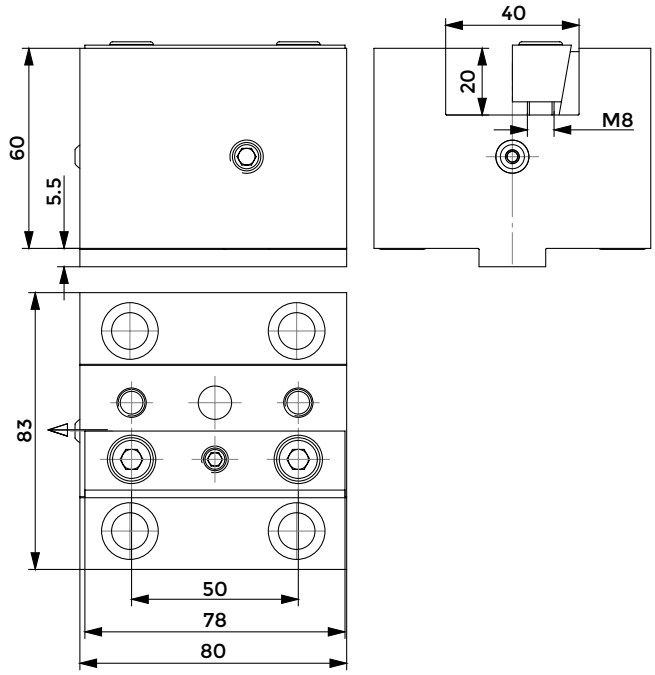




COD.	CLAMPING SCREW	COOLANT NOZZLE	O RING
			
W1413	811-102038	833-001110	823-101004

AXIAL TOOLHOLDER

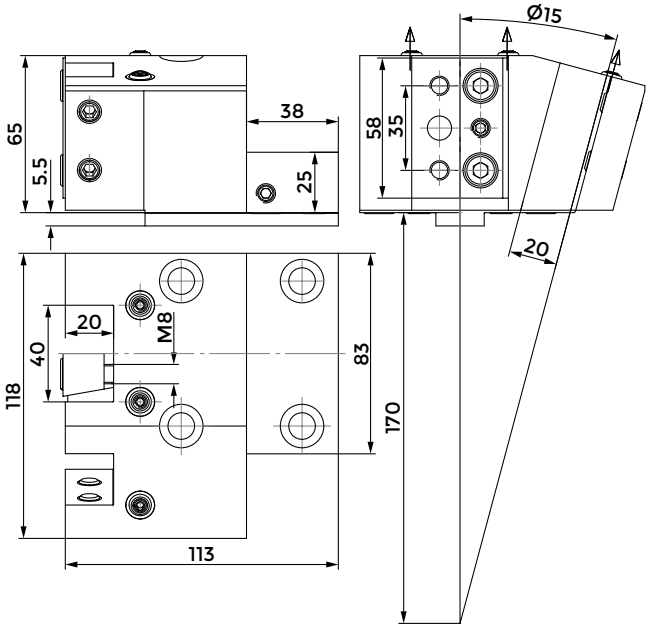




COD.	CLAMPING PLATE	COOLANT NOZZLE	O RING
			
W1415	832-007200	832-001100	823-101004

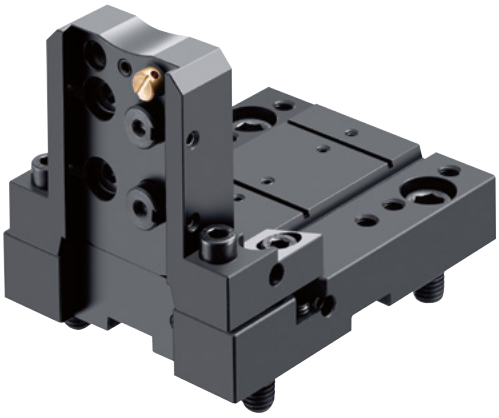
RADIAL TOOLHOLDER

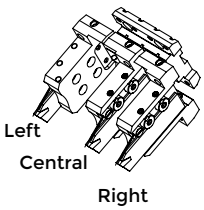


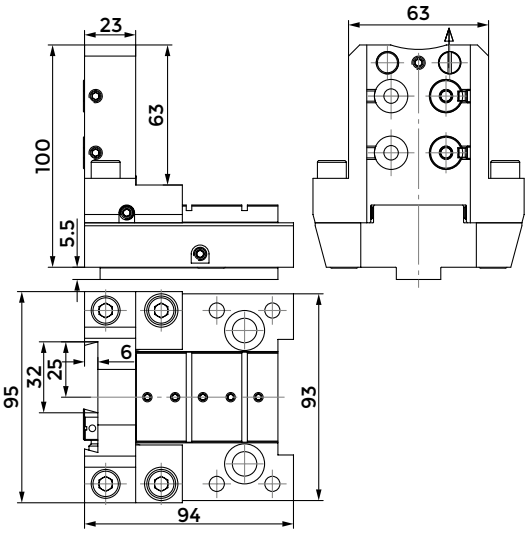


COD.	CLAMPING PLATE	CLAMPING SCREW	COOLANT NOZZLE	O RING 1 (D9X2)	O RING 2 (D6X2)
					
R1452	832-007160	811-102037	833-001110	823-101015	823-101082

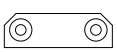
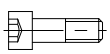
CUT-OFF HOLDER





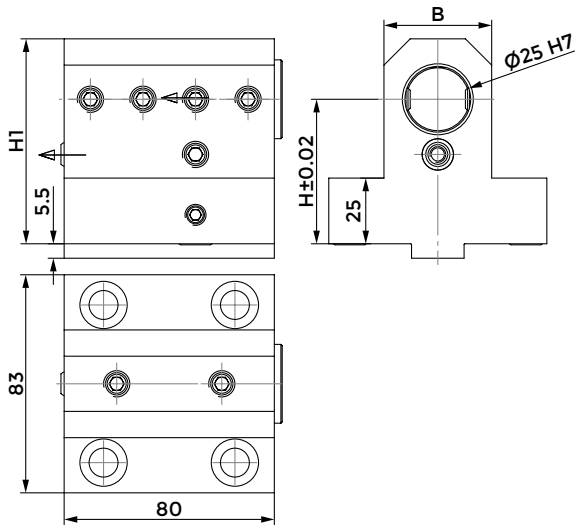


COD.	INTERNAL COOLING	COOLANT NOZZLE	O RING FOR COOLANT NOZZLE	O RING FOR BODY	O RING FOR COOLANT INTAKE	O RING INTERNAL COOLANT
						
121-22076	NO	833-001490	823-101058	823-101061	823-101015	-
121-22076-IC	YES	833-001490	823-101058	823-101061	823-101015	823-201140

COD.	SHIM PLATE	SCREW FOR PLATE	CLAMPING PIN	SPRING	CLAMPING SCREW	SCREW
						
121-22076	832-014448	811-108037	832-014450	824-300012	811-101028	811-104013
121-22076-IC	832-014448	811-108037	832-014450	824-300012	811-101028	811-104013

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

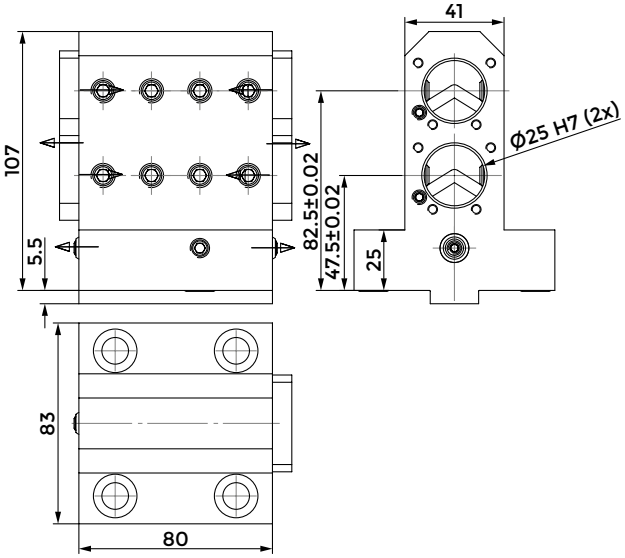


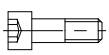


COD.	H	H1	B	CLAMPING SCREW 1 (M10X10)	CLAMPING SCREW 2 (M10X12)	COOLANT NOZZLE	SCREW PER INTERNAL COOLANT	O RING FOR COOLANT INTAKE	COVER	O RING COVER
										
W1417 D25	55	78	41	811-102035	-	833-001110	811-102038	823-101015	823-301150	823-201140
W4437 D25	75	98	41	811-102035	-	833-001110	811-102038	823-101015	823-301150	823-201140

DOUBLE TOOLHOLDER FOR BORING BAR

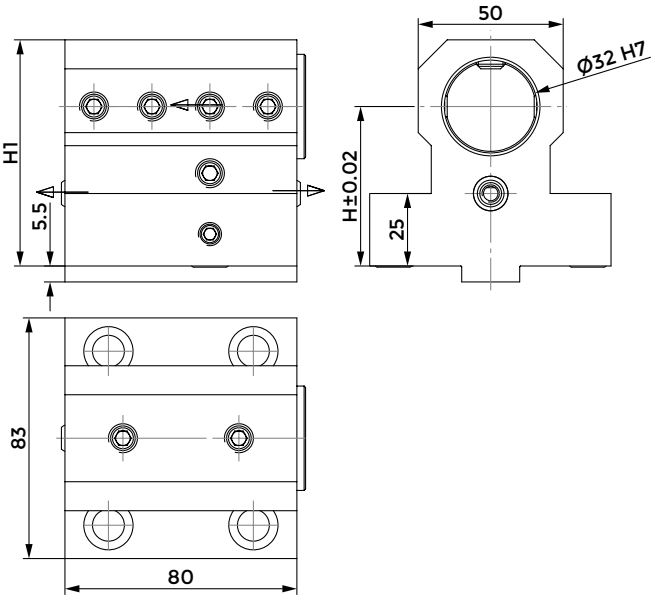




COD.	CLAMPING SCREW	COOLANT NOZZLE	O RING FOR COOLANT INTAKE	COVER	SCREW FOR COVER
					
R8418	811-102035	833-001110	823-101015	832-003295	811-101010

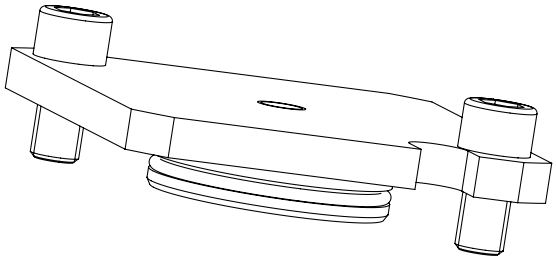
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

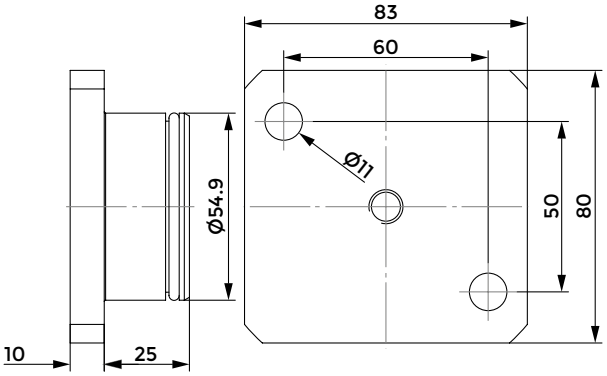




COD.	H	H1	CLAMPING SCREW	COOLANT NOZZLE	SCREW FOR INTERNAL COOLANT	O RING FOR COOLANT INTAKE	PLUG	O RING FOR PLUG	STOP PLATE	SCREW FOR PLATE
W1417 D32	55	78	811-102035	833-001110	811-102038	823-101015	823-301140	823-201080	-	-
Z2417 D32	70	96.5	811-102035	833-001110	811-102038	823-101015	823-301140	823-201080	-	-
Z7417 D32	80	106.5	811-102035	833-001110	811-102038	823-101015	823-301140	823-201080	832-003349	811-108029

PROTECTION COVER

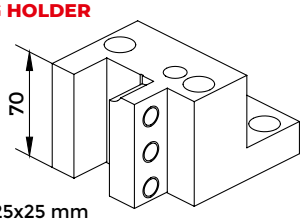




COD.	O RING
137-00249	823-101064

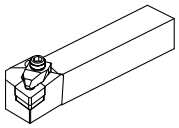
NAKAMURA TOME (BMT65) - WT3000 / SC300 / TW20 / TMC-200M/MY/MM/MMY/MMYY (12 stations) TW30M/MY/MM/MMY/MMYY (16 stations)

FACE AND O.D. CUTTING HOLDER

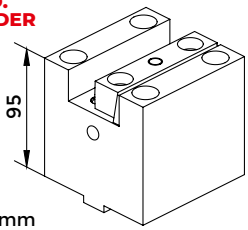


W2413 - 25x25 mm

QUALIFIED TOOL

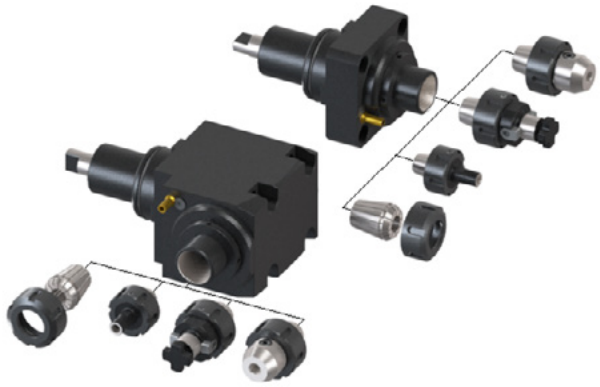


FACE AND O.D. CUTTING HOLDER



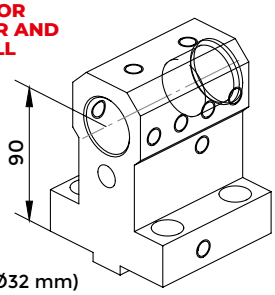
W2415 - 25X25 mm

FAST-IN p. 490
DRIVEN TOOLS p. 298



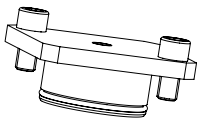
ACCESSORIES

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



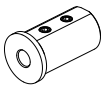
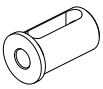
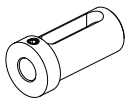
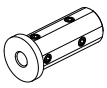
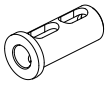
W2417 D32 (Ø32 mm)

PROTECTION COVER

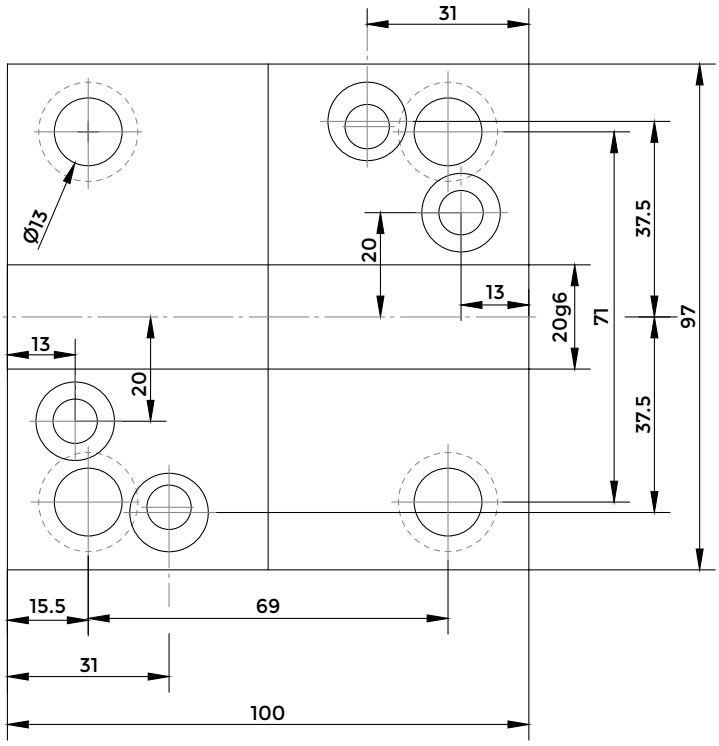


137-00250

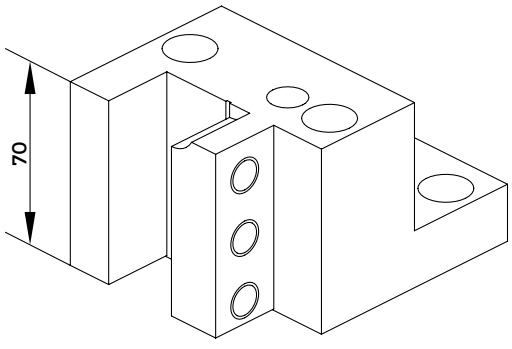
BORING BAR SLEEVE p. 707

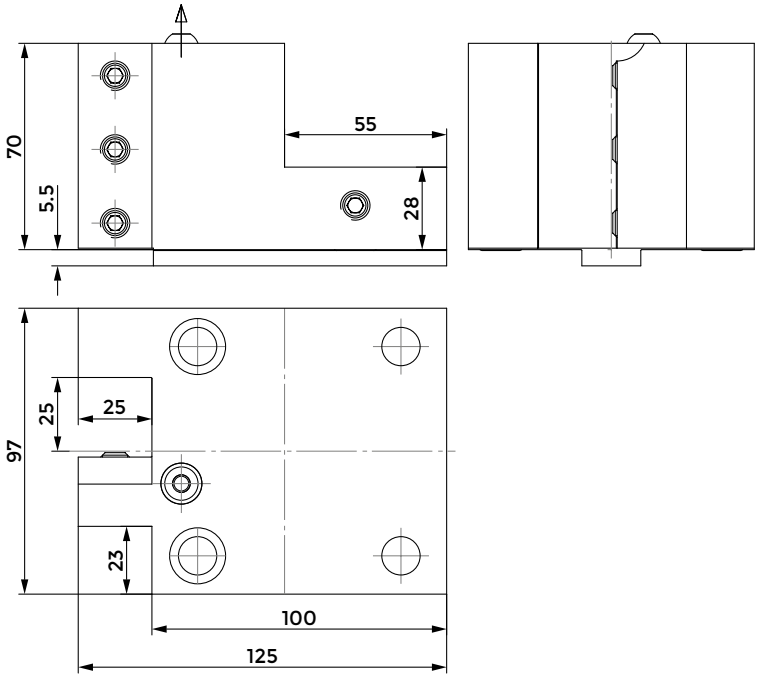
	D25	D32
	9600 (Ø8 mm) 9601 (Ø10 mm) 9602 (Ø12 mm)	9607 (Ø8 mm) 9608 (Ø10 mm) 9609 (Ø12 mm)
	9604 (Ø16 mm)	9611 (Ø16 mm) 9613 (Ø20 mm) 9614 (Ø25 mm)
	8759 (Ø12 mm) 8761 (Ø16 mm) 8763 (Ø20 mm)	8764 (Ø16 mm) 8766 (Ø20 mm) 8767 (Ø25 mm)
	5968 (Ø6 mm) 5969 (Ø8 mm) 5970 (Ø10 mm) 5971 (Ø12 mm)	5316 (Ø8 mm) 5317 (Ø10 mm) 5318 (Ø12 mm) 5319 (Ø16 mm) 5320 (Ø20 mm)
	5995 (Ø16 mm)	5333 (Ø25 mm)

CONNECTION



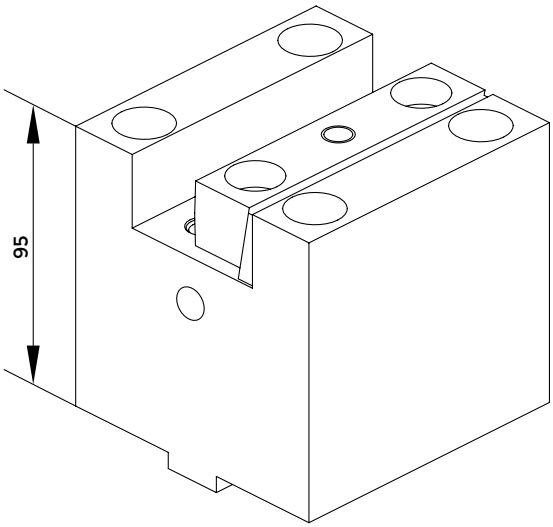
RADIAL TOOLHOLDER

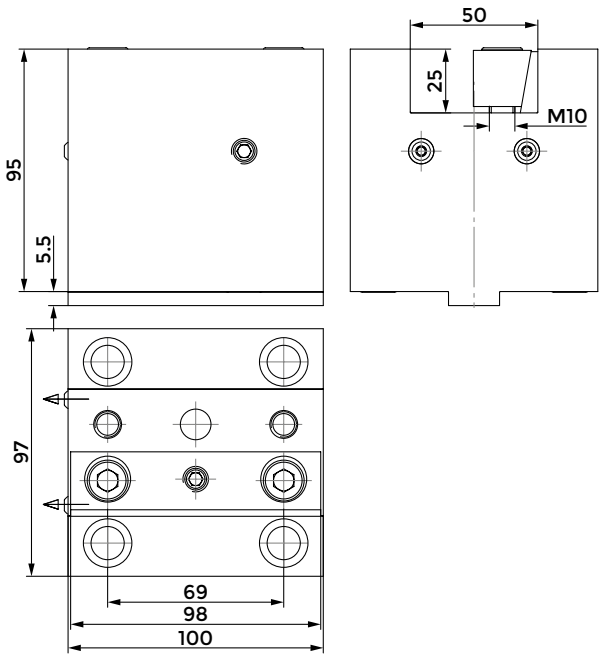




COD.	CLAMPING SCREW	COOLANT NOZZLE	O RING
			
W2413	811-102039	833-001120	823-101004

AXIAL TOOLHOLDER

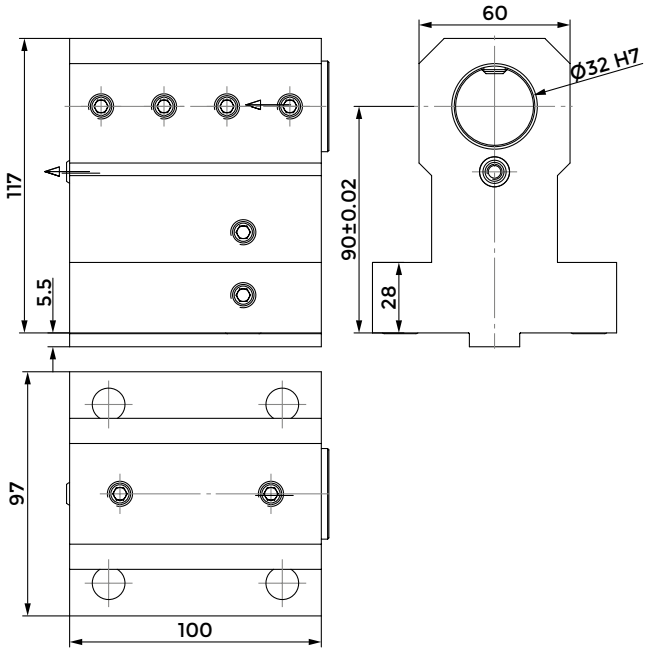




COD.	CLAMPING SCREW	COOLANT NOZZLE	O RING
			
W2415	832-007220	833-001100	823-101004

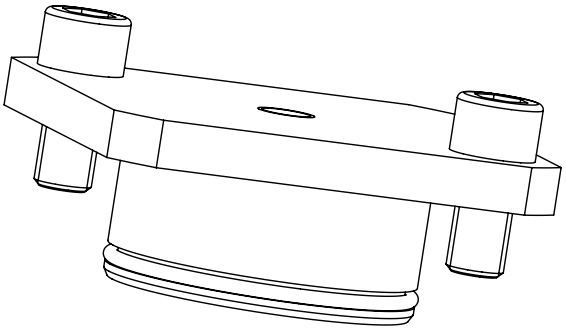
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

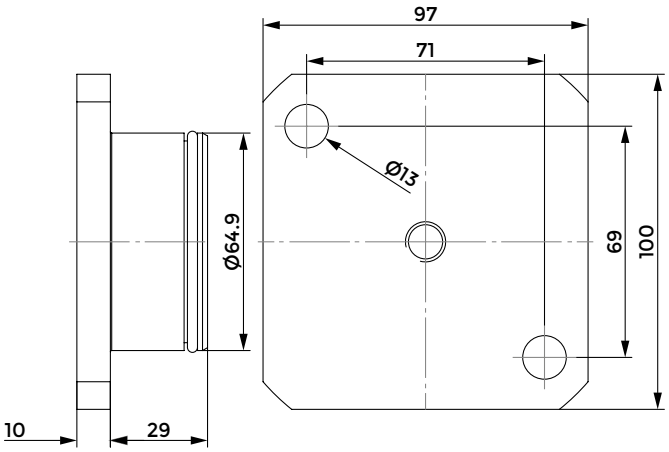




COD.	CLAMPING SCREW	COOLANT NOZZLE	SCREW INTERNAL COOLANT	O RING FOR COOLANT INTAKE	PLUG	O RING FOR PLUG
						
W2417 D32	811-102060	833-001110	811-102038	823-101004	823-301140	823-201080

PROTECTION COVER

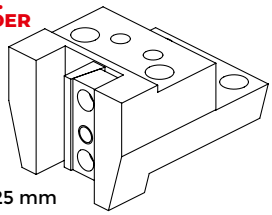




COD.	O RING
	
137-00250	823-101084

DOOSAN PUMA - 230M/MS - 240M/MS

FACE AND O.D. CUTTING HOLDER

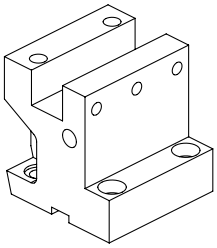


128-41501 - 25x25 mm

QUALIFIED TOOL



FACE AND O.D. CUTTING HOLDER



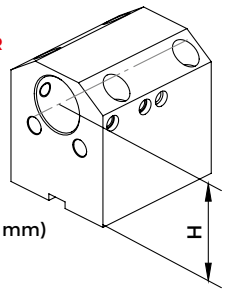
128-31501 - 25x25 mm

ACCESSORIES

BORING BAR SLEEVE

p. 707

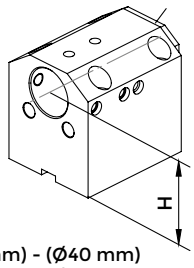
TOOLHOLDER FOR BORING BAR



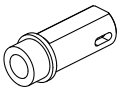
128-21501
(H=70 mm) - (Ø40 mm)

COVER: 832-003216

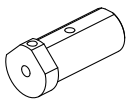
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



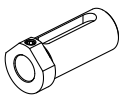
128-21502 (H=70 mm) - (Ø40 mm)
128-21522 (H=60 mm) - (Ø40 mm)



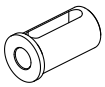
8958 <MT1>
8959 <MT2>
8960 <MT3>



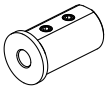
8916 (Ø10 mm)
8917 (Ø12 mm)
8918 (Ø16 mm)



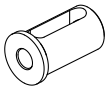
8919 (Ø20 mm)
8920 (Ø25 mm)
8921 (Ø32 mm)



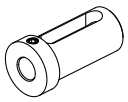
8897 (Ø20 mm)
8898 (Ø25 mm)



9615 (Ø8 mm)
9616 (Ø10 mm)
9617 (Ø12 mm)

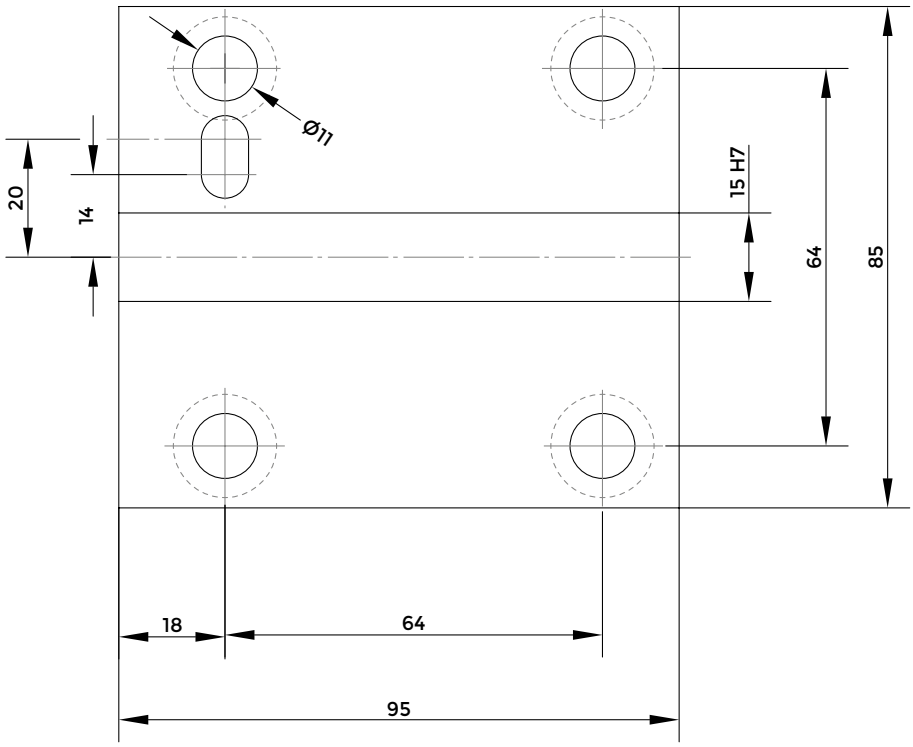


9619 (Ø16 mm)
9621 (Ø20 mm)
9622 (Ø25 mm)
9623 (Ø32 mm)



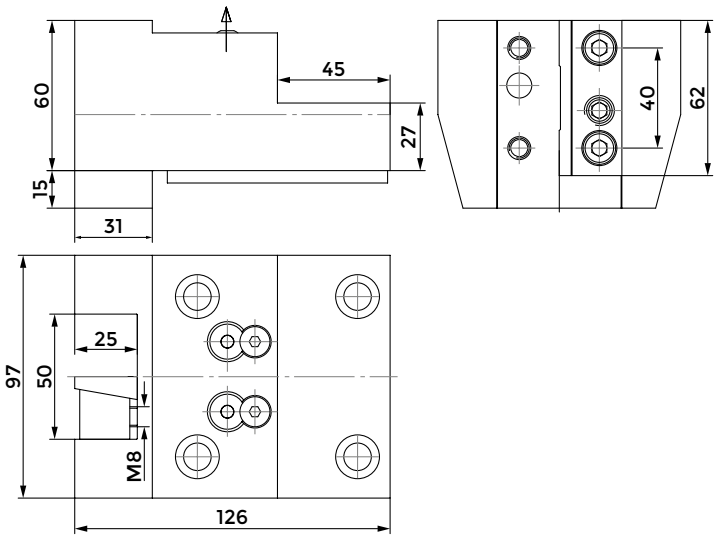
8768 (Ø16 mm)
8770 (Ø20 mm)
8771 (Ø25 mm)
8772 (Ø32 mm)

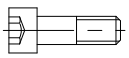
CONNECTION



RADIAL TOOLHOLDER

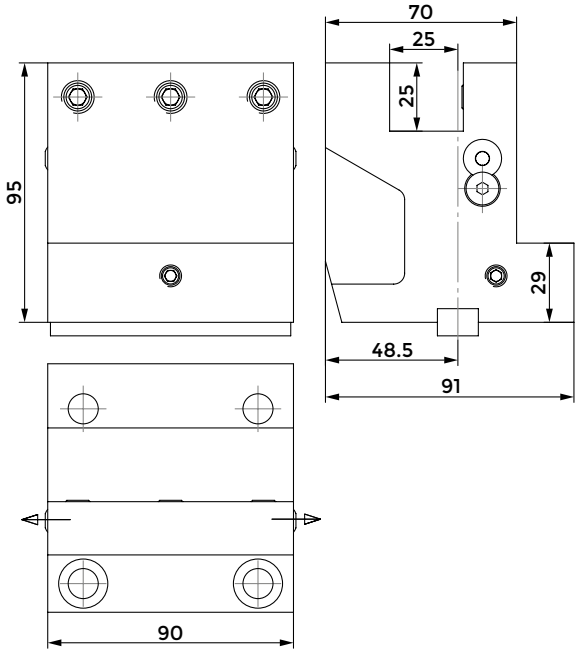


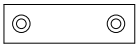
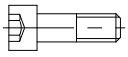


COD.	CLAMPING PLATE	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
					
128-41501	832-018450	814-203230	811-101017	833-001470	811-108018

AXIAL TOOLHOLDER

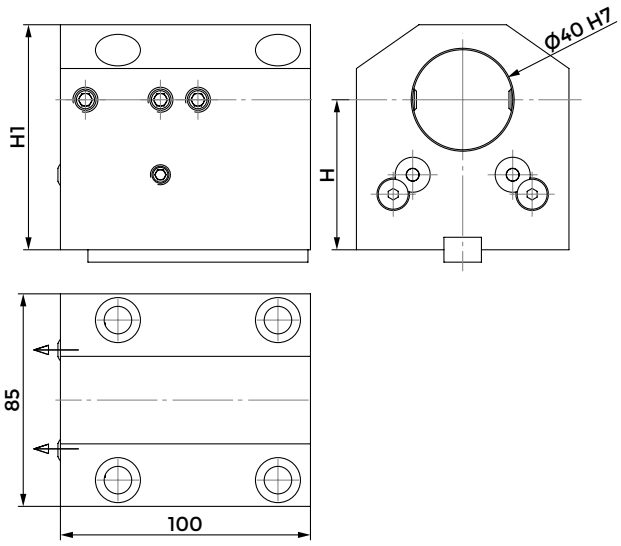


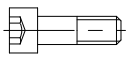


COD.	CLAMPING SCREW	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
					
128-31501	811-102044	814-203230	811-101017	833-001470	811-108018

TOOLHOLDER FOR BORING BAR

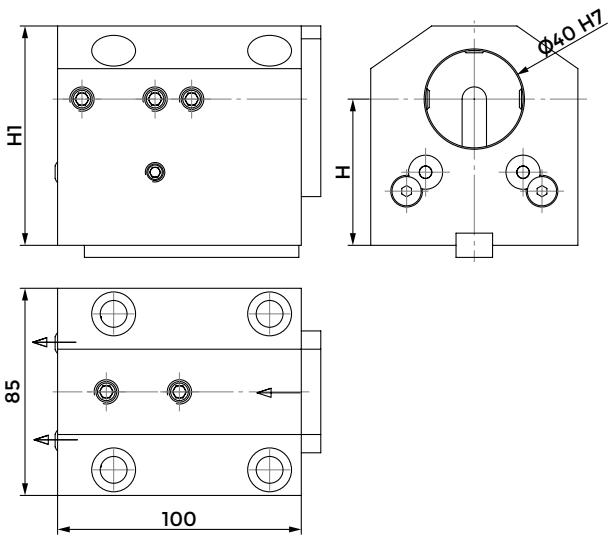


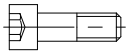
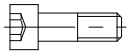


COD.	H	H1	CLAMPING SCREW	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
							
128-21501	70	100	811-102038	814-203230	811-101017	833-001470	811-108018

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

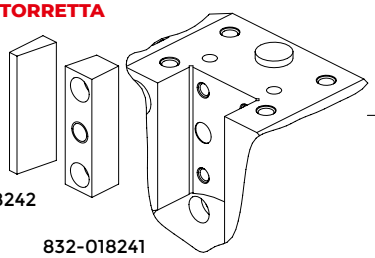




COD.	H	H1	CLAMPING SCREW 1 (M10X20)	CLAMPING SCREW 2 (M10X10)	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL	COVER	SCREW FOR COVER
										
128-21502	70	100	811-102038	811-102035	814-203230	811-101017	833-001470	811-108018	832-003216	811-101017
128-21522	60	90	811-102038	811-102035	814-203230	811-101017	833-001470	811-108018	832-003216	811-101017

DOOSAN PUMA - 230S - 240S - LYNX210

MONTAGGIO DIRETTO SULLA TORRETTA



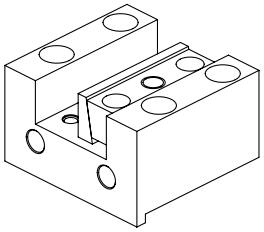
832-018242

832-018241

QUALIFIED TOOL

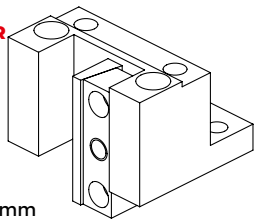


FACE AND O.D. CUTTING HOLDER



128-32009 - 25x25 mm

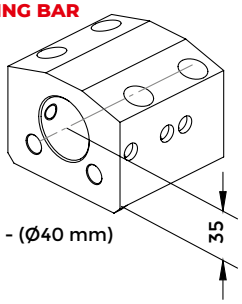
FACE AND O.D. CUTTING HOLDER



128-42012 - 25x25 mm

ACCESSORIES

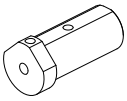
TOOLHOLDER FOR BORING BAR



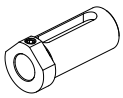
128-22024 - (Ø40 mm)

BORING BAR SLEEVE

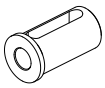
p. 707



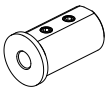
8916 (Ø10 mm)
8917 (Ø12 mm)
8918 (Ø16 mm)



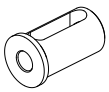
8919 (Ø20 mm)
8920 (Ø25 mm)
8921 (Ø32 mm)



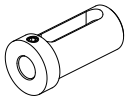
8897 (Ø20 mm)
8898 (Ø25 mm)



9615 (Ø8 mm)
9616 (Ø10 mm)
9617 (Ø12 mm)

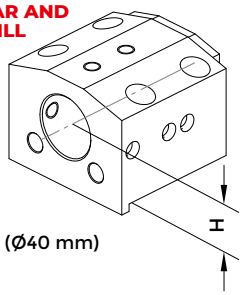


9619 (Ø16 mm)
9621 (Ø20 mm)
9622 (Ø25 mm)
9623 (Ø32 mm)



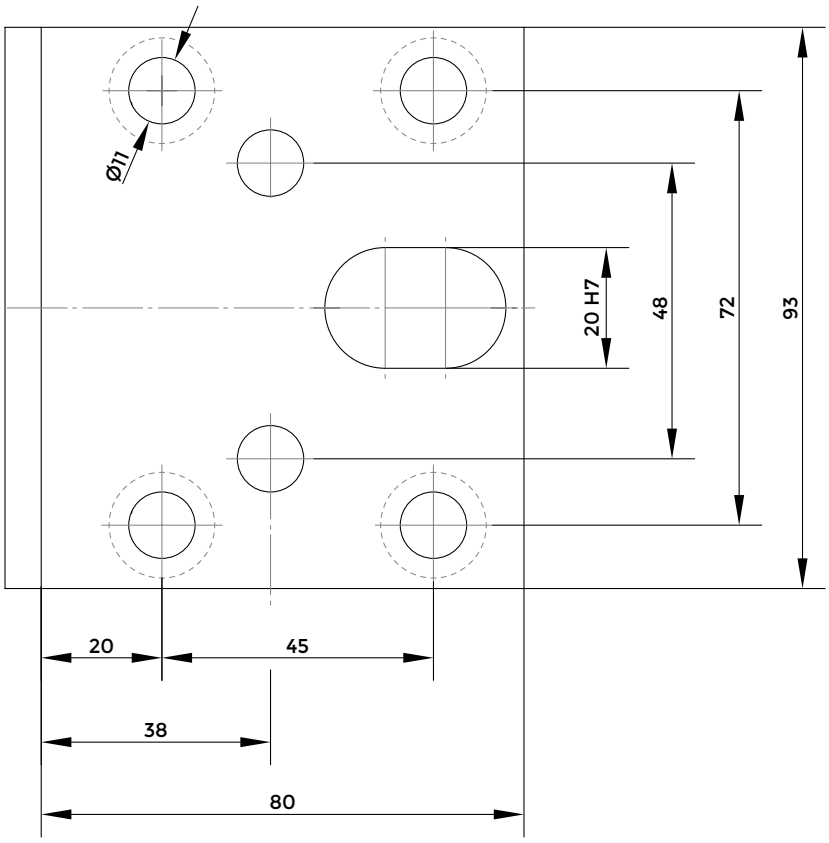
8768 (Ø16 mm)
8770 (Ø20 mm)
8771 (Ø25 mm)
8772 (Ø32 mm)

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



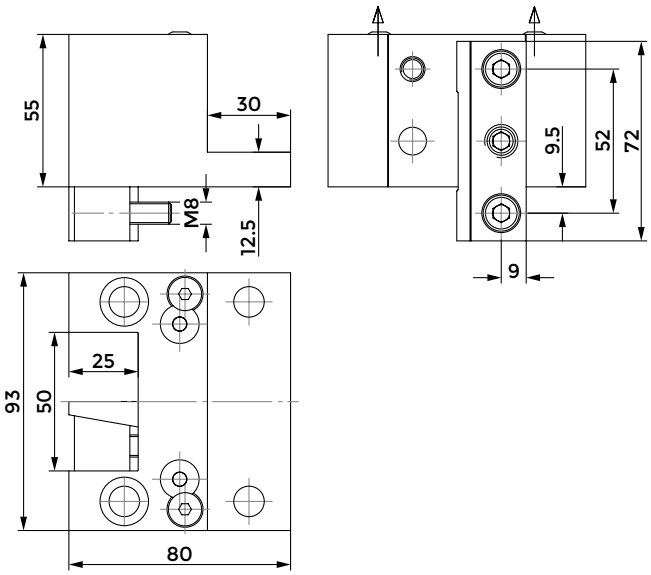
128-22025 - (Ø40 mm)

CONNECTION



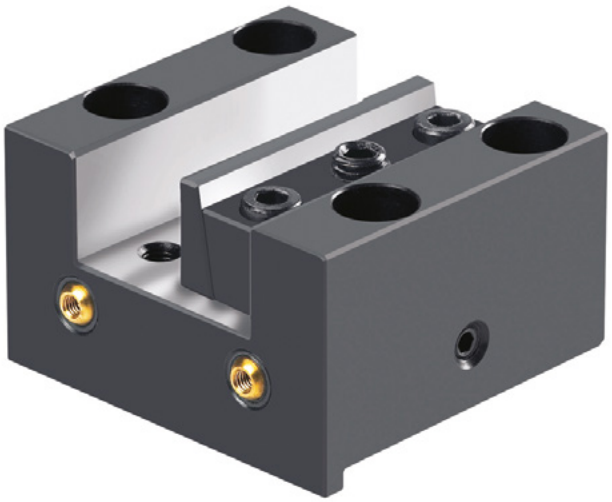
RADIAL TOOLHOLDER

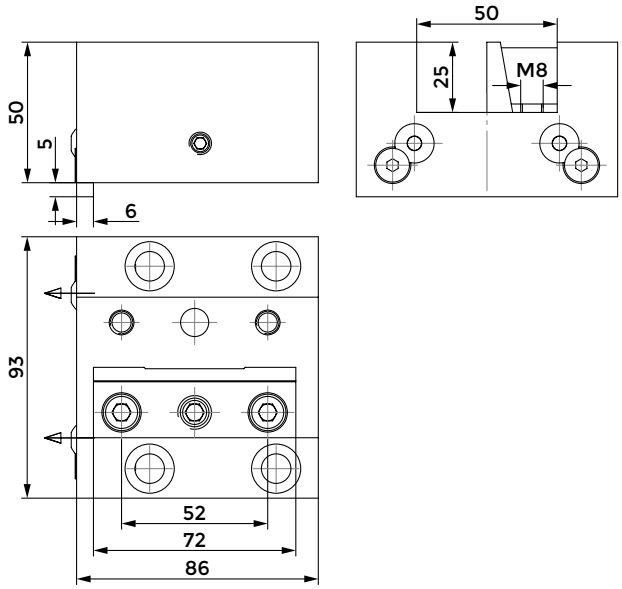




COD.	CLAMPING PLATE	COOLANT BALL	SCREW FOR BALL
			
128-42012	832-018240	833-001470	811-108018

AXIAL TOOLHOLDER

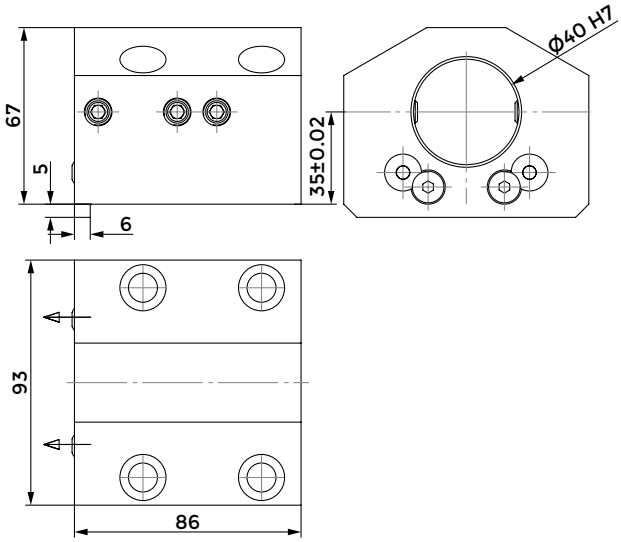




COD.	CLAMPING PLATE	COOLANT BALL	SCREW FOR BALL
			
128-32009	832-018240	833-001470	811-108018

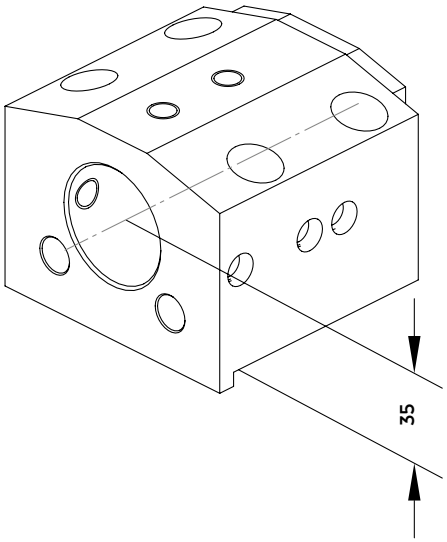
TOOLHOLDER FOR BORING BAR

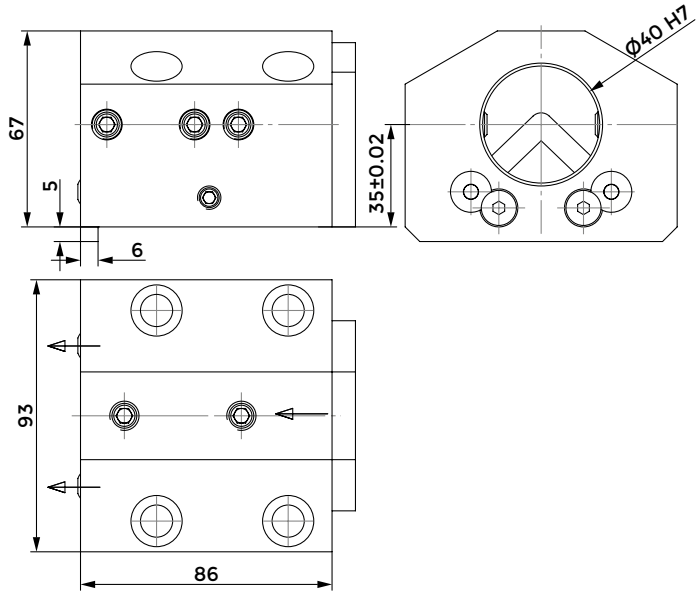




COD.	CLAMPING SCREW	COOLANT BALL	SCREW FOR BALL
			
128-22024	811-102039	833-001470	811-108018

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

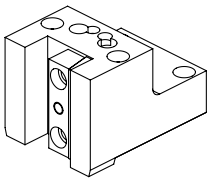




COD.	CLAMPING SCREW 1 (M10X25)	CLAMPING SCREW 2 (M10X12)	COOLANT BALL	SCREW FOR BALL	COVER	SCREW FOR COVER
						
128-22025	811-102039	811-102036	833-001470	811-108018	832-003193	811-108024

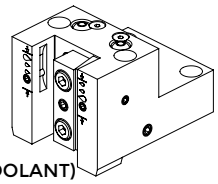
DOOSAN (BMT45) - LYNX 2100LYA/LYB (24 position index) - LYNX 2100MA/220 (LMSA, LMSC) - 220 (LSYA, LSYC) 220 (M,LM) - LYNX 220 (MA, LMA, MC, LMC) - 200 (YA, YC, LYA, LYC) - PUMA MX1600 (T, ST)
HARDINGE SMEC - BMT45 - PL1600 (M,CM)

FACE AND O.D. CUTTING HOLDER



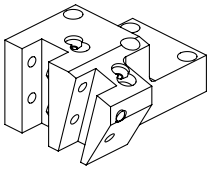
128-41518
20x20 mm

FACE AND O.D. CUTTING HOLDER



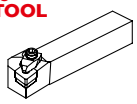
128-41518-IC
20x20 mm
(INTERNAL COOLANT)

FACE AND O.D. CUTTING HOLDER

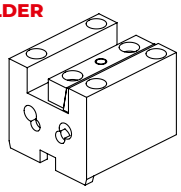


128-41519
20x20 mm

QUALIFIED TOOL

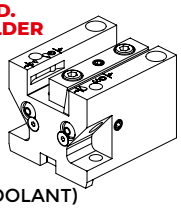


FACE AND O.D. CUTTING HOLDER



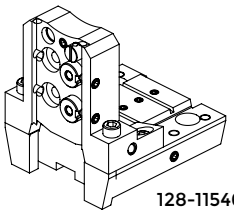
128-31511
20x20 mm

FACE AND O.D. CUTTING HOLDER

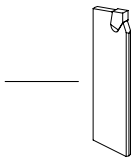


128-31511-IC
20x20 mm
(INTERNAL COOLANT)

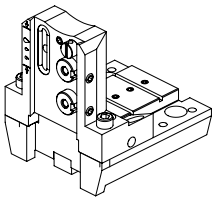
CUT-OFF HOLDER



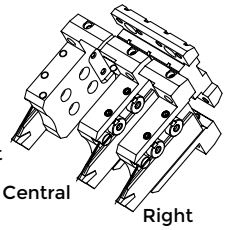
CUT-OFF TOOL



128-11546 - 26 mm

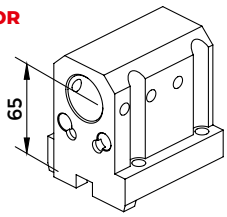


128-11546-IC
(INTERNAL COOLANT)



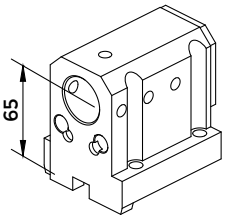
ACCESSORIES

TOOLHOLDER FOR BORING BAR



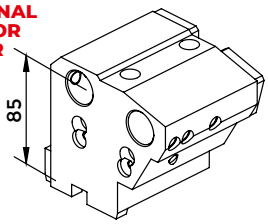
128-21529
Ø32 mm

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



128-21530 D32
128-21547 D40

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



128-21531
2xØ25 mm

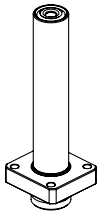
BORING BAR SLEEVE
p. 705

D32	D40
1376 <MT3> 1377 <MT2>	
5316 (Ø8 mm) 5317 (Ø10 mm) 5318 (Ø12 mm) 5319 (Ø16 mm) 5320 (Ø20 mm)	
5333 (Ø25 mm)	
9607 (Ø8 mm) 9608 (Ø10 mm) 9609 (Ø12 mm)	9615 (Ø8 mm) 9616 (Ø10 mm) 9617 (Ø12 mm)
9611 (Ø16 mm) 9613 (Ø20 mm) 9614 (Ø25 mm)	9619 (Ø16 mm) 9621 (Ø20 mm) 9622 (Ø25 mm) 9623 (Ø32 mm)
8764 (Ø16 mm) 8766 (Ø20 mm) 8767 (Ø25 mm)	8768 (Ø16 mm) 8770 (Ø20 mm) 8771 (Ø25 mm) 8772 (Ø32 mm)
5969 (Ø8 mm) 5970 (Ø10 mm) 5971 (Ø12 mm)	
5995 (Ø16 mm)	
9600 (Ø8 mm) 9601 (Ø10 mm) 9602 (Ø12 mm)	
9604 (Ø16 mm) 9606 (Ø20 mm)	
8759 (Ø12 mm) 8761 (Ø16 mm) 8763 (Ø20 mm)	

FAST-IN p. 490
DRIVEN TOOLS p. 298

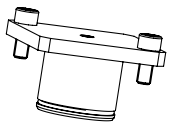


CONTROL PIN
p. 740



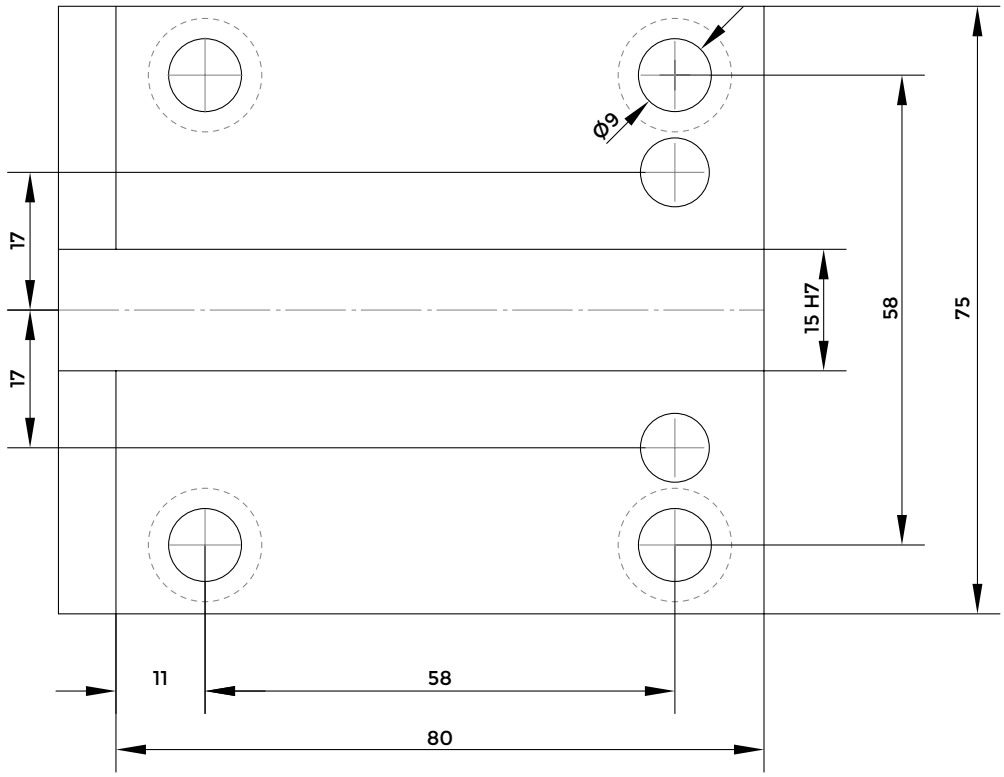
137-00197

PROTECTION COVER



137-00252

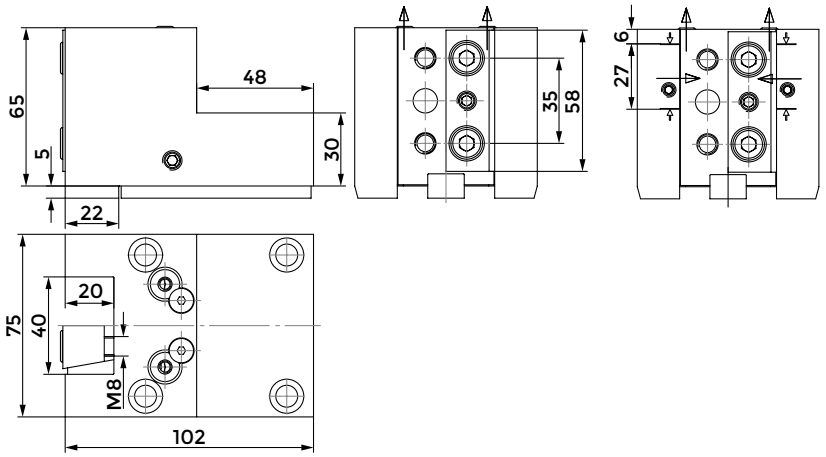
CONNECTION

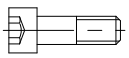


RADIAL TOOLHOLDER

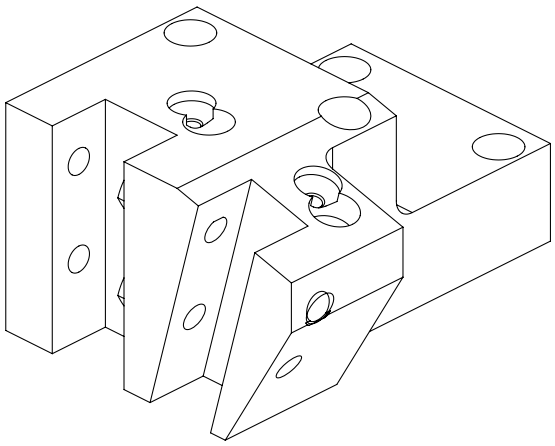


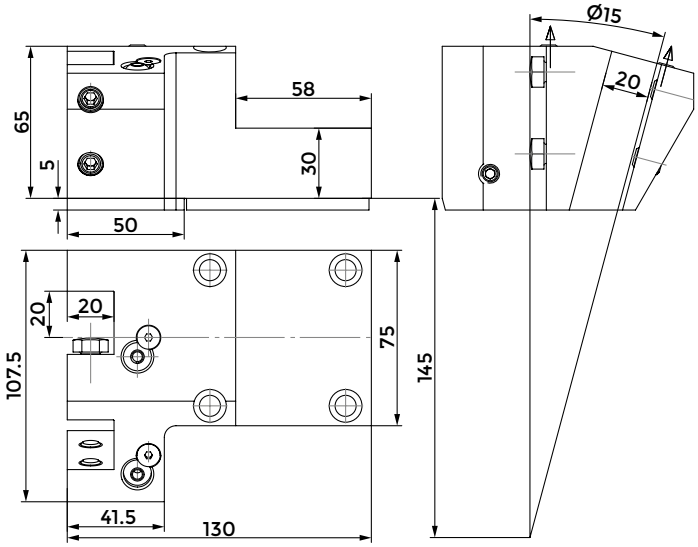
IC VERSION

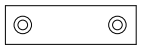
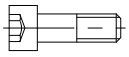


COD.	INTERNAL COOLANT	CLAMPING PLATE	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
						
128-41518	NO	832-007160	814-203450	811-101016	833-001410	811-108024
128-41518-IC	YES	832-007160	814-203450	811-101016	833-001410	811-108024

RADIAL TOOLHOLDER



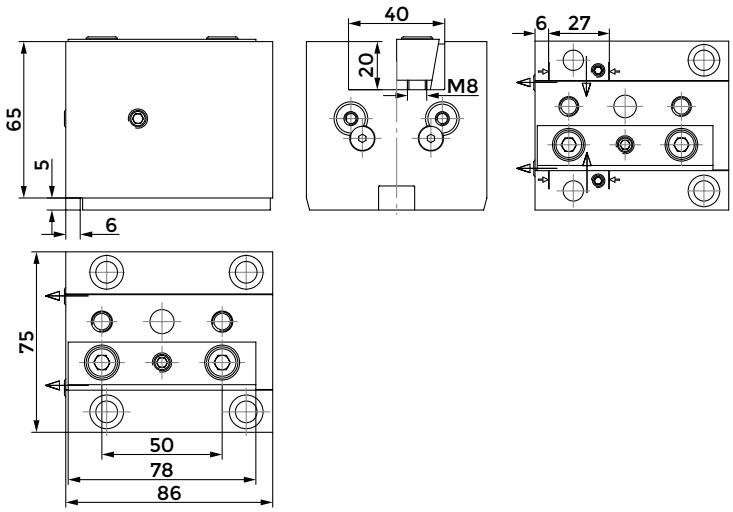


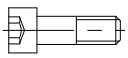
COD.	CLAMPING SCREW 0°	CLAMPING SCREW 15° M10X12	CLAMPING SCREW 15° M10X16	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
							
128-41519	811-301128	811-102036	811-102037	814-203450	811-101016	833-001410	811-108024

AXIAL TOOLHOLDER



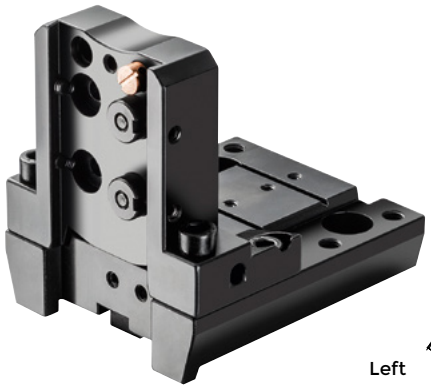
IC VERSION

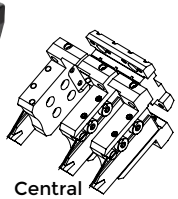


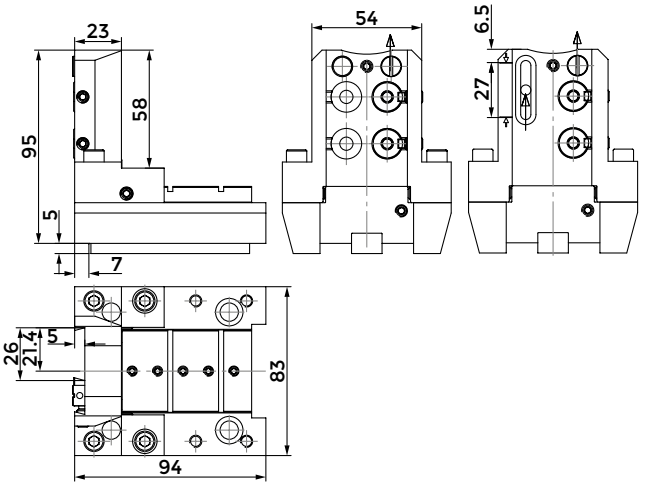
COD.	INTERNAL COOLANT	CLAMPING PLATE	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
						
128-31511	NO	832-007200	814-203450	811-101016	833-001410	811-108024
128-31511-IC	YES	832-007200	814-203450	811-101016	833-001410	811-108024

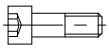
CUT-OFF HOLDER

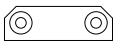
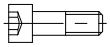
IC VERSION





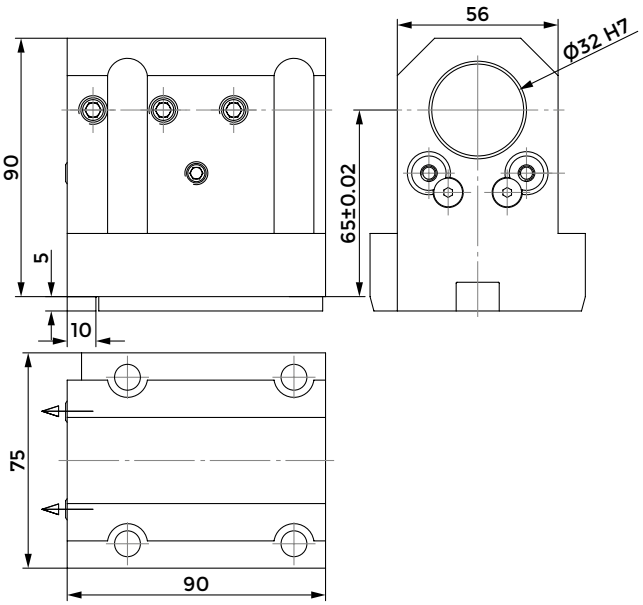


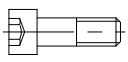
COD.	INTERNAL COOLANT	KEY	SCREW FOR KEY	COOLANT NOZZLE	O RING COOLANT BALL	O RING FOR INTERNAL COOLANT
						
128-11546	NO	814-203450	811-101015	833-001490	823-101058	-
128-11546-IC	YES	814-203450	811-101015	833-001490	823-101058	823-201140

COD.	O RING FOR BODY	SHIM PLATE	SCREW FOR PLATE	CLAMPING PIN	SPRING	CLAMPING SCREW	SCREW
							
128-11546	823-101061	832-014448	811-108037	832-014447	824-300012	811-101028	811-104013
128-11546-IC	823-101061	832-014448	811-108037	832-014447	824-300012	811-101028	811-104013

TOOLHOLDER FOR BORING BAR

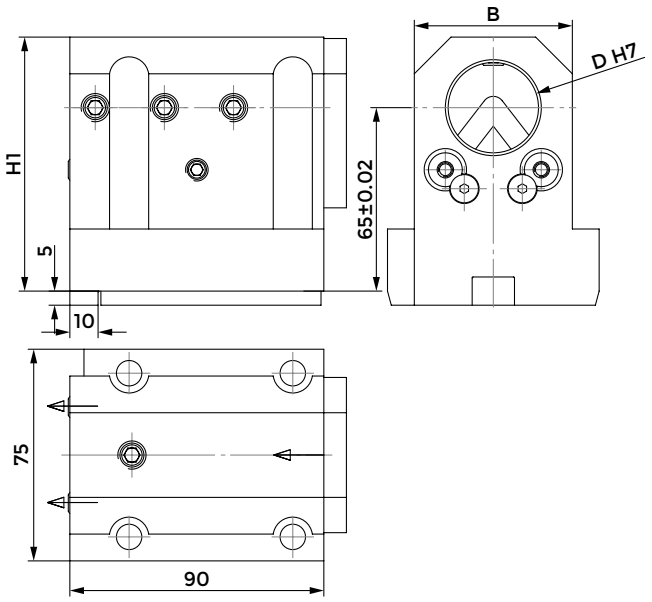


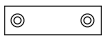
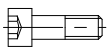
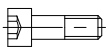


COD.	CLAMPING SCREW	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
					
128-21529	811-102036	814-203450	811-101016	833-001410	811-108024

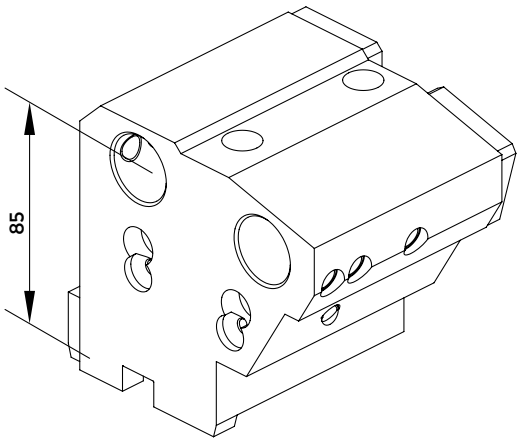
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

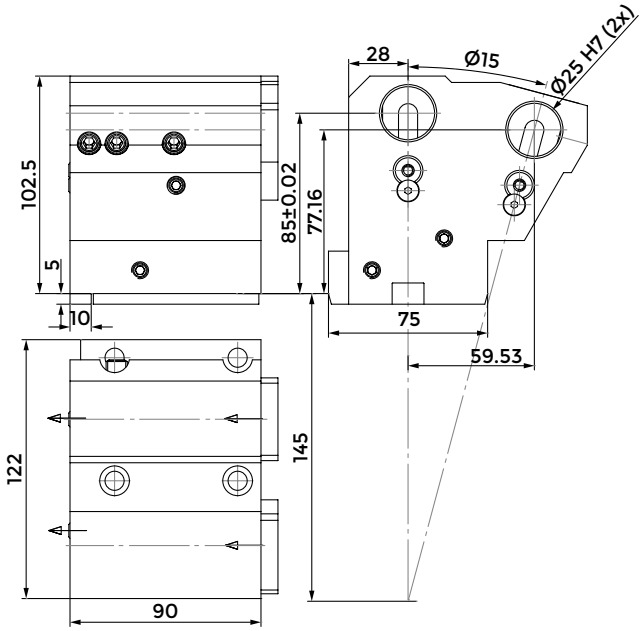


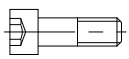
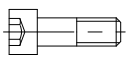


COD.	D	B	H1	CLAMPING SCREW 1 (M10X12)	CLAMPING SCREW 2 (M10X10)	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL	COVER	SCREW FOR COVER
											
128-21530	32	56	90	811-102036	811-102035	814-203450	811-101016	833-001410	811-108024	832-003361	811-101016
128-21547	40	63	94	811-102036	811-102035	814-203450	811-101016	833-001410	811-108024	832-003398	811-101016

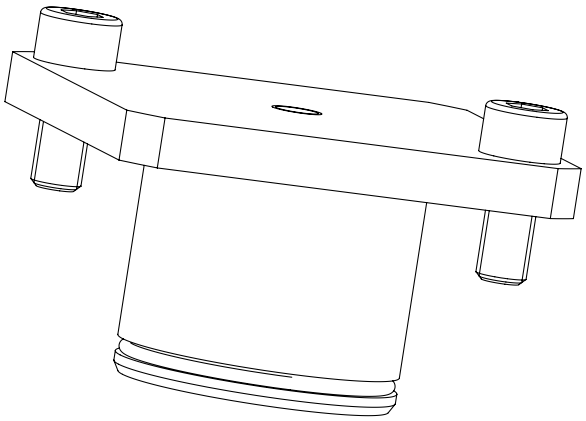
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

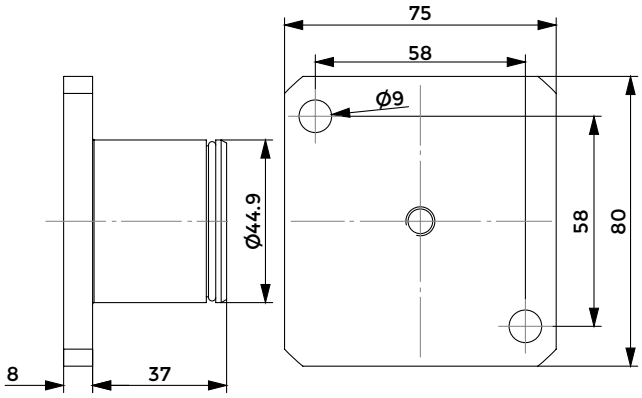




COD.	CLAMPING SCREW 1 (M10X12)	CLAMPING SCREW 2 (M10X10)	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL	COVER	SCREW FOR COVER
								
128-21531	811-102037	811-102036	814-203450	811-101016	833-001410	811-108024	832-003367	811-101010

PROTECTION COVER

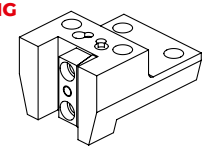




COD.	O RING
	
137-00252	823-101066

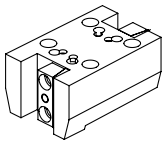
DOOSAN (BMT55) - LYNX 300M - PUMA 1500/2000/2500 (M,S,Y) - PUMA 2100 (Y,LY,SY,LSY)
PUMA 2100/2600/3100 M/Y/MS/SY - PUMA 230/240/280 (M,LM,S) - PUMA GT2100M - PUMA H250TM
PUMA MX2100 (ST/LST) - PUMA TL2000/2500 (M,LM) - PUMA TT1500/1800 (MS,SY)
SAMSUNG - PL 240LM - **HARDINGE** - T-51/65 super precision H51
HYUNDAI WIA - WIA L230 LMSA - SKT-160/180 TTMS / TTSY - LM1600/1800 TTSY
HWACHEON - CUTEX-160/240/T2 - **VICTOR** - VTURN-A16/A20 (YSCM)

FACE AND O.D. CUTTING HOLDER



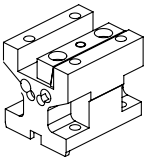
128-41520 - 25x25 mm
128-41531 - 20x20 mm

FACE AND O.D. CUTTING HOLDER



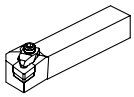
128-41521
25x25 mm

FACE AND O.D. CUTTING HOLDER

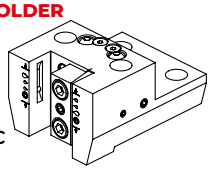


128-31512
25x25 mm

QUALIFIED TOOL

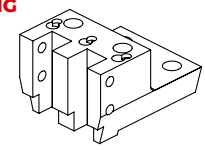


FACE AND O.D. CUTTING HOLDER



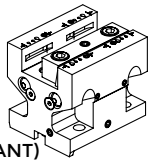
128-41520-IC
25x25 mm
(INTERNAL COOLANT)

FACE AND O.D. CUTTING HOLDER



128-41522
25x25 mm

FACE AND O.D. CUTTING HOLDER



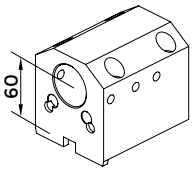
128-31512-IC
25x25 mm
(INTERNAL COOLANT)

FAST-IN p. 490
DRIVEN TOOLS p. 298



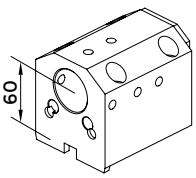
ACCESSORIES

TOOLHOLDER FOR BORING BAR



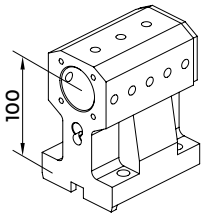
128-21532
Ø40 mm

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



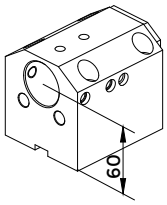
128-21533
Ø40 mm

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



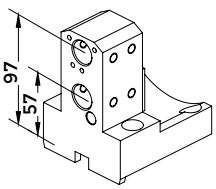
128-21534
Ø40 mm

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



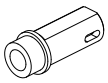
128-21522
Ø40 mm

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

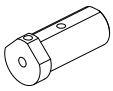


128-21535
2xØ20 mm

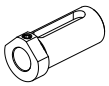
BORING BAR SLEEVE p. 707



8958 <MT1>
8959 <MT2>
8960 <MT3>



8916 (Ø10 mm)
8917 (Ø12 mm)
8918 (Ø16 mm)



8919 (Ø20 mm)
8920 (Ø25 mm)
8921 (Ø32 mm)



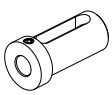
8897 (Ø20 mm)
8898 (Ø25 mm)
8899 (Ø32 mm)



9615 (Ø8 mm)
9616 (Ø10 mm)
9617 (Ø12 mm)

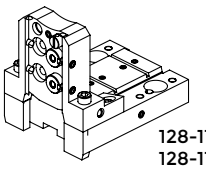


9619 (Ø16 mm)
9621 (Ø20 mm)
9622 (Ø25 mm)
9623 (Ø32 mm)



8768 (Ø16 mm)
8770 (Ø20 mm)
8771 (Ø25 mm)
8772 (Ø32 mm)

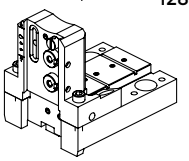
CUT-OFF HOLDER



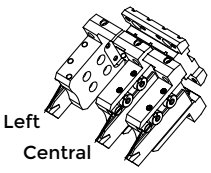
CUT-OFF TOOL



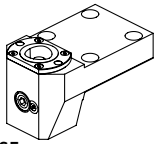
128-11548 - 26 mm
128-11549 - 32 mm



128-11548-IC
(INTERNAL COOLANT)
128-11549-IC
(INTERNAL COOLANT)

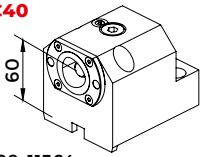


POLYGONAL TOOL HOLDER C40



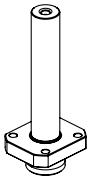
128-11565

POLYGONAL TOOL HOLDER C40



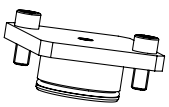
128-11564

CONTROL PIN p. 740



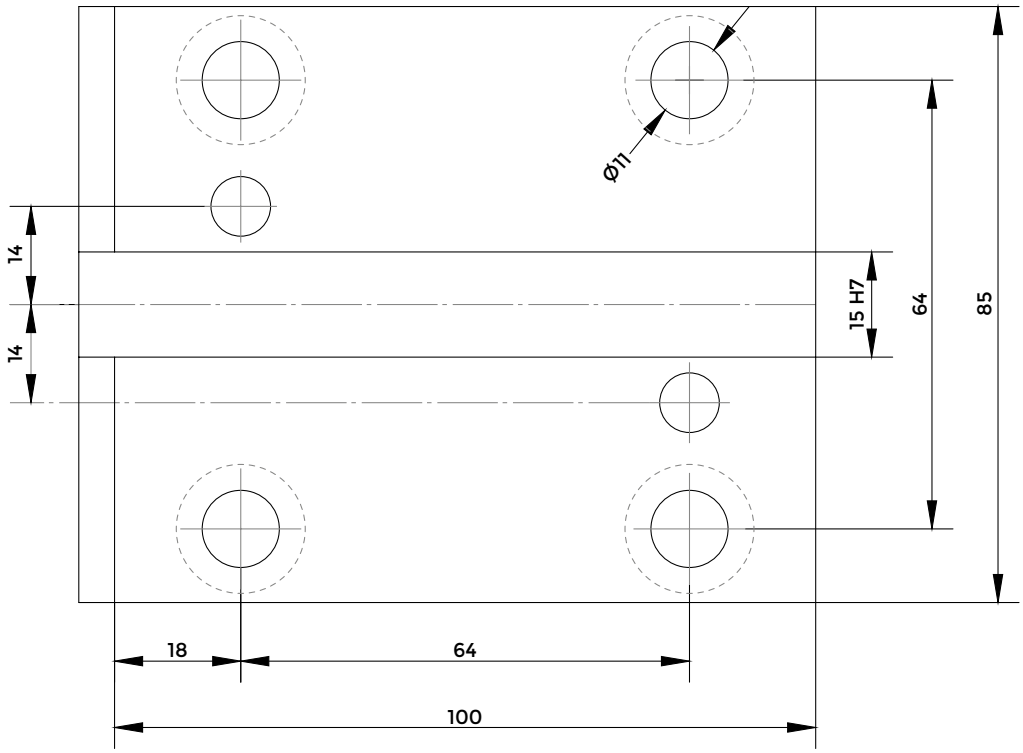
137-00198

PROTECTION COVER

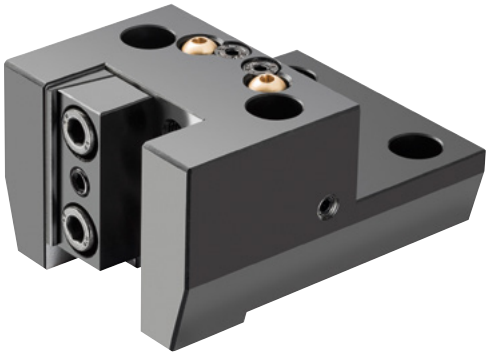


137-00253

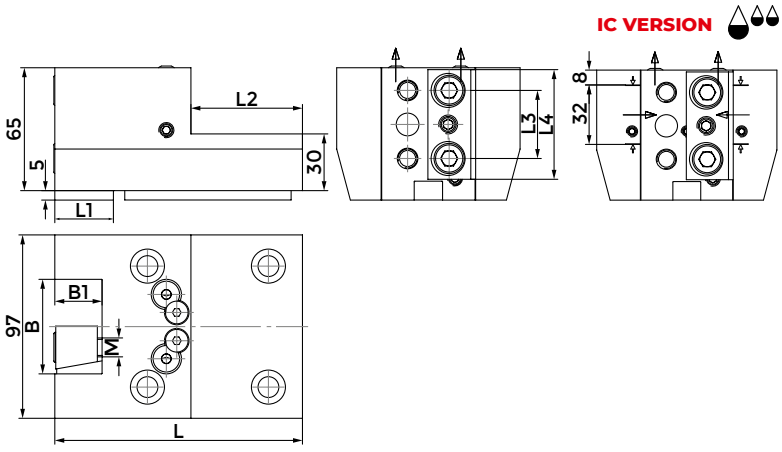
CONNECTION



RADIAL TOOLHOLDER

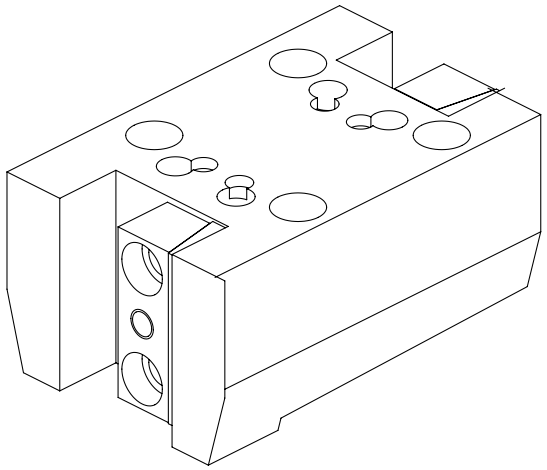


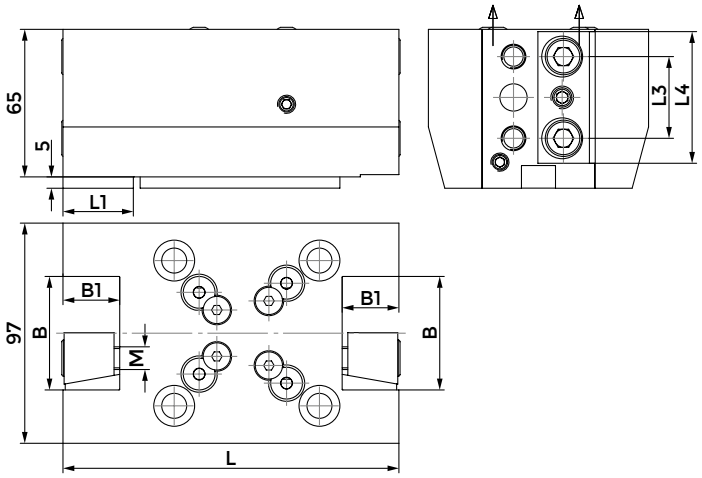
IC VERSION

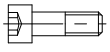


COD.	B	B1	L	L1	L2	L3	L4	M	INTERNAL COOLANT	CLAMPING PLATE	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
128-41520	50	25	131	31	59	36	58	M10	NO	832-007570	814-203230	811-101016	833-001470	811-108018
128-41520-IC	50	25	131	31	59	36	58	M10	YES	832-007570	814-203230	811-101016	833-001470	811-108018
128-41531	40	20	109	9	50	35	58	M8	NO	832-007160	814-203230	811-101016	833-001470	811-108018

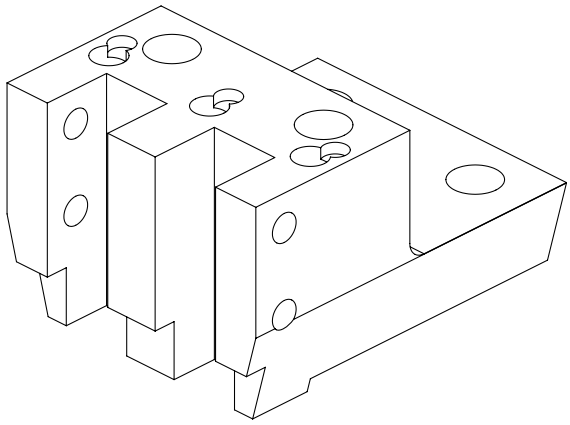
RADIAL TOOLHOLDER

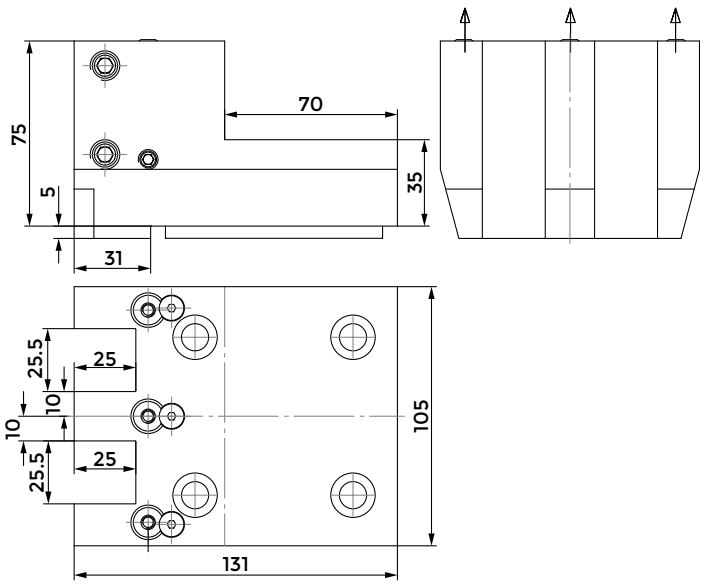


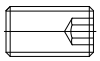
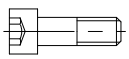


COD.	B	B1	L	L1	L3	L4	M	CLAMPING PLATE	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
												
128-41521	50	25	148	31	36	58	M10	832-007570	814-203230	811-101016	833-001470	811-108018

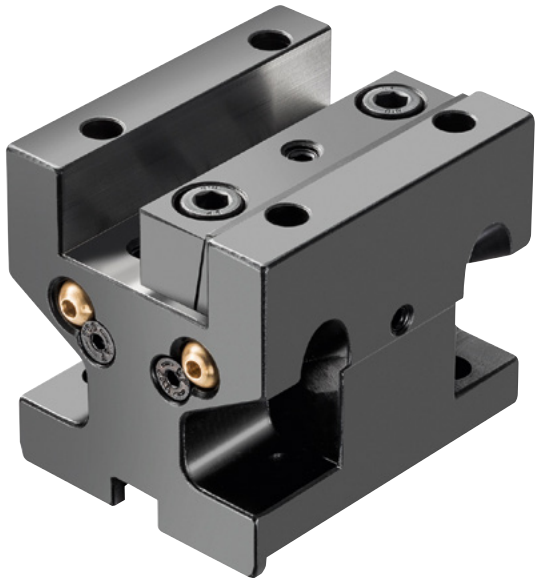
RADIAL TOOLHOLDER

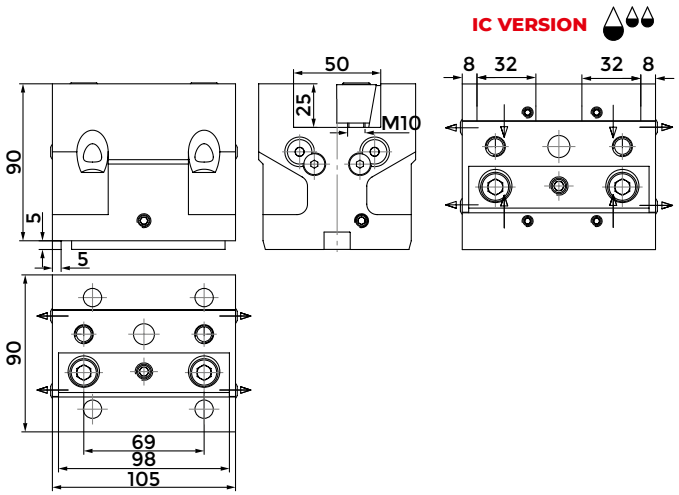




COD.	CLAMPING SCREW	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
					
128-41522	811-102043	814-203230	811-101016	833-001410	811-108024

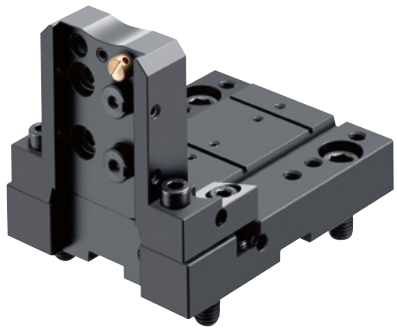
AXIAL TOOLHOLDER

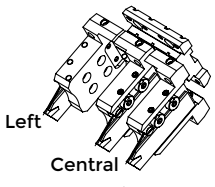


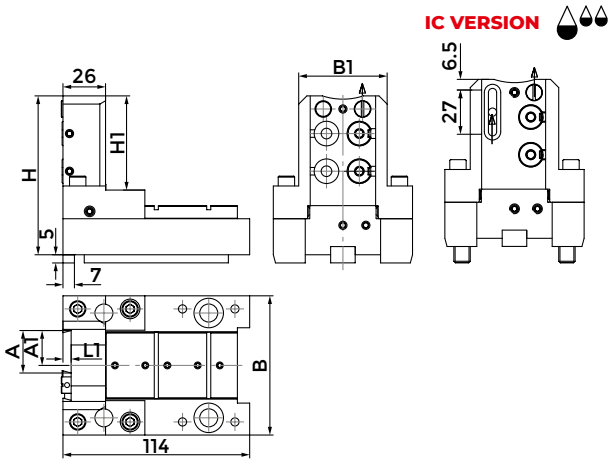


COD.	INTERNAL COOLANT	CLAMPING PLATE	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
128-31512	NO	832-007220	814-203230	811-101016	833-001470	811-108018
128-31512-IC	YES	832-007220	814-203230	811-101016	833-001470	811-108018

CUT-OFF HOLDER





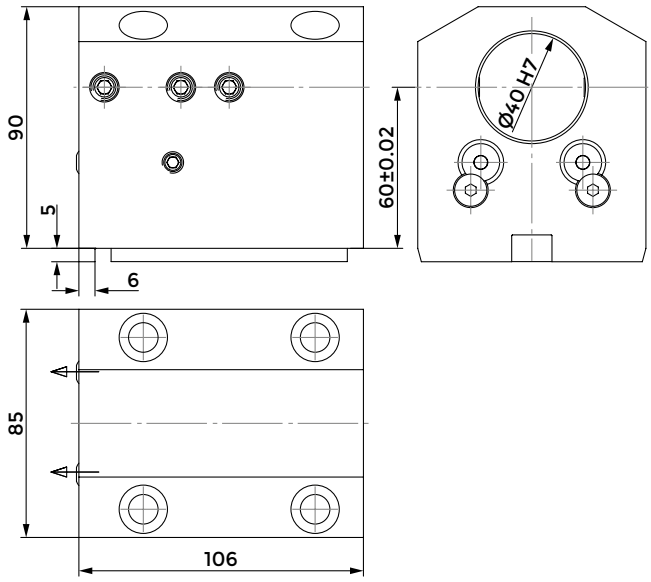


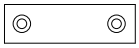
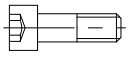
COD.	A	A1	B	B1	H	H1	L1	INTERNAL COOLANT	KEY	SCREW FOR KEY	COOLANT NOZZLE	O RING COOLANT BALL	O RING INTERNAL COOLANT
128-11548	26	21.4	85	54	97	57.5	5	NO	814-203230	811-101015	833-001490	823-101058	-
128-11548-IC	26	21.4	85	54	97	57.5	5	YES	814-203230	811-101015	833-001490	823-101058	823-201140
128-11549	32	25	94	63	105	66	6	NO	814-203230	811-101015	833-001490	823-101058	-
128-11549-IC	32	25	94	63	105	66	6	YES	814-203230	811-101015	833-001490	823-101058	823-201140

COD.	O RING FOR BODY	SHIM PLATE	SCREW FOR PLATE	CLAMPING PIN	SPRING	CLAMPING SCREW	SCREW
128-11548	823-101061	832-014448	811-108037	832-014447	824-300012	811-101028	811-104013
128-11548-IC	823-101061	832-014448	811-108037	832-014447	824-300012	811-101028	811-104013
128-11549	823-101061	832-014448	811-108037	832-014450	824-300012	811-101029	811-104013
128-11549-IC	823-101061	832-014448	811-108037	832-014450	824-300012	811-101029	811-104013

TOOLHOLDER FOR BORING BAR

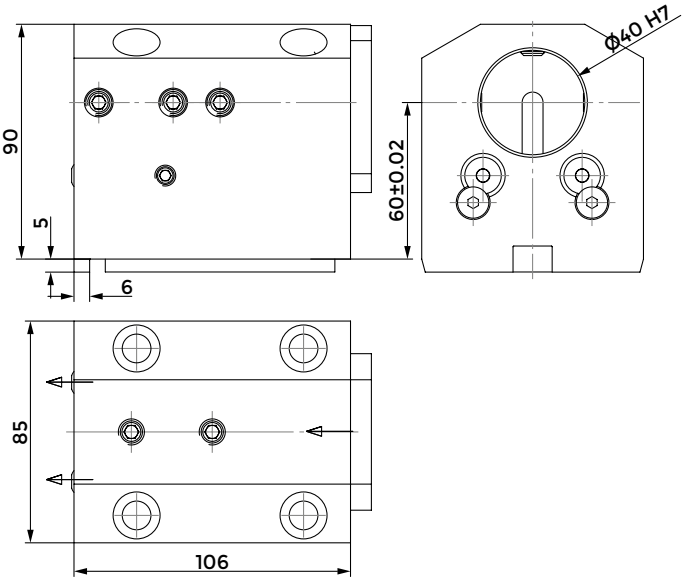


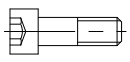
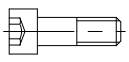


COD.	CLAMPING SCREW	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
					
128-21532	811-102038	814-203230	811-101016	833-001470	811-108018

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

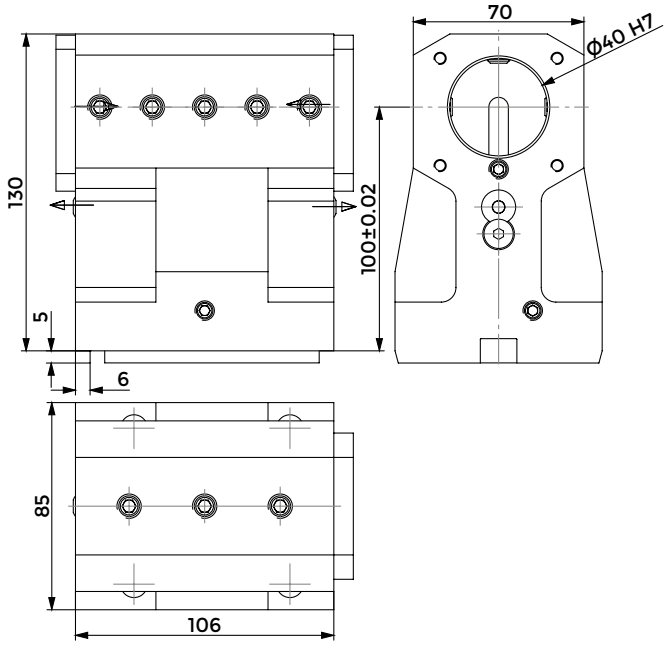


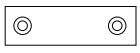
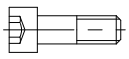
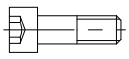


COD.	CLAMPING SCREW 1 (M10X12)	CLAMPING SCREW 2 (M10X10)	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL	COVER	SCREW FOR COVER
								
128-21533	811-102038	811-102036	814-203230	811-101016	833-001470	811-108018	832-003363	811-101016

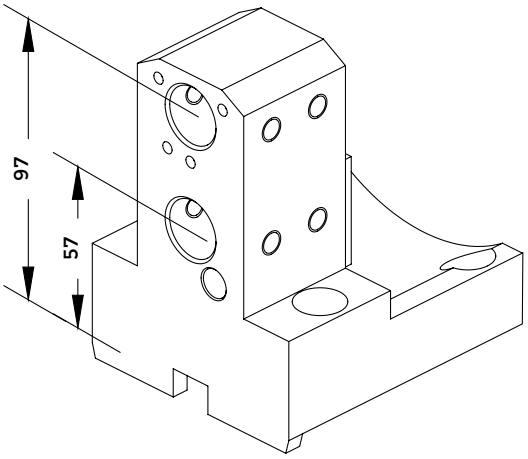
COMBI TOOLHOLDER FOR BORING BAR AND INSERT DRILL

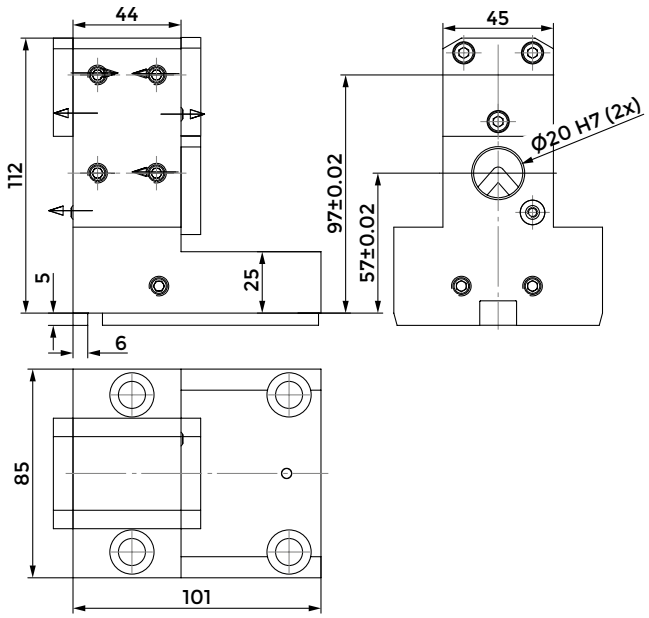


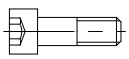
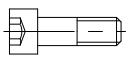


COD.	CLAMPING SCREW 1 (M10X12)	CLAMPING SCREW 2 (M10X10)	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL	COVER	SCREW FOR COVER
								
128-21534	811-102037	811-102036	814-203230	811-101016	833-001470	811-108018	832-003363	811-101016

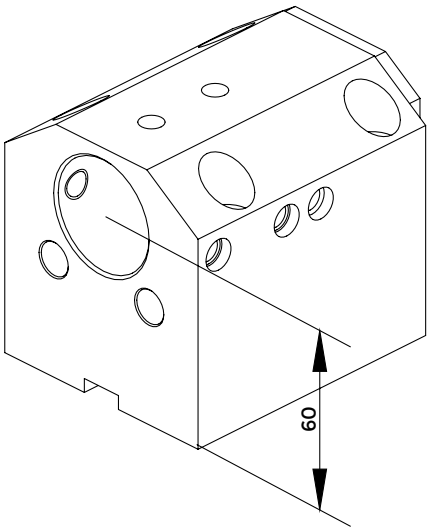
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

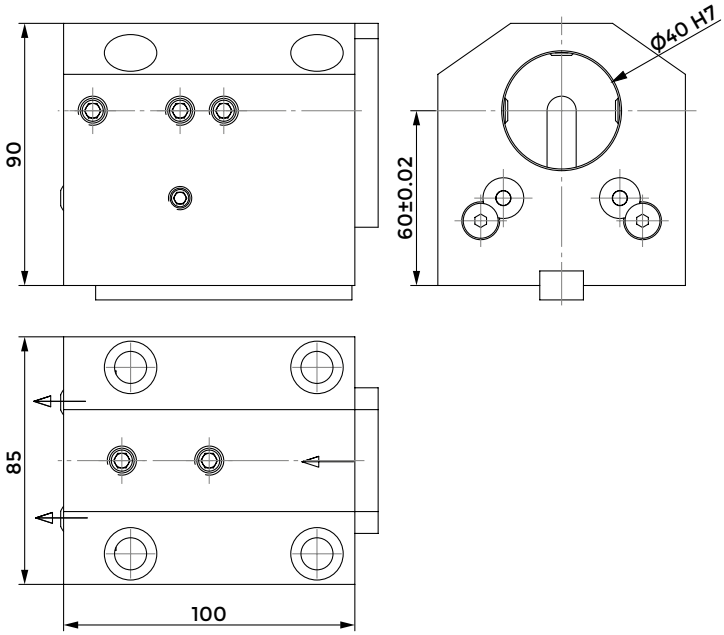


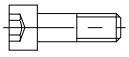
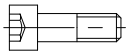


COD.	CLAMPING SCREW	KEY	SCREW FOR KEY	COOLANT BALL	COVER	SCREW FOR COVER
						
128-21535	811-102028	814-203230	811-101016	833-001070	832-003368	811-101016

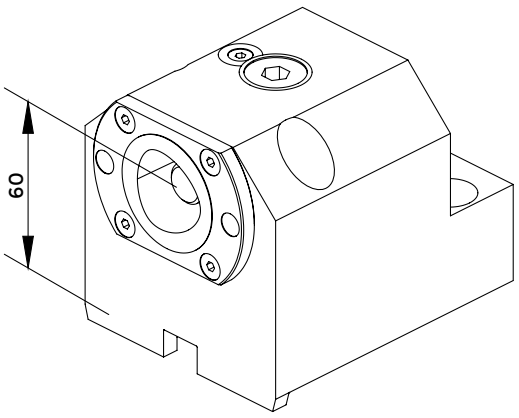
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

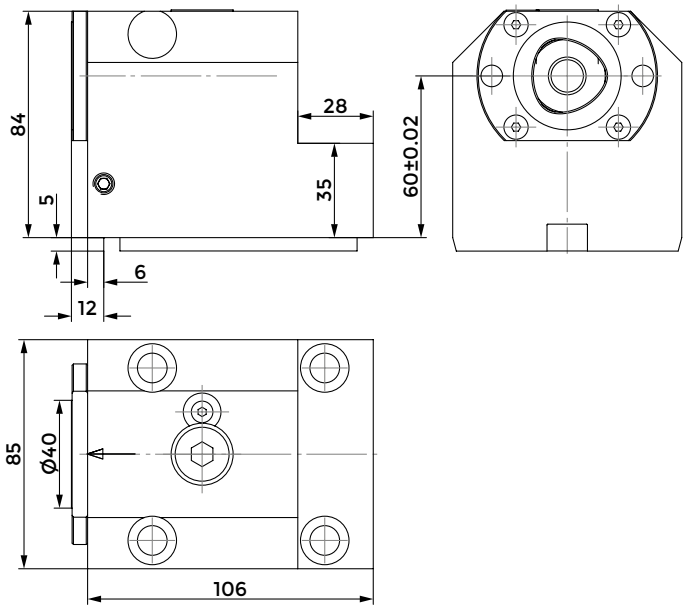


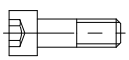


COD.	CLAMPING SCREW 1 (M10X20)	CLAMPING SCREW 2 (M10X10)	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL	COVER	SCREW FOR COVER
								
128-21522	811-102038	811-102035	814-203230	811-101017	833-001470	811-108018	832-003216	811-101017

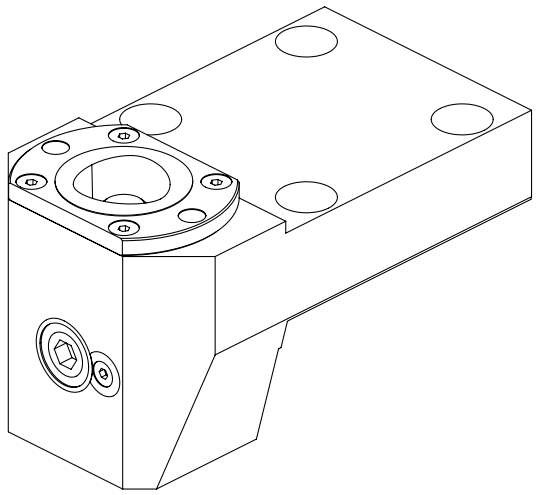
POLYGONAL TOOLHOLDER

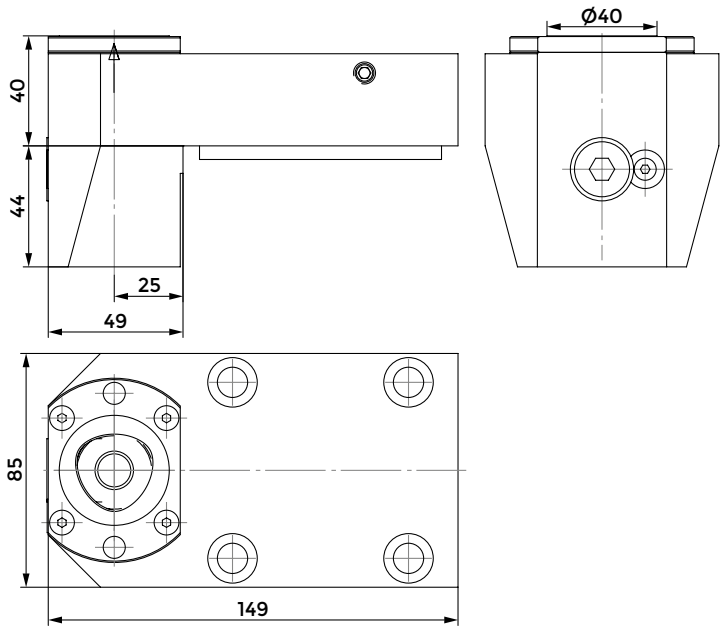


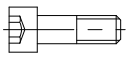


COD.	POLYGONAL	CLAMPING UNIT	KEY	SCREW FOR KEY
				
128-11564	C40	CXC40-10	814-203230	811-101016

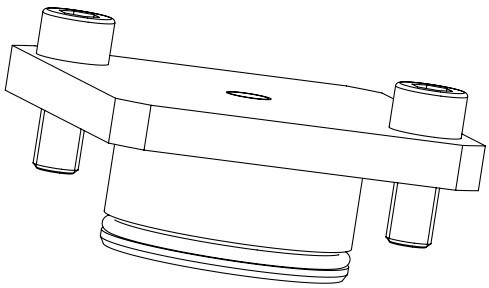
POLYGONAL TOOLHOLDER

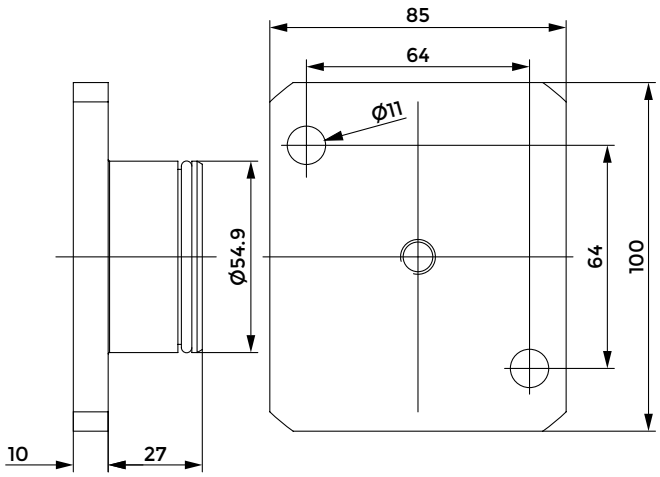




COD.	POLYGONAL	CLAMPING UNIT	KEY	SCREW FOR KEY
				
128-11565	C40	CXC40-10	814-203230	811-101016

PROTECTION COVER

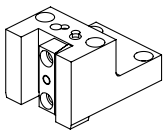




COD.	O RING
	
137-00253	823-101064

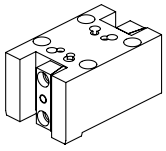
DOOSAN (BMT65) - PUMA 2100/2600 (M,LM,MS,LMS) - PUMA 2100/2600 (Y,LY,SY,LSY) - PUMA 300 (M,MS,MB,MC) PUMA 3100 (M/LM/LY/XLM/XLY/ULM/ULY - PUMA MX2000/2500 - PUMA MX2600 (T,ST) - PUMA TT2500 (MS,SY) PUMA V400 (M) - PUMA VT450 (M,S2P) - PUMA TT2000
HWACHEON - CUTEX-240 - HI-TECH200/T2-Series - HI-TECH 300/400 - VT-450
HYUNDAI WIA - L2100SY - SKT-200/250 TTSY - SKT-250/300 (L,M) - SKT-250/300 (MS) - L300M / MS LM 2000 / 2500 TTM - 2500 TTMS / 2500 TTSY - **MAXSIN** - BMT65
SMEC/SAMSUNG - SL25 - SL35 - PL20/25M - PL 35LM - PL 2000/2500Y - **TONGTAI** - TMT2000
VICTOR - VTURN-A26 (YSCM) - **HAAS** ST-20 - ST-25 - ST-30 - ST-35 - DS-30Y - ST-20Y - ST-30Y - ST35Y

FACE AND O.D. CUTTING HOLDER



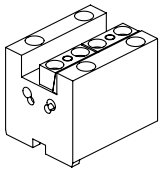
128-41801
25x25 mm

FACE AND O.D. CUTTING HOLDER



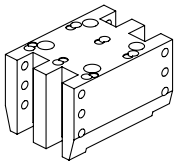
128-41802
25x25 mm

FACE AND O.D. CUTTING HOLDER



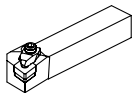
128-31802
25x25 mm

FACE AND O.D. CUTTING HOLDER

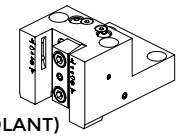


128-41804
25x25 mm

QUALIFIED TOOL

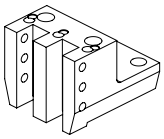


FACE AND O.D. CUTTING HOLDER



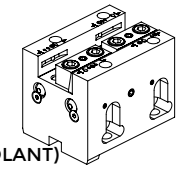
128-41801-IC
25x25 mm
(INTERNAL COOLANT)

FACE AND O.D. CUTTING HOLDER



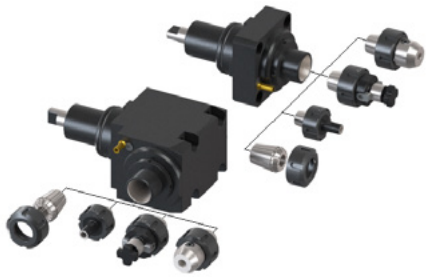
128-41803
25x25 mm

FACE AND O.D. CUTTING HOLDER



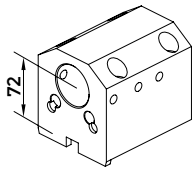
128-31802-IC
25x25 mm
(INTERNAL COOLANT)

FAST-IN p. 490
DRIVEN TOOLS p. 298



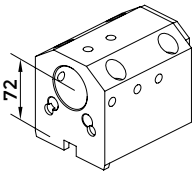
ACCESSORIES

TOOLHOLDER FOR BORING BAR



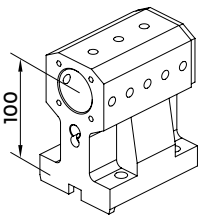
128-21801 - Ø40 mm

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



128-21802 - Ø40 mm
128-21805 - Ø50 mm

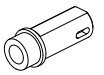
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



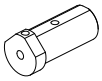
128-21803 - Ø40 mm
128-21806 - Ø50 mm

BORING BAR SLEEVE p. 707

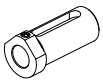
D40



8958 <MT1>
8959 <MT2>
8960 <MT3>



8916 (Ø10 mm)
8917 (Ø12 mm)
8918 (Ø16 mm)



8919 (Ø20 mm)
8920 (Ø25 mm)
8921 (Ø32 mm)



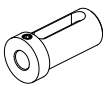
8897 (Ø20 mm)
8898 (Ø25 mm)
8899 (Ø32 mm)



9615 (Ø8 mm)
9616 (Ø10 mm)
9617 (Ø12 mm)



9619 (Ø16 mm)
9621 (Ø20 mm)
9622 (Ø25 mm)
9623 (Ø32 mm)

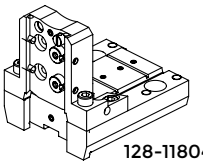


8768 (Ø16 mm)
8770 (Ø20 mm)
8771 (Ø25 mm)
8772 (Ø32 mm)

D50

8773 (Ø25 mm)
8774 (Ø32 mm)
8775 (Ø40 mm)

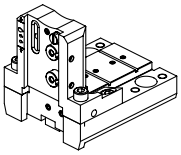
CUT-OFF HOLDER



128-11804

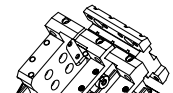
CUT-OFF TOOL





128-11804-IC
(INTERNAL COOLANT)

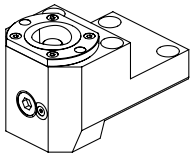
Left



Central

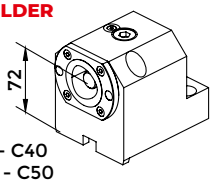
Right

POLYGONAL TOOL HOLDER



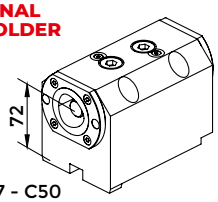
128-11819 - C40
128-11809 - C50

POLYGONAL TOOL HOLDER



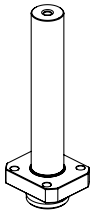
128-11817 - C40
128-11805 - C50

POLYGONAL TOOL HOLDER



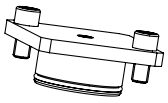
128-11807 - C50

CONTROL PIN p. 740



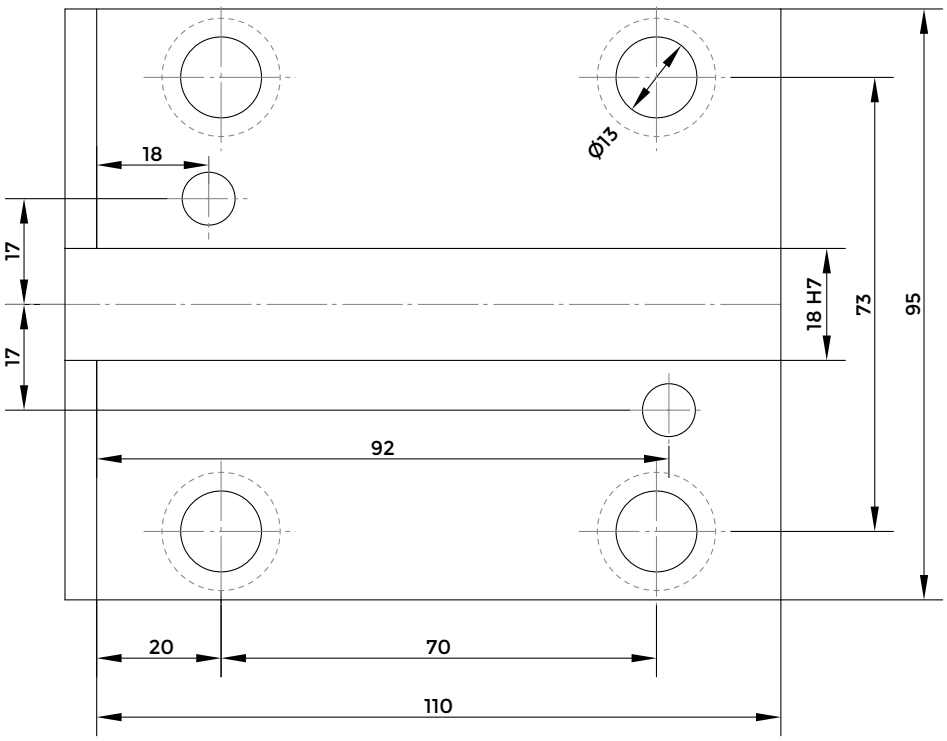
137-00199

PROTECTION COVER



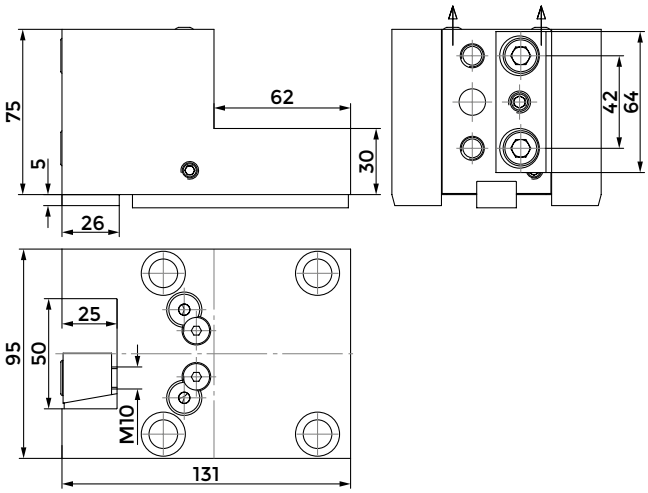
137-00254

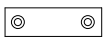
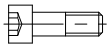
CONNECTION



RADIAL TOOLHOLDER

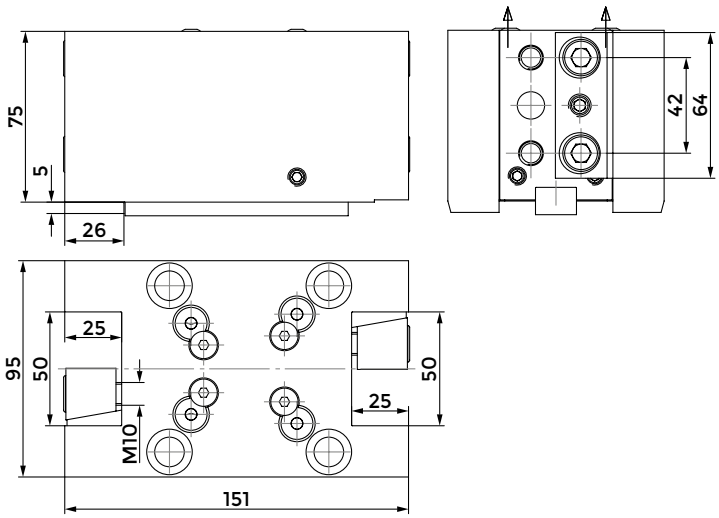


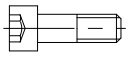


COD.	INTERNAL COOLANT	CLAMPING PLATE	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
						
128-41801	NO	832-007360	814-203310	811-101027	833-001470	811-108018
128-41801-IC	YES	832-007360	814-203310	811-101027	833-001470	811-108018

RADIAL TOOLHOLDER

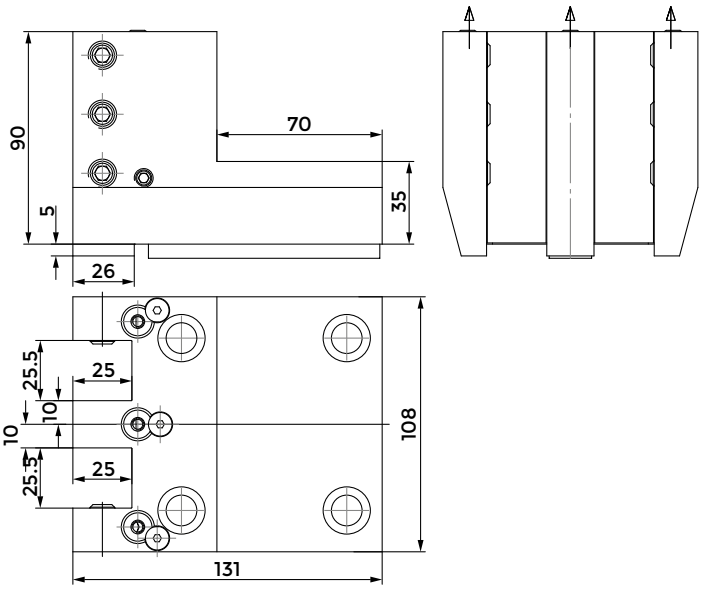


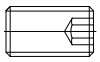
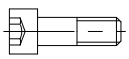


COD.	CLAMPING PLATE	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
					
128-41802	832-007360	814-203310	811-101027	833-001470	811-108018

RADIAL TOOLHOLDER

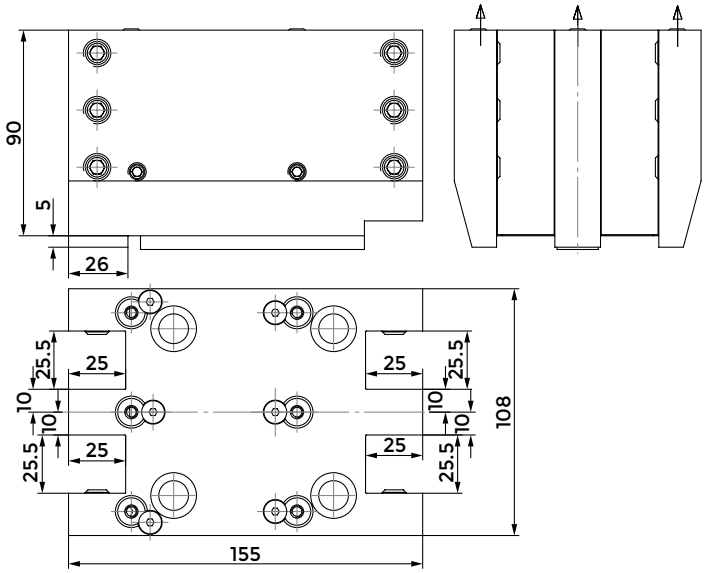


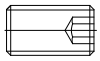
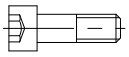


COD.	CLAMPING SCREW	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
					
128-41803	811-102044	814-203310	811-101027	833-001410	811-108024

RADIAL TOOLHOLDER

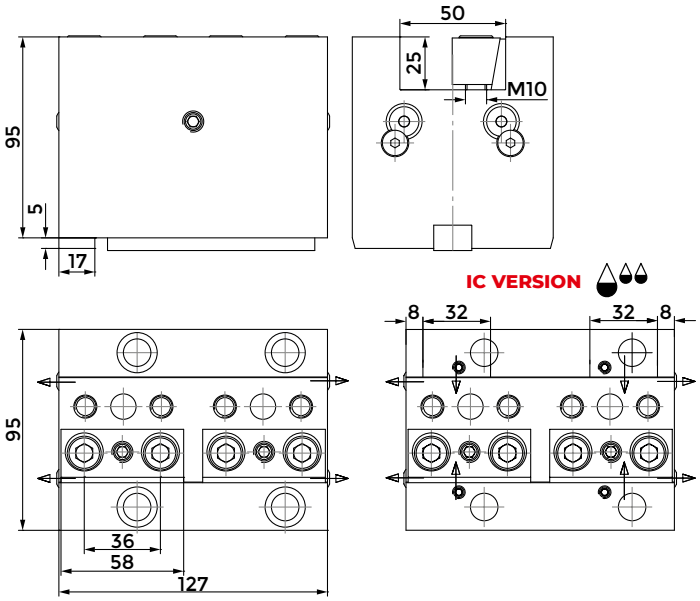


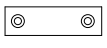
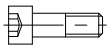


COD.	CLAMPING SCREW	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
					
128-41804	811-102044	814-203310	811-101027	833-001410	811-108024

AXIAL TOOLHOLDER

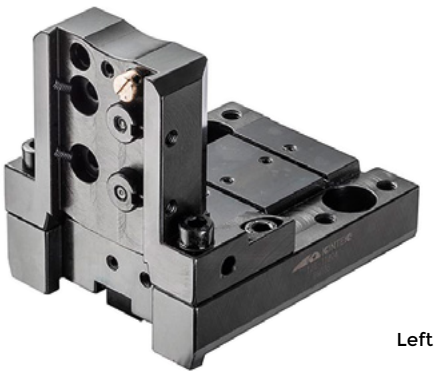


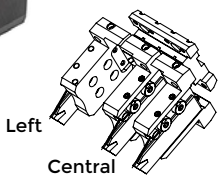


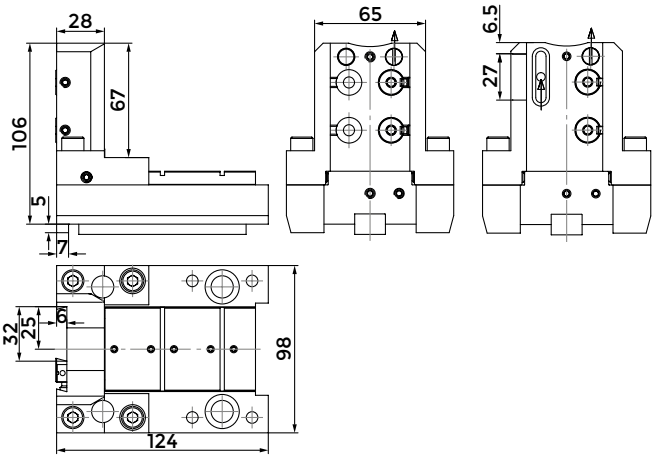
COD.	INTERNAL COOLANT	CLAMPING PLATE	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
						
128-31802	NO	832-007570	814-203310	811-101027	833-001470	811-108018
128-31802-IC	YES	832-007570	814-203310	811-101027	833-001470	811-108018

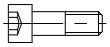
CUT-OFF HOLDER

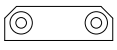
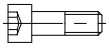
IC VERSION





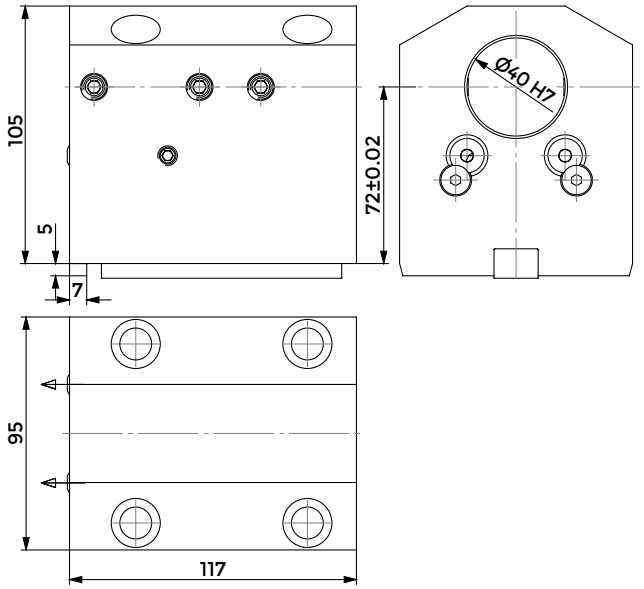


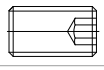
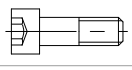
COD.	INTERNAL COOLANT	KEY	SCREW FOR KEY	COOLANT NOZZLE	O RING FOR COOLANT NOZZLE	O RING FOR INTERNAL COOLANT
						
128-11804	NO	814-203310	811-101026	833-001490	823-101058	-
128-11804-IC	YES	814-203310	811-101026	833-001490	823-101058	823-201140

COD.	O RING FOR BODY	SHIM PLATE	SCREW FOR PLATE	CLAMPING PIN	SPRING	CLAMPING SCREW	SCREW
							
128-11804	823-101061	832-014449	811-108037	832-014450	824-300012	811-101029	811-104013
128-11804-IC	823-101061	832-014449	811-108037	832-014450	824-300012	811-101029	811-104013

TOOLHOLDER FOR BORING BAR

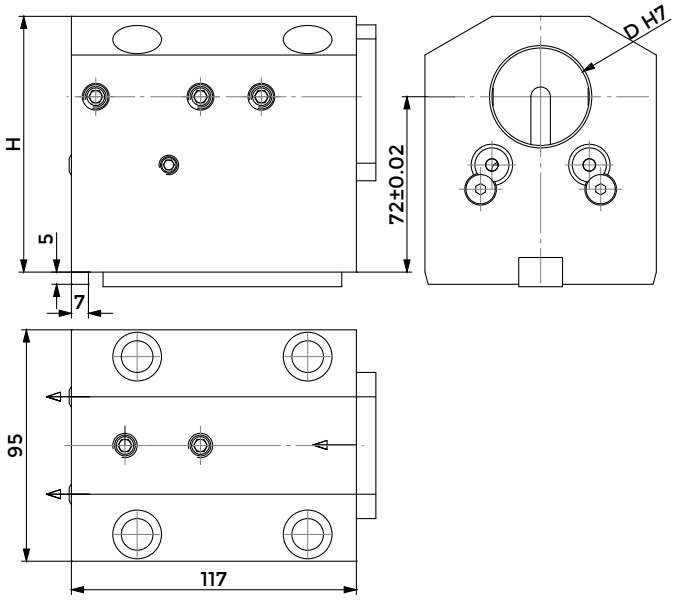




COD.	CLAMPING SCREW	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
					
128-21801	811-102039	814-203310	811-101027	833-001470	811-108018

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

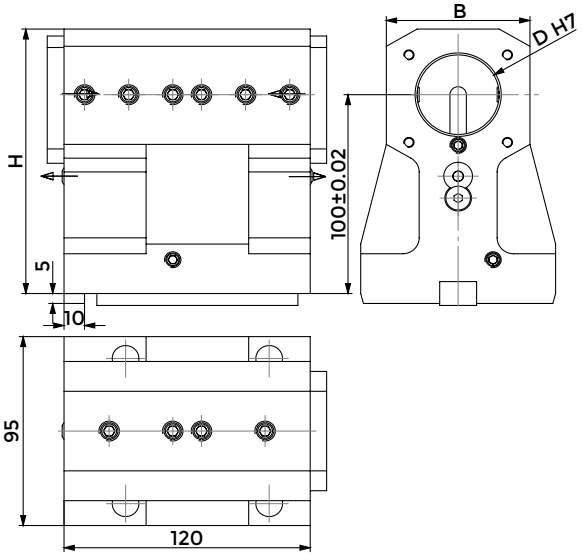




COD.	D	H	CLAMPING SCREW 1 (M10X25D40) (M12X20 D50)	CLAMPING SCREW 2 (M10X12D40) (M12X12 D50)	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL	COVER	SCREW FOR COVER
128-21802	40	105	811-102039	811-102036	814-203310	811-101027	833-001470	811-108018	832-003363	811-101016
128-21805	50	109	811-102044	811-102064	814-203310	811-101027	833-001470	811-108018	832-003369	811-101016

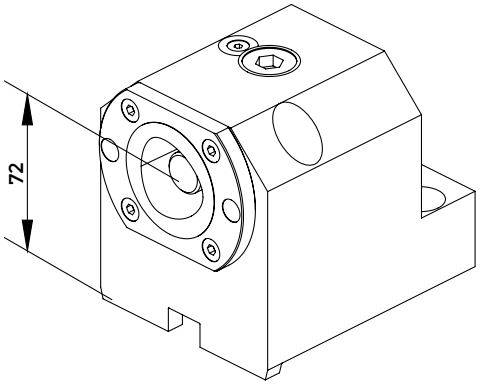
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

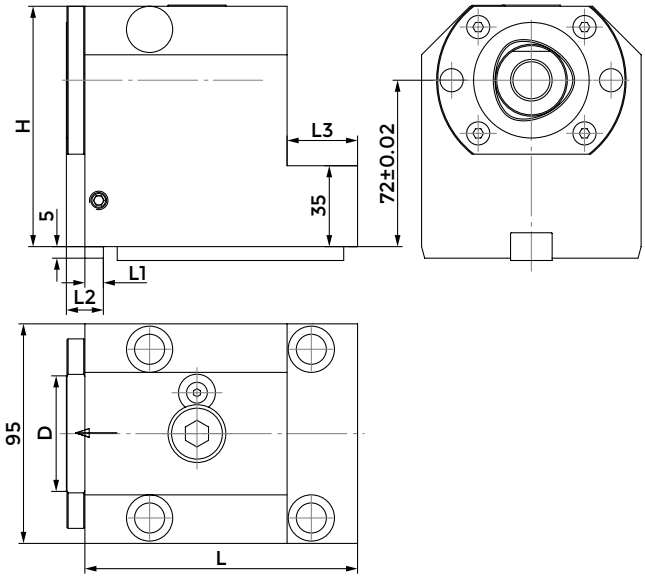


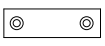
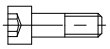


COD.	D	H	B	CLAMPING SCREW 1 (M10X16D40) (M12X16 D50)	CLAMPING SCREW 2 (M10X12D40) (M12X12 D50)	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL	COVER	SCREW FOR COVER
128-21803	40	133	70	811-102037	811-102036	814-203310	811-101027	833-001470	811-108018	832-003363	811-101016
128-21806	50	137	80	811-102043	811-102064	814-203310	811-101027	833-001470	811-108018	832-003373	811-101016

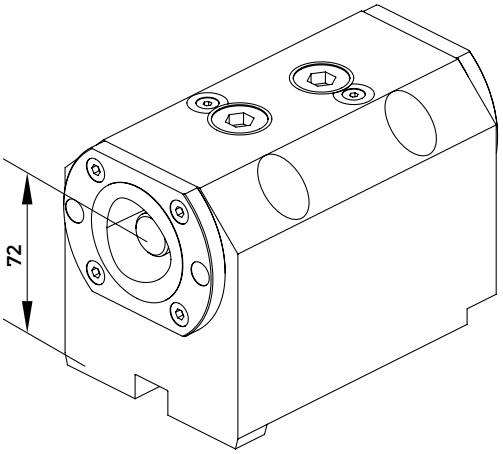
POLYGONAL TOOLHOLDER

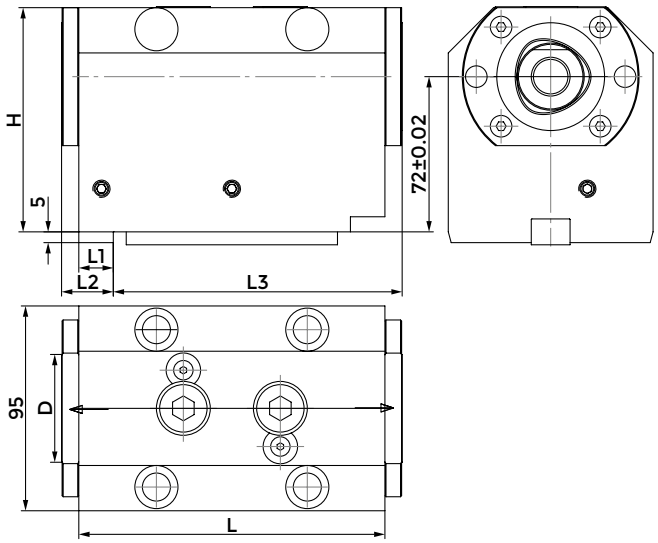


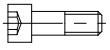


COD.	POLYGONAL	D	H	L	L1	L2	L3	CLAMPING UNIT	KEY	SCREW FOR KEY
										
128-11817	C40	40	96	116	6	12	38	CXC40-10	814-203310	811-101027
128-11805	C50	50	104	118	8	16	30,5	CXC50-10	814-203310	811-101027

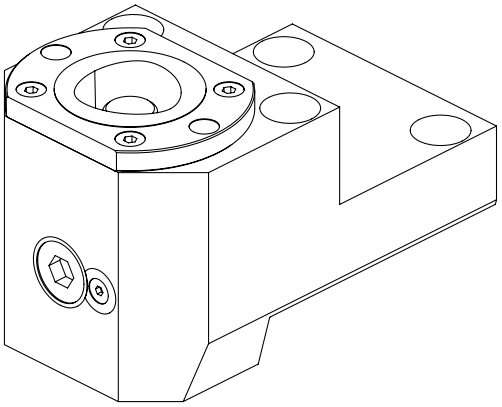
POLYGONAL TOOLHOLDER

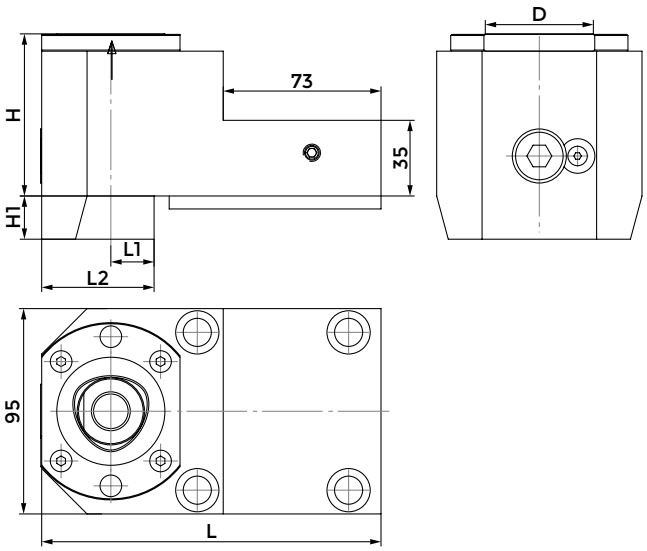


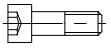


COD.	POLYGONAL	D	H	L	L1	L2	L3	CLAMPING UNIT	KEY	SCREW FOR KEY
										
128-11807	C50	50	104	142	16	24	134	CXC50-10	814-203310	811-101027

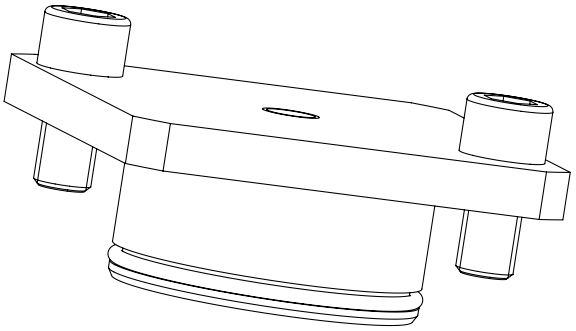
POLYGONAL TOOLHOLDER

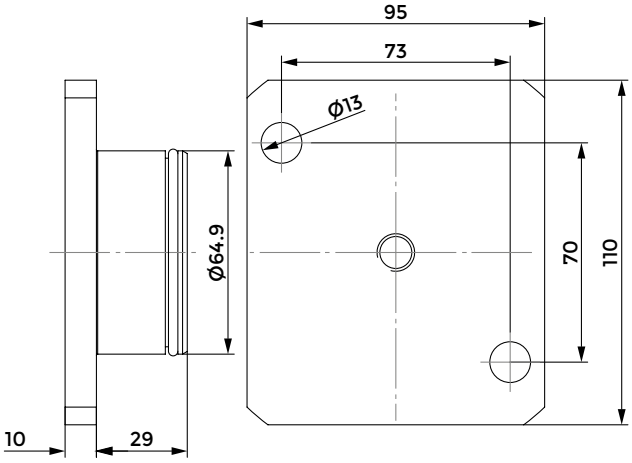




COD.	POLYGONAL	D	H	L	L1	L2	L3	CLAMPING UNIT	KEY	SCREW FOR KEY
										
128-11819	C40	40	70	13	141	12	36	CXC40-10	814-203310	811-101027
128-11809	C50	50	75	20	157	20	52	CXC50-10	814-203310	811-101027

PROTECTION COVER

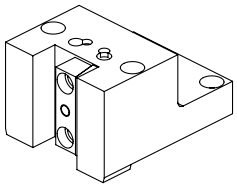




COD.	O RING
	
137-00254	823-101084

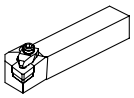
DOOSAN (BMT75) - PUMA 400/480 (M,LM,XLM) - 500 (M) - V550 (M) - VT750 (TM, 2SP)
SAMSUNG - PL 45LM - HYUNDAI WIA - LV800RM - SKT400M/MA/MC/LMC
HWACHEON - HI-TECH 550/700/7026 - VT-550

FACE AND O.D. CUTTING HOLDER

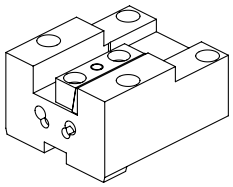


128-42508 - 25x25 mm
128-42516 - 32x32 mm

QUALIFIED TOOL

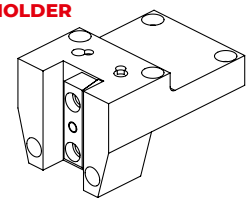


FACE AND O.D. CUTTING HOLDER



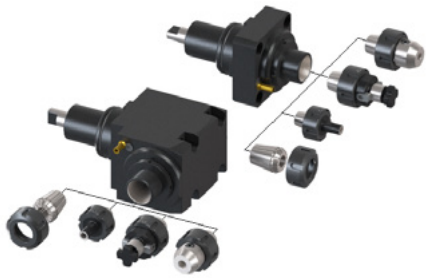
128-32506 - 25x25 mm

FACE AND O.D. CUTTING HOLDER



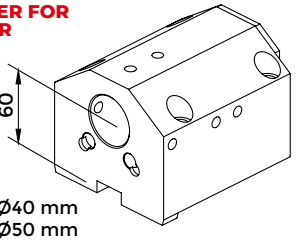
128-42509 - 25x25 mm
128-42510 - 32x32 mm

FAST-IN p. 490
DRIVEN TOOLS p. 298



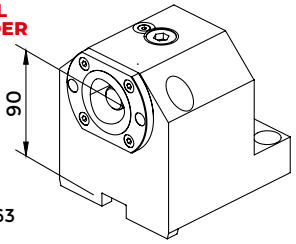
ACCESSORIES

TOOLHOLDER FOR BORING BAR



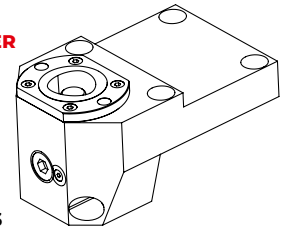
128-22522 - Ø40 mm
128-22523 - Ø50 mm

POLYGONAL TOOL HOLDER



128-12528 C63

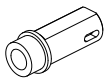
POLYGONAL TOOL HOLDER



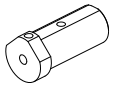
128-12529 C63

BORING BAR SLEEVE p. 707

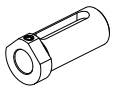
D40



8958 <MT1>
8959 <MT2>
8960 <MT3>



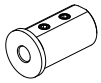
8916 (Ø10 mm)
8917 (Ø12 mm)
8918 (Ø16 mm)



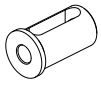
8919 (Ø20 mm)
8920 (Ø25 mm)
8921 (Ø32 mm)



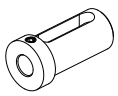
8897 (Ø20 mm)
8898 (Ø25 mm)
8899 (Ø32 mm)



9615 (Ø8 mm)
9616 (Ø10 mm)
9617 (Ø12 mm)



9619 (Ø16 mm)
9621 (Ø20 mm)
9622 (Ø25 mm)
9623 (Ø32 mm)



8768 (Ø16 mm)
8770 (Ø20 mm)
8771 (Ø25 mm)
8772 (Ø32 mm)

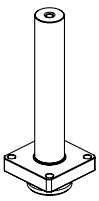
D50

8773 (Ø25 mm)
8774 (Ø32 mm)
8775 (Ø40 mm)

D60

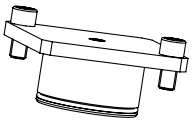
8881 (Ø25 mm)
8882 (Ø32 mm)
8883 (Ø40 mm)
8884 (Ø50 mm)

CONTROL PIN p. 740



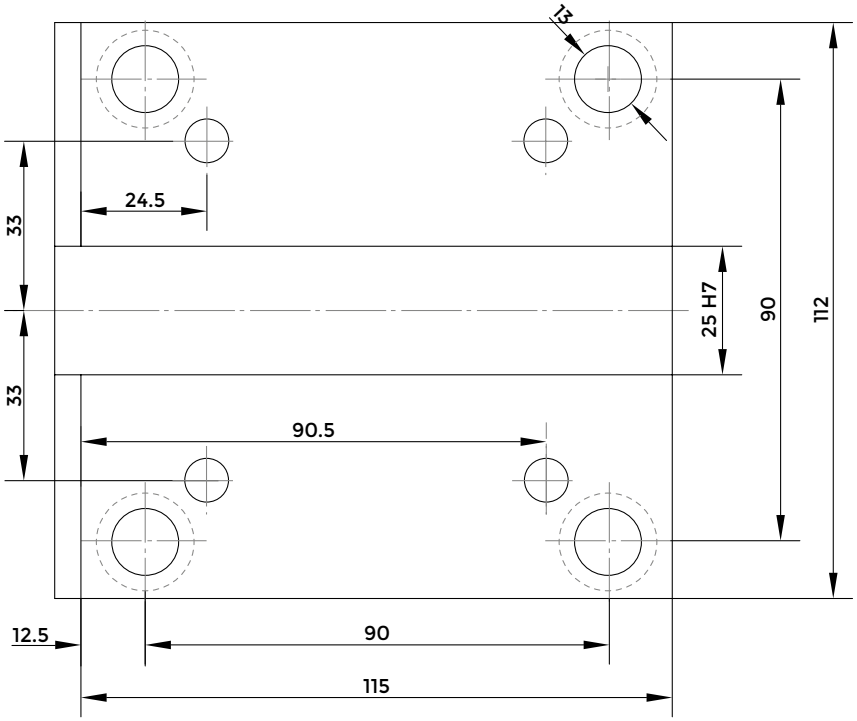
137-00200

PROTECTION COVER



137-00255

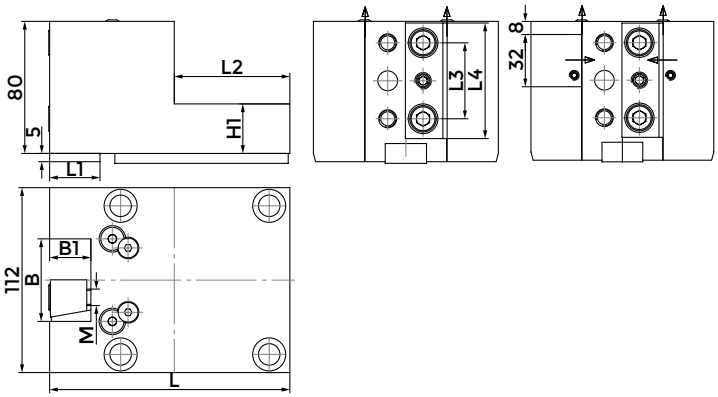
CONNECTION

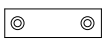
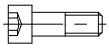


RADIAL TOOLHOLDER

IC VERSION

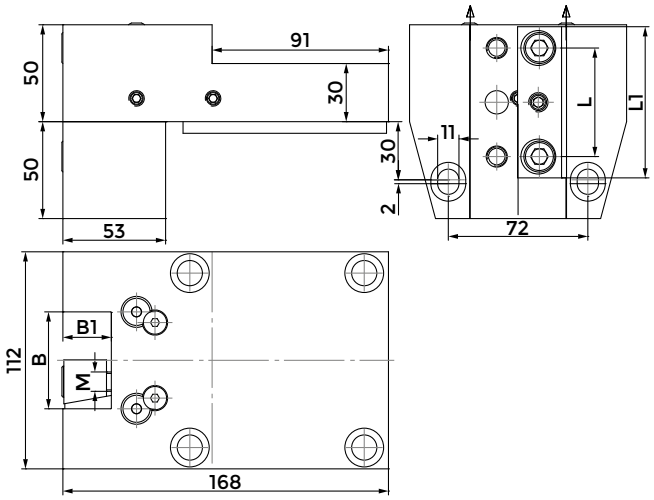


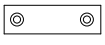
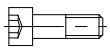


COD.	INTERNAL COOLANT	B	B1	H1	L	L1	L2	L3	L4	M	CLAMPING PLATE	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
															
128-42508	NO	50	25	30	145.5	30.5	70	46	70	M10	832-007010	814-203480	811-101027	833-001470	811-108018
128-42516	NO	64	32	45	152.5	35	80	52	76	M12	832-007970	814-203480	811-101027	833-001470	811-108018

RADIAL TOOLHOLDER

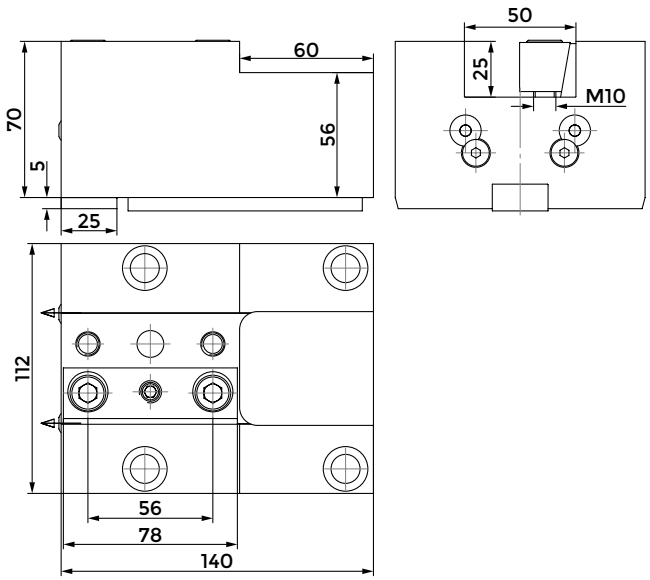


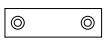
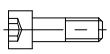


COD.	B	B1	L	L1	M	CLAMPING PLATE	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
										
128-42509	50	25	56	78	M10	832-007340	814-203480	811-101027	833-001470	811-108018
128-42510	64	32	60	88	M12	832-007170	814-203480	811-101027	833-001470	811-108018

AXIAL TOOLHOLDER

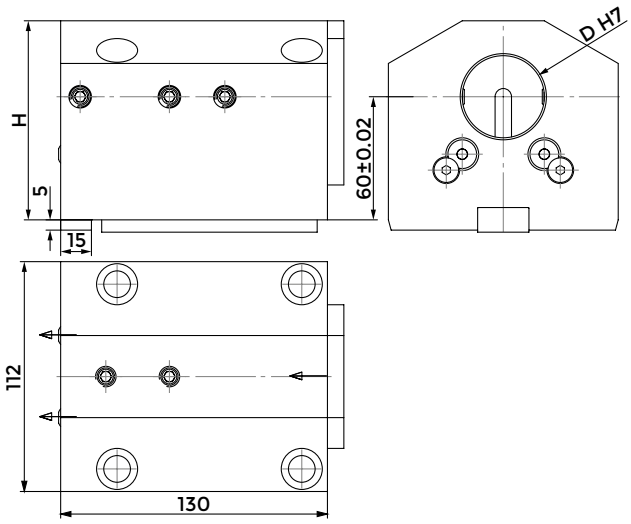


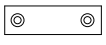
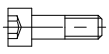
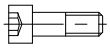


COD.	INTERNAL COOLANT	CLAMPING PLATE	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
						
128-32506	NO	832-007340	814-203480	811-101027	833-001470	811-108018

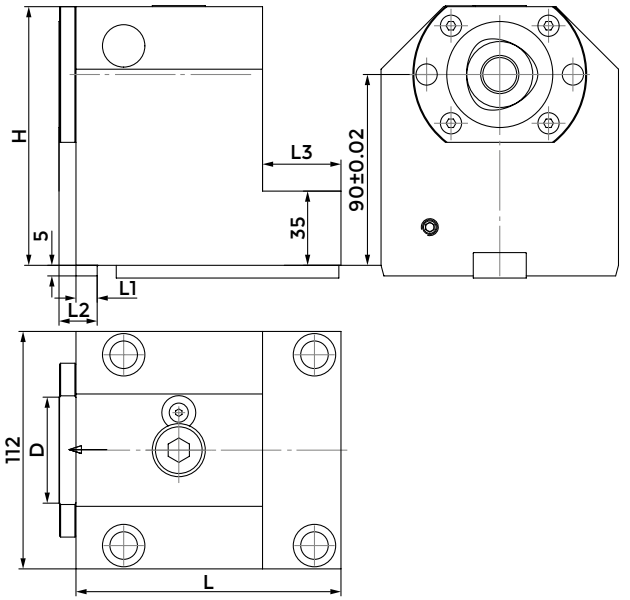
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

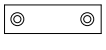
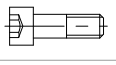




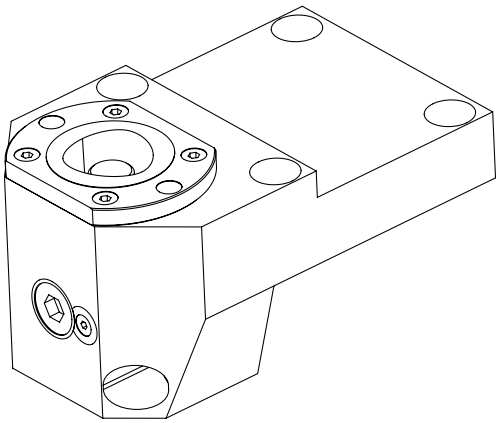
COD.	D	H	CLAMPING SCREW 1 (D40-M10x30) (D50-M12x30) (D60-M12x25)	CLAMPING SCREW 2 (D40-M10x16) (D50-M12x12)	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL	COVER	SCREW FOR COVER
										
128-22522	40	97	811-102040	811-102037	814-203480	811-101027	833-001470	811-108018	832-003369	811-101016
128-22523	50	97	811-102046	811-102064	814-203480	811-101027	833-001470	811-108018	832-003369	811-101016

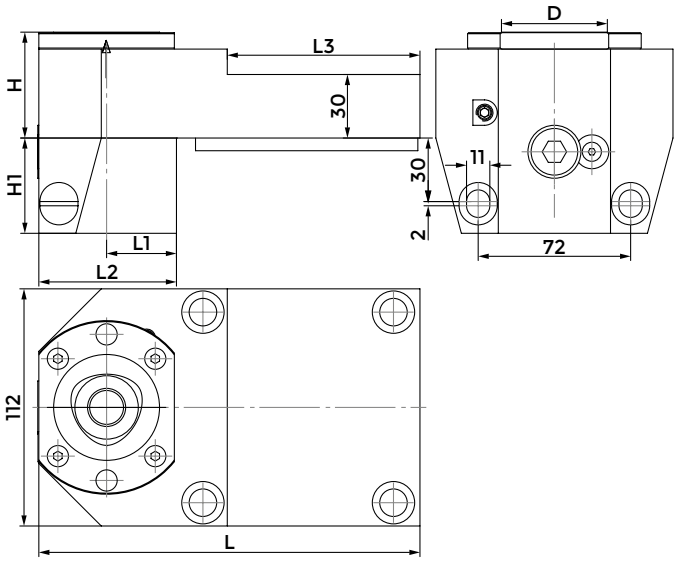
POLYGONAL TOOLHOLDER

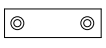
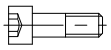


COD.	POLYGONAL	D	H	L	L1	L2	L3	CLAMPING UNIT	KEY	SCREW FOR KEY
										
128-12528	C63	63	102	127	12	21	-	CXC63-10	814-203480	811-101027

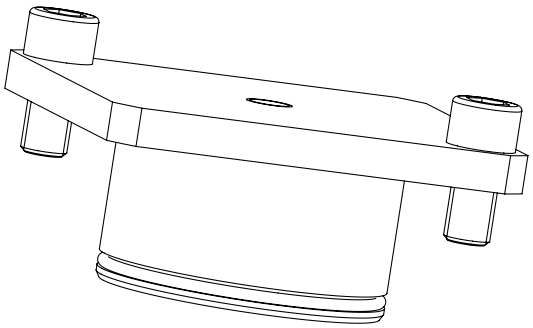
POLYGONAL TOOLHOLDER

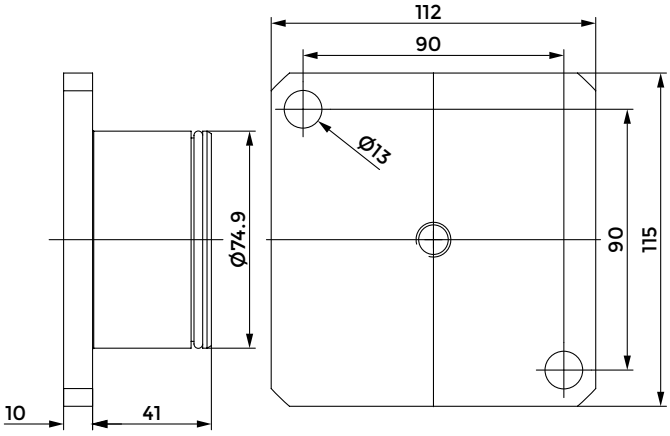




COD.	POLYGONAL	D	H	H1	L	L1	L2	L3	CLAMPING UNIT	KEY	SCREW FOR KEY
											
128-12529	C63	63	45	57	204	47	89	120	CXC63-10	814-203480	811-101027

PROTECTION COVER

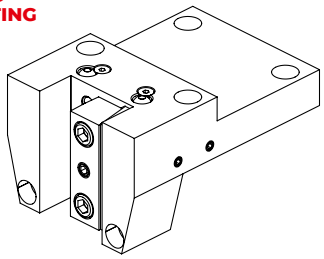




COD.	O RING
	
137-00255	823-101115

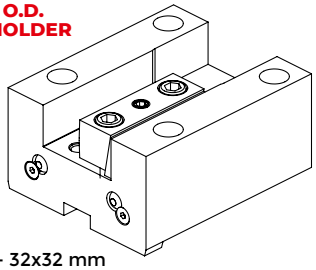
DOOSAN PUMA (BMT85) - 600 M/LM - 700 M/LM - 800 M/LM - VT900 M/TM - VT1100 M

FACE AND O.D. CUTTING HOLDER



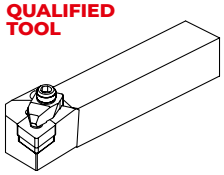
128-42513 - 32x32 mm

FACE AND O.D. CUTTING HOLDER

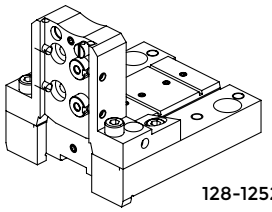


128-32509 - 32x32 mm

QUALIFIED TOOL



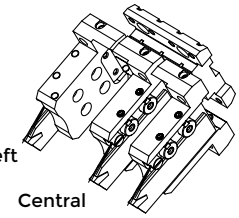
CUT-OFF HOLDER



128-12521 - 32 mm

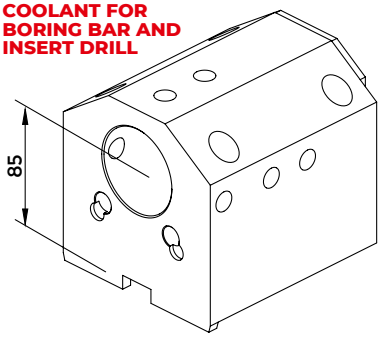
CUT-OFF TOOL





ACCESSORIES

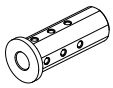
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



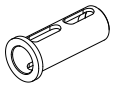
128-22528 - (Ø50 mm)
128-22529 - (Ø60 mm)

BORING BAR SLEEVE

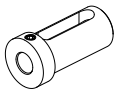
p. 705



D50	D60
5328 (Ø12 mm) 5329 (Ø16 mm) 5330 (Ø20 mm) 5331 (Ø25 mm) 5332 (Ø32 mm)	8840 (Ø20 mm) 8941 (Ø25 mm) 8942 (Ø32 mm) 8943 (Ø40 mm)

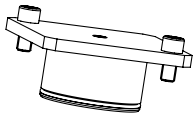


D50	D60
5335 (Ø40 mm)	8844 (Ø50 mm)



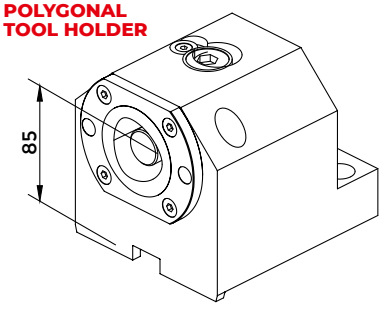
D50	D60
5335 (Ø25 mm) 8774 (Ø32 mm) 8775 (Ø40 mm)	8881 (Ø25 mm) 8882 (Ø32 mm) 8883 (Ø40 mm) 8884 (Ø50 mm)

PROTECTION COVER



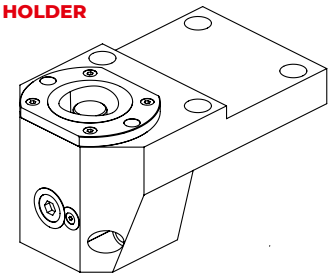
137-00256

POLYGONAL TOOL HOLDER



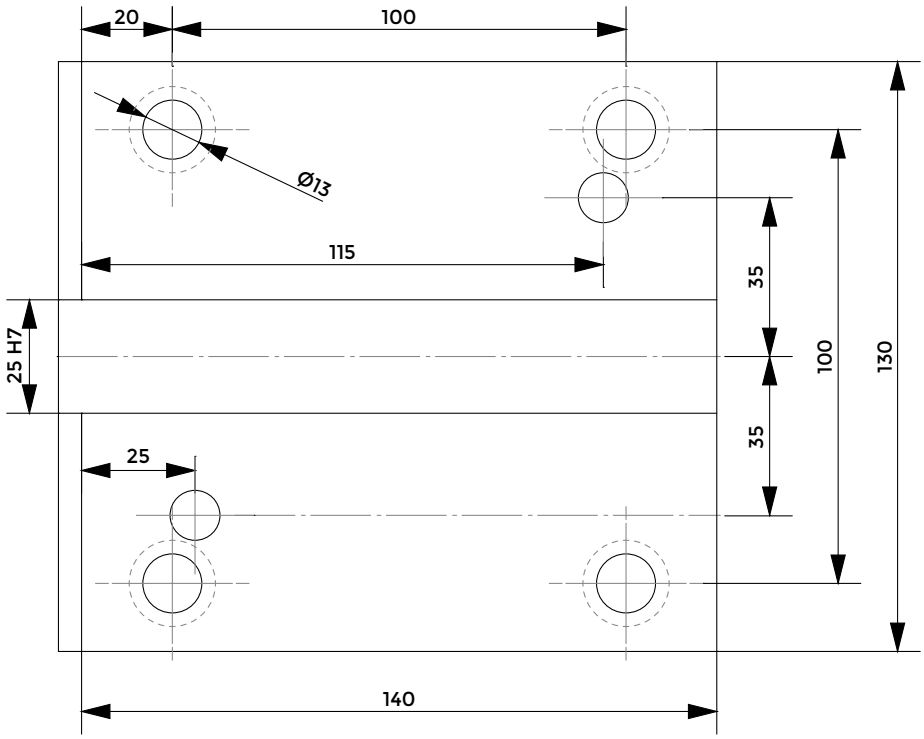
128-12519 C63

POLYGONAL TOOL HOLDER

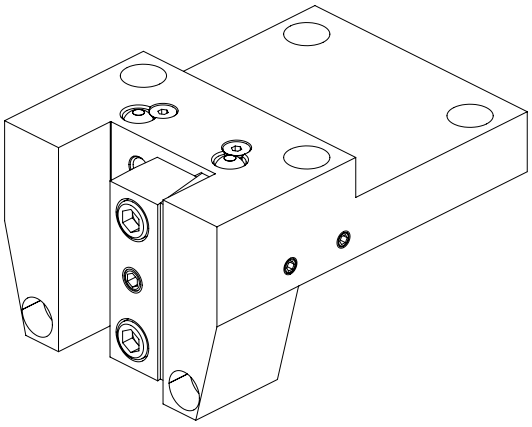


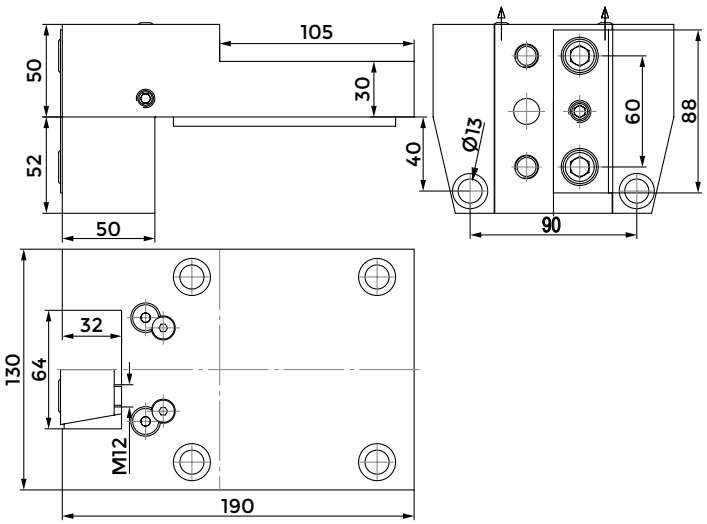
128-12520 C63

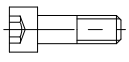
CONNECTION



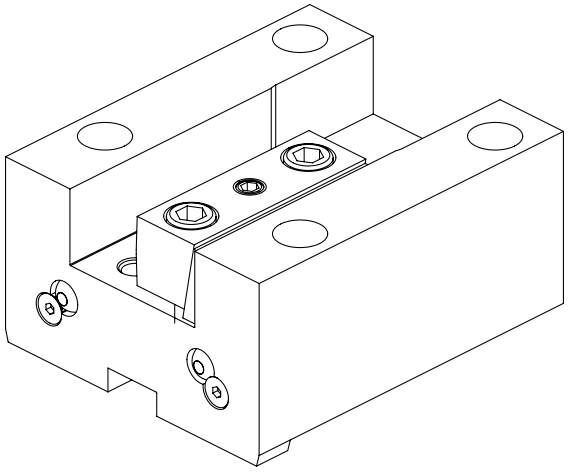
RADIAL TOOLHOLDER

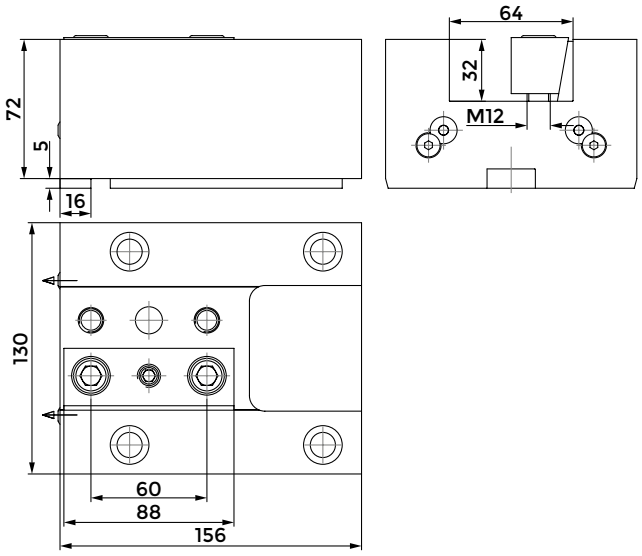


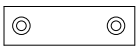
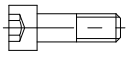


COD.	CLAMPING PLATE	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
					
128-42513	832-007170	814-203350	811-101027	833-001470	811-108018

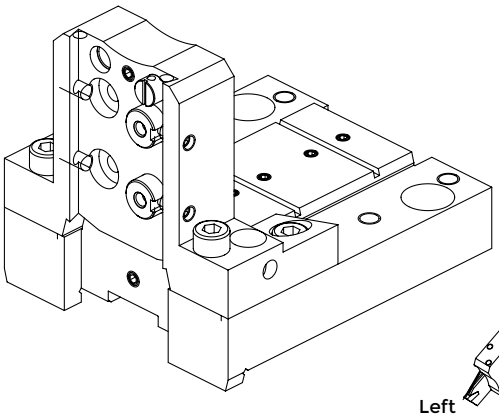
AXIAL TOOLHOLDER

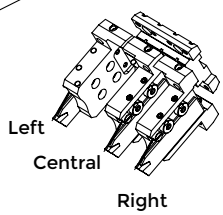


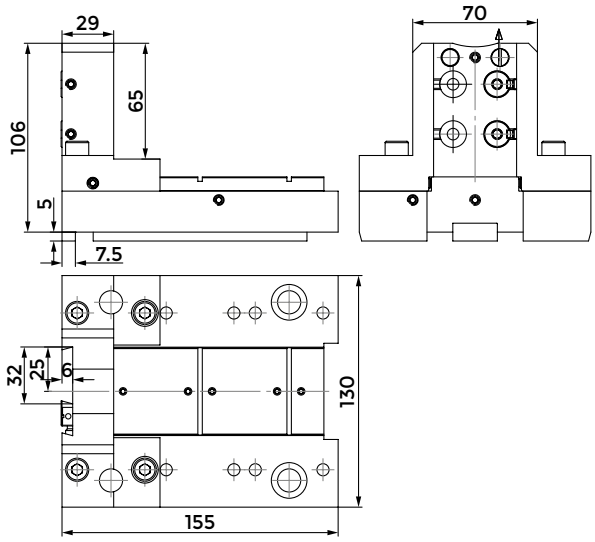


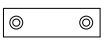
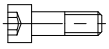
COD.	CLAMPING PLATE	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL
					
128-32509	832-007170	814-203350	811-101027	833-001470	811-108018

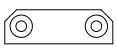
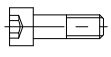
CUT-OFF HOLDER



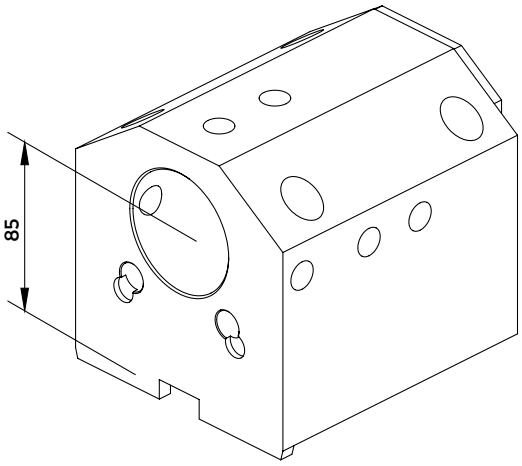


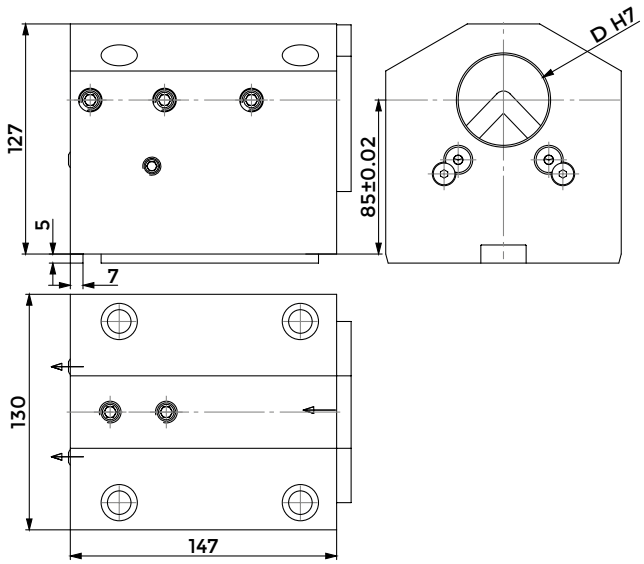


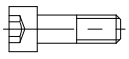
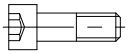
COD.	KEY	SCREW FOR KEY	COOLANT NOZZLE	O RING FOR COOLANT NOZZLE	O RING FOR BODY
					
128-12521	814-203350	811-101026	833-001490	823-101058	823-101061

COD.	SHIM PLATE	SCREW FOR PLATE	CLAMPING PIN	SPRING	CLAMPING SCREW	SCREW
						
128-12521	832-014449	811-108037	832-014450	824-300012	811-101029	811-104013

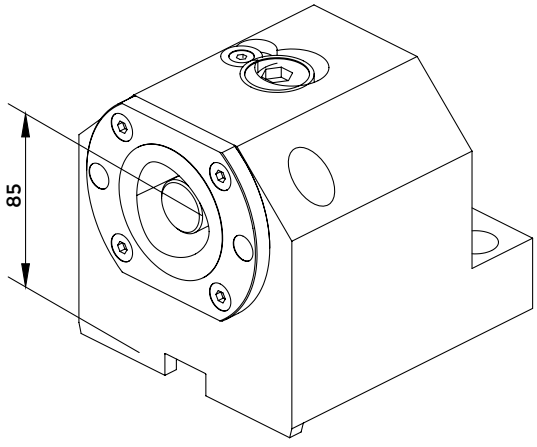
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

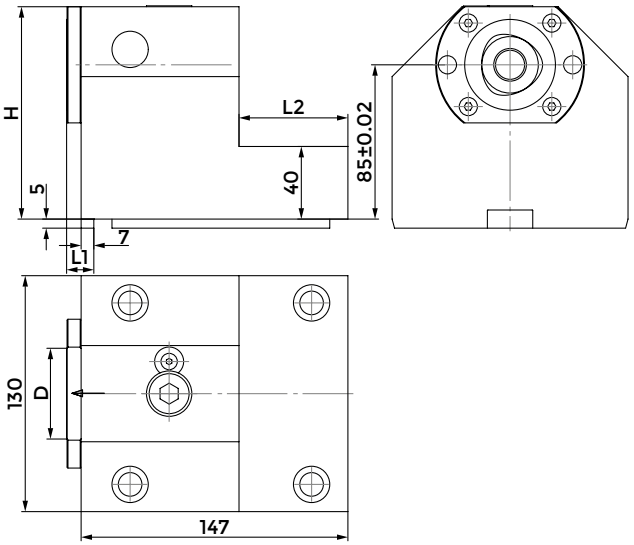


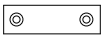
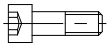


COD.	D	CLAMPING SCREW 1 (M12X35)	CLAMPING SCREW 2 (D50-M12x16) (D60-M12x12)	KEY	SCREW FOR KEY	COOLANT BALL	SCREW FOR BALL	COVER	SCREW FOR COVER
									
128-22528	50	811-102047	811-102043	814-203350	811-101027	833-001470	811-108018	832-003389	811-101016
128-22529	60	811-102047	811-102064	814-203350	811-101027	833-001470	811-108018	832-003389	811-101016

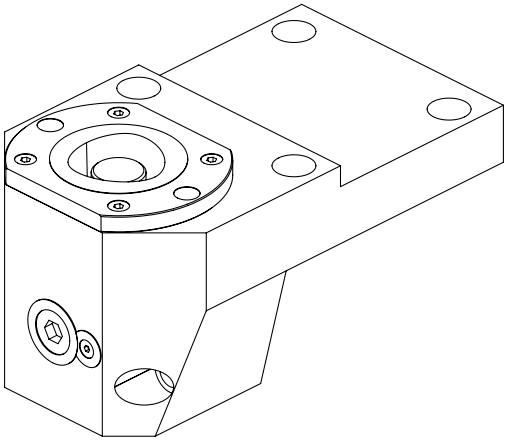
POLYGONAL TOOLHOLDER

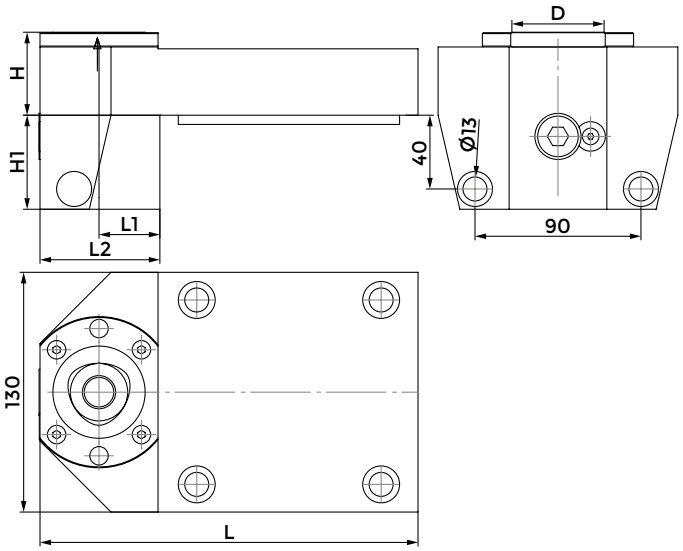


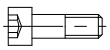


COD.	POLYGONAL	D	H	L1	L2	CLAMPING UNIT	KEY	SCREW FOR KEY
								
128-12519	C63	63	127	16	39	CXC63-10	814-203350	811-101027

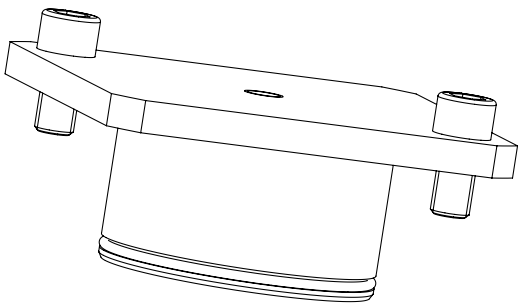
POLYGONAL TOOLHOLDER

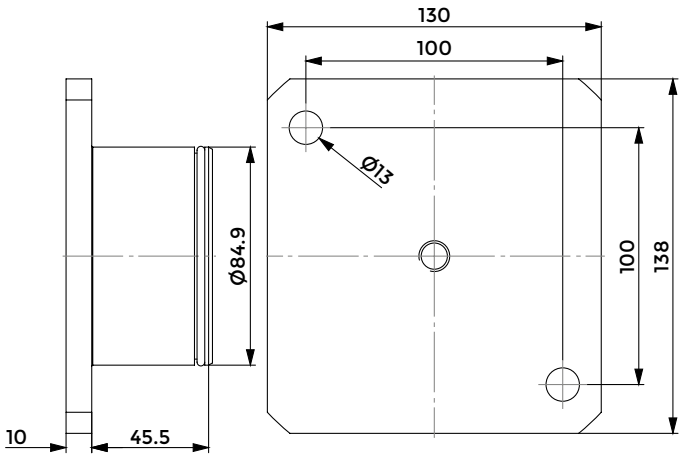




COD.	POLYGONAL	D	H	H1	L	L1	L2	CLAMPING UNIT	KEY	SCREW FOR KEY
										
128-12520	C63	63	50	67	225	43	85	CXC63-10	814-203350	811-101027

PROTECTION COVER

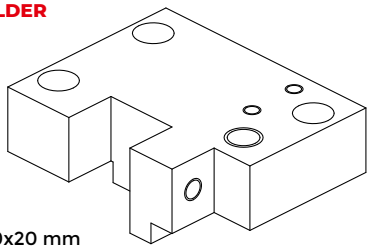




COD.	O RING
	
137-00256	823-101116

MAZAK NEXUS - SQT100/150

FACE AND O.D. CUTTING HOLDER



123-33801 - 20x20 mm

QUALIFIED TOOL

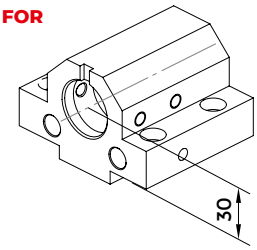


ACCESSORIES

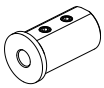
BORING BAR SLEEVE

p. 707

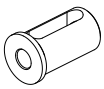
TOOLHOLDER FOR BORING BAR



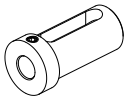
121-23801
Ø32 mm



9607 (Ø8 mm)
9608 (Ø10 mm)
9609 (Ø12 mm)

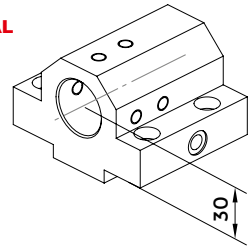


9611 (Ø16 mm)
9613 (Ø20 mm)
9614 (Ø25 mm)



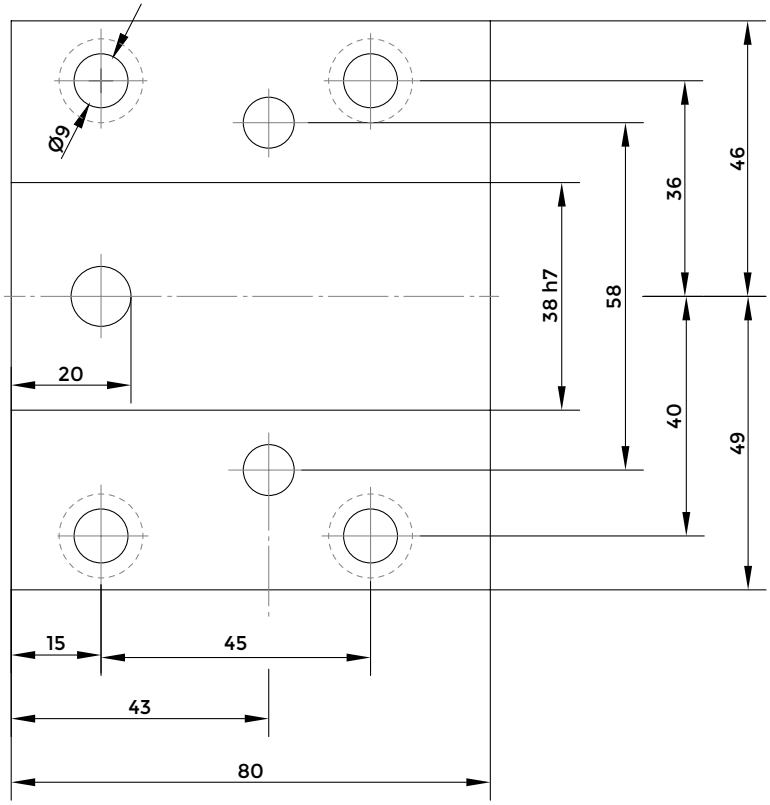
8764 (Ø16 mm)
8766 (Ø20 mm)
8767 (Ø25 mm)

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

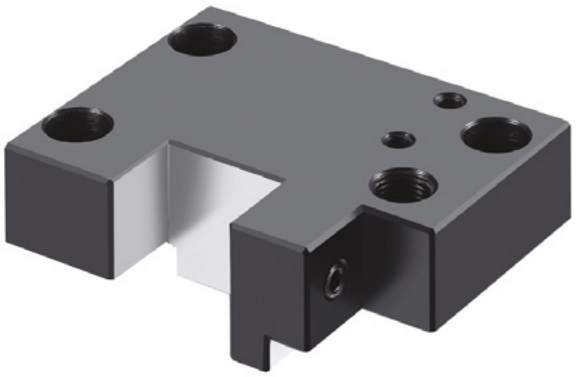


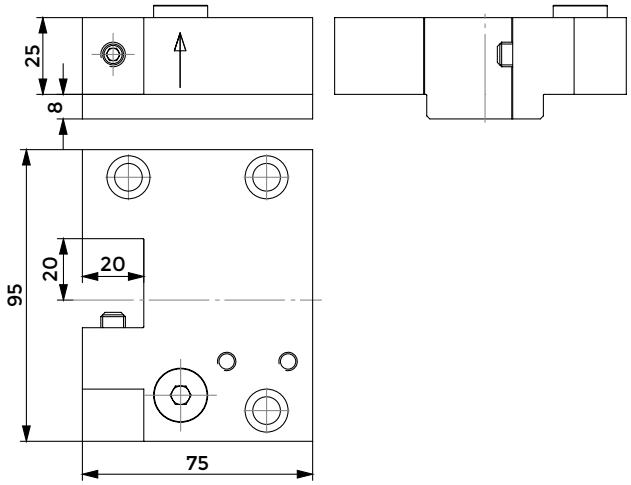
121-23802
Ø32 mm

CONNECTION



RADIAL TOOLHOLDER

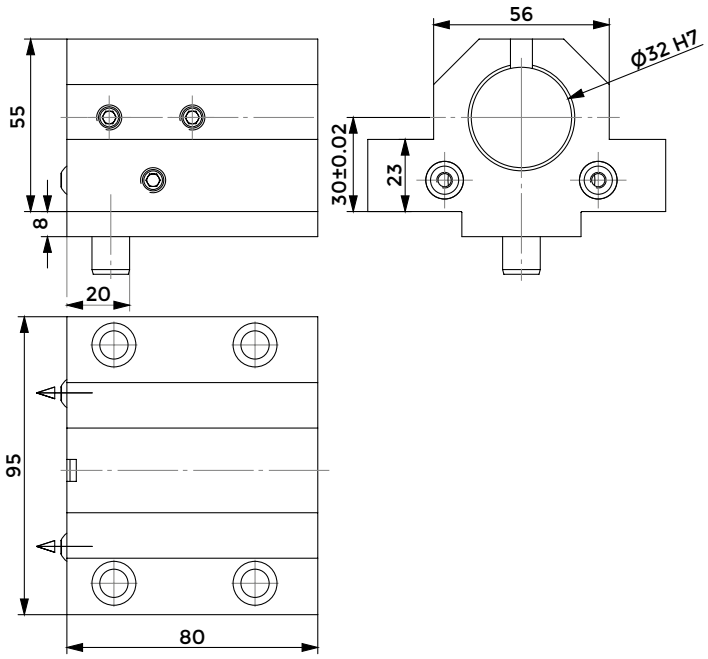




COD.	CLAMPING SCREW	SCREW
		
123-33801	811-102031	811-302110

TOOLHOLDER FOR BORING BAR

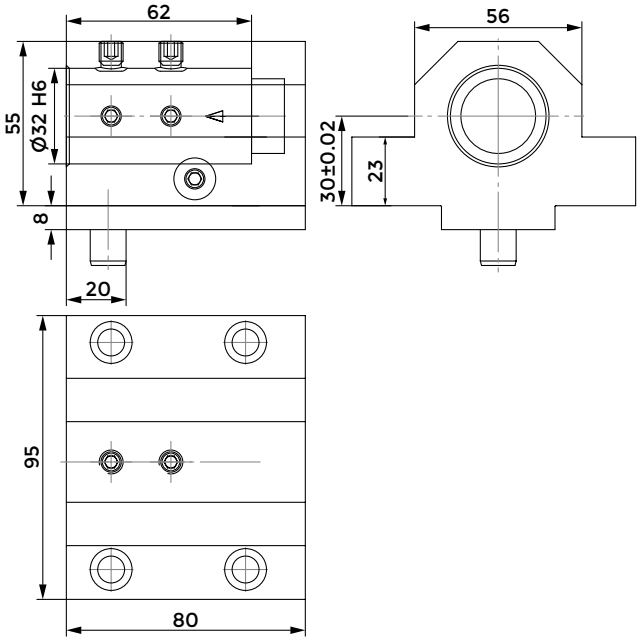




COD.	CLAMPING SCREW	PIN	COOLANT NOZZLE
			
121-23801	811-102028	815-210610	833-001080

TOOLHOLDER FOR INSERT DRILL WITH INTERNAL COOLANT

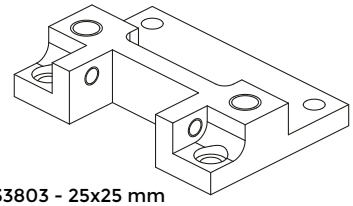




COD.	CLAMPING SCREW 1 (M8X12)	CLAMPING SCREW 2 (M8X8)	PIN
			
121-23802	811-102028	811-102026	815-210610

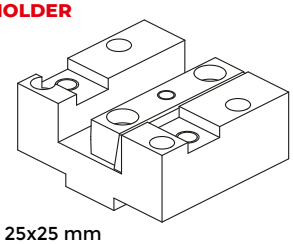
MAZAK NEXUS - QTN 200/250

FACE AND O.D. CUTTING HOLDER



123-33803 - 25x25 mm

FACE AND O.D. CUTTING HOLDER



122-13802 - 25x25 mm

QUALIFIED TOOL

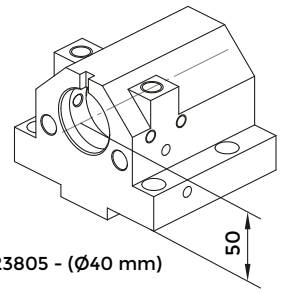


FAST-IN p. 490
DRIVEN TOOLS p. 298



ACCESSORIES

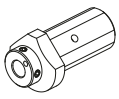
TOOLHOLDER FOR BORING BAR



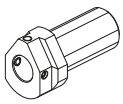
121-23805 - (Ø40 mm)

BORING BAR SLEEVE

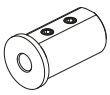
p. 707



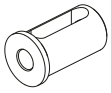
5581 (Ø8 mm)
5582 (Ø10 mm)
5583 (Ø12 mm)
5585 (Ø16 mm)
5587 (Ø20 mm)



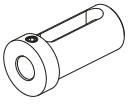
5594 (Ø25 mm)
5595 (Ø32 mm)



9615 (Ø8 mm)
9616 (Ø10 mm)
9617 (Ø12 mm)



9619 (Ø16 mm)
9621 (Ø20 mm)
9622 (Ø25 mm)
9623 (Ø32 mm)

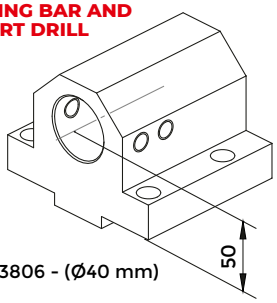


8768 (Ø16 mm)
8770 (Ø20 mm)
8771 (Ø25 mm)
8772 (Ø32 mm)



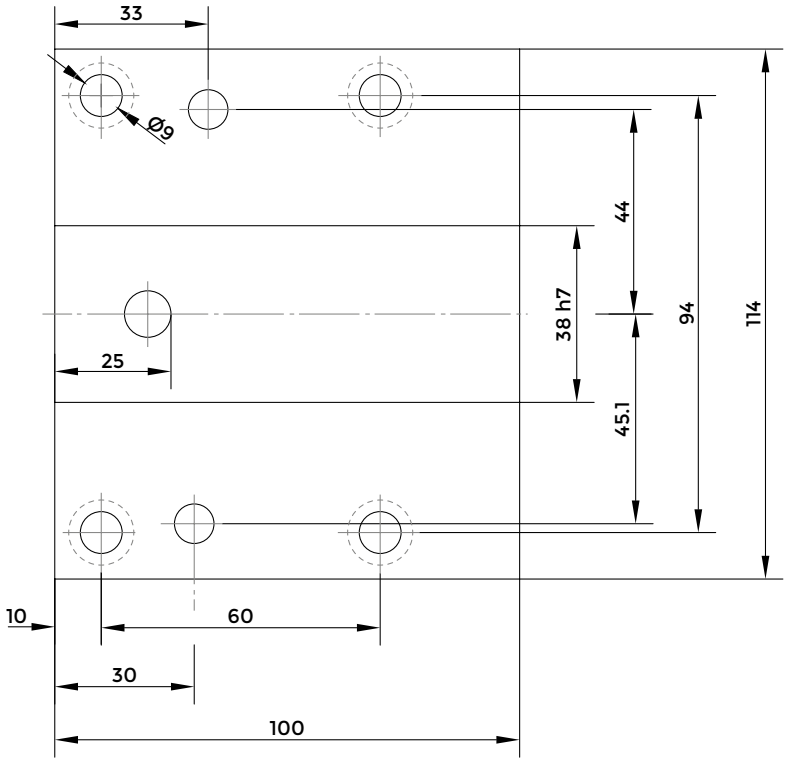
5596 (Ø20 mm)
5597 (Ø25 mm)
5598 (Ø32 mm)

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



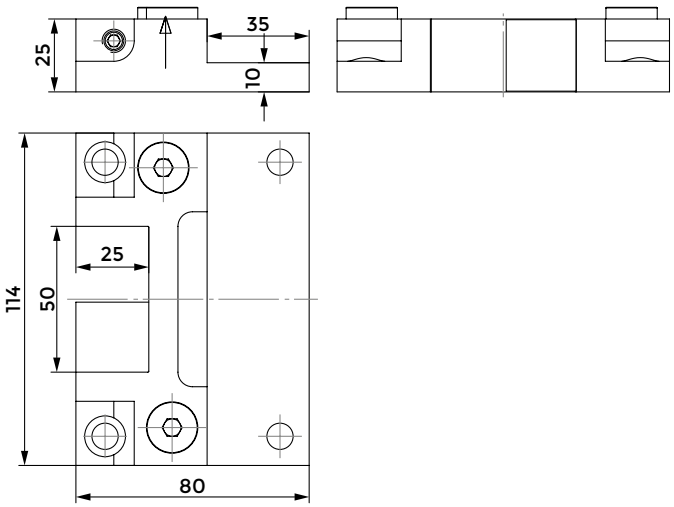
121-23806 - (Ø40 mm)

CONNECTION



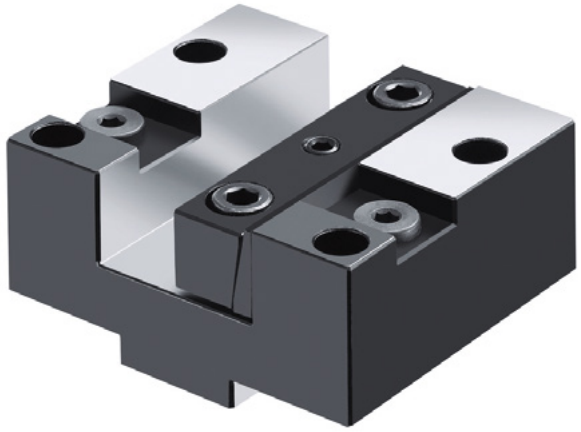
RADIAL TOOLHOLDER

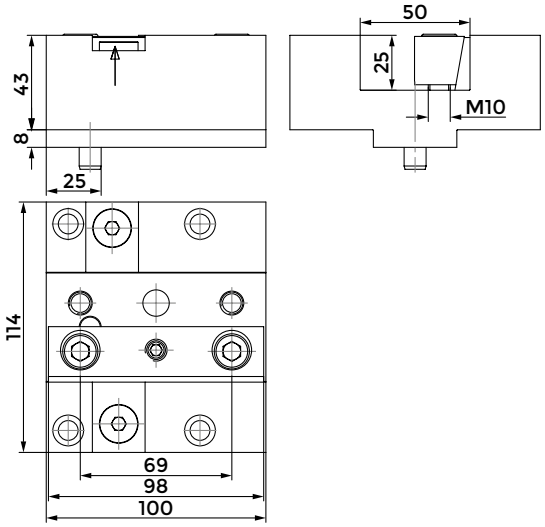




COD.	CLAMPING SCREW	CLAMPING PLATE	SCREW
			
123-33803	811-102027	832-002170	811-302110

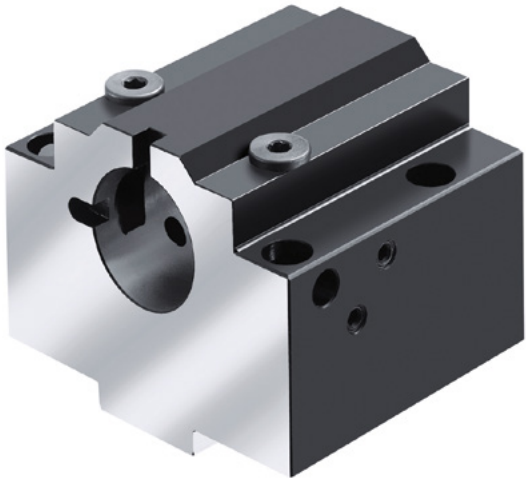
AXIAL TOOLHOLDER

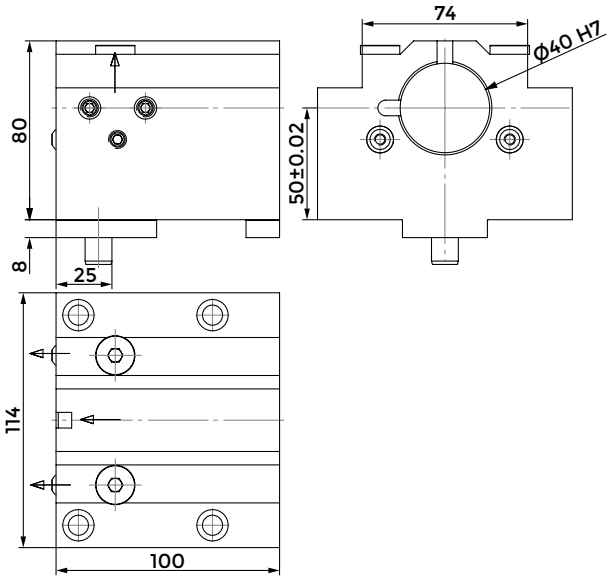




COD.	CLAMPING SCREW	PIN	SCREW
			
122-13802	832-007220	815-210620	811-302110

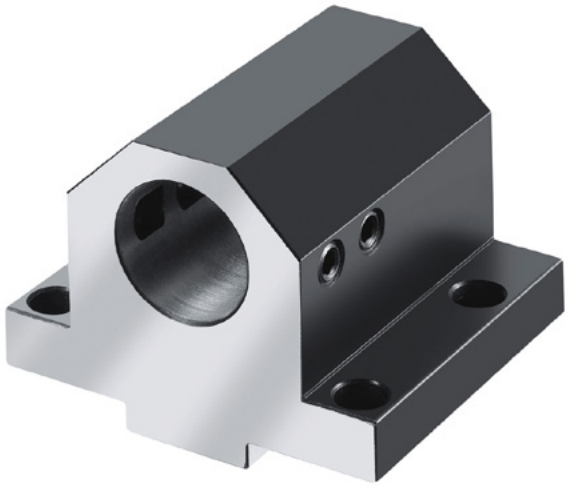
TOOLHOLDER FOR BORING BAR Ø40

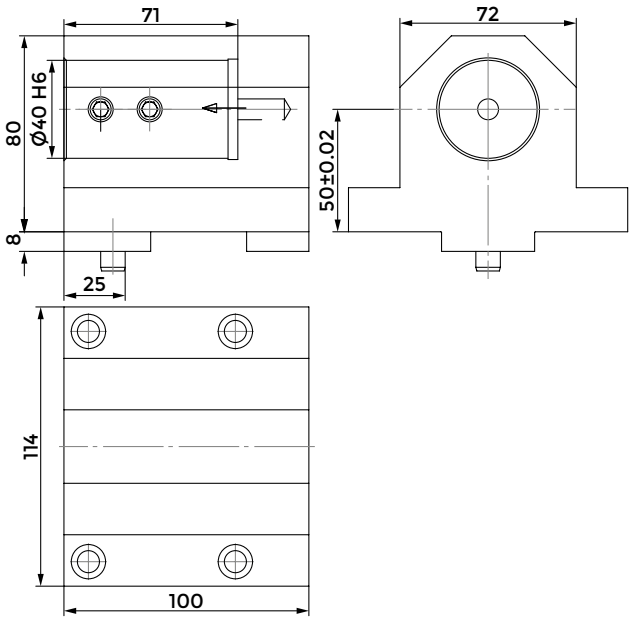




COD.	CLAMPING SCREW	PIN	SCREW	COOLANT NOZZLE
				
121-23805	811-102030	815-210610	811-302110	833-001080

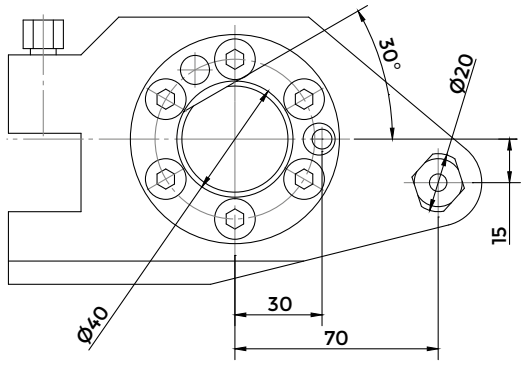
TOOLHOLDER FOR INSERT DRILL WITH INTERNAL COOLANT

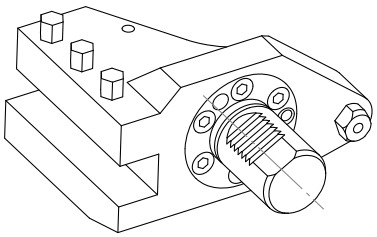


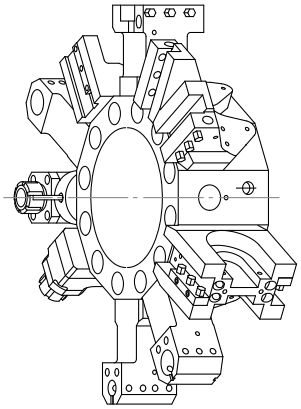


COD.	CLAMPING SCREW	SCREW
		
121-23806	811-102043	815-210620

MAZAK SQT - SQT 15 - SQT 18 M/MS - 12 stations - SQT 200, SQT 250 M/MS - 12 stations
MAZAK QTN (VDI40) - QTN 200 - QTN 250 M/MB/MS/MY/MSY - 12 stations

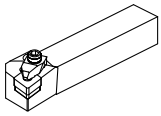


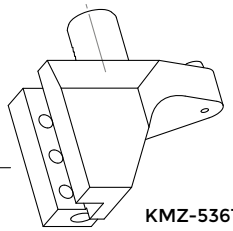




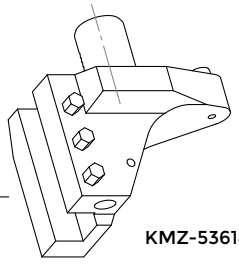
ACCESSORIES

QUALIFIED TOOL



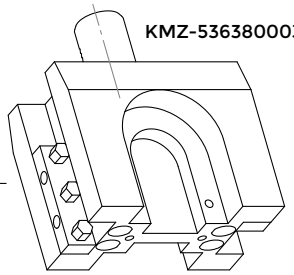


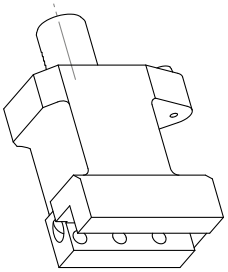
KMZ-53618000100



KMZ-53618000600

KMZ-53638000300



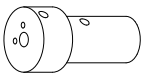


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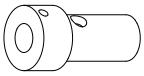
BORING BAR SLEEVE

p. 707

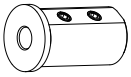
5581 (Ø8 mm)
5582 (Ø10 mm)
5583 (Ø12 mm)
5585 (Ø16 mm)
5587 (Ø20 mm)



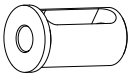
5594 (Ø25 mm)
5595 (Ø32 mm)



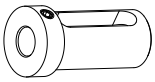
9615 (Ø8 mm)
9616 (Ø10 mm)
9617 (Ø12 mm)



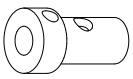
9619 (Ø16 mm)
9621 (Ø20 mm)
9622 (Ø25 mm)
9623 (Ø32 mm)



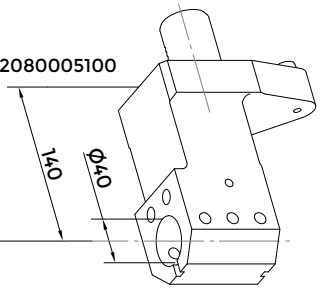
8768 (Ø16 mm)
8770 (Ø20 mm)
8771 (Ø25 mm)
8772 (Ø32 mm)



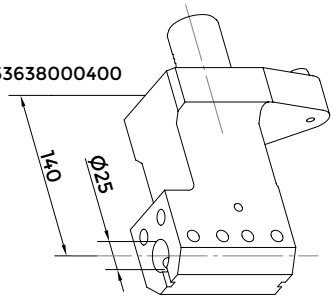
5596 (Ø20 mm)
5597 (Ø25 mm)
5598 (Ø32 mm)



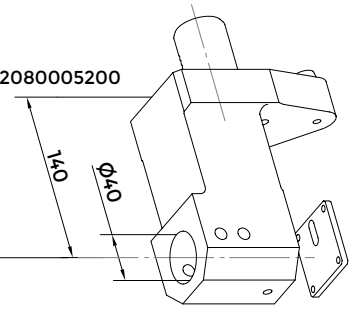
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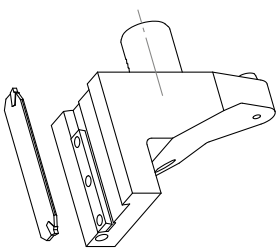
KMZ-53638000400



KMZ-532080005200



CUT-OFF TOOL



KMZ-53618000400

COLLET ER32

p. 326



116-54019

COLLET ER32

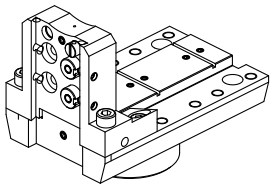
p. 326



116-54020

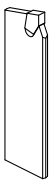
MAZAK (BMT68) - QTC/QTU 100-350 M/MY/MS/MSY - QT/QTS 100-250 M/MY/MS/MSY - QT 200-250 M/MY/MS/MSY (16D)

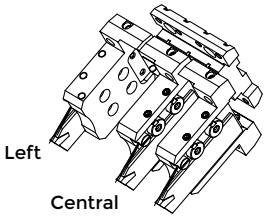
CUT-OFF HOLDER



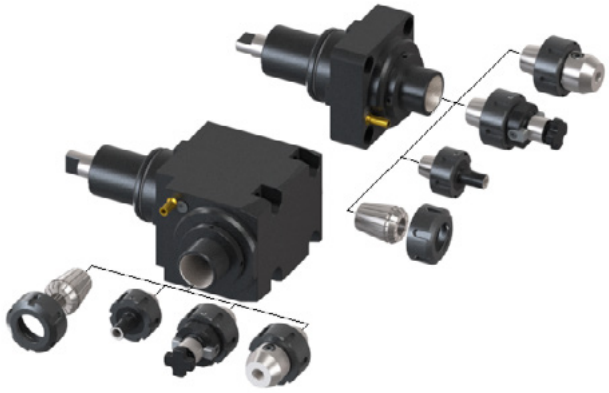
137-00279 - 32 mm

CUT-OFF TOOL



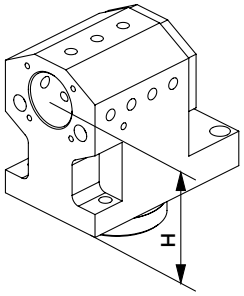


FAST-IN p. 490
DRIVEN TOOLS p. 298



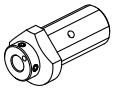
ACCESSORIES

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

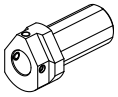


137-00278 (H=95 mm) - Ø40 mm

BORING BAR SLEEVE
p. 707



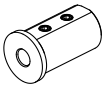
5581 (Ø8 mm)
5582 (Ø10 mm)
5583 (Ø12 mm)
5585 (Ø16 mm)
5587 (Ø20 mm)



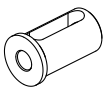
5594 (Ø25 mm)
5595 (Ø32 mm)



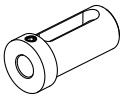
5596 (Ø20 mm)
5597 (Ø25 mm)
5598 (Ø32 mm)



9615 (Ø8 mm)
9616 (Ø10 mm)
9617 (Ø12 mm)

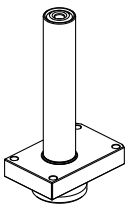


9619 (Ø16 mm)
9621 (Ø20 mm)
9622 (Ø25 mm)
9623 (Ø32 mm)



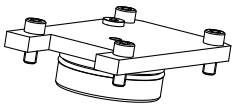
8768 (Ø16 mm)
8770 (Ø20 mm)
8771 (Ø25 mm)
8772 (Ø32 mm)

CONTROL PIN
p. 740



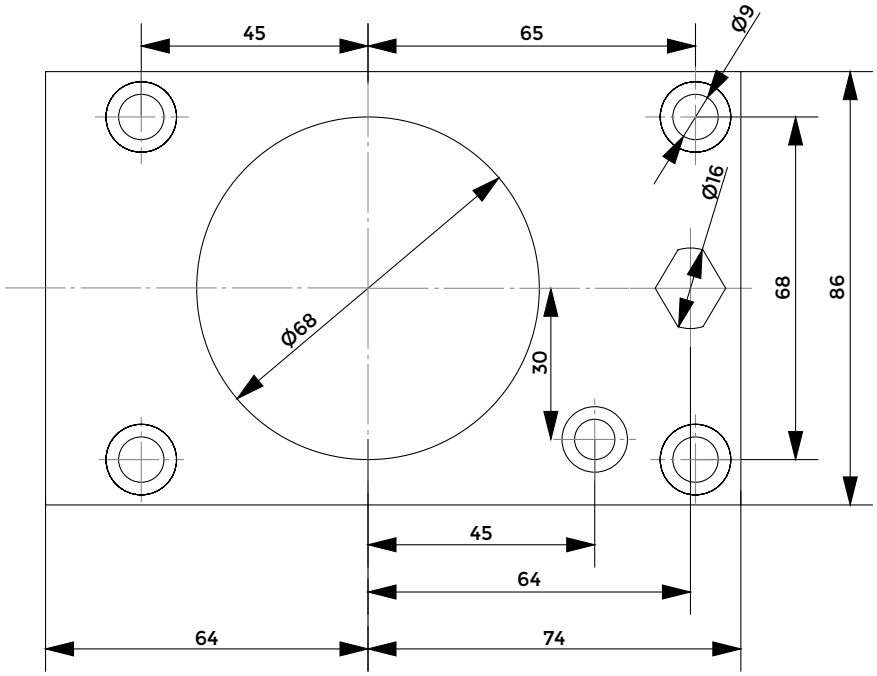
137-00201

PROTECTION COVER

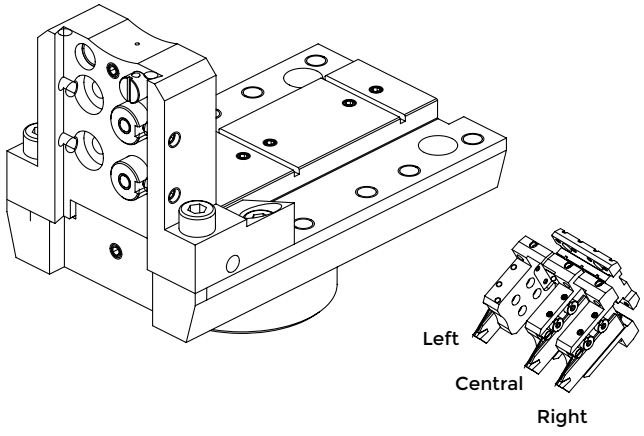


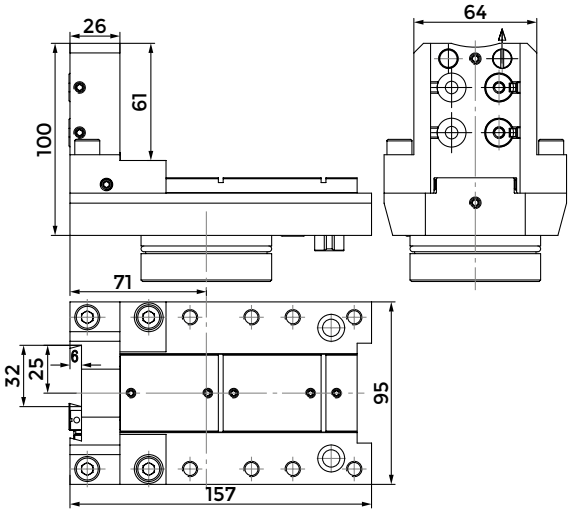
137-00272

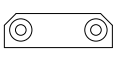
CONNECTION

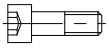
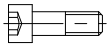


CUT-OFF HOLDER

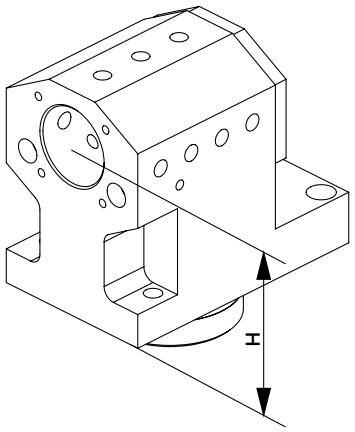


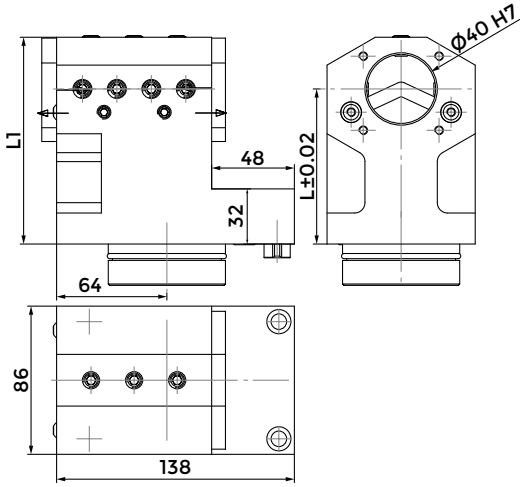


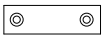
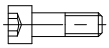
COD.	COOLANT NOZZLE	O RING FOR COOLANT NOZZLE	O RING FOR BODY	O RING FOR INTERNAL COOLANT	PIN	SHIM PLATE	SCREW FOR PLATE	CLAMPING PIN
								
137-00279	833-001490	823-101058	823-101061	-	832-008064	832-014448	811-108037	832-014450

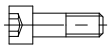
COD.	SPRING	CLAMPING SCREW	SCREW	CENTRAL PIN	SCREW FOR PIN	O RING FOR PIN (62X3)	O RING FOR PIN (54X3)	O RING FOR COOLANT (9X2)
								
137-00279	824-300012	811-101029	811-104013	832-020711	811-101031	823-101124	823-101077	823-101015

COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL

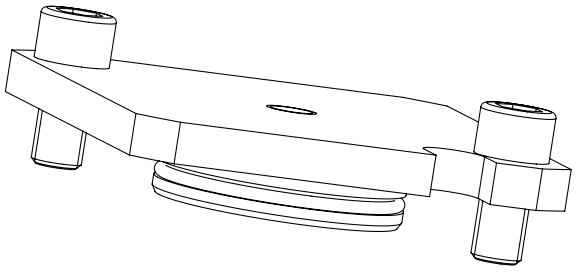


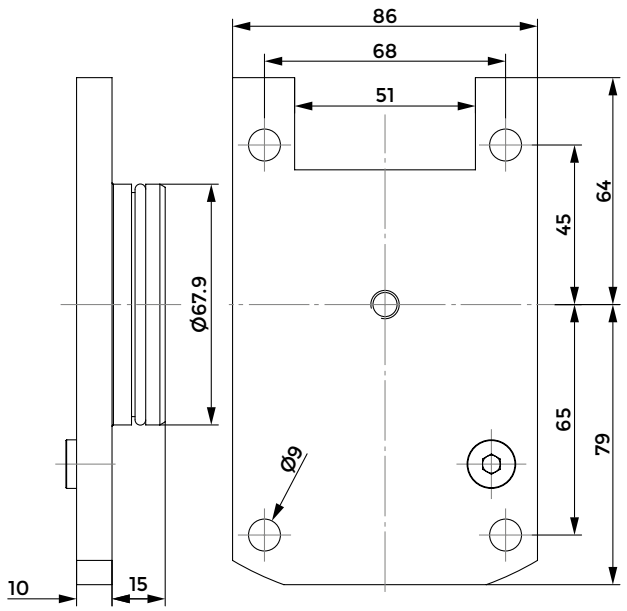


COD.	L	L1	CLAMPING SCREW 1 (M10X20)	CLAMPING SCREW 1 (M10X12)	PIN	COOLANT NOZZLE	COVER FOR INTERNAL COOLANT
							
137-00278	95	125	811-102038	811-102036	832-008064	833-001080	832-003403

COD.	SCREW FOR COVER	CENTRAL PIN	SCREW FOR PIN	O RING FOR PIN (62X3)	O RING FOR PIN (54X3)	O RING FOR COOLANT (9X2)
						
137-00278	811-104013	832-020711	811-101031	823-101124	823-101077	823-101015

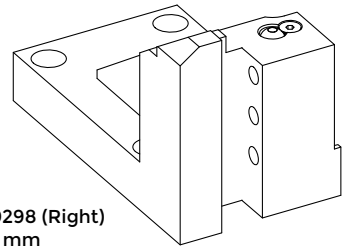
PROTECTION COVER



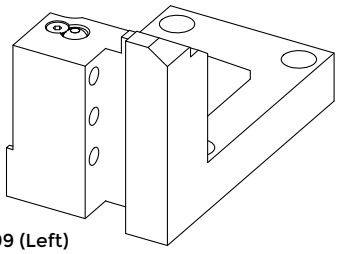


COD.	O RING	SCREW
		
137-00272	823-101124	811-302106

MAZAK MURATEC MW120 - MW 120 8ST - MS60 8ST - MJ60 8ST



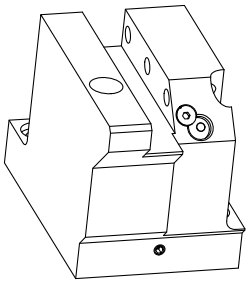
137-00298 (Right)
20x20 mm



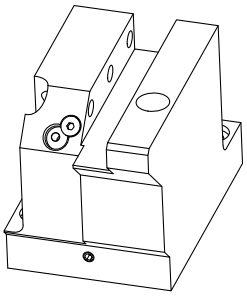
137-00299 (Left)
20x20 mm

QUALIFIED TOOL





137-00296 (Right)
20x20 mm

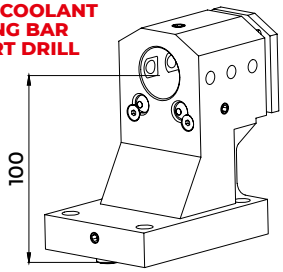


137-00297 (Left)
20x20 mm

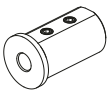
ACCESSORIES

BORING BAR SLEEVE
p. 707

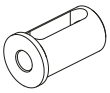
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



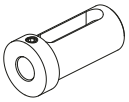
137-00300 - (Ø40 mm)



9615 (Ø8 mm)
9616 (Ø10 mm)
9617 (Ø12 mm)

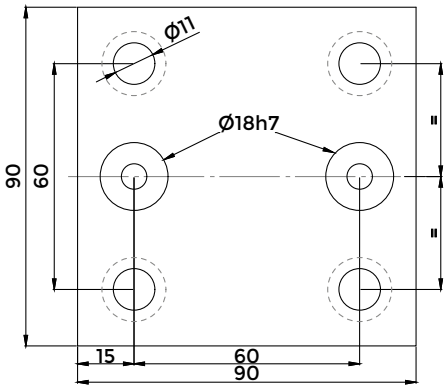


9619 (Ø16 mm)
9621 (Ø20 mm)
9622 (Ø25 mm)
9623 (Ø32 mm)

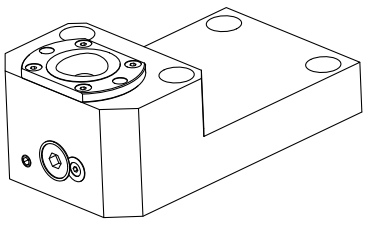


8768 (Ø16 mm)
8770 (Ø20 mm)
8771 (Ø25 mm)
8772 (Ø32 mm)

CONNECTION

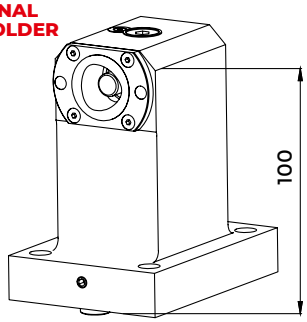


POLYGONAL TOOL HOLDER



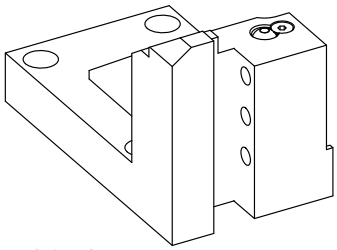
137-00262 C40
137-00314 C50

POLYGONAL TOOL HOLDER

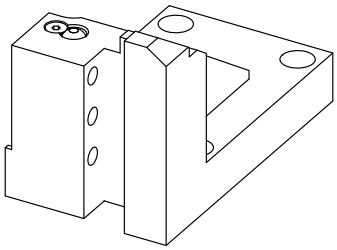


137-00263 C40
137-00313 C50

MAZAK MURATEC MW200 - MW 200 10ST - MW 180 10ST - MS100 10ST - MS90 10ST - MJ100 10ST



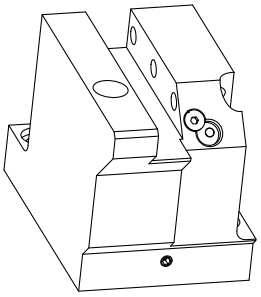
137-00259 (Right)
25x25 mm



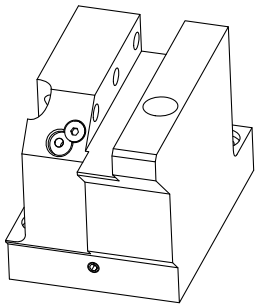
137-00260 (Left)
25x25 mm

QUALIFIED TOOL





137-00265 (Right)
25x25 mm

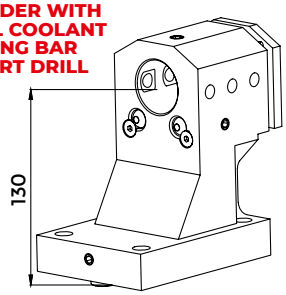


137-00266 (Left)
25x25 mm

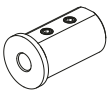
ACCESSORIES

BORING BAR SLEEVE
p. 707

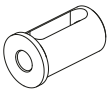
COMBI TOOLHOLDER WITH INTERNAL COOLANT FOR BORING BAR AND INSERT DRILL



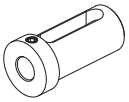
137-00271 - (Ø40 mm)



9615 (Ø8 mm)
9616 (Ø10 mm)
9617 (Ø12 mm)

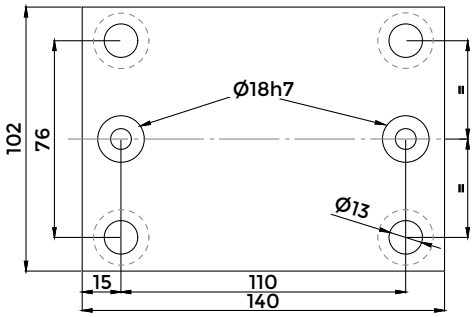


9619 (Ø16 mm)
9621 (Ø20 mm)
9622 (Ø25 mm)
9623 (Ø32 mm)

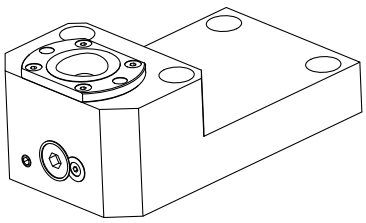


8768 (Ø16 mm)
8770 (Ø20 mm)
8771 (Ø25 mm)
8772 (Ø32 mm)

CONNECTION

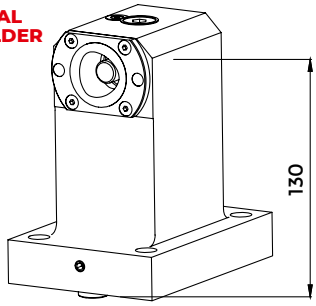


POLYGONAL TOOL HOLDER



137-00237 C40
137-00312 C50

POLYGONAL TOOL HOLDER

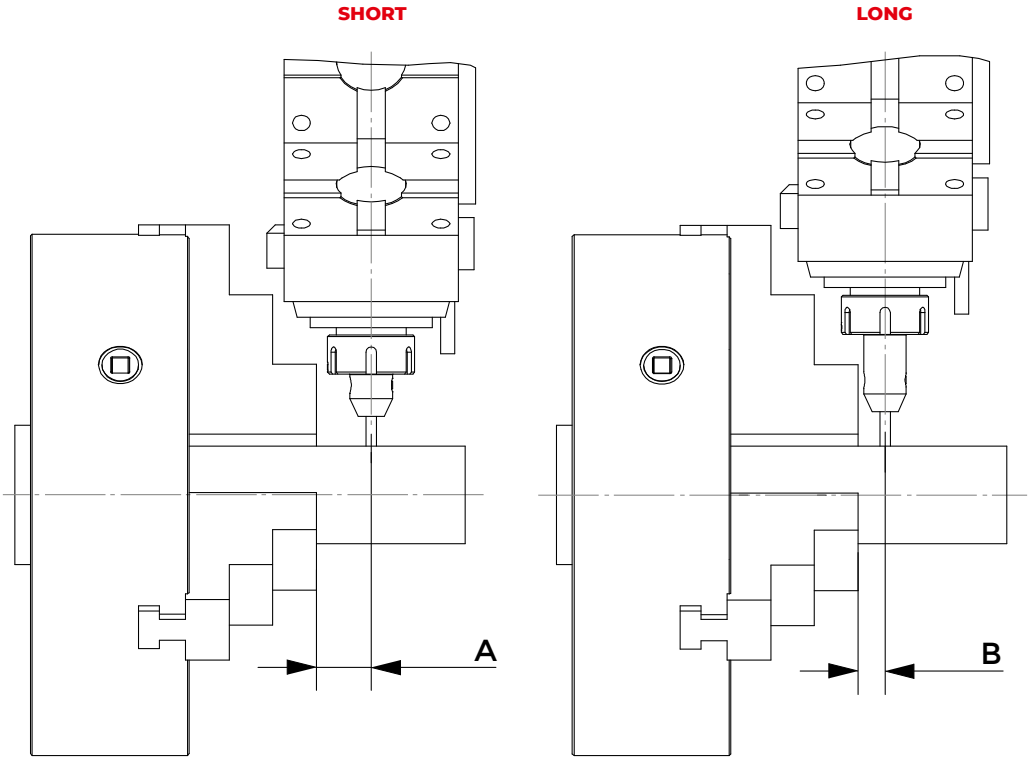


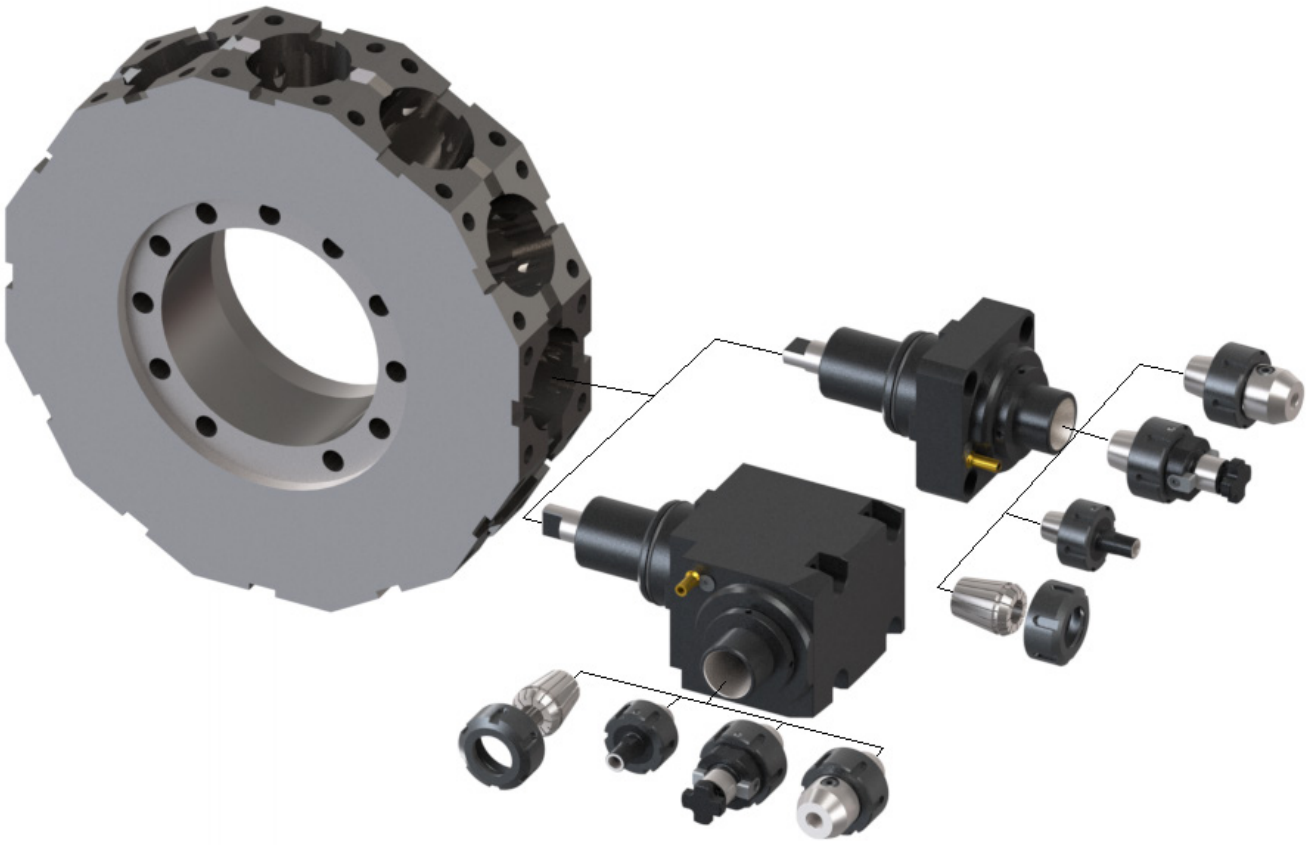
137-00236 C40
137-00311 C50



DRIVEN TOOLS
FAST IN

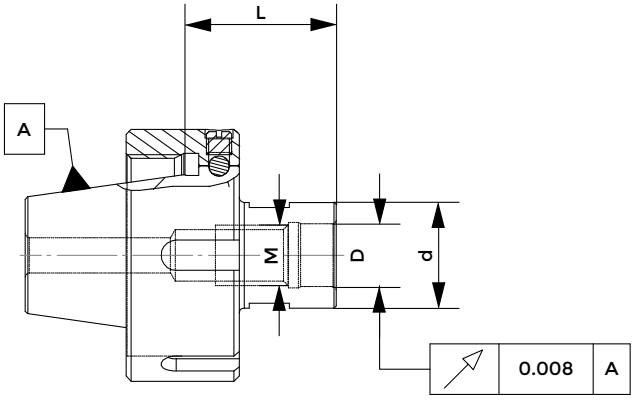
TOOLHOLDERS WITH SHANK
ER25-ER32 - SHORT- LONG





END MILL HOLDERS FOR MILLING CUTTERS WITH THREADED SHANKS



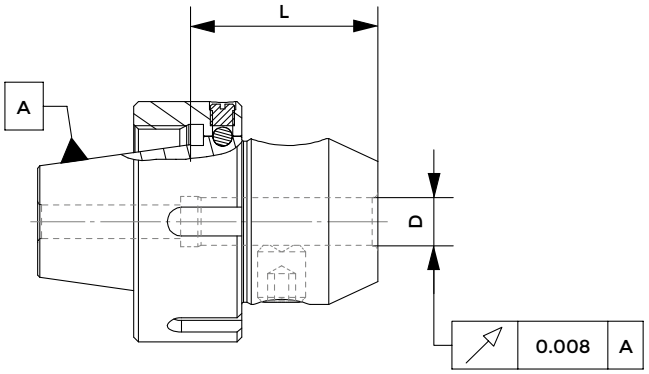


SHORT

COD.	DESCRIPTION	M	D	d	L
217-86705	ER25H35M08	M8	8,5	13	35
217-86707	ER25H30M12	M12	12,5	21	30
217-86708	ER25H25M16	M16	17	29	25
217-86701	ER32H35M08	M8	8,5	13	35
217-86702	ER32H35M10	M10	10,5	18	35
217-86703	ER32H30M12	M12	12,5	21	30
217-86704	ER32H25M16	M16	17	29	25

HOLDERS FOR WELDON TYPE END MILL



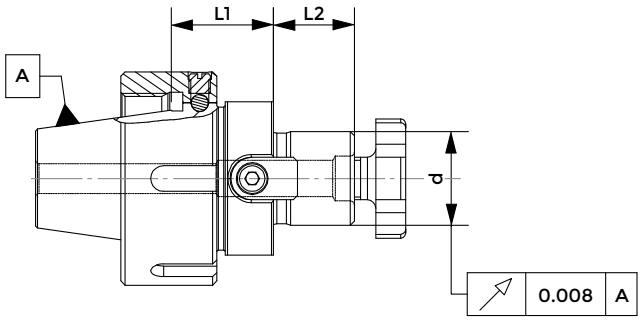


SHORT

COD.	DESCRIPTION	D	L
213-16707	ER25H35WE06	6	35
213-16708	ER25H35WE08	8	35
213-16709	ER25H39WE10	10	39
213-16710	ER25H43WE12	12	43
213-16701	ER32H35WE06	6	35
213-16702	ER32H35WE08	8	35
213-16703	ER32H39WE10	10	39
213-16704	ER32H43WE12	12	43
213-16705	ER32H43WE14	14	43
213-16706	ER32H45WE16	16	45

FACE MILL HOLDERS-TENONS DRIVE



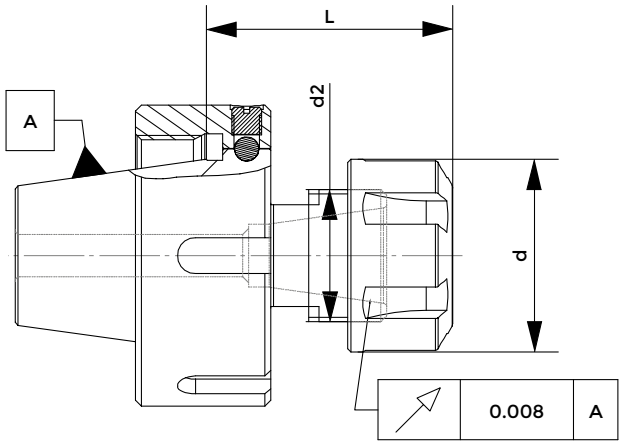


SHORT

COD.	DESCRIPTION	d	L1	L2
216-76704	ER25H22D16	16	22	17
216-76705	ER25H24D22	22	24	19
216-76701	ER32H22D16	16	22	17
216-76702	ER32H24D22	22	24	19
216-76703	ER32H26D27	27	26	21

ER COLLET CHUCK



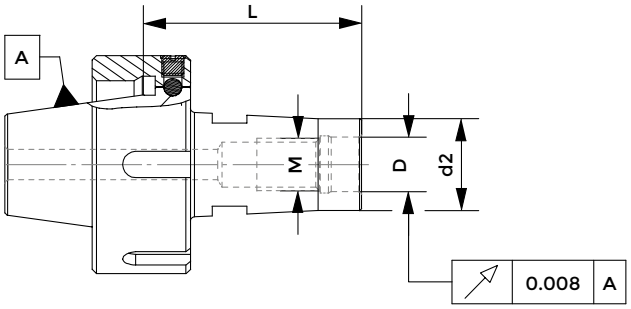


SHORT

COD.	DESCRIPTION	ER	d	d2	L
214-36701	ER25H41ER16	16	32	22	41
214-36702	ER25H43ER20	20	35	25	43
214-36703	ER25H45ER25	25	42	32	45
214-36704	ER32H41ER16	16	32	22	41
214-36705	ER32H43ER20	20	35	25	43
214-36706	ER32H45ER25	25	42	32	45
214-36707	ER32H48ER32	32	50	40	48

END MILL HOLDERS FOR MILLING CUTTERS WITH THREADED SHANKS



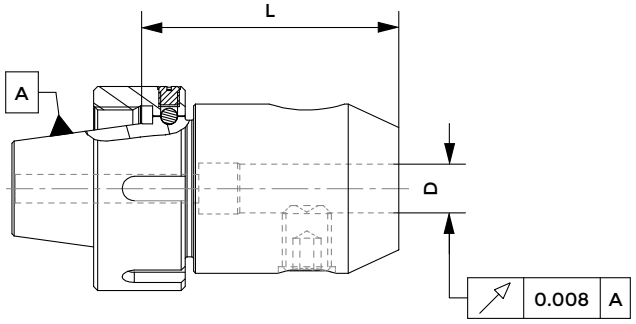


LONG

COD.	DESCRIPTION	M	D	d2	L
217-86713	ER32H55M08	M8	8,5	13	55
217-86714	ER32H55M10	M10	10,5	18	55
217-86715	ER32H50M12	M12	12,5	21	50
217-86716	ER32H45M16	M16	17	29	45

HOLDERS FOR WELDON TYPE END MILL



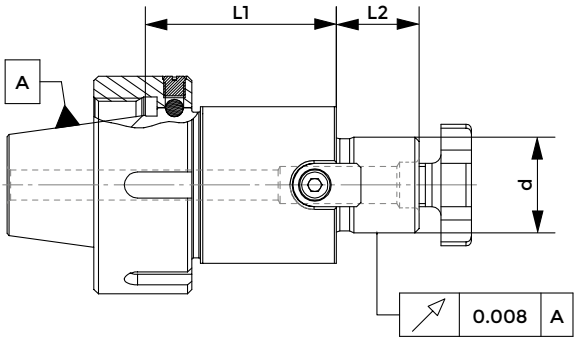


LONG

COD.	DESCRIPTION	D	L
213-16711	ER25H55WE06	6	55
213-16712	ER25H55WE08	8	55
213-16713	ER25H59WE10	10	59
213-16714	ER25H63WE12	12	63
213-16715	ER32H55WE06	6	55
213-16716	ER32H55WE08	8	55
213-16717	ER32H59WE10	10	59
213-16718	ER32H63WE12	12	63
213-16719	ER32H63WE14	14	63
213-16720	ER32H65WE16	16	65

FACE MILL HOLDERS-TENONS DRIVE



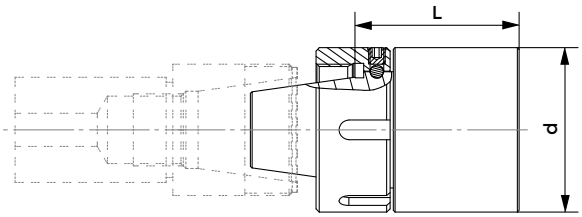


LONG

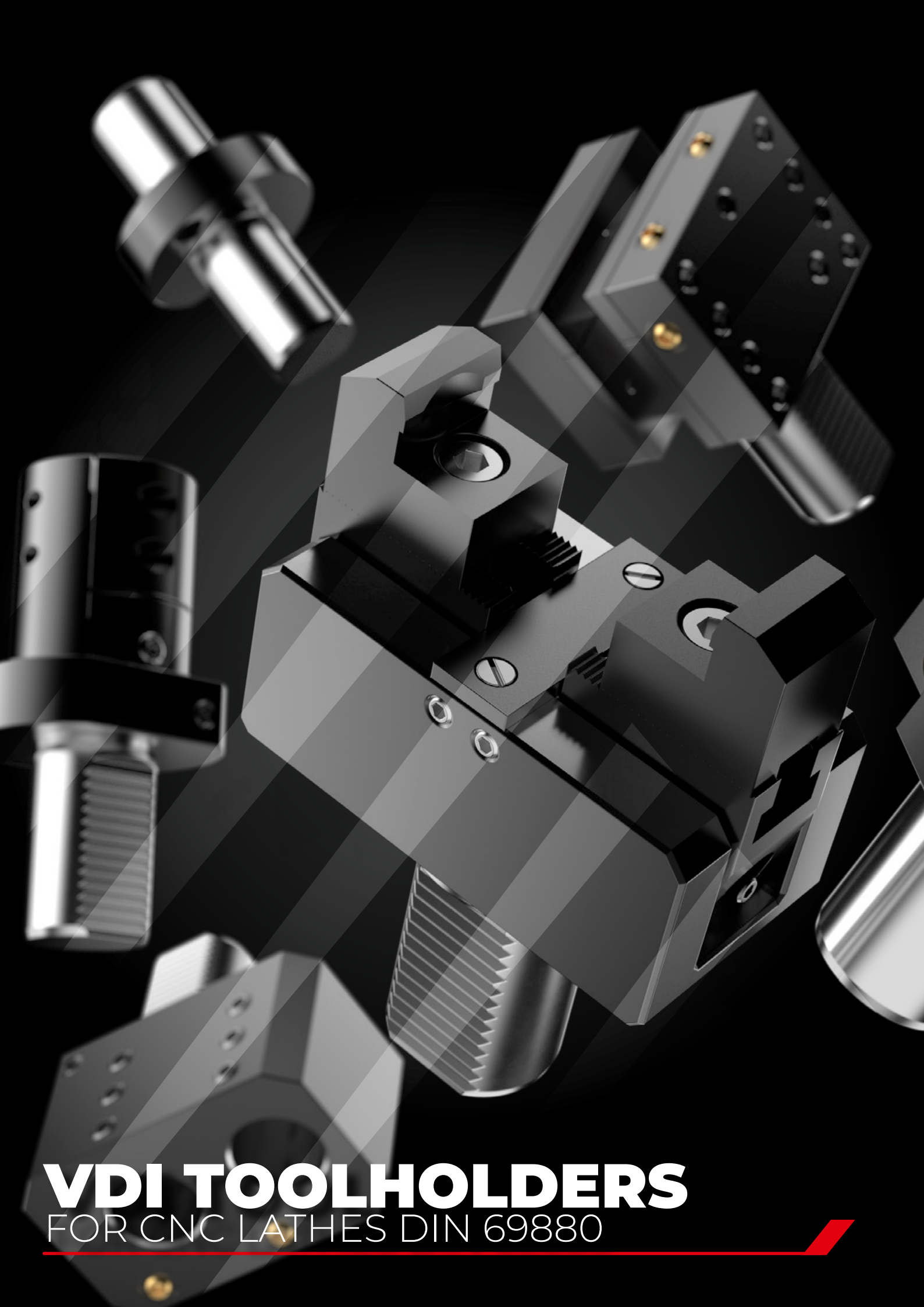
COD.	DESCRIPTION	d	L1	L2
216-76707	ER25H44D22	22	44	19
216-76708	ER32H42D16	16	42	17
216-76709	ER32H44D22	22	44	19

BLANK TOOLHOLDER WITH SOFT SHANK





COD.	DESCRIPTION	d	L
217-46701	ER25H70D40SML	40	70
217-46702	ER32H70D50SML	50	70

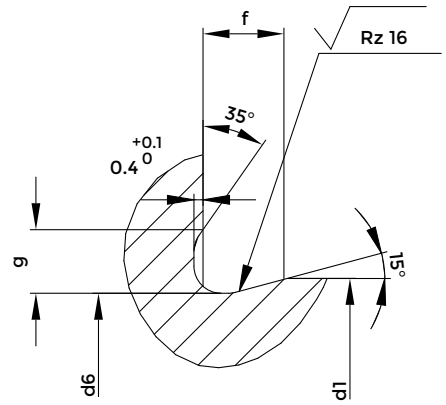


VDI TOOLHOLDERS

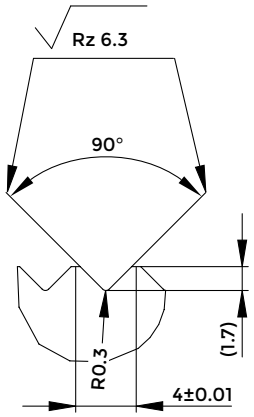
FOR CNC LATHES DIN 69880

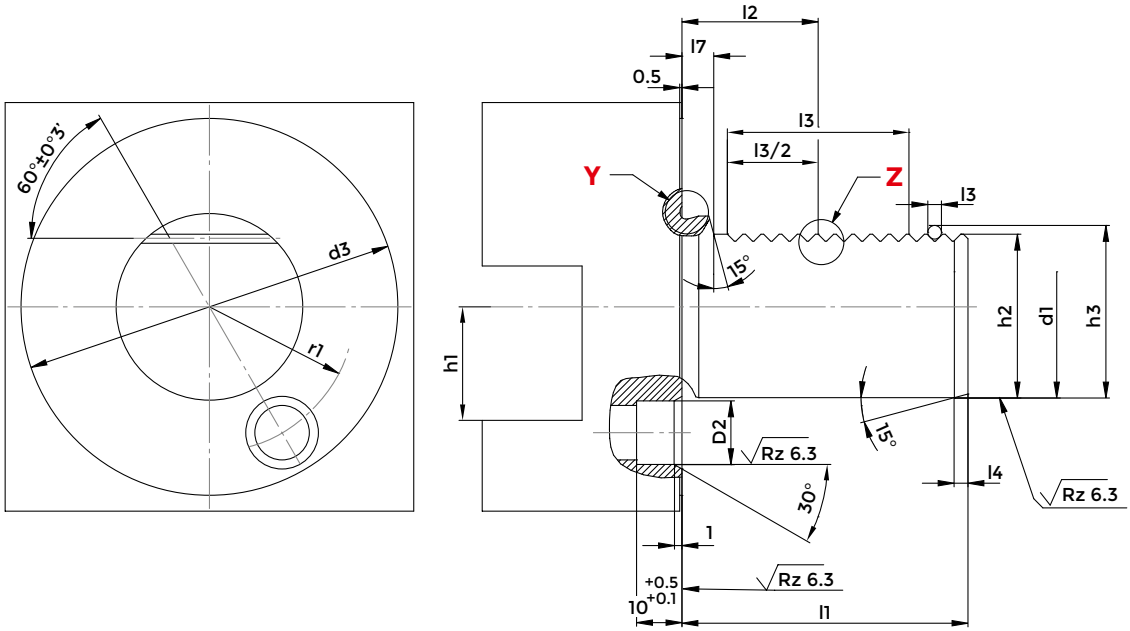
TOOL HOLDER WITH PARALLEL SHANK, TECHNICAL SPECIFICATIONS

Detail Y



Detail Z





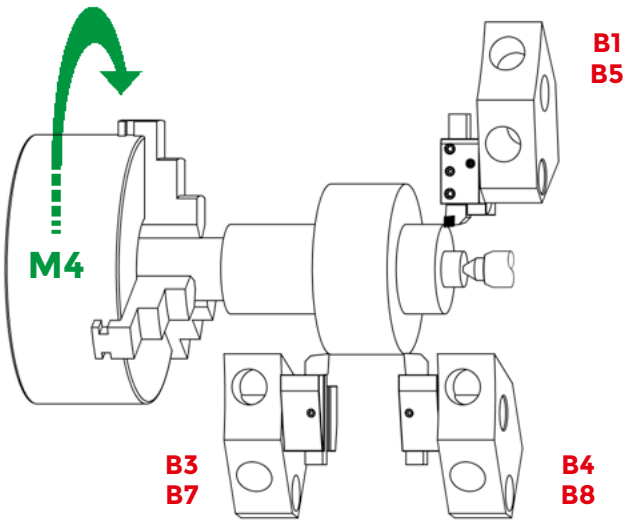
DIN69880

d1 h6	l1 ±0.3	D2	d3	d6 _0.1	f	g	h1 max.	h2 ±0.1	h3 ±0.1	l2 ±0.05	l3 min.	l4 +1	l7	r1 ±0.02	O-RING
16	32	8 H6	40	15.4	2.0	1.7	12	15	16.92	12.7	16	2	3.5	14.5	15x1,5
20	40	10 H6	50	19.1	2.4	2	16	18	19.92	21.7	24	2	7	18	18,77x1,78
25	48	10 H6	58	24.1	2.4	2	16	23.5	25.42	21.7	24	2	7	21	23,52x1,78
30	55	14 H8	68	29.1	2.4	2	20	27	28.92	29.7	40	2	7	25	28,3x1,78
40	63	14 H8	83	38.7	3.7	2.8	25	36	37.92	29.7	40	3	7	32	37,77x2,62
50	78	16 H8	98	48.7	3.7	2.8	32	45	46.92	35.7	48	3	8	37	47,29x2,62
60	94	16 H8	123	58.7	4.3	3.7	32	55	56.92	43.7	56	4	10	48	56,74x3,53
80	124	20 H8	158	78.7	4.3	3.7	40	72	73.92	59.7	80	4	10	65	75,79x3,53

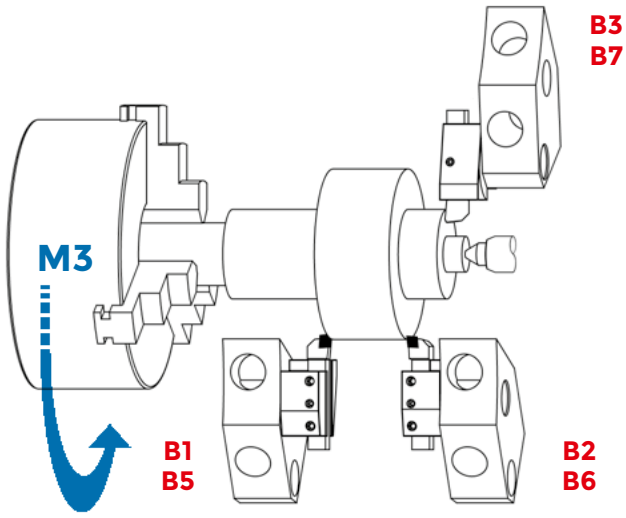
O-ring included in radial VDI

USE OF RADIAL VDI TOOLHOLDERS

WITH M4 SPINDLE ROTATION

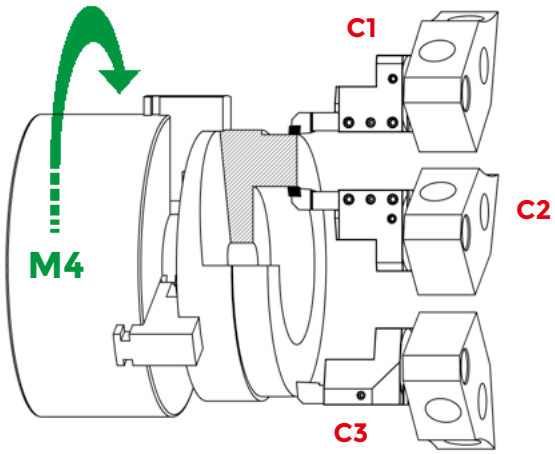


WITH M3 SPINDLE ROTATION

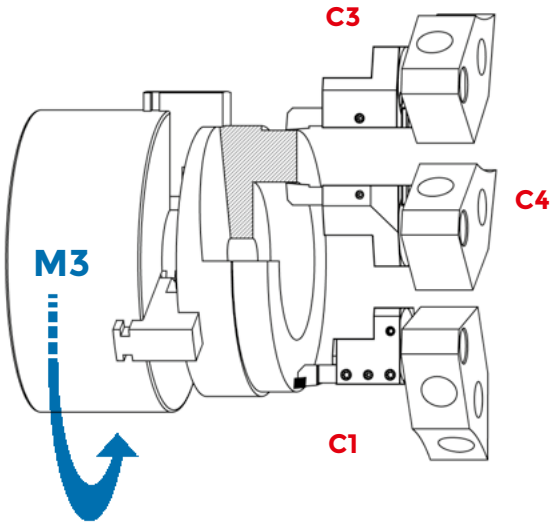


USE OF AXIAL VDI TOOLHOLDERS

WITH M4 SPINDLE ROTATION

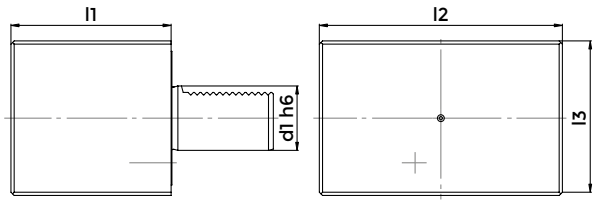


WITH M3 SPINDLE ROTATION



RECTANGULAR BLANK FOR SPECIAL VERSIONS



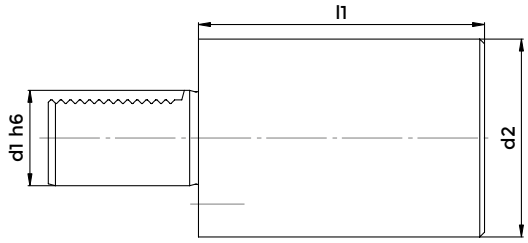


DIN 69880 - A1

COD.	d1	l1	l2	l3
5616	30	85	130	76
5635	40	100	151	96
5636	50	125	160	120
9356	60	160	165	125

ROUND BLANK FOR SPECIAL VERSIONS



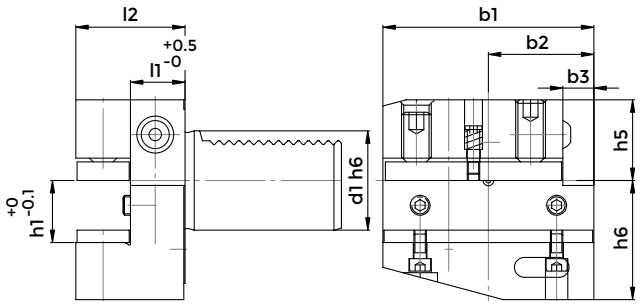


DIN 69880 - A2

COD.	d1	d2	l1
5602	16	40	60
5637	20	50	70
A2-25x200	25	58	200
5615	30	68	100
5638	30	68	240
5639	40	83	120
5640	40	83	320
5641	50	98	135
5642	50	98	400
9357	60	123	150
9358	60	123	480

RADIAL HOLDER, RH, SHORT





DIN 69880 - B1

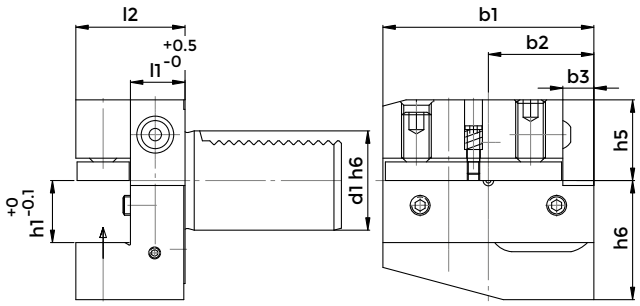
COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2
5605	16	42	23	5	12	20	22	13	24
5643	20	55	30	7	16/12	25	30	16	30
5617	30	70	35	10	20/16	28	38	22	40
5738	30	70	35	10	20/16	28	38	42	60
5649	40	85	42.5	12.5	25/20	32.5	48	22	44
5795	50	100	50	16	32/25	35	60	30	55
9359	60	125	62.5	16	32/25	42.5	62.5	30	60

Spare parts p. 526

RADIAL HOLDER, RH, SHORT



IC VERSION



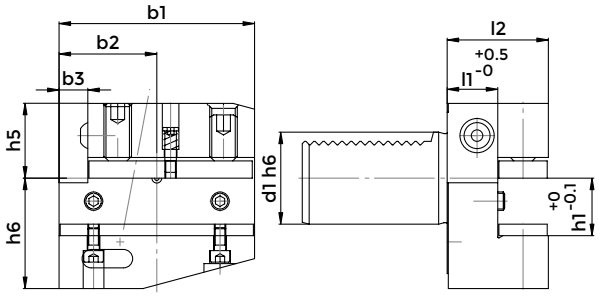
DIN 69880 - B1

COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2
B1-30x20x40-IC	30	70	35	10	20	28	38	22	40
B1-40x25x44-IC	40	85	42.5	12.5	25	32.5	48	22	44

Spare parts p. 526

RADIAL HOLDER, LH, SHORT





DIN 69880 - B2

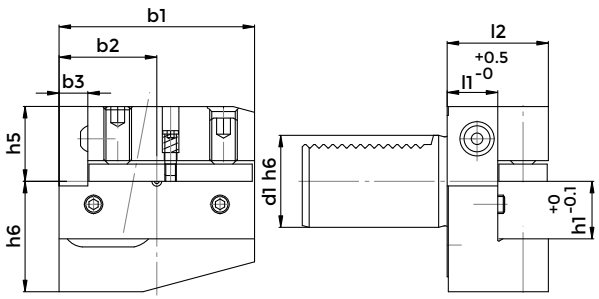
COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2
5650	20	55	30	7	16/12	25	30	16	30
5624	30	70	35	10	20/16	28	38	22	40
5739	30	70	35	10	20/16	28	38	42	60
5656	40	85	42.5	12.5	25/20	32.5	48	22	44
5796	50	100	50	16	32/25	35	60	30	55
9360	60	125	62.5	16	32/25	42.5	62.5	30	60

Spare parts p. 526

RADIAL HOLDER, LH, SHORT



IC VERSION

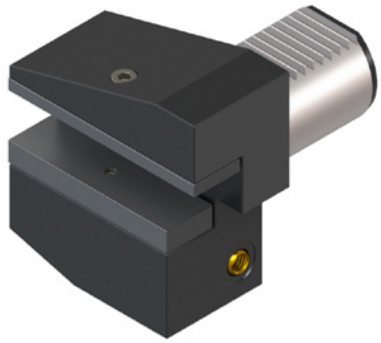


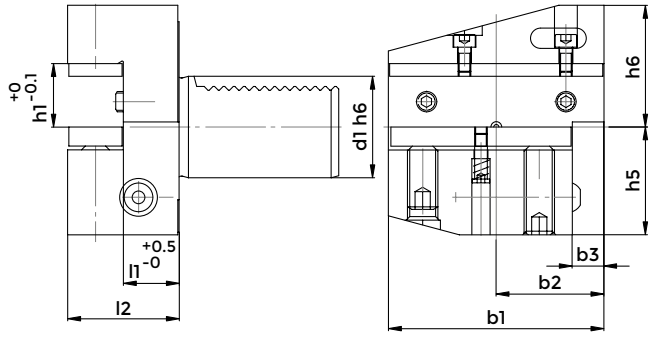
DIN 69880 - B2

COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2
B2-30x20x40-IC	30	70	35	10	20	28	38	22	40
B2-40x25x44-IC	40	85	42.5	12.5	25	32.5	48	22	44

Spare parts p. 526

RADIAL HOLDER, UPSIDE-DOWN, RH, SHORT





DIN 69880 - B3

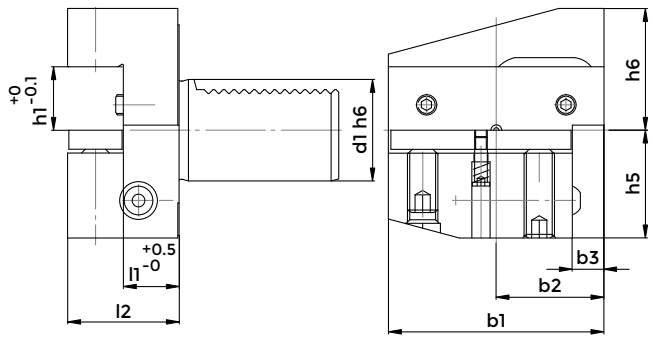
COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2
5654	16	42	23	5	12	20	22	13	24
5657	20	55	30	7	16/12	25	30	16	30
B3-20x16x40	20	55	30	7	16/12	25	30	26	40
5621	30	70	35	10	20/16	35	38	22	40
5663	40	85	42.5	12.5	25/20	42.5	48	22	44
5797	50	100	50	16	32/25	50	60	30	55
9361	60	125	62.5	16	32/25	62.5	62.5	30	60

Spare parts p. 526

RADIAL HOLDER, UPSIDE-DOWN, RH, SHORT



IC VERSION



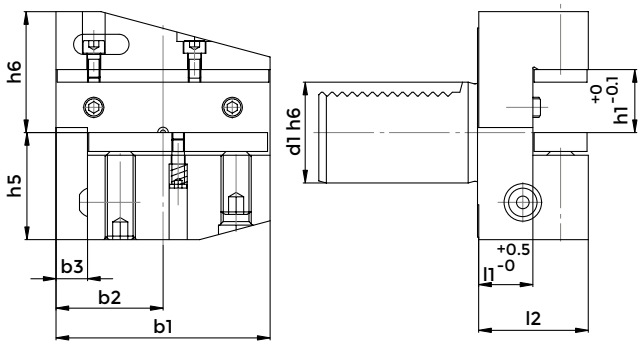
DIN 69880 - B3

COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2
B3-30x20x40-IC	30	70	35	10	20	35	38	22	40
B3-40x25x44-IC	40	85	42.5	12.5	25	42.5	48	22	44

Spare parts p. 526

RADIAL HOLDER, UPSIDE-DOWN, LH, SHORT





DIN 69880 - B4

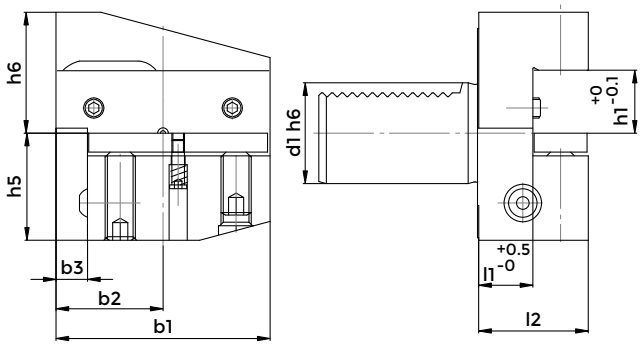
COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2
5627	30	70	35	10	20/16	35	38	22	40
5670	40	85	42.5	12.5	25/20	42.5	48	22	44
5798	50	100	50	16	32/25	50	60	30	55
9362	60	125	62.5	16	32/25	62.5	62.5	30	60

Spare parts p. 526

RADIAL HOLDER, UPSIDE-DOWN, LH, SHORT



IC VERSION



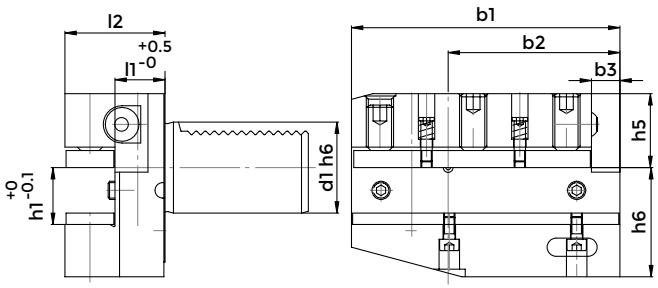
DIN 69880 - B4

COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2
B4-30x20x40-IC	30	70	35	10	20	35	38	22	40
B4-40x25x44-IC	40	85	42.5	12.5	25	42.5	48	22	44

Spare parts p. 526

RADIAL HOLDER, RH, LONG





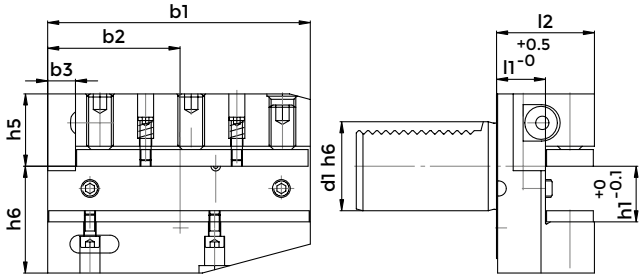
DIN 69880 - B5

COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2
5620	30	100	65	10	20/16	28	38	22	40
5677	40	118	75.5	12.5	25/20	32.5	48	22	44
5802	50	130	80	16	32/25	35	60	30	55
9363	60	145	82.5	16	32/25	42.5	62.5	30	60

Spare parts p. 527

RADIAL HOLDER, LH, LONG





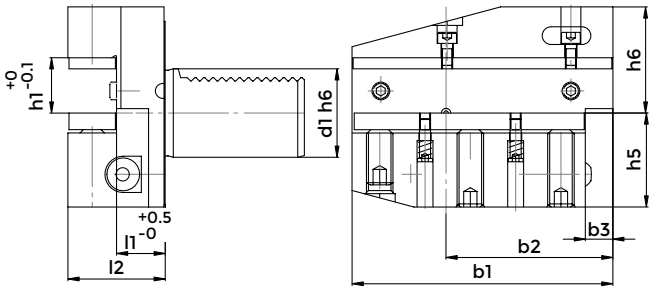
DIN 69880 - B6

COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2
5619	30	100	65	10	20/16	28	38	22	40
5684	40	118	75.5	12.5	25/20	32.5	48	22	44
5791	50	130	80	16	32/25	35	60	30	55
9364	60	145	82.5	16	32/25	42.5	62.5	30	60

Spare parts p. 527

RADIAL HOLDER, UPSIDE-DOWN, RH, LONG





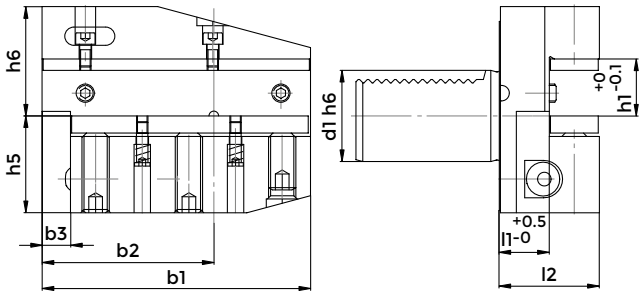
DIN 69880 - B7

COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2
5689	30	100	65	10	20/16	35	38	22	40
5692	40	118	75.5	12.5	25/20	42.5	48	22	44
5803	50	130	80	16	32/25	50	60	30	55

Spare parts p. 527

RADIAL HOLDER, UPSIDE-DOWN, LH, SHORT





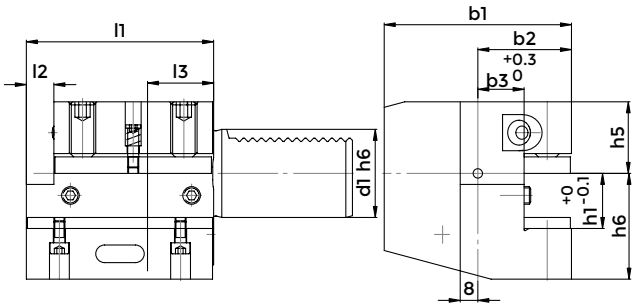
DIN 69880 - B8

COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2
5697	30	100	65	10	20/16	35	38	22	40
5700	40	118	75.5	12.5	25/20	42.5	48	22	44
5804	50	130	80	16	32/25	50	60	30	55

Spare parts p. 527

AXIAL HOLDER, RH





DIN 69880 - C1

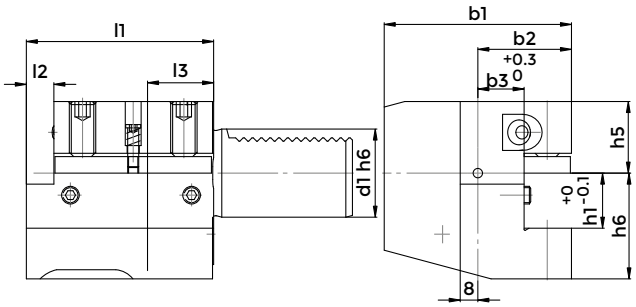
COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
5704	20	65	40	26	16/12	25	30	50	-	30
5703	30	70	35	17	20/16	28	38	70	10	30
5705	40	85	42.5	21	25/20	32.5	48	85	12.5	30
5806	50	100	50	26	32/25	35	60	100	16	40
9367	60	125	62.5	33	32/25	42.5	62.5	125	16	40

Spare parts p. 528

AXIAL HOLDER, RH



IC VERSION



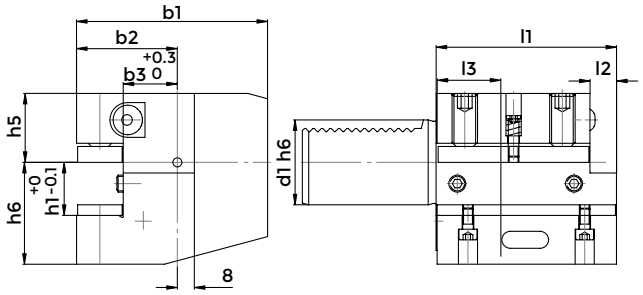
DIN 69880 - C1

COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
C1-30x20x70-IC	30	70	35	17	20	28	38	70	10	30
C1-40x25x85-IC	40	85	42.5	21	25	32.5	48	85	12.5	30

Spare parts p. 528

AXIAL HOLDER, LH





DIN 69880 - C2

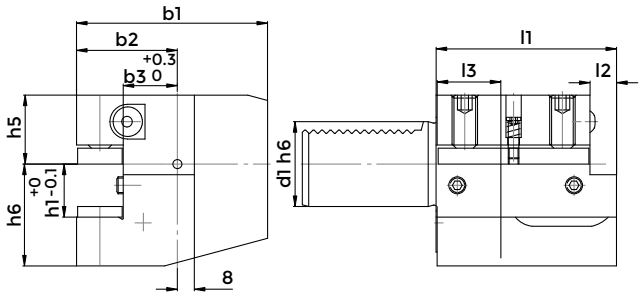
COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
5722	20	65	40	26	16/12	25	30	50	-	30
5724	30	76	41	23	20/16	28	38	70	10	30
5727	40	90	47.5	25.5	25/20	32.5	48	85	12.5	30
5807	50	105	55	30.5	32/25	35	60	100	16	40
9368	60	125	62.5	33	32/25	42.5	62.5	125	16	40

Spare parts p. 528

AXIAL HOLDER, LH



IC VERSION



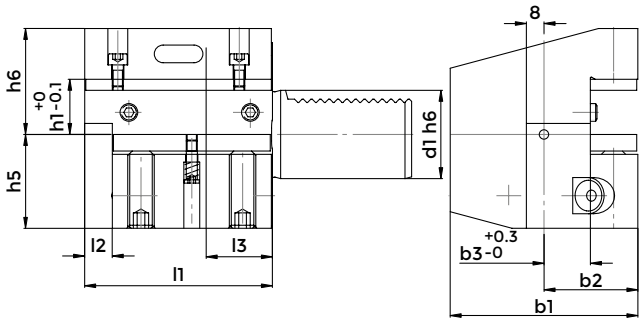
DIN 69880 - C2

COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
C2-30x20x70-IC	30	76	41	23	20	28	38	70	10	30
C2-40x25x85-IC	40	90	47.5	25.5	25	32.5	48	85	12.5	30

Spare parts p. 528

AXIAL HOLDER, UPSIDE-DOWN, RH





DIN 69880 - C3

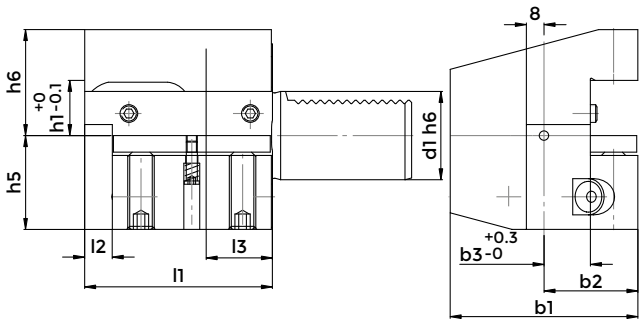
COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
5740	30	70	35	17	20/16	35	38	70	10	30
5742	40	85	42.5	21	25/20	42.5	48	85	12.5	30
5808	50	100	50	26	32/25	50	60	100	16	40
C3-60x32x125	60	125	62.5	33	32/25	62.5	62.5	125	16	40

Spare parts p. 528

AXIAL HOLDER, UPSIDE-DOWN, RH



IC VERSION



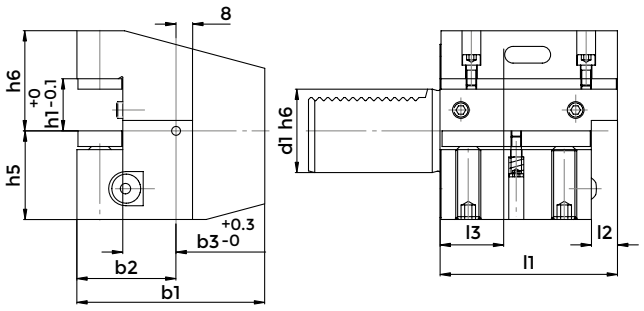
DIN 69880 - C3

COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
C3-30x20x70-IC	30	70	35	17	20	35	38	70	10	30
C3-40x25x85-IC	40	85	42.5	21	25	42.5	48	85	12.5	30

Spare parts p. 528

AXIAL HOLDER, UPSIDE-DOWN LH





DIN 69880 - C4

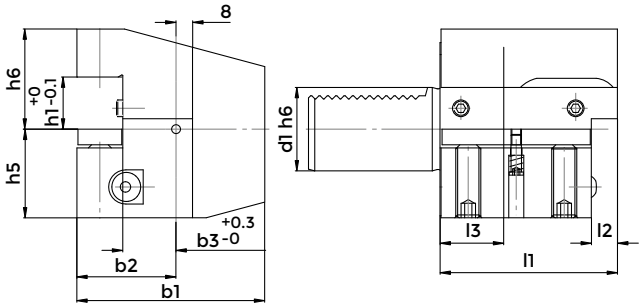
COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
5618	30	76	41	23	20/16	35	38	70	10	30
5746	40	90	47.5	25.5	25/20	42.5	48	85	12.5	30
5809	50	105	55	30.5	32/25	50	60	100	16	40

Spare parts p. 528

AXIAL HOLDER, UPSIDE-DOWN LH



IC VERSION



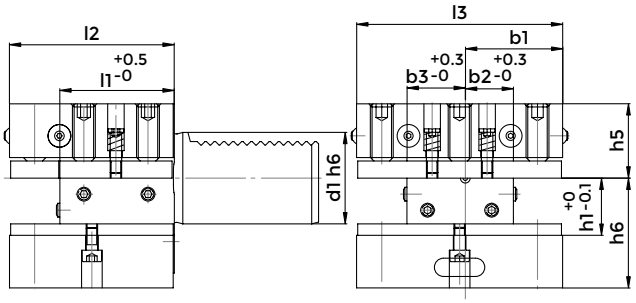
DIN 69880 - C4

COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
C4-30x20x70-IC	30	76	41	23	20	35	38	70	10	30
C4-40x25x85-IC	40	90	47.5	25.5	25	42.5	48	85	12.5	30

Spare parts p. 528

TOOLHOLDER WITH MULTIPLE SEATS





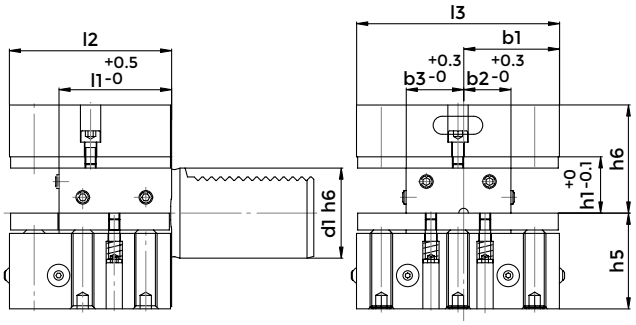
DIN 69880 - D1

COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
5748	30	35	17	23	20/16	28	38	42	60	76
5750	40	42.5	21	25.5	25/20	32.5	48	50	72	90
5810	50	50	26	30.5	32/25	35	60	60	85	105
9371	60	57.5	33	33	32/25	42.5	62.5	85	110	115

Spare parts p. 529

TOOLHOLDER WITH MULTIPLE SEATS UPSIDE DOWN





DIN 69880 - D2

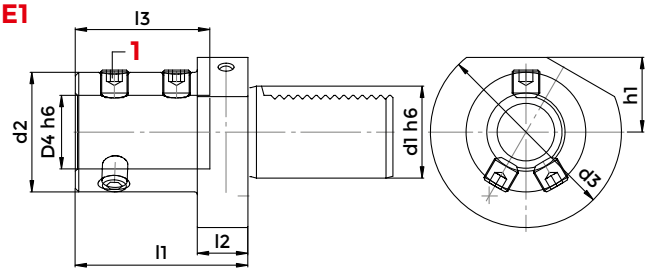
COD.	d1	b1	b2	b3	h1	h5	h6	l1	l2	l3
5752	30	35	17	23	20/16	35	38	42	60	76
5754	40	42.5	21	25.5	25/20	42.5	48	50	72	90
5811	50	50	26	30.5	32/25	50	60	60	85	105

Spare parts p. 529

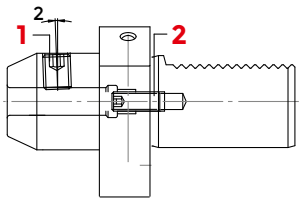
HOLDER FOR INDEXABLE INSERT DRILLS WITH INTERNAL COOLANT SUPPLY



TYPE E1



TYPE E1WN



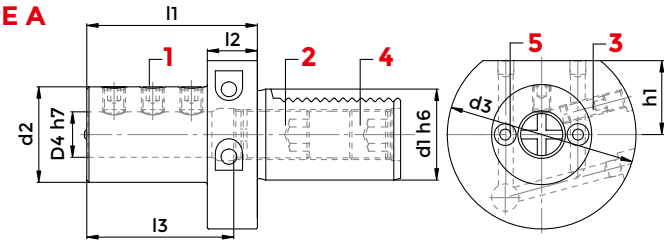
DIN 69880 - E1

									1
COD.	d1	d2	d3	D4	h1	l1	l2	l3	SCREW
									
5728	20	36	50	16	-	67	18	54	0403
5730	20	45	50	25	-	71	18	58	0417
9348	30	28	68	8	28	50	22	36	4971
9349	30	35	68	10	28	54	22	40	4972
9350	30	42	68	12	28	59	22	45	4973
5731	30	36	68	16	28	67	22	54	0403
5732	30	40	68	20	28	67	22	54	0403
5733	30	45	68	25	28	71	22	58	0417
5734	30	52	68	32	28	75	22	61	0417
5735	30	65	68	40	28	90	22	72	0493
9353	40	35	83	10	32.5	54	22	40	4972
9354	40	42	83	12	32.5	58	22	45	4973
5833	40	36	83	16	32.5	67	22	54	0403
5834	40	40	83	20	32.5	67	22	54	0403
5835	40	45	83	25	32.5	75	22	59	0417
5836	40	52	83	32	32.5	75	22	61	0417
5837	40	65	83	40	32.5	90	22	73	0493
9355	40	70	83	50	32.5	100	22	83	0493
5839	50	40	98	20	35	80	30	54	0403
5840	50	45	98	25	35	80	30	59	0417
5841	50	52	98	32	35	80	30	63	0417
5842	50	65	98	40	35	90	30	73	0493
5843	50	75	98	50	35	100	30	83	0493
9376	60	52	123	32	42,5	80	30	63	0417
9377	60	65	123	40	42.5	90	30	73	0493
9378	60	75	123	50	42.5	100	30	83	0493

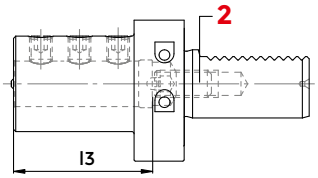
BORING BAR HOLDER



TYPE A



TYPE B



DIN 69880 - E2

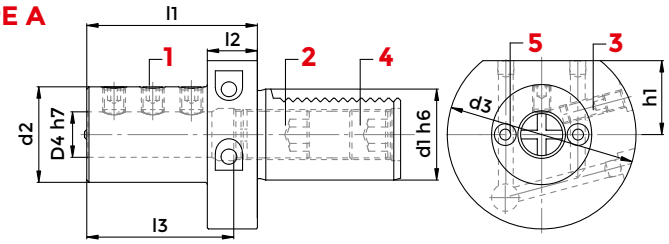
										1	2	3	4	5
COD.	d1	d2	d3	D4	h1	l1	l2	l3	T	SCREW	S7OP SCREW	SCREW	SCREW	COOLANT NOOSE
														
9336	16	32	40	6	18	44	13	34	B	0371	811-102014	811-102011	-	9200
9337	16	32	40	8	18	44	13	34	B	0371	0208	811-102011	-	9200
9338	16	32	40	10	18	44	13	34	B	0371	0208	811-102011	-	9200
9339	16	40	40	12	18	44	13	34	B	0375	811-402065	811-102011	-	9200
9340	16	40	40	16	18	44	13	34	B	0375	811-402065	811-102011	-	9200
5725	20	40	50	6	23	50	18	42	B	0208	811-102015	-	-	833-001100
5762	20	40	50	8	23	50	18	42	B	0208	811-102023	-	-	833-001100
5763	20	40	50	10	23	50	18	42	B	0382	811-102023	-	-	833-001100
5764	20	40	50	12	23	50	18	42	B	0382	811-402066	-	-	833-001100
5765	20	42	50	16	23	50	18	42	B	0375	811-402066	-	-	833-001100
5766	20	49	50	20	23	50	18	42	B	0375	811-402066	-	-	833-001100
5767	20	49	50	25	23	60	18	52	B	811-102027	811-402066	-	-	833-001100
5741	30	55	68	6	28	60	22	43	A	811-102022	811-402030	0382	811-102070	833-001110
5768	30	55	68	8	28	60	22	43	A	811-102022	811-402030	0382	811-102070	9204
5769	30	55	68	10	28	60	22	43	A	811-102022	811-402030	0382	811-102070	833-001110
5631	30	55	68	12	28	60	22	43	A	0183	811-402030	0382	811-102070	833-001110
5632	30	55	68	16	28	60	22	55	A	0183	811-402071	0382	811-402072	833-001110
5633	30	55	68	20	28	60	22	54	B	0382	811-402028	0382	-	833-001110
5622	30	55	68	25	28	60	22	54	B	0382	811-402028	0382	-	833-001110
5629	30	67	68	32	28	75	22	61	B	0382	811-402029	0382	-	833-001110
5628	30	67	68	40	28	75	22	66	B	0382	811-402029	811-102019	-	833-001100
5747	40	55	83	6	32.5	75	22	43	A	811-102022	811-402030	0382	811-102070	833-001110
5749	40	55	83	8	32.5	75	22	43	A	0183	811-402030	0382	811-102070	833-001110
5751	40	55	83	10	32.5	75	22	43	A	0183	811-402030	0382	811-102070	833-001110
5770	40	55	83	12	32.5	75	22	58	A	0183	811-402030	0382	811-102070	833-001110
5771	40	55	83	16	32.5	75	22	61	A	0186	811-402071	0382	811-402072	833-001110
5772	40	55	83	20	32.5	75	22	61	A	0377	811-402064	0382	811-402073	833-001110

follows >>

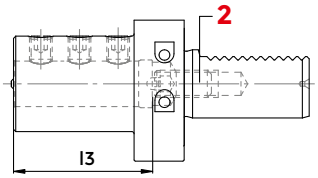
BORING BAR HOLDER



TYPE A



TYPE B



DIN 69880 - E2

										1	2	3	4	5
COD.	d1	d2	d3	D4	h1	l1	l2	l3	T	SCREW	STOP SCREW	SCREW	SCREW	COOLANT NOOSE
														
5773	40	55	83	25	32.5	75	22	61	B	0186	811-402028	0382	-	833-001110
E2-40x30	40	82	83	30	32.5	75	22	61	B	0377	811-402029	0382	-	833-001110
5774	40	82	83	32	32.5	75	22	61	B	0186	811-402029	0382	-	833-001110
5775	40	82	83	40	32.5	90	22	76	B	0377	811-402029	0382	-	833-001110
5785	40	98	98	50	35	100	-	86	B	0260	811-402028	0382	-	833-001110
5805	50	68	98	12	35	90	30	71	A	811-102031	811-402030	0382	811-102070	833-001110
5812	50	68	98	16	35	90	30	76	A	811-102039	811-402071	0382	811-402072	833-001110
5813	50	68	98	20	35	90	30	76	A	811-102045	811-402064	0382	811-402073	833-001110
5814	50	68	98	25	35	90	30	76	A	811-102045	811-402074	0382	811-402075	833-001110
5815	50	69	98	32	35	90	30	76	B	811-102044	811-402028	0382	-	833-001110
5816	50	98	98	40	35	90	-	76	B	811-102043	811-402028	0382	-	833-001110
5817	50	98	98	50	35	100	-	86	B	0260	811-402028	0382	-	833-001110
E2-60x16	60	68	123	16	42.5	90	30	76	A	811-102039	811-402071	0183	811-402072	833-001110
9380	60	68	123	20	42.5	90	30	76	A	811-102045	811-402064	0183	811-402073	833-001110
9381	60	68	123	25	42.5	90	30	76	A	811-102045	811-402074	0183	811-402075	833-001110
9382	60	68	123	32	42.5	90	30	76	A	811-102044	811-402076	0183	811-402077	833-001110
9383	60	98	123	40	42.5	90	30	76	B	811-102044	811-402029	0183	-	833-001110
9384	60	98	123	50	42.5	100	30	86	B	811-102043	811-402029	0183	-	833-001110

THERE ARE TWO KINDS OF TOOLHOLDERS:

a) The VDI- shank is completely drilled. The tool can be positioned through the shank without having to cut it, in case it is too long for machining.

b) The VDI- shank is not drilled and has only one adjusting screw at the end of the hole where the tool is placed.

ACCESSORIES

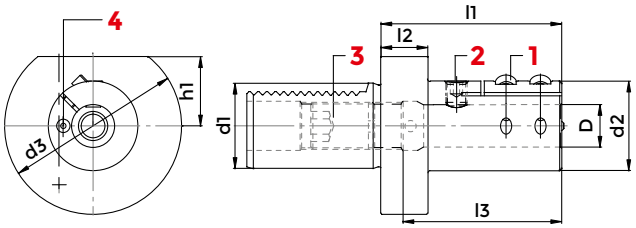


p. 671

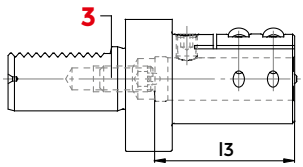
BORING BAR HOLDER



TYPE A



TYPE B



DIN 69880 - E2-TAG

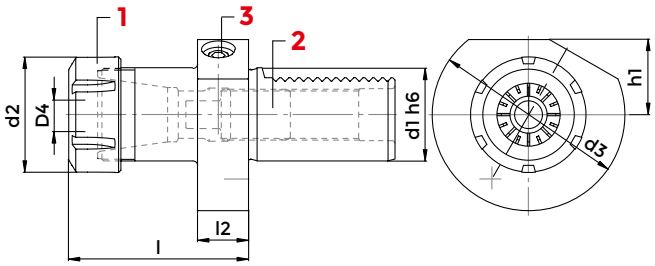
										1	2	3	4
COD.	d1	d2	d3	D	h1	l1	l2	l3	T	SCREW	SCREW	STOP SCREW	COOLANT NOOSE
													
E2-30x06-TAG	30	32	68	6	28	75	22	65	A	0206	0371	811-402030	9200
7952	30	34	68	8	28	75	22	65	A	0206	0371	811-402030	9200
7953	30	38	68	10	28	75	22	65	A	0206	0375	811-402030	9200
7954	30	38	68	12	28	75	22	65	A	0206	0375	811-402030	9200
7955	30	42	68	16	28	75	22	70	A	0206	811-102036	811-402071	9201
7956	30	42	68	20	28	75	22	66	B	0206	811-102036	811-402028	9201
7957	30	48	68	25	28	75	22	66	B	0206	811-102036	811-402028	9201
7958	30	56	68	32	28	75	22	65	B	0099	811-102036	811-402028	9202
7961	40	34	83	8	32,5	75	22	65	A	0206	0371	811-402030	9204
7962	40	38	83	10	32,5	75	22	65	A	0206	0375	811-402030	9204
7963	40	38	83	12	32,5	75	22	65	A	0206	0375	811-402030	9204
7964	40	42	83	16	32,5	75	22	68	A	0206	811-102036	811-402064	9201
7965	40	42	83	20	32,5	85	22	80	A	0206	811-102036	811-402064	9201
7966	40	48	83	25	32,5	85	22	76	B	0206	811-102036	811-402028	9201
7967	40	56	83	32	32,5	85	22	76	B	0099	811-102036	811-402028	9202
7968	40	65	83	40	32,5	97	22	90	B	0099	0390	811-402029	9202
7972	50	56	98	32	35	98	30	90	B	0099	811-102036	811-402029	9202
7973	50	65	98	40	35	115	30	105	B	0099	0390	811-402029	9202
7974	50	76	98	50	35	125	30	112	B	7415	0390	811-402029	9202

TECHNICAL FEATURES

1. Particularly suitable for vibration-damping- boring bars with HM-shank.
2. The particular elastic gripping allows a uniform tool-clamping and reduces vibrations when the tool is working with big projections.
3. Fixing occurs by two screws. A third screw, which is perpendicular to the tool, positions the tool itself, resting on the face, on the boring bar shank.
4. For completely cylindrical tools there is a reference mark engraved on the front side of the toolholder. It is useful to position the tool.
5. There are two kinds of toolholders:
   a) The VDI- shank is completely drilled. The tool can be positioned through the shank without having to cut it, in case it is too long for machining.
   b) The VDI- shank is not drilled and has only one adjusting screw at the end of the hole where the tool is placed.

COLLET CHUCK FOR COLLETS ACCORDING TO DIN 6499/B, ER TYPE





DIN 69880 - E4

									1	2	3
COD.	DESCRIPTION	d1	d2	d3	D4	h1	l1	l2	NUT	SCREW	SCREW
											
3076	VDI16.L34.ER16	16	32	40	1-10	18	34	13	4993	811-303001	811-302106
3078	VDI16.L44.ER20	16	35	40	1-13	18	44	13	4994	811-303001	811-302106
3303	VDI20.L59.ER20	20	35	50	1-13	-	59	18	4994	811-303001	811-302106
3304	VDI20.L65.ER25	20	42	50	2-16	-	65	18	4995	811-303001	811-302106
3549	VDI20.L67.ER32	20	50	50	2-20	-	67	18	4996	811-303001	811-302106
3550	VDI30.L48.ER16	30	32	68	1-10	28	48	22	4993	811-303001	811-302106
3551	VDI30.L59.ER20	30	35	68	1-13	28	59	22	4994	811-303014	811-302106
3305	VDI30.L57.ER25	30	42	68	2-16	28	57	22	4995	811-303014	811-302106
3306	VDI30.L78.ER32	30	50	68	2-20	28	78	22	4996	811-303014	811-302106
3307	VDI30.L80.ER40	30	63	68	3-30	28	80	22	4997	811-303014	811-302106
3553	VDI40.L59.ER20	40	35	83	1-13	32.5	59	22	4994	811-303003	811-302106
3554	VDI40.L57.ER25	40	42	83	2-16	32.5	57	22	4995	811-303003	811-302106
3308	VDI40.L78.ER32	40	50	83	2-20	32.5	78	22	4996	811-303004	811-302106
3309	VDI40.L80.ER40	40	63	83	3-30	32.5	80	22	4997	811-303004	811-302106
2320	VDI50.L92.ER32	50	50	98	2-20	35	92	30	4996	811-303004	811-302106
3311	VDI50.L80.ER40	50	63	98	3-30	35	80	30	4997	811-303004	811-302106
9387	VDI60.L78.ER32	60	50	123	2-20	42.5	78	30	4996	811-303004	811-302106
9388	VDI60.L80.ER40	60	63	123	3-30	42.5	80	30	4997	811-303004	811-302106

Coolant supply unit 1/8'' G not included

ACCESSORIES

p. 633

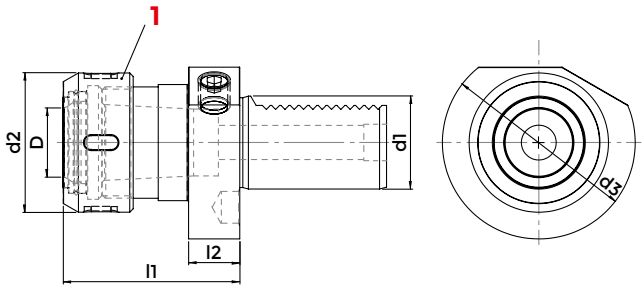


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COLLET CHUCK FOR COLLETS ACCORDING TO DIN 6388, EOC TYPE





DIN 69880 - E3

								1
COD.	DESCRIPTION	d1	d2	d3	D	l1	l2	NUT
								
5645	VDI.L75.EOC25	40	60	83	2-25	75	22	4068
5646	VDI.L90.EOC32	40	72	83	3-32	90	22	4069

Coolant supply unit 1/8" G not included

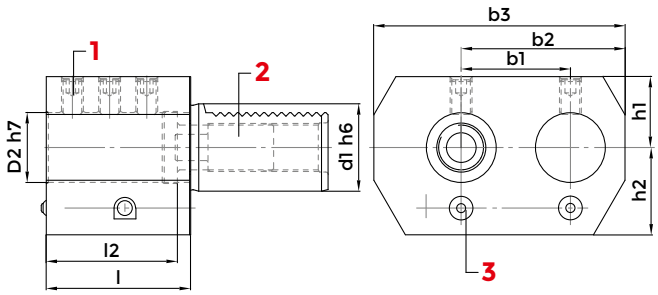
ACCESSORIES



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DOUBLE BORING BAR HOLDER, RIGHT





DIN 69880 - E7

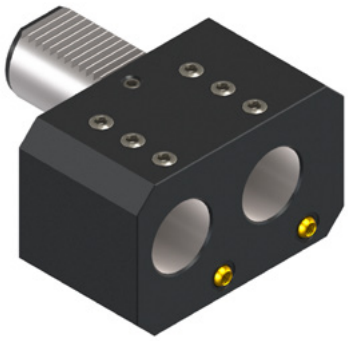
										1	2	3
COD.	d1	D2	h1	h2	L1	L2	b1	b2	B3	SCREW	STOP SCREW	COOLANT NOSE
												
7981	30	25	28	32	56	52	45	65	95	0382	811-303003	833-001100
7982	40	32	32.5	40	66	60	50	75	115	0377	811-303004	833-001100
7984	50	50	35	49	90	80	68	103	152	0260	811-303005	833-001110

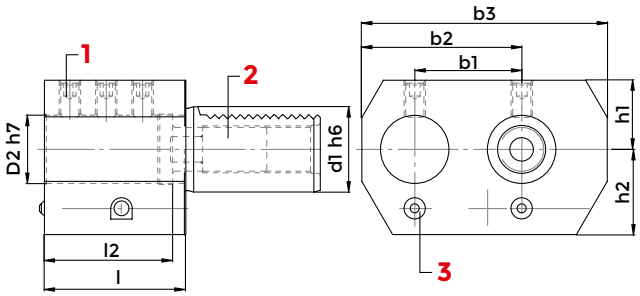
ACCESSORIES

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DOUBLE BORING BAR HOLDER, LEFT





DIN 69880 - E8

										1	2	3
COD.	d1	D2	h1	h2	L1	L2	b1	b2	B3	SCREW	STOP SCREW	COOLANT NOSE
												
7987	30	25	28	32	56	52	45	65	95	0382	811-303003	833-001100
7988	40	32	32.5	40	66	60	50	75	115	0377	811-303004	833-001100
7990	50	50	35	49	90	80	68	103	152	0260	811-303005	833-001110

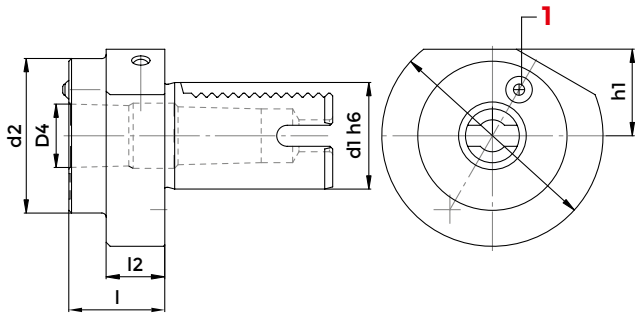
ACCESSORIES

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MORSE TAPER HOLDER





DIN 69880 - F

COD.	d1	d2	d3	MK	D4	h1	l1	l2	1 COOLANT NOSE
5630	30	-	68	1	12.065	28	27	-	833-001100
5625	30	55	68	2	17.780	28	36	27	833-001100
5818	30	55	68	3	23.825	28	66	41	833-001100
5723	40	55	83	1	12.065	32.5	23	22	833-001100
5777	40	55	83	2	17.780	32.5	36	22	833-001100
5778	40	58	83	3	23.825	32.5	36	22	833-001100
5779	40	68	83	4	31.267	32.5	80	22	833-001100
5820	50	58	98	3	23.825	35	45	30	833-001100
5821	50	68	98	4	31.267	35	55	30	833-001100
*F50-MKD5	50	75	98	5	44.399	35	72	30	833-001100

* without VDI shank

ACCESSORIES

p. 672

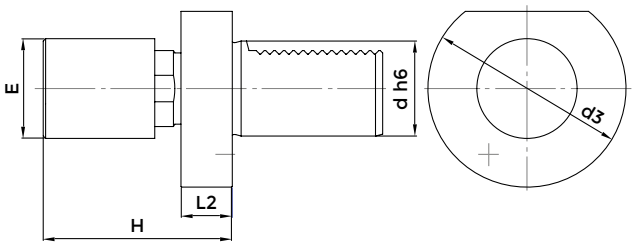


p. 703



ROTARY ADJUSTABLE BAR-STOP



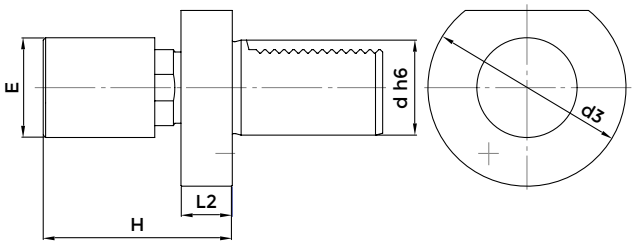


DIN 69880

COD.	DESCRIPTION	d	h	d3	L2	E
7945	BS 1 - 30 x 42	30	68 - 100	68	16	42
7947	BS 1 - 40 x 42	40	74 - 100	83	22	42

DAMPED, ADJUSTABLE, BAR STOP



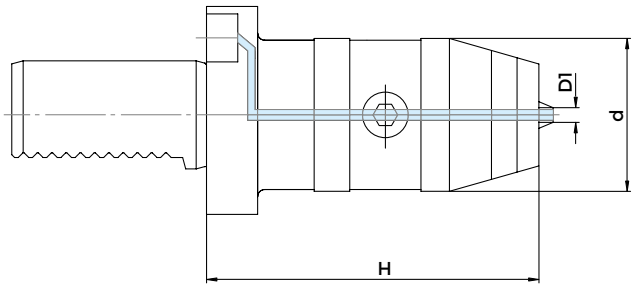


DIN 69880

COD.	DESCRIPTION	d	h	d3	L2	E
5788	BS 2 - 20 x 42	20	82 - 95	50	30	42
5789	BS 2 - 30 x 42	30	68 - 100	68	16	42
3586	BS 2 - 30 x 56	30	68 - 100	68	16	56
5790	BS 2 - 40 x 42	40	74 - 100	83	22	42
3587	BS 2 - 40 x 56	40	74 - 100	83	22	56

ADAPTORS FOR DRILLS WITH INTERNAL COOLANT SUPPLY



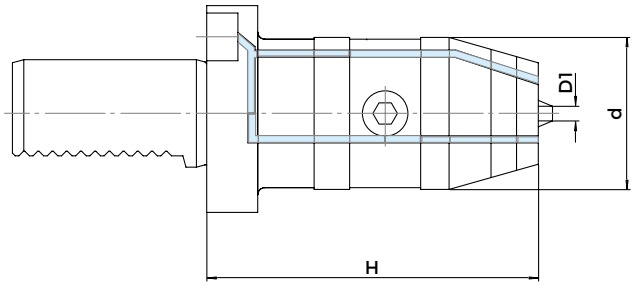


DIN 69880 - KS1

COD.	DESCRIPTION	H	d	CLAMPING CAPACITY
9304	VDI30x55 0,5-13	90	50	0,5-13
9305	VDI30x55 2,5-16	90	50	2,5-16
9306	VDI40x63 0,5-13	90	50	0,5-13
9307	VDI40x63 2,5-16	90	50	2,5-16

ADAPTORS FOR DRILLS WITH LATERAL COOLANT SUPPLY

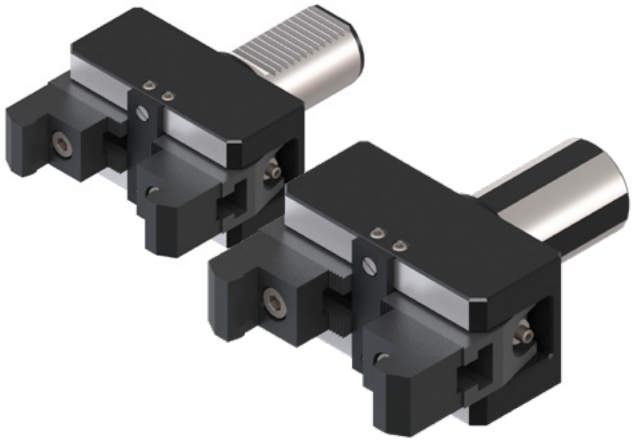




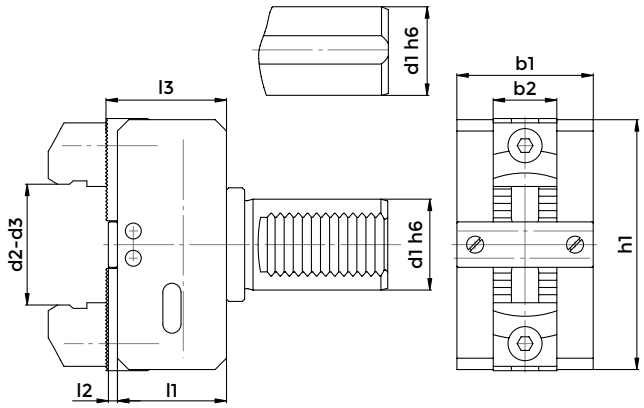
DIN 69880 - KS2

COD.	DESCRIPTION	H	d	CLAMPING CAPACITY
9313	VDI30x55 2,5-16	82	57	2,5-16
9314	VDI40x63 0,5-13	85	57	0,5-13
9315	VDI40x63 2,5-16	85	57	2,5-16

SPRING BAR PULLER



TYPE C

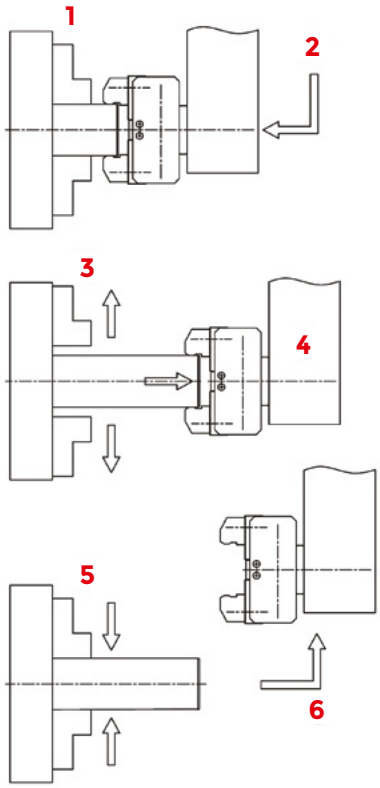


DIN 69880 - HK1

COD.	d1	d2 (short)	d3 (long)	b1	b2	h1	l1	l2	l3
5679	20	6-56	-	50	28	72	46	4	51
5422	25	6-56	54-110	50	28	72	46	4	51
5680	30	6-56	54-110	50	28	72	46	4	51
5423	32	6-56	54-110	50	28	72	46	4	51
5681	40	6-66	54-110	60	28	110	48	4	53
5424	40	6-66	54-110	60	28	110	48	4	53
5425	50	10-75	62-125	65	28	130	67	5	73

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OPERATING MANUAL FOR BAR PULLER



1. The self-centering chuck stops.

2. Set-up the jaws 3-5mm less than the measure of the bar diameter

3. The self-centering chuck opens

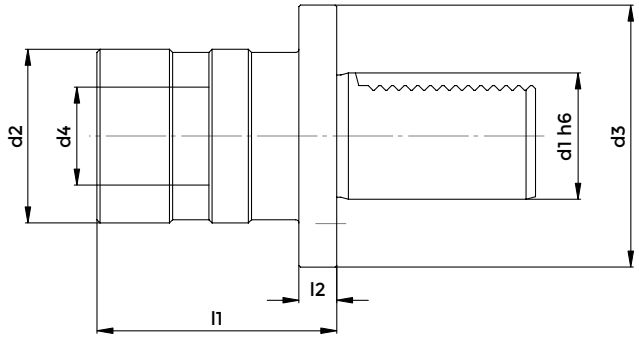
4. The bar puller pulls the bar because the jaws are normally closed by an internal spring.

5. The self-centering chuck closes

6. The bar puller slides out of the previously locked diameter

TENSION AND COMPRESSION TAPPING HEAD



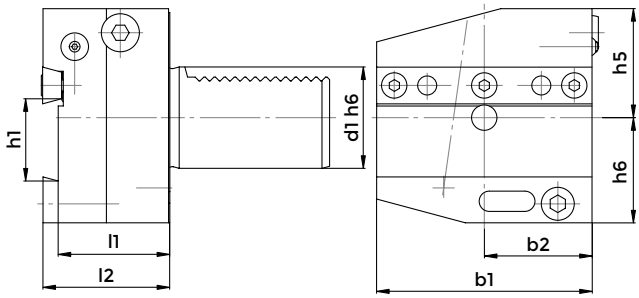


DIN 69880 - M

COD.	d1	TAP RANGE	SIZE	RANGE	d2	d3	D	L	l2
5760	20	M3-M12	1	- 9 + 9	38	50	19	55	12
5780	30	M3-M12	1	- 9 + 9	38	68	19	55	12
5782	40	M3-M12	1	- 9 + 9	38	83	19	55	12
5781	30	M6-M20	2	- 15 + 15	55	68	31	77	12
5783	40	M6-M20	2	- 15 + 15	55	83	31	77	12
5784	40	M14-M33	3	- 24 + 24	79	83	48	110	12
5793	50	M6 - M 20	2	- 15 + 15	55	83	31	77	12

TOOLHOLDER FOR CUT OFF TOOLS ADJUSTABLE IN HEIGHT, RIGHT





DIN 69880 - AR

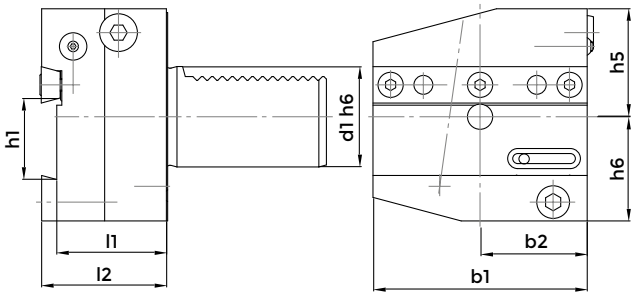
COD.	d1	b1	b2	h1	h5	h6	l1	l2
7918	30	70	35	26	32	39	44	50
7919	40	85	42.5	26	43	41.5	44	50
7920	40	85	42.5	32	43	41.5	44	50
7922	50	100	50	32	43	45	44	50

Spare parts p. 531

TOOLHOLDER FOR CUT OFF TOOLS ADJUSTABLE IN HEIGHT, RIGHT



IC VERSION



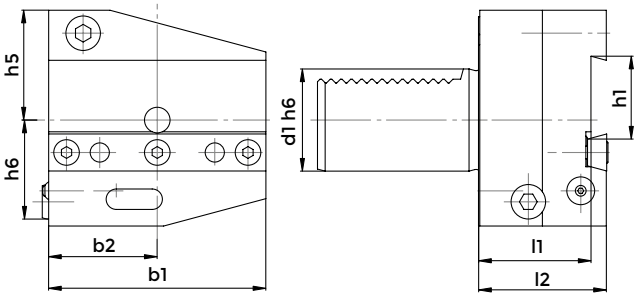
DIN 69880 - AR

COD.	d1	b1	b2	h1	h5	h6	l1	l2
AR3026-IC	30	70	35	26	32	39	44	50
AR4026-IC	40	85	42.5	26	43	41.5	44	50
AR4032-IC	40	85	42.5	32	43	41.5	44	50

Spare parts p. 531

TOOLHOLDER FOR CUT OFF TOOLS ADJUSTABLE IN HEIGHT, UPSIDE-DOWN, LEFT





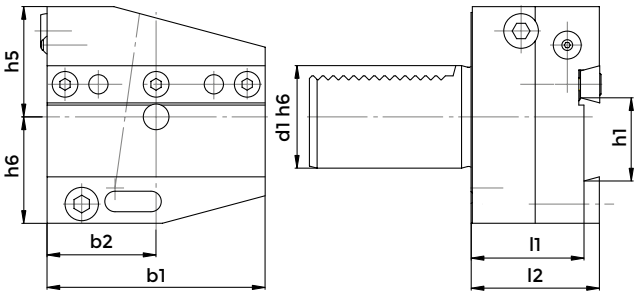
DIN 69880 - ALU

COD.	d1	b1	b2	h1	h5	h6	l1	l2
7939	40	85	42.5	32	43	41.5	44	50

Spare parts p. 531

TOOLHOLDER FOR CUT OFF TOOLS ADJUSTABLE IN HEIGHT, LEFT





DIN 69880 - AL

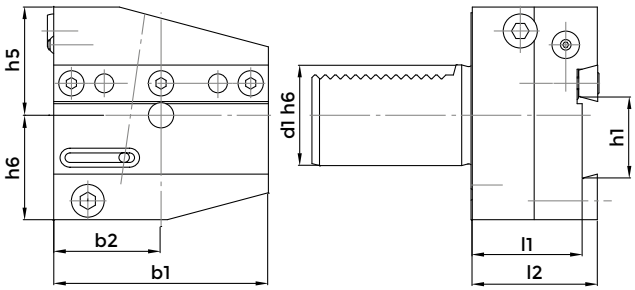
COD.	d1	b1	b2	h1	h5	h6	l1	l2
7925	30	70	35	26	32	39	44	50
7927	40	85	42.5	32	43	41.5	44	50

Spare parts p. 531

TOOLHOLDER FOR CUT OFF TOOLS ADJUSTABLE IN HEIGHT, LEFT



IC VERSION



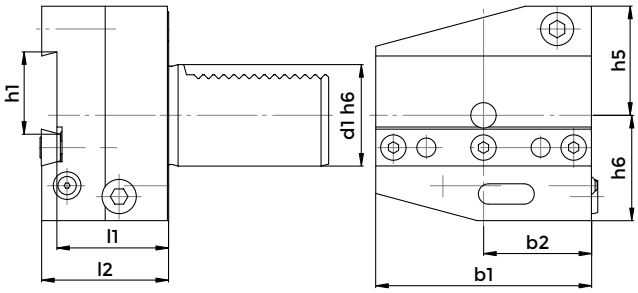
DIN 69880 - AL

COD.	d1	b1	b2	h1	h5	h6	l1	l2
AL4032-IC	40	85	42.5	32	43	41.5	44	50

Spare parts p. 531

TOOLHOLDER FOR CUT OFF TOOLS ADJUSTABLE IN HEIGHT, UPSIDE-DOWN, RIGHT





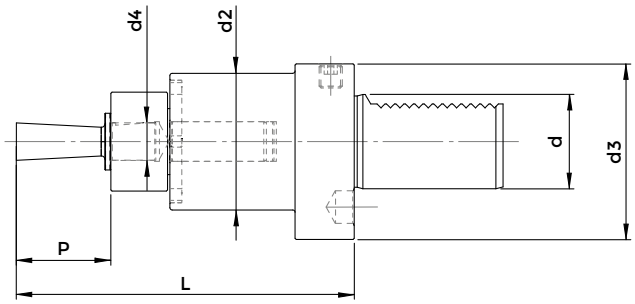
DIN 69880 - ARU

COD.	d1	b1	b2	h1	h5	h6	l1	l2
7931	30	70	35	26	38	35	44	50
7933	40	85	42.5	32	43	41.5	44	50

Spare parts p. 531

BROACH TOOLHOLDER





DIN 69880

COD.	DESCRIPTION	d4	P	d	d2	d3	L
9319	VDI 20 - G12	12	25	20	44	50	57
9320	VDI 30 - G12	12	25	30	58	68	83
9321	VDI 30 - G16	16	40	30	58	68	83
9322	VDI 40 - G12	12	25	40	58	83	83
9323	VDI 40 - G16	16	40	40	58	83	83

Spare parts p. 531

KIT VDI TOOL HOLDERS



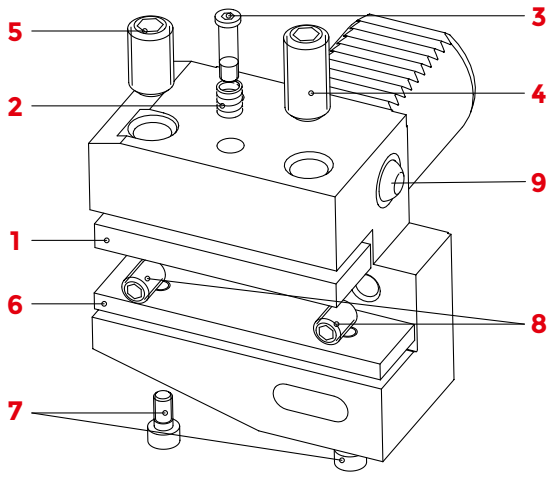
COD.	CONTENUTO DEL KIT
KIT VDI 30DX The same Kit can be supplied with LEFT radial and axial toolders with code n° KIT VDI 30SX	N°4 turning RH short (B1) N°1 turning RH overhead (B3) N°1 axial holder RH (C1) N°1 insert drill holder Ø20 (E1) N°1 boring bar holder Ø25 (E2) N°1 boring bar holder Ø20 (E2) N°1 boring bar holder Ø16 (E2) N°2 collet chucks ER32 (E4) N°1 reduction Ø25-10 N°1 reduction Ø25-12 N°10 collets ER32 (Ø3 4 6 8 10 12 14 16 18 20) N°1 wrench ER32

TOOLHOLDERS KIT



COD.	CONTENUTO DEL KIT
KIT VDI 40DX The same Kit can be supplied with LEFT radial and axial toolders with code n° KIT VDI 40SX	N°4 turning RH short (B1) N°1 turning RH overhead (B3) N°1 axial holder RH (C1) N°1 insert drill holder Ø32 (E1) N°1 boring bar holder Ø16 (E2) N°1 boring bar holder Ø25 (E2) N°1 boring bar holder Ø32 (E2) N°2 collet chucks ER32 (E4) N°1 reduction Ø32-12 N°1 reduction Ø32-20 N°1 reduction MT3 N°10 collets ER32 (Ø3 4 6 8 10 12 14 16 18 20) N°1 wrench ER32

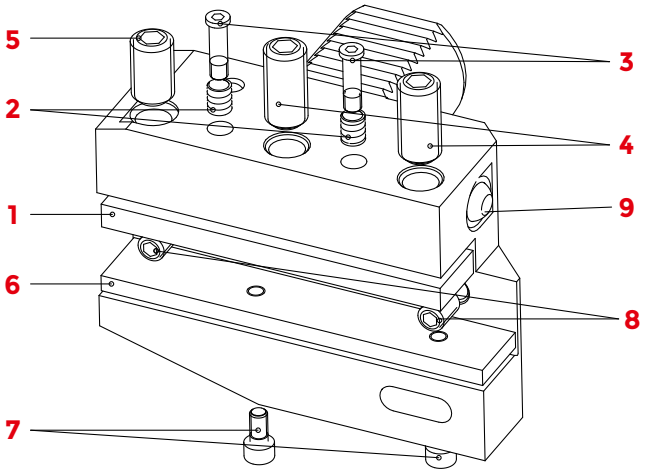
SPARE PARTS



DIN 69880 - B1 - B2 - B3 - B4

	1	2	3	4	5	6	7	8	9
COD.	TOOL CLAMP PLATE	SPRING	SCREW	STOP SCREW	LOCKING SCREW SHORT	SHIM PLATE	SCREW	SCREW	COOLANT NOOSE
									
B1- 16x12x24	832-002084	824-101010	811-302009	811-102020	811-102019	-	-	811-102020	833-001060
B3-16X12X24	832-002084	824-101010	811-302009	811-102020	811-102019	-	-	811-102020	833-001060
B1-20x16x30	832-002003	824-101010	811-302004	811-102030	811-102029	832-003003	811-101016	811-102020	833-001100
B2 20x16x30	832-002003	824-101010	811-302004	811-102030	811-102029	832-003003	811-101016	811-102020	833-001100
B3-20X16X30	832-002003	824-101010	811-302004	811-102030	811-102029	832-003003	811-101016	811-102020	833-001100
B3-20X16X40	832-002003	824-101010	811-302004	811-102030	811-102029	832-003003	811-101016	811-102020	833-001100
B1-30x20x40	832-002012	824-101010	811-302004	811-102044	811-102043	832-003007	811-101016	811-102028	833-001120
B1-30X20X40-IC	832-002012	824-101010	811-302004	811-102044	811-102043	-	-	811-102028	833-001120
B1-30x20x60	832-002012	824-101010	811-302004	811-102044	811-102043	832-003007	811-101016	811-102028	833-001120
B2-30x20x40	832-002012	824-101010	811-302004	811-102044	811-102043	832-003007	811-101016	811-102028	833-001120
B2-30X20X40-IC	832-002012	824-101010	811-302004	811-102044	811-102043	-	-	811-102028	833-001120
B2-30x20x60	832-002012	824-101010	811-302004	811-102044	811-102043	832-003007	811-101016	811-102028	833-001120
B3-30x20x40	832-002012	824-101010	811-302004	811-102045	811-102044	832-003007	811-101016	811-102028	833-001120
B3-30X20X40-IC	832-002012	824-101010	811-302004	811-102045	811-102044	-	-	811-102028	833-001120
B4-30x20x40	832-002012	824-101010	811-302004	811-102045	811-102044	832-003007	811-101016	811-102028	833-001120
B4-30X20X40-IC	832-002012	824-101010	811-302004	811-102045	811-102044	-	-	811-102028	833-001120
B1-40x25x44	832-002019	824-101010	811-302004	811-102045	811-102044	832-003012	811-101016	811-102028	833-001120
B1-40X25X44-IC	832-002019	824-101010	811-302004	811-102045	811-102044	-	-	811-102028	833-001120
B2-40x25x44	832-002019	824-101010	811-302004	811-102045	811-102044	832-003012	811-101016	811-102028	833-001120
B2-40X25X44-IC	832-002019	824-101010	811-302004	811-102045	811-102044	-	-	811-102028	833-001120
B3-40x25x44	832-002019	824-101010	811-302004	811-102047	811-102045	832-003033	811-101016	811-102028	833-001120
B3-40X25X44-IC	832-002019	824-101010	811-302004	811-102047	811-102045	-	-	811-102028	833-001120
B4-40x25x44	832-002019	824-101010	811-302004	811-102047	811-102045	832-003033	811-101016	811-102028	833-001120
B4-40X25X44-IC	832-002019	824-101010	811-302004	811-102047	811-102045	-	-	811-102028	833-001120
B1-50x32x55	832-002025	824-101010	811-302004	811-102045	-	832-003016	811-101017	811-102036	833-001120
B2-50x32x55	832-002025	824-101010	811-302004	811-102045	-	832-003016	811-101017	811-102036	833-001120
B3-50x32x55	832-002025	824-101010	811-302004	811-102083	811-102047	832-003034	811-101017	811-102036	833-001120
B4-50x32x55	832-002025	824-101010	811-302004	811-102083	811-102047	832-003034	811-101017	811-102036	833-001120
B1-60x32x60	832-002028	824-101020	811-302013	811-102054	-	832-003019	811-101017	811-102036	833-001120
B2-60x32x60	832-002028	824-101020	811-302013	811-102054	-	832-003019	811-101017	811-102036	833-001120
B3-60x32x60	832-002028	824-101020	811-302013	811-102055	-	832-003019	811-101017	811-102036	833-001120
B4-60x32x60	832-002028	824-101020	811-302013	811-102055	-	832-003019	811-101017	811-102036	833-001120

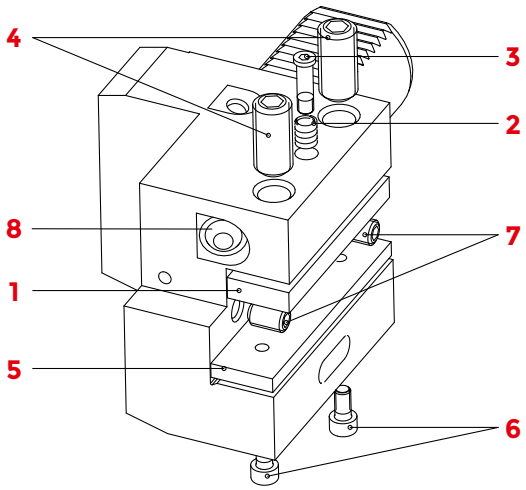
SPARE PARTS



DIN 69880 - B5 - B6 - B7 - B8

	1	2	3		4		5		6	7		8	9
COD.	TOOL CLAMP PLATE	SPRING	Q	SCREW	Q	SCREW	Q	LOCKING SCREW SHORT	SHIM PLATE	SCREW	Q	SCREW	COOLANT NOOSE
													
B5-30x20x40	832-002013	824-101010	2	811-302004	2	811-102044	2	811-102043	832-003009	811-101016	2	811-102028	833-001120
B6-30x20x40	832-002013	824-101010	2	811-302004	2	811-102044	2	811-102043	832-003009	811-101016	2	811-102028	833-001120
B7-30x20x40	832-002013	824-101010	2	811-302004	2	811-102045	2	811-102044	832-003009	811-101016	1	811-102028	833-001120
B8-30x20x40	832-002013	824-101010	2	811-302004	2	811-102045	2	811-102044	832-003009	811-101016	1	811-102028	833-001120
B5-40x25x44	832-002021	824-101010	2	811-302004	2	811-102045	2	811-102044	832-003014	811-101016	2	811-102028	833-001120
B6-40x25x44	832-002021	824-101010	2	811-302004	2	811-102045	2	811-102044	832-003014	811-101016	2	811-102028	833-001120
B7-40x25x44	832-002021	824-101010	2	811-302004	2	811-102047	2	811-102045	832-003014	811-101016	2	811-102028	833-001120
B8-40x25x44	832-002021	824-101010	2	811-302004	2	811-102047	2	811-102045	832-003014	811-101016	2	811-102028	833-001120
B5-50x32x55	832-002026	824-101010	2	811-302004	2	811-102045	3	-	832-003018	811-101017	2	811-102036	833-001120
B6-50x32x55	832-002026	824-101010	2	811-302004	2	811-102045	3	-	832-003018	811-101017	2	811-102036	833-001120
B7-50x32x55	832-002026	824-101010	2	811-302004	2	811-102083	2	811-102047	832-003018	811-101017	2	811-102036	833-001120
B8-50x32x55	832-002026	824-101010	2	811-302004	2	811-102083	2	811-102047	832-003018	811-101017	2	811-102036	833-001120
B5-60x32x60	832-002029	824-101020	2	811-302013	2	811-102054	3	-	832-003020	811-101017	2	811-102036	833-001120
B6-60x32x60	832-002029	824-101020	2	811-302013	2	811-102054	3	-	832-003020	811-101017	2	811-102036	833-001120

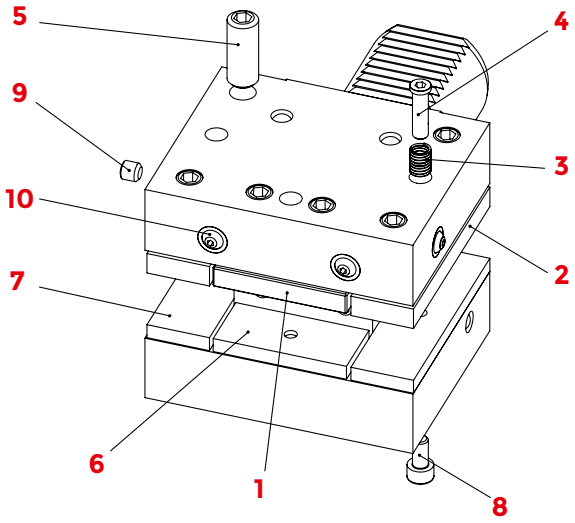
SPARE PARTS



DIN 69880 - C1 - C2 - C3 - C4

	1	2		3		4		5	6		7	8
COD.	TOOL CLAMP PLATE	SPRING	Q	SCREW	Q	SCREW	Q	SHIM PLATE	SCREW	Q	SCREW	COOLANT NOOSE
												
C1-20x16x50	832-002003	824-101010	1	811-302004	1	811-102030	2	832-003002	811-101016	1	811-102020	833-001100
C2-20x16x50	832-002003	824-101010	1	811-302004	1	811-102030	2	832-003002	811-101016	1	811-102020	833-001100
C1-30x20x70	832-002012	824-101010	1	811-302004	1	811-102044	2	832-003007	811-101016	1	811-102028	833-001120
C1-30x20x70-IC	832-002012	824-101010	1	811-302004	1	811-102044	2	-	-	-	811-102028	833-001120
C2-30x20x70	832-002012	824-101010	1	811-302004	1	811-102044	2	832-003007	811-101016	1	811-102028	833-001120
C2-30x20x70-IC	832-002012	824-101010	1	811-302004	1	811-102044	2	-	-	-	811-102028	833-001120
C3-30x20x70	832-002012	824-101010	1	811-302004	1	811-102045	2	832-003007	811-101016	1	811-102028	833-001120
C3-30x20x70-IC	832-002012	824-101010	1	811-302004	1	811-102045	2	-	-	-	811-102028	833-001120
C4-30x20x70	832-002012	824-101010	1	811-302004	1	811-102045	2	832-003007	811-101016	2	811-102028	833-001120
C4-30x20x70-IC	832-002012	824-101010	1	811-302004	1	811-102045	2	-	-	-	811-102028	833-001120
C1-40x25x85	832-002019	824-101010	1	811-302004	1	811-102045	2	832-003012	811-101016	2	811-102028	833-001120
C1-40x25x85-IC	832-002019	824-101010	1	811-302004	1	811-102045	2	-	-	-	811-102028	833-001120
C2-40x25x85	832-002019	824-101010	1	811-302004	1	811-102045	2	832-003012	811-101016	2	811-102028	833-001120
C2-40x25x85-IC	832-002019	824-101010	1	811-302004	1	811-102045	2	-	-	-	811-102028	833-001120
C3-40x25x85	832-002019	824-101010	1	811-302004	1	811-102047	2	832-003012	811-101016	2	811-102028	833-001120
C3-40x25x85-IC	832-002019	824-101010	1	811-302004	1	811-102047	2	-	-	-	811-102028	833-001120
C4-40x25x85	832-002019	824-101010	1	811-302004	1	811-102047	2	832-003012	811-101016	2	811-102028	833-001120
C4-40x25x85-IC	832-002019	824-101010	1	811-302004	1	811-102047	2	-	-	-	811-102028	833-001120
C1-50x32x100	832-002025	824-101010	1	811-302004	1	811-102045	2	832-003016	811-101017	2	811-102036	833-001120
C2-50x32x100	832-002025	824-101010	1	811-302004	1	811-102045	2	832-003016	811-101017	2	811-102036	833-001120
C3-50x32x100	832-002025	824-101010	1	811-302004	1	811-102083	2	832-003016	811-101017	2	811-102036	833-001120
C4-50x32x100	832-002025	824-101010	1	811-302004	1	811-102083	2	832-003016	811-101017	2	811-102036	833-001120
C1-60x32x125	832-002028	824-101020	1	811-302013	1	811-102054	2	832-003019	811-101017	2	811-102036	833-001120
C2-60x32x125	832-002028	824-101020	1	811-302013	1	811-102054	2	832-003019	811-101017	2	811-102036	833-001120
C3-60x32x125	832-002028	824-101020	1	811-302013	1	811-102055	2	832-003019	811-101017	2	811-102036	833-001120
C4-60x32x125	832-002028	824-101020	1	811-302013	1	811-102055	2	832-003019	811-101017	2	811-102036	833-001120

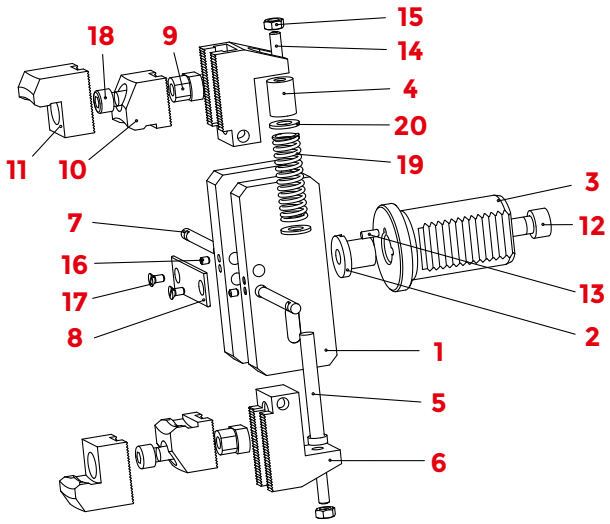
SPARE PARTS



DIN 69880 - D1 - D2

	1	2	3	4	5	6	7	8	9	10
COD.	TOOL CLAMP PLATE (rad)	TOOL CLAMP PLATE (ax)	SPRING	SCREW	LOCKING SCREW	SHIM PLATE (rad)	SHIM PLATE (ax)	SCREW	SCREW	COOLANT NOOSE
										
D1-30x20x60	832-002008	832-002012	824-101010	811-302004	811-102030	832-003423	832-003006	811-101016	811-102017	833-001060
D2-30x20x60	832-002008	832-002012	824-101010	811-302004	811-102031	832-003423	832-003006	811-101016	811-102017	833-001060
D1-40x25x72	832-002227	832-002019	824-101010	811-302004	811-102039	832-003424	832-003010	811-101016	811-102017	833-001100
D2-40x25x72	832-002227	832-002019	824-101010	811-302004	811-102041	832-003424	832-003010	811-101016	811-102017	833-001100
D1-50x32x85	832-002022	832-002025	824-101010	811-302004	811-102039	832-003425	832-003015	811-101017	811-102026	833-001100
D2-50x32x85	832-002022	832-002025	824-101010	811-302004	811-102041	832-003425	832-003015	811-101017	811-102026	833-001100
D1-60x32x110	832-002228	832-002229	824-101020	811-302013	811-102047	832-003426	832-003017	811-101017	811-102026	833-001110

SPARE PARTS

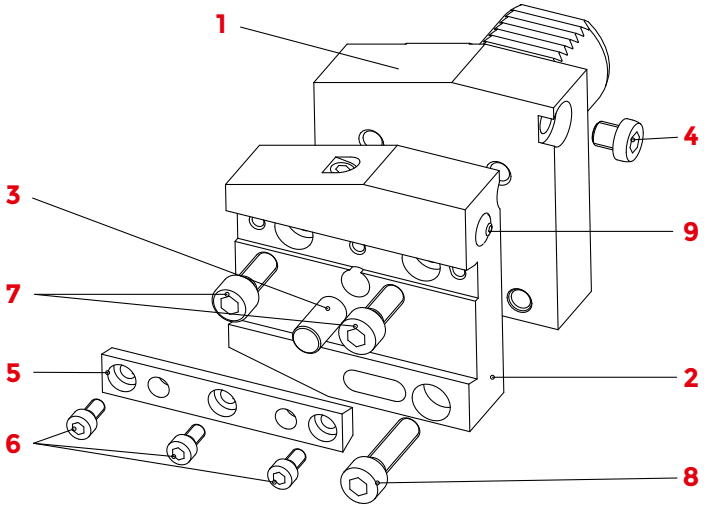


DIN 69880 - HK1

	1	2	3	4	5	6	7	8	9	10
COD.	BODY	THREADED PAWL	SHANK	PAWL	PIN	JAW BASE	PIN	PLATE	DIE SLIDE	SHORT JAW
										
H120K	KH1-1-20	811-302044	KH1-3-20	832-012013	832-008003	832-012003	832-008005	832-006011	811-302023	832-012002
H125KC	KH1-1-30	811-302022	KH1-3-25	832-012013	832-008003	832-012003	832-008005	832-006011	811-302023	832-012002
H130K	KH1-1-30	811-302022	KH1-3-30	832-012013	832-008003	832-012003	832-008005	832-006011	811-302023	832-012002
H132KC	KH1-1-30	811-302022	KH1-3-32	832-012013	832-008003	832-012003	832-008005	832-006011	811-302023	832-012002
H140K	KH1-1-40	811-302022	KH1-3-40	832-012005	832-008004	832-012004	832-008006	832-006012	811-302023	832-012002
H140KC	KH1-1-40	811-302022	KH1-3-40C	832-012005	832-008004	832-012004	832-008006	832-006012	811-302023	832-012002
H150KC	KH1-1-5060	811-302056	KH1-30-50C	832-012009	832-008008	832-012010	832-008009	832-006015	811-302117	832-012011

	11	12	13	14	15	16	17	18	19	20
COD.	LONG JAW	SCREW	PIN	SCREW	NUT	SCREW	SCREW	SCREW	SPRING	WASHER
										
H120K	832-012001	811-401111	815-210090	811-102022	812-101004	811-102002	811-108006	811-101040	824-101050	813-101090
H125KC	832-012001	811-101055	815-210090	811-102022	812-101004	811-102002	811-108006	811-101040	824-101050	813-101090
H130K	832-012001	811-101055	815-210090	811-102022	812-101004	811-102002	811-108006	811-101040	824-101050	813-101090
H132KC	832-012001	811-101055	815-210090	811-102022	812-101004	811-102002	811-108006	811-101040	824-101050	813-101090
H140K	832-012001	811-101055	815-210090	811-102022	812-101004	811-102002	811-108006	811-101040	824-101060	813-101090
H140KC	832-012001	811-101055	815-210090	811-102022	812-101004	811-102002	811-108006	811-101040	824-101060	813-101090
H150KC	832-012012	811-101068	815-210180	811-102030	812-101005	811-102002	811-108006	811-101052	824-101120	813-101100

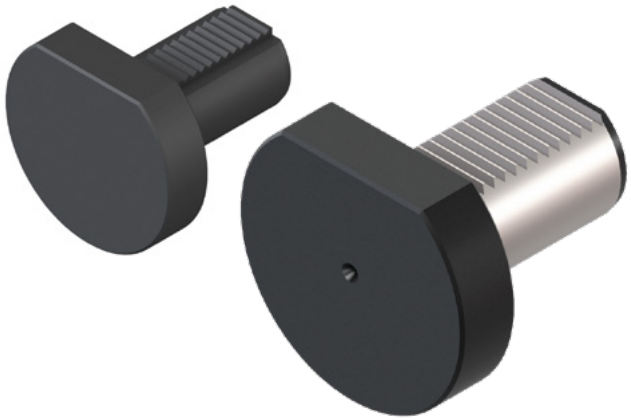
SPARE PARTS

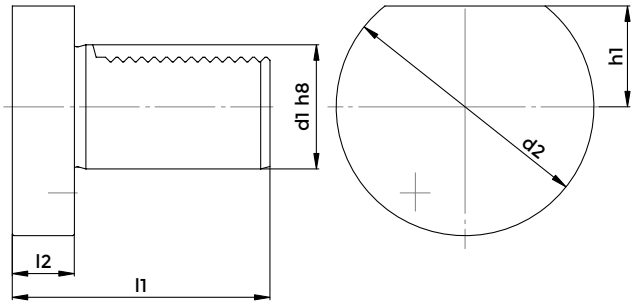


DIN 69880 - AR - AL - ARU - ALU

	1	2	3	4	5	6	7	8	9
COD.	VDI SHANK	TOOLHOLDER PLATE	PIN	STOP SCREW	TOOL CLAMPING	SCREW	SCREW	SCREW	COOLANT NOOSE
									
AR3026	117-130011	117-130101	815-210010	811-303011	832-002037	811-101016	811-101040	811-101042	833-001100
AR3026-IC	117-130011	117-130212	815-210010	811-303011	832-002037	811-101016	811-101040	811-101042	833-001100
AL3026	117-230011	117-230101	815-210010	811-303011	832-002037	811-101016	811-101040	811-101042	833-001100
ARU3026	117-330011	117-330101	815-210010	811-303011	832-002037	811-101016	811-101040	811-101042	833-001100
AR4026	117-140011	117-140101	815-210020	811-303011	832-002038	811-101016	811-101040	811-101042	833-001100
AR4026-IC	117-140011	117-140252	815-210020	811-303011	832-002038	811-101016	811-101040	811-101042	833-001100
AR4032	117-140011	117-140111	815-210020	811-303011	832-002039	811-101016	811-101040	811-101042	833-001100
AR4032-IC	117-140011	117-140262	815-210020	811-303011	832-002039	811-101016	811-101040	811-101042	833-001100
AL4032	117-240011	117-240111	815-210020	811-303011	832-002039	811-101016	811-101040	811-101042	833-001100
ARU4032	117-340011	117-340111	815-210020	811-303011	832-002039	811-101016	811-101040	811-101042	833-001100
ALU4032	117-440011	117-440111	815-210020	811-303011	832-002039	811-101016	811-101040	811-101042	833-001100
AR5032	117-150011	117-150111	815-210020	811-303011	832-002041	811-108018	811-101040	811-101042	833-001120

BLANKING PLUG



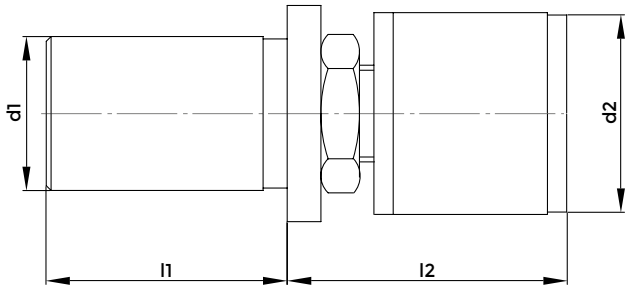


Z2

COD. (PLASTIC)	COD. (STEEL)	d1	d2	h1	l1	l2
7991	7993	16	40	18	45	13
5826	7994	20	50	23	56	16
Z230P	7995	30	68	28	71	16
5828	7996	40	83	32.5	83	20
5829	7997	50	98	35	98	20
7992	7998	60	123	42.5	114	20

CYLINDRICAL BAR STOP





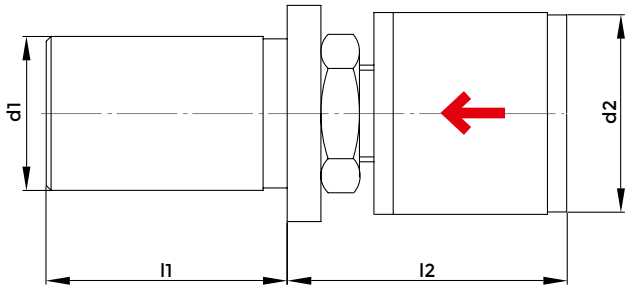
CW

COD.	d1	d2	l1	l2
1520	16,00	20	32	36-62
1719	19,05	20	32	36-62
1720	19,05	26	46	45-75
1447	20,00	34	50	62-100
1449	25,00	34	50	62-100
1459	25,00	42	50	62-100
1460	25,00	56	50	62-100
1732	32,00	42	50	62-100
1773	32,00	56	50	62-100
1736	40,00	42	70	62-100
1797	40,00	56	70	62-100

Unlike the normal rotating bar stop, in the shock-absorbing model, in addition to the radial bearing and the thrust bearing, there is a series of cup springs to better absorb any impacts of the bar.

CYLINDRICAL REVOLVING BAR STOP WITH SHOCK ABSORBER



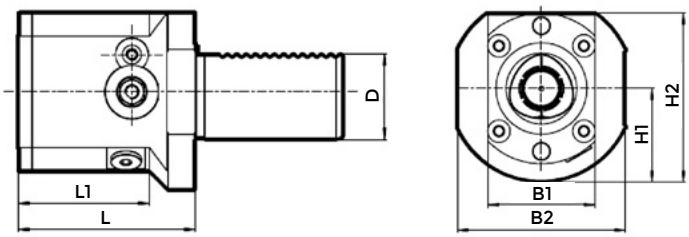


CW

COD.	d1	d2	l1	l2
2629	20,00	34	35	62 - 90
2630	20,00	34	50	62 - 100
2635	25,00	34	50	62 - 100
2421	25,00	42	50	62 - 100
2447	25,00	56	50	62 - 100
1024	25,40	42	50	62 - 100
1537	30,00	42	50	62 - 100
1552	30,00	56	50	62 - 100
1560	31,75	42	50	62 - 100
1025	32,00	42	50	62 - 100
1063	32,00	56	50	62 - 100
1061	40,00	42	70	62 - 100
1073	40,00	56	70	62 - 100

AXIAL TOOLHOLDER WITH POLYGONAL COUPLING





DIN ISO 26623-1

COD.	SHANK	L	l1	D	B1	B2	H1	H2
VDI40L75C40R/L	C40	75	56	40	48	75	41	75
VDI40L85C50R/L	C50	85	72	40	64	75	41	83
VDI40L109C63R/L	C63	109	109	40	84	84	52	104
VDI50L85C50R/L	C50	85	62	50	64	83	49	91
VDI50L105C63R/L	C63	105	105	50	84	84	52	104

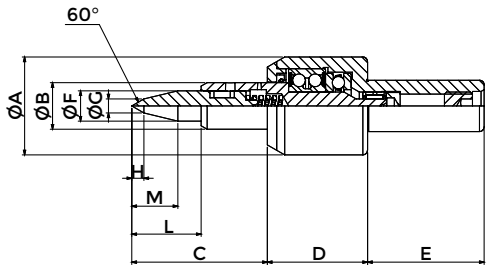


LIVE CENTER

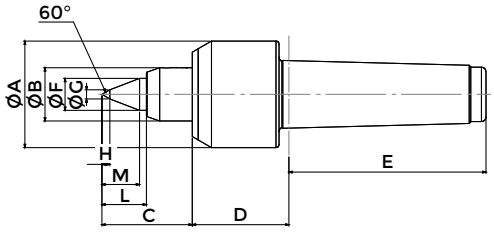
LIVE CENTER WITH DIFFERENTIAL LOAD



VERSION CIL.



VERSION C.M.

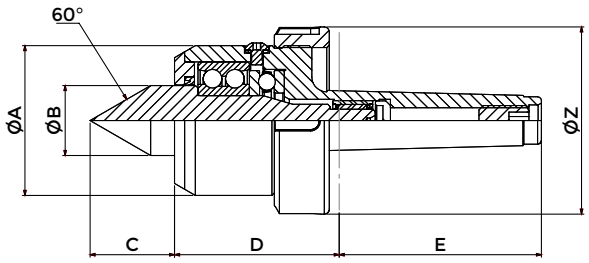


SERIE-K1

CODE N.	SHANK	A	D	E	B	F	G	H	M	L	C	WEIGHT (Kg)	LOAD (N)	MAX ROUNDS (r.p.m.)	MAX THRUST Max (N)	MAX OSCILLATION Max (MM)
450-00200	CM3	42	48	81	20	13	6	5,2	19,7	25,3	53,3	0,6	ASS.1800/RAD.610	6000	600	0,6
450-00209	CM4	60	61,5	102,5	28	16	6	5,2	19,7	26,6	54	1,1	ASS.3040/RAD.1130	4500	900	0,6
450-00218	CM5	70	63,5	129,5	35	21	6	5,2	24,4	28,9	59,6	1,9	ASS.3730/RAD.1500	4000	1200	0,8
450-00201	CIL.22	42	43	50	20	13	6	5,2	19,7	25,3	53,3	0,6	ASS.1800/RAD.610	6000	600	0,6
450-00210	CIL.28	60	55	50	28	16	6	5,2	19,7	26,6	54	1,1	ASS.3040/RAD.1130	4500	900	0,6
450-00219	CIL.32	70	57	50	35	21	6	5,2	24,4	28,9	59,6	1,9	ASS.3730/RAD.1500	4000	1200	0,8

HIGH PRECISION LIVE CENTER WITH RING NUT

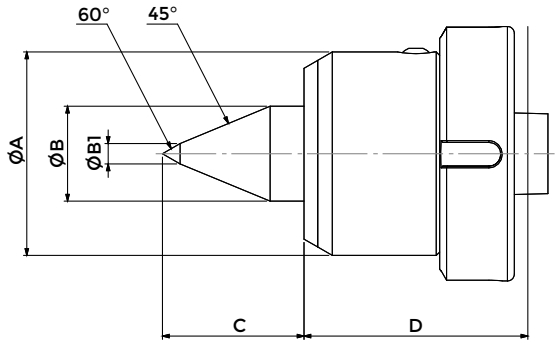




SERIE-MWS60 HP

CODE N.	SHANK	A	B	C	D	E	Z	WEIGHT (Kg)	LOAD (N)	MAX ROUNDS (r.p.m.)
450-00124	CM3	60	28	34	66	81	75	1,1	ASS.3040/RAD.970	4500
450-00143	CM4	70	35	69,5	69,5	102,5	82	1,9	ASS.3730/RAD.1730	4000
450-00166	CM5	90	40	50	76,5	129,5	105	3,9	ASS.5100/RAD.2530	2800
450-00191	CM6	130	65	71	92,5	195	160	9,1	ASS.6680/RAD.4570	2400

double angles live center

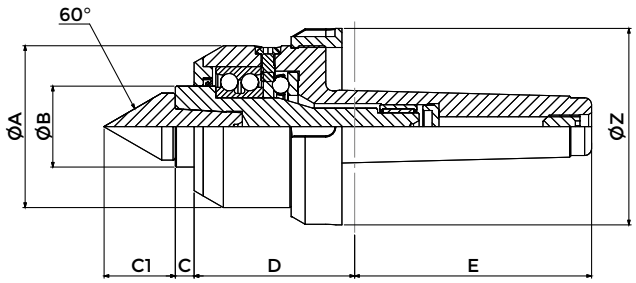


SERIE-MWS45 HP

CODE N.	SHANK	A	B	B1	C	D	E	WEIGHT (Kg)	LOAD (N)	MAX ROUNDS (r.p.m.)
450-00125	CM3	60	28	6	41,5	66	81	1,1	ASS.3040/RAD.970	4500
450-00144	CM4	70	35	9	51,4	69,5	102,5	1,9	ASS.3730/RAD.1730	4000
450-00167	CM5	90	40	12	51,5	76,5	129,5	3,9	ASS.5100/RAD.2530	2800

HIGH PRECISION LIVE CENTER WITH RING NUT AND INTERCHANGEABLE POINT



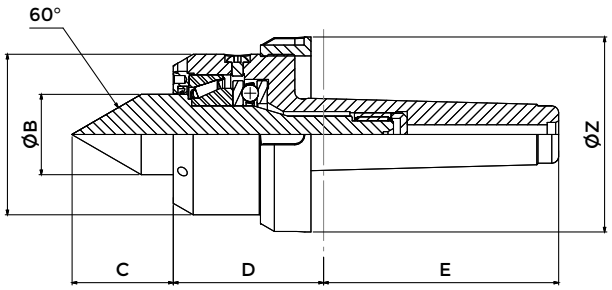


SERIE-MWS-IP HP

CODE N.	SHANK	A	B	C1	C	D	E	Z	MAX ROUNDS (r.p.m.)	WEIGHT (Kg)	LOAD (N)
450-00126	CM3	60	28	25	7	37	66	81	4500	1,1	ASS.3040/RAD.970
450-00145	CM4	70	35	29	8	41	69,5	102,5	4000	1,9	ASS.3730/RAD.1730
450-00168	CM5	90	40	35	8	46	76,5	129,5	2800	3,9	ASS.5100/RAD.2530

HIGH LOAD LIVE CENTER WITH RING NUT

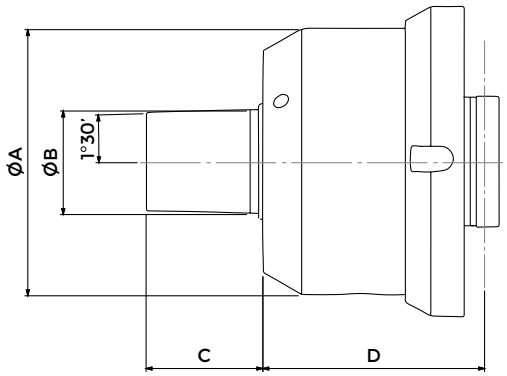




SERIE-MWS/CP

CODE N.	SHANK	A	B	C	D	E	Z	ECCENTRICITY (mm)	MAX ROUNDS (r.p.m.)	WEIGHT (Kg)	LOAD (N)
450-00129	CM3	60	28	38	51	92	75	0,005	4000	1,9	ASS.3040/RAD.2350
450-00151	CM4	70	35	46	54	11,5	82	0,005	4000	1,9	ASS.3730/RAD.3450
450-00172	CM5	90	40	53	65	136	105	0,005	2800	3,9	ASS.6370/RAD.4010
450-00191	CM6	130	65	71	92,5	195	160	0,010	2400	9,1	ASS.10290/RAD.13960
450-00193	CM8	185	80	95	148	210	220	0,010	1000	35	ASS.29190/RAD.30380

SERIE MWS/CP-F

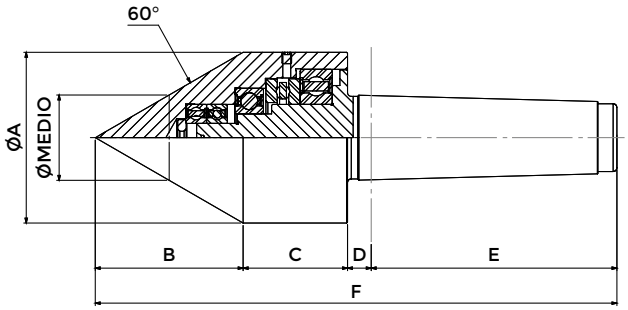


SERIE-MWS/CP-F

CODE N.	SHANK	A	B	C	D
450-00154	CM4	70	35	40	54
450-00177	CM5	90	35	40	65
450-00192	CM6	130	35	40	92,5

LIVE CENTER WITH INTEGRAL POINT FOR TUBES



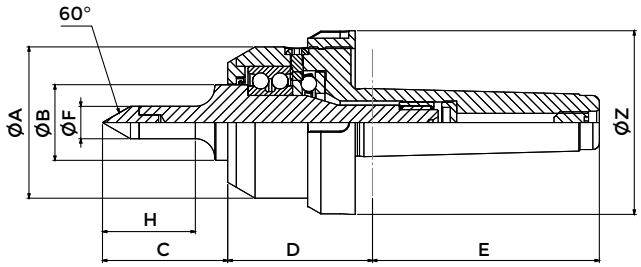


SERIE-MWS/TU

CODE N.	SHANK	WEIGHT (Kg)	LOAD (N)	A	B	C	D	E	F	ECCENTRICITY (mm)	MAX ROUNDS (r.p.m.)
450-00128	CM3	1,5	ASS.2450/RAD.900	60	52	30	10	81	173	0,015/0,008	5700
450-00147	CM4	2,3	ASS.3730/RAD.1320	70	60,5	45,5	11,5	102,5	220	0,015/0,008	4500
450-00149	CM4	2,3	ASS.3730/RAD.1320	90	78	28	11,5	102,5	220	0,015/0,008	4500
450-00148	CM4	2,3	ASS.3730/RAD.1320	110	95	10	11,5	102,5	220	0,015/0,008	4500
450-00170	CM5	4	ASS.4740/RAD.2360	90	78	55	12,5	129,5	275	0,02/0,01	3600
450-00171	CM5	4	ASS.4740/RAD.2360	110	95	38	12,5	129,5	275	0,02/0,01	3600
450-00176	CM5	4	ASS.4740/RAD.2360	200	173	15	12,5	129,5	330	0,02/0,01	3600
450-00190	CM6	10	ASS.6680/RAD.2480	110	95	60	17	182	354	0,02/0,015	2600

LIVE CENTER WITH HARD METAL POINT FOR GRINDING

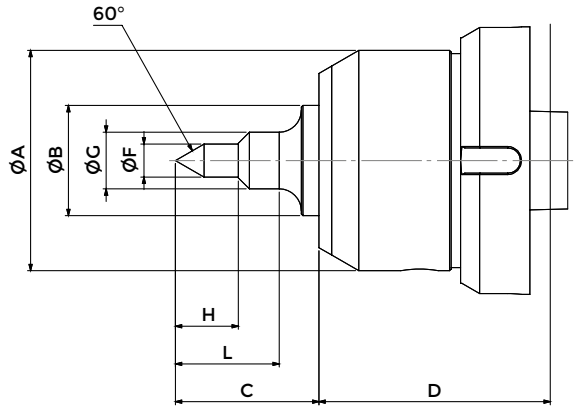




SERIE-MWS/RT60

CODE N.	SHANK	A	B	C	D	E	F	H	Z	MAX ROUNDS (r.p.m.)	WEIGHT (Kg)	LOAD (N)
450-00130	CM3	60	28	58	55	92	15	41	75	4500	1,1	ASS.3040/RAD.1240
450-00150	CM4	70	35	58	57	115	15	41	82	4000	1,9	ASS.3730/RAD.1540
450-00173	CM5	90	40	58	70	136	15	41	105	2800	3,9	ASS.5100/RAD.1710

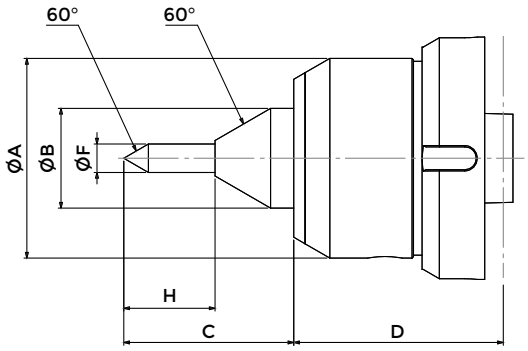
LIVE CENTER WITH HARD METAL POINT FOR GRINDING



SERIE-MWS/RTR

CODE N.	SHANK	A	B	C	D	E	F	G	H	Z	L	MAX ROUNDS (r.p.m.)	WEIGHT (Kg)	LOAD (N)
450-00131	CM3	60	28	46	55	92	10	18	20	75	33	4500	1,1	ASS.3040/RAD.1240
450-00152	CM4	70	35	46	57	115	10	18	20	82	33	4000	1,9	ASS.3730/RAD.1540
450-00174	CM5	90	40	46	70	136	10	18	20	105	33	2800	3,9	ASS.5100/RAD.1710

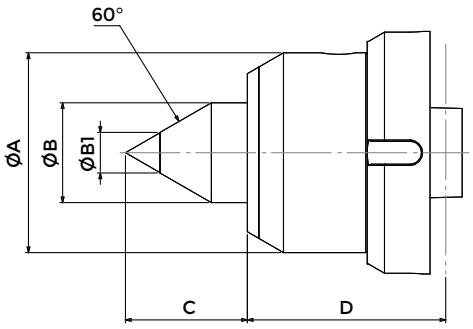
LIVE CENTER WITH HARD METAL POINT FOR GRINDING



SERIE-MWS/RTS

CODE N.	SHANK	A	B	C	D	E	F	H	Z
450-00132	CM3	60	28	53	55	92	9,7	32	75
450-00153	CM4	70	35	58,9	57	115	9,7	32	82
450-00175	CM5	90	40	64	70	136	9,7	32	105

LIVE CENTER WITH HARD METAL POINT FOR GRINDING

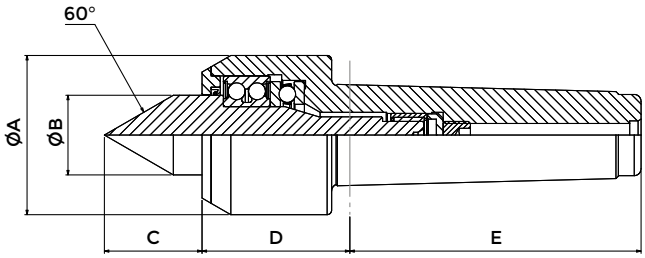


SERIE-MWS/RTD

CODE N.	SHANK	A	B	B1	C	D	E	Z
450-00127	CM3	60	28	11	34	55	92	75
450-00146	CM4	70	35	14	43	57	115	82
450-00169	CM5	90	40	20	50	70	136	105

HIGH SPEED LIVE CENTER WITHOUT RING NUT

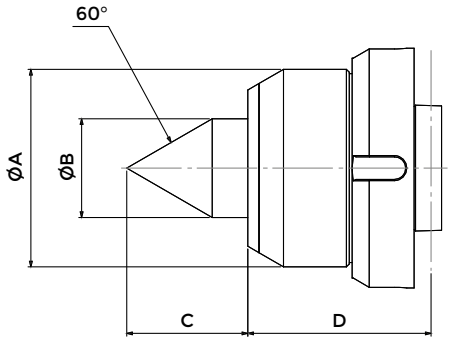




SERIE-K1 SPEED

CODE N.	SHANK	A	B	C	D	E	LOAD (N)	MAX ROUNDS (r.p.m.)
450-00196	CM2	42	20	25	48	64	ASS.1650/RAD.610	6500
450-00198	CM3	42	20	25	48	81	ASS.2110/RAD.630	6000
450-00207	CM4	62	28	34	61,5	102,5	ASS.3040/RAD.1490	4500
450-00217	CM5	70	35	43	61,5	139,5	ASS.3730/RAD.1750	4000

HIGH SPEED LIVE CENTER WITHOUT RING NUT

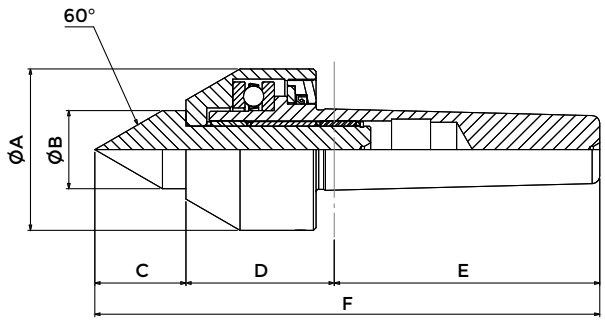


SERIE-K1 SPEED/RN

CODE N.	SHANK	A	B	C	D	E	Z
450-00211	CM4	60	28	34	61,5	102,5	75
450-00220	CM5	70	35	43	63,5	129,5	82

LOW SPEED LIVE CENTER WITHOUT RING NUT, ROTARY POINT AND BODY

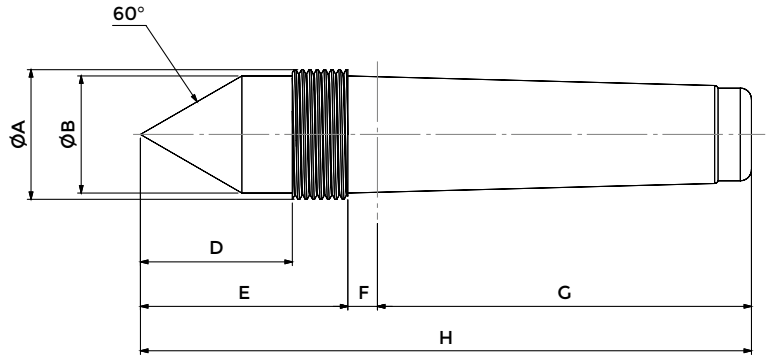




SERIE-K1 SLOW

CODE N.	SHANK	A	B	C	D	E	F	WEIGHT (Kg)	LOAD (N)	MAX ROUNDS (r.p.m.)
450-00001	CM3	56	24	28	57	81	166	1,3	ASS.4380/RAD.790	4000
450-00002	CM4	62	30	35	56,5	102,5	194	1,8	ASS.4040/RAD.880	3500
450-00003	CM5	79	38	45	65,5	129,5	240	3,5	ASS.6330/RAD.1540	2500

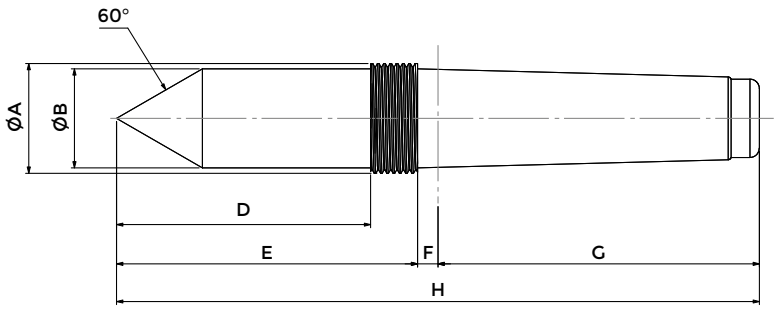
DEAD CENTER FOR CNC LATHE



SERIE-K3

CODE N.	SHANK	A	B	D	E	F	G	H
450-00038	CM3	M30X1,5	24	35	50	5	81	136
450-00063	CM4	M35X1,5	31,5	41	56	6,5	102,5	165
450-00091	CM5	M50X1,5	44	65	80	6,5	129,5	216
450-00113	CM6	M70X2	64	80,5	95,5	8	182	285,5

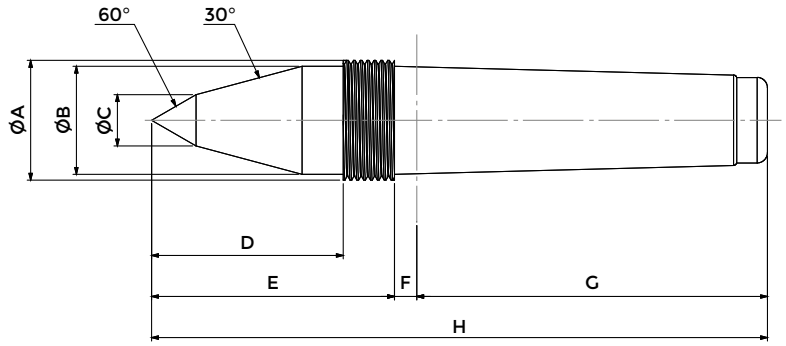
EXTENDED DEAD CENTER FOR CNC LATHE



SERIE-K3L

CODE N.	SHANK	A	B	D	E	F	G	H
450-00045	CM3	M30X1,5	24	70	85	5	81	171
450-00055	CM4	M35X1,5	31,5	81	96	6,5	102,5	205
450-00098	CM5	M50X1,5	44	105	120	6,5	129,5	256
450-00105	CM6	M70X2	64	110,5	125,5	8	182	315,5

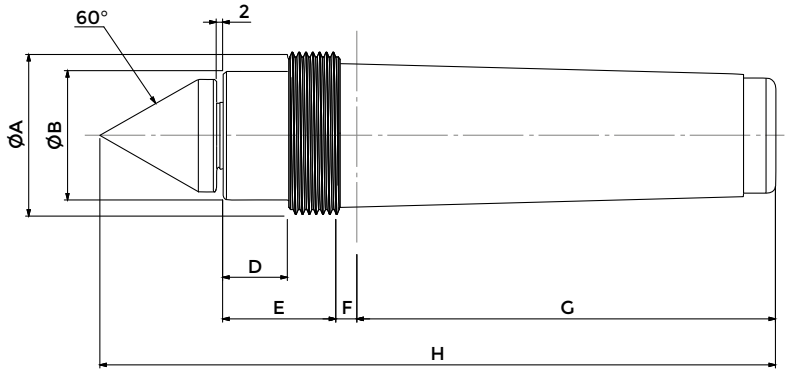
DEAD CENTER FOR CNC LATHE



SERIE-K3R

CODE N.	SHANK	A	B	C	D	E	F	G	H
450-00041	CM3	M30X1,5	24	12	47	62	5	81	148
450-00066	CM4	M35X1,5	31,5	15	56	71	6,5	102,5	180
450-00094	CM5	M50X1,5	44	18	80	95	6,5	129,5	231
450-00115	CM6	M70X2	64	20	124,4	139,4	8	182	329,4

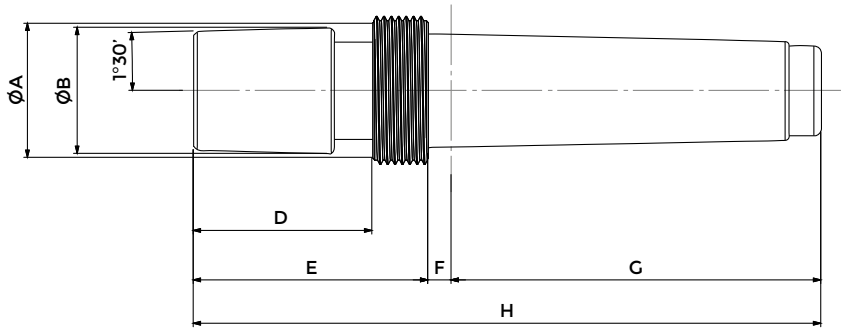
DEAD CENTER FOR CNC LATHE WITH INTERCHANGEABLE POIN



SERIE-K3/IP

CODE N.	SHANK	A	B	D	E	F	G	H
450-00039	CM3	M30X1,5	26	20	35	5	81	151
450-00064	CM4	M35X1,5	32	20	35	6,5	102,5	167
450-00092	CM5	M50X1,5	40	20	35	6,5	129,5	209

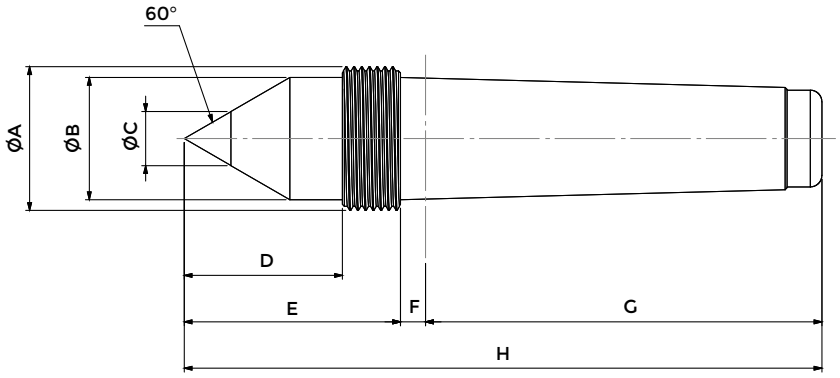
DEAD CENTER FOR CNC LATHE WITH POINT FOR FLANGE



SERIE-K3/F

CODE N.	SHANK	A	B	D	E	F	G	H
450-00042	CM3	M30X1,5	35	50	65	5	81	151
450-00067	CM4	M35X1,5	35	50	65	6,5	102,5	174
450-00095	CM5	M50X1,5	35	50	65	6,5	129,5	231
450-00116	CM6	M70X2	35	50	65	8	182	255

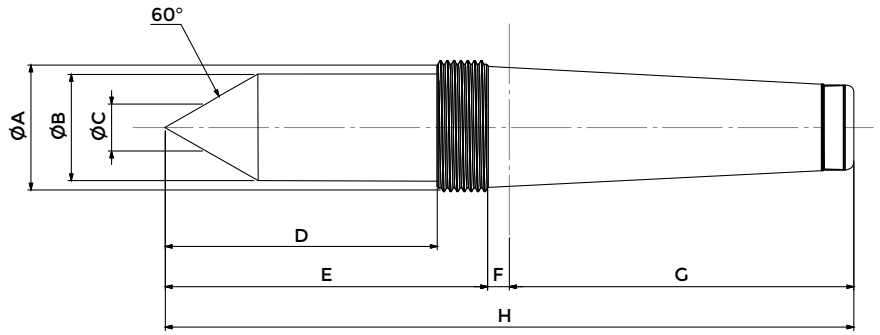
HARD METAL DEAD CENTER FOR GRINDING



SERIE-K4/RT

CODE N.	SHANK	A	B	C	D	E	F	G	H
450-00040	CM3	M30X1,5	24	11	35	50	5	81	136
450-00025	CM3	M30X1,5	24	24	35	50	5	81	136
450-00065	CM4	M35X1,5	31,5	14	41	56	6,5	102,5	165
450-00051	CM4	M35X1,5	31,5	31,5	41	56	6,5	102,5	165
450-00093	CM5	M50X1,5	44	25	65	80	6,5	129,5	216
450-00078	CM5	M50X1,5	44	44	65	80	6,5	129,5	216
450-00114	CM6	M70X2	64	40	80,5	95,5	8	182	285,5

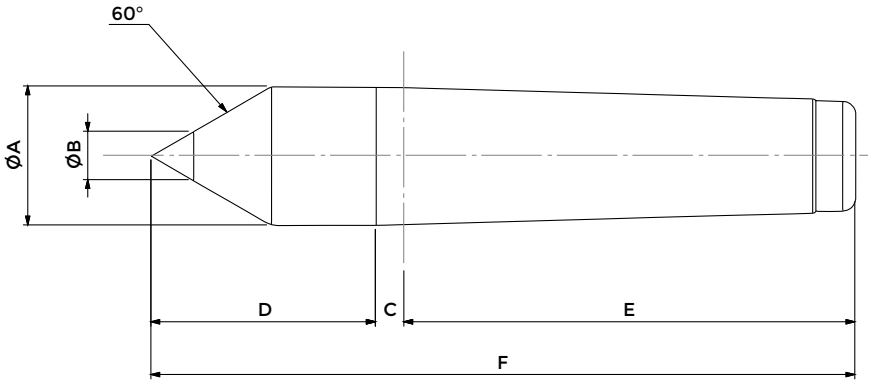
EXTENDED HARD METAL DEAD CENTER FOR GRINDING



SERIE-K4/RT L

CODE N.	SHANK	A	B	C	D	E	F	G	H
450-00046	CM3	M30X1,5	24	11	70	85	5	81	171
450-00047	CM3	M30X1,5	24	24	70	85	5	81	171
450-00056	CM4	M35X1,5	31,5	14	81	96	6,5	102,5	205
450-00057	CM4	M35X1,5	31,5	31,5	81	96	6,5	102,5	205
450-00099	CM5	M50X1,5	44	25	105	120	6,5	129,5	256
450-00100	CM5	M50X1,5	44	44	105	120	6,5	129,5	256
450-00114	CM6	M70X2	64	40	110,5	125,5	8	182	315,5

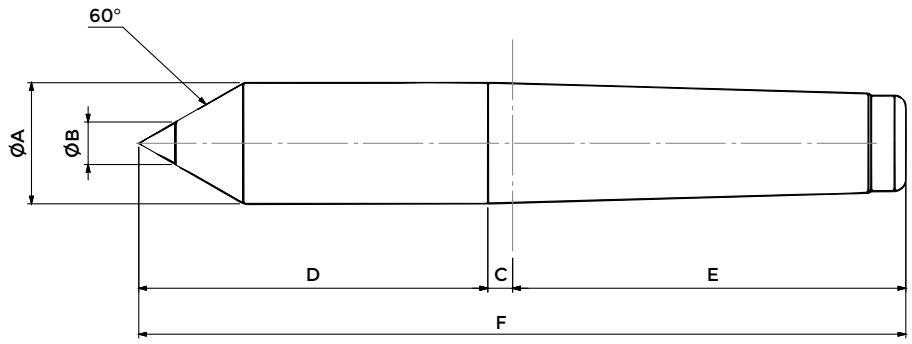
HARD METAL DEAD CENTER FOR GRINDING



SERIE-K4/RT-NG

CODE N.	SHANK	A	B	C	D	E	F
450-00036	CM3	24,1	11	5	39	81	125
450-00034	CM3	24,1	24,1	5	39	81	125
450-00061	CM4	31,6	14	6,5	51	102,5	160
450-00073	CM4	31,6	31,6	6,5	51	102,5	160
450-00089	CM5	44,7	25	6,5	64	129,5	200
450-00082	CM5	44,7	44,7	6,5	64	129,5	200
450-00111	CM6	63,8	40	8	80	182	270

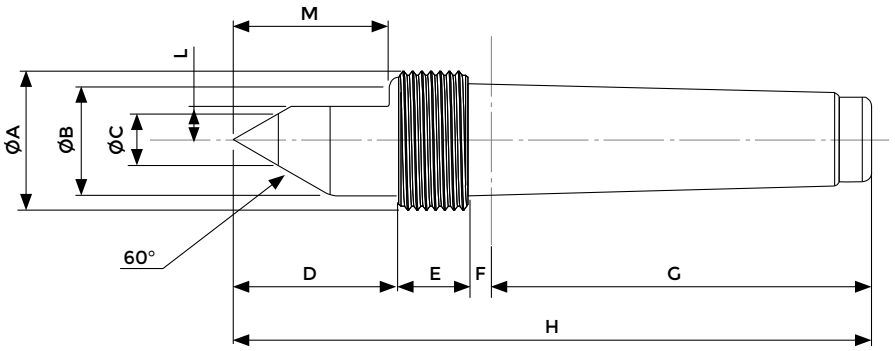
EXTENDED HARD METAL DEAD CENTER FOR GRINDING



SERIE-K4/RT-NGL

CODE N.	SHANK	A	B	C	D	E	F
450-00031	CM3	24,1	11	5	74	81	160
450-00030	CM3	24,1	24,1	5	74	81	160
450-00069	CM4	31,6	14	6,5	91	102,5	200
450-00068	CM4	31,6	31,6	6,5	91	102,5	200
450-00087	CM5	44,7	25	6,5	104	129,5	240
450-00086	CM5	44,7	44,7	6,5	104	129,5	240
450-00109	CM6	63,8	40	8	110	180	300

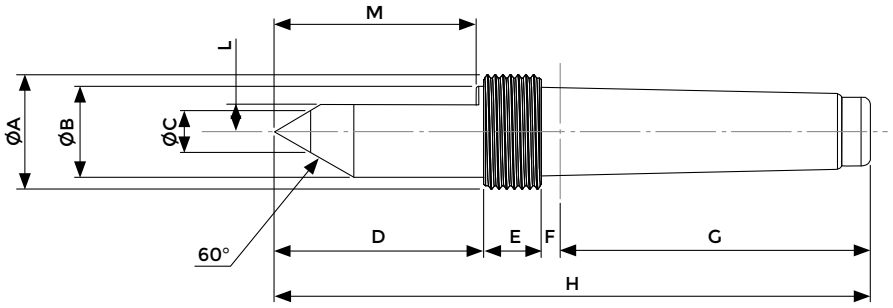
HARD METAL DEAD CENTER FOR GRINDING



SERIE-K4/RT-T

CODE N.	SHANK	A	B	C	D	E	F	G	H	L	M
450-00026	CM3	M30X1,5	24	11	35	50	5	81	136	7	33
450-00043	CM3	M30X1,5	24	18	35	50	5	81	136	10,5	33
450-00044	CM3	M30X1,5	24	24	35	50	5	81	136	9	33
450-00052	CM4	M35X1,5	31,6	14	41	56	6,5	102,5	165	8,5	38
450-00053	CM4	M35X1,5	31,6	20	41	56	6,5	102,5	165	11,5	38
450-00054	CM4	M35X1,5	31,6	31,6	41	56	6,5	102,5	165	10,5	38
450-00079	CM5	M50X1,5	44,7	14	65	80	6,5	129,5	216	9	61
450-00096	CM5	M50X1,5	44,7	30	65	80	6,5	129,5	216	17	61
450-00097	CM5	M50X1,5	44,7	44,7	65	80	6,5	129,5	216	17	61
450-00104	CM6	M70X2	64	40	80,5	95,5	8	182	285,5	22	75

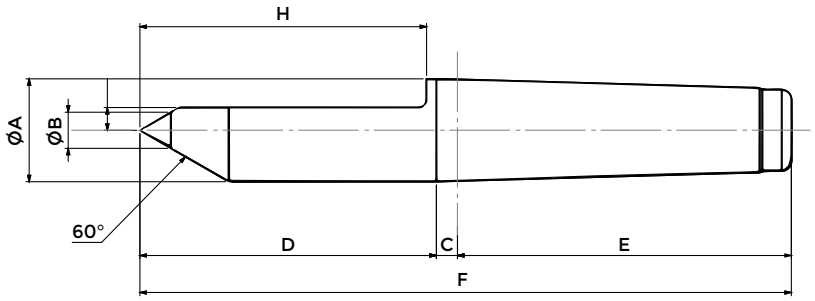
EXTENDED HARD METAL DEAD CENTER FOR GRINDING



SERIE-K4/RT-TL

CODE N.	SHANK	A	B	C	D	E	F	G	H	L	M
450-00048	CM3	M30X1,5	24	11	70	85	5	81	171	7	68
450-00049	CM3	M30X1,5	24	18	70	85	5	81	171	10,5	68
450-00050	CM3	M30X1,5	24	24	70	85	5	81	171	9	68
450-00058	CM4	M35X1,5	31,6	14	81	96	6,5	102,5	205	8,5	78
450-00059	CM4	M35X1,5	31,6	20	81	96	6,5	102,5	205	11,5	78
450-00077	CM4	M35X1,5	31,6	31,6	81	96	6,5	102,5	205	10,5	78
450-00101	CM5	M50X1,5	44,7	14	105	120	6,5	129,5	256	9	101
450-00102	CM5	M50X1,5	44,7	30	105	120	6,5	129,5	256	17	101
450-00103	CM5	M50X1,5	44,7	44,7	105	120	6,5	129,5	256	17	101
450-00107	CM6	M70X2	64	40	110,5	125,5	8	182	315,5	22	105

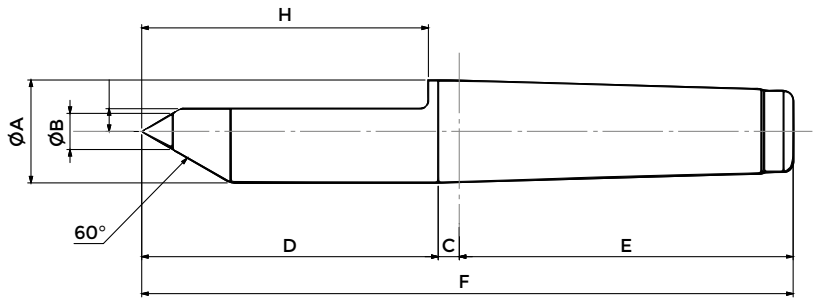
HARD METAL DEAD CENTER FOR GRINDING



SERIE-K4/RT-NGT

CODE N.	SHANK	A	B	C	D	E	F	G	H
450-00037	CM3	24,1	11	5	39	81	125	7	37
450-00033	CM3	24,1	18	5	39	81	125	10,5	37
450-00032	CM3	24,1	24,1	5	39	81	125	9	37
450-00076	CM4	31,6	14	6,5	51	102,5	160	8,5	48
450-00075	CM4	31,6	20	6,5	51	102,5	160	11,5	48
450-00074	CM4	31,6	31,6	6,5	51	102,5	160	10,5	48
450-00090	CM5	44,7	14	6,5	64	129,5	200	9	60
450-00081	CM5	44,7	30	6,5	64	129,5	200	17	60
450-00080	CM5	44,7	44,7	6,5	64	129,5	200	17	60
450-00112	CM6	63,8	40	8	80	182	270	22	75

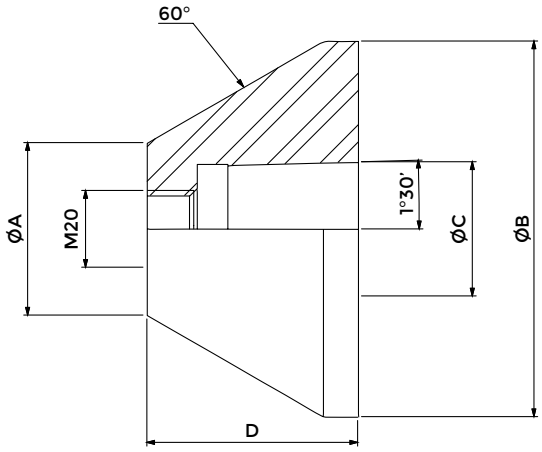
EXTENDED HARD METAL DEAD CENTER FOR GRINDING



SERIE-K4/RT-NGTL

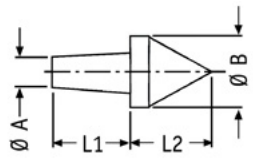
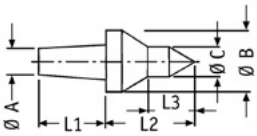
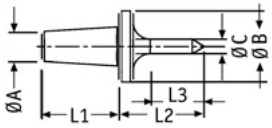
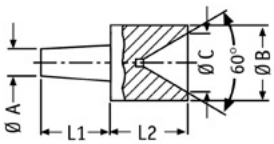
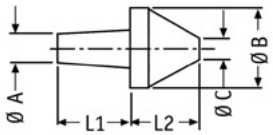
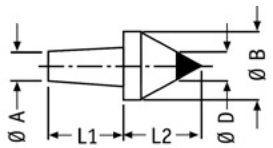
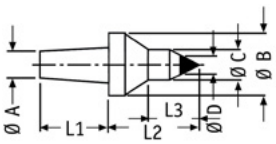
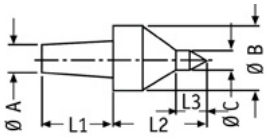
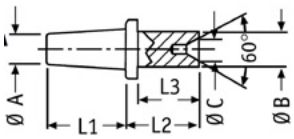
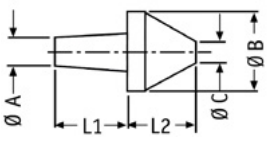
CODE N.	SHANK	A	B	C	D	E	F	G	H
450-00029	CM3	24,1	11	5	74	81	160	7	72
450-00028	CM3	24,1	18	5	74	81	160	10,5	72
450-00027	CM3	24,1	24,1	5	74	81	160	9	72
450-00072	CM4	31,6	14	6,5	91	102,5	200	8,5	88
450-00071	CM4	31,6	20	6,5	91	102,5	200	11,5	88
450-00070	CM4	31,6	31,6	6,5	91	102,5	200	10,5	88
450-00085	CM5	44,7	14	6,5	104	129,5	240	9	100
450-00084	CM5	44,7	30	6,5	104	129,5	240	17	100
450-00083	CM5	44,7	44,7	6,5	104	129,5	240	17	100
450-00108	CM6	63,8	40	8	110	182	300	22	105

LIVE CENTER FOR CHUCK APPLICATION

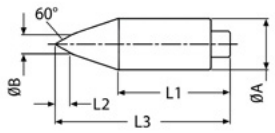
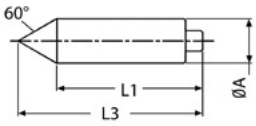
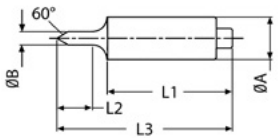
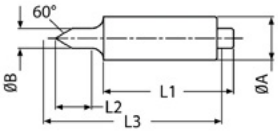
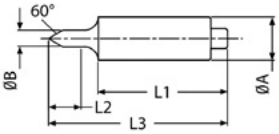


CODE N.	MODEL	A	B	C	D
450-00119	MWS 45X98	45	98	35	55
450-00120	MWS 95X148	95	148	35	55
450-00121	MWS 145X198	145	198	35	55
450-00122	MWS 195X248	195	248	35	55
450-00123	MWS 245X298	245	298	35	55

TECHNICAL DATA INTERCHANGEABLE POINTS FOR SERIE-MWS-IP HP

	CODE N.	FORM	CONO MORSE	L1	L2	L3	A	B	C	D
	450-00133	A	3	27	28	-	10,4	25	-	-
	450-00156	A	4	29	31	-	12	29	-	-
	450-00179	A	5	30	36	-	17,2	35	-	-
	450-00135	B	3	27	34	16	10,4	25	12	-
	450-00158	B	4	29	37	16,5	12	29	12	-
	450-00181	B	5	30	42	19	17,2	35	15	-
	450-00136	C	3	27	30	19	10,4	25	5	-
	450-00159	C	4	29	30	19	12	29	5	-
	450-00182	C	5	29	30	19	17,2	29	5	-
	450-00139	D	3	27	30	-	10,4	29	23	-
	450-00162	D	4	29	30	-	12	29	23	-
	450-00185	D	5	30	35	-	17,2	35	27	-
	450-00141	E	3	27	35	-	10,4	59	26	-
	450-00164	E	4	29	35	-	12	59	26	-
	450-00187	E	5	30	35	-	17,2	59	26	-
	450-00134	F	3	27	28	-	10,4	25	-	11
	450-00157	F	4	29	31	-	12	29	-	11
	450-00180	F	5	30	36	-	17,2	35	-	14
	450-00137	G	3	27	34	16	10,4	25	12	7
	450-00160	G	4	29	37	16,5	12	29	12	7
	450-00183	G	5	30	42	19	17,2	35	15	11
	450-00138	H	3	27	34	11	10,4	25	7	-
	450-00161	H	4	29	37	13	12	29	7	-
	450-00184	H	5	30	42	12	17,2	35	7	-
	450-00140	I	3	27	25	21	10,4	12	8	-
	450-00163	I	4	29	25	21	12	12	8	-
	450-00186	I	5	30	25	21	17,2	12	8	-
	450-00142	L	3	27	35	-	10,4	78	46	-
	450-00165	L	4	29	35	-	12	78	46	-
	450-00188	L	5	30	35	-	17,2	78	46	-

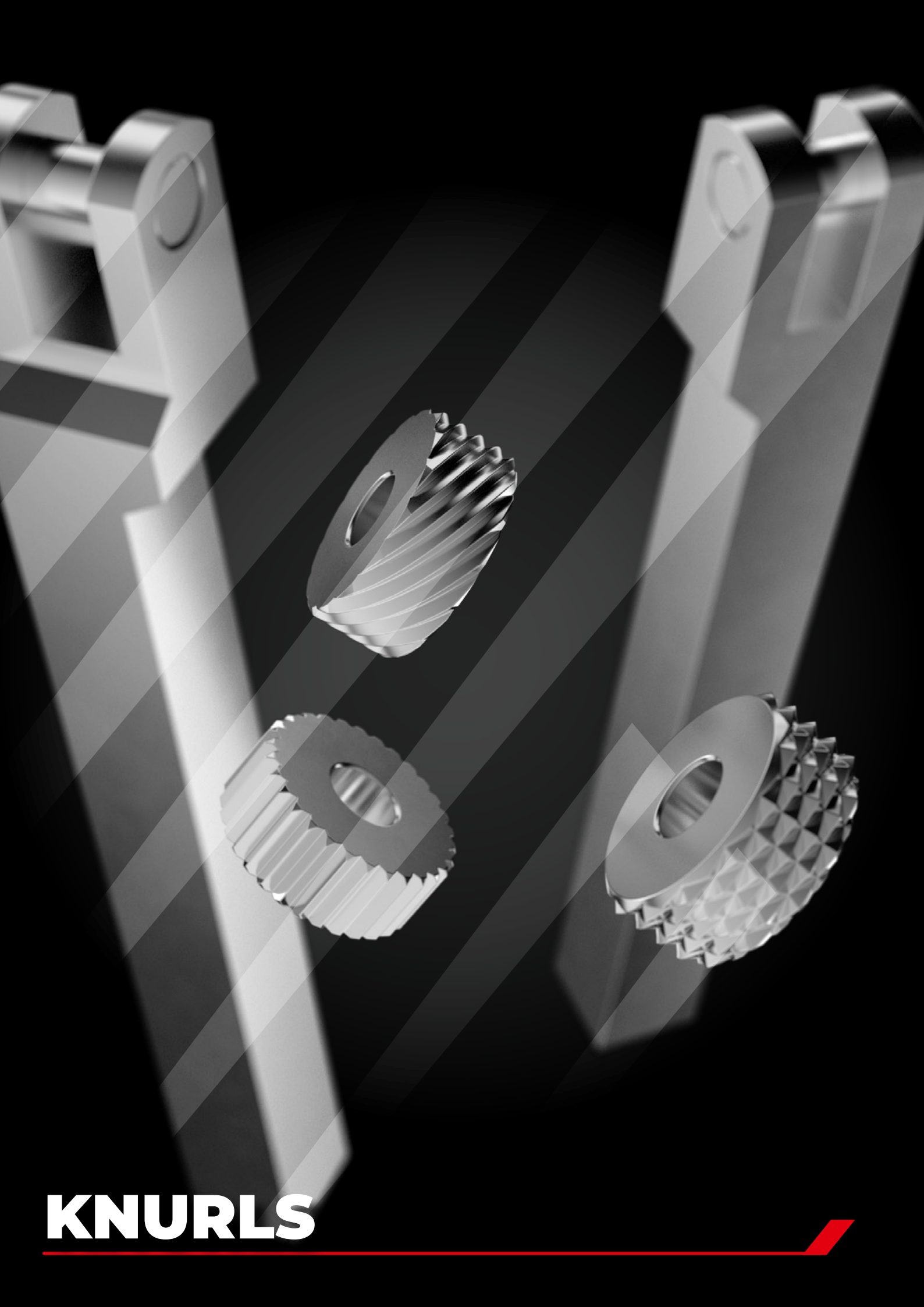
TECHNICAL DATA INTERCHANGEABLE POINTS FOR SERIE-K1

	CODE N.	FORM	CONO MORSE	L1	L2	L3	A	B
	450-00203	A	3	34	5	54	13	6
	450-00213	A	4	35	5	55	16	6
	450-00222	A	5	32	5	57	21	6
	450-00202	B	3	42	-	54	13	-
	450-00212	B	4	41	-	55	16	-
	450-00221	B	5	38	-	57	21	-
	450-00206	C	3	39	11	54	13	4
	450-00216	C	4	38	11	55	16	4
	450-00225	C	5	37	11	57	21	4
	450-00204	D	3	39	11	54	13	6
	450-00214	D	4	38	12	55	16	6
	450-00223	D	5	37	12	57	21	6
	450-00205	E	3	39	11	54	13	4
	450-00215	E	4	38	11	55	16	4
	450-00224	E	5	37	11	57	21	4

SPRINGS FOR SERIE-K1

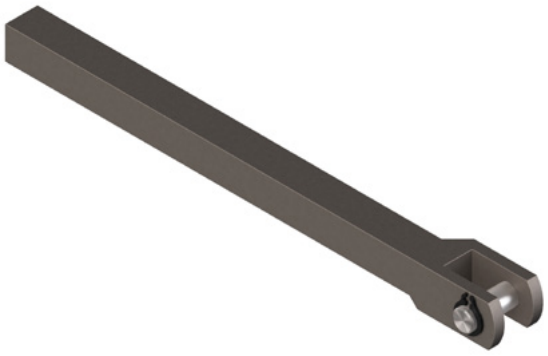
SPRINGS	CODE N.	SERIES	Nm
GOLD SPRING	450-00227	CM3/DIAM22	261
	450-00228	CM4/DIAM28	320
	450-00229	CM5/DIAM32	380
GREEN SPRING	450-00237	CM3/DIAM22	61,3
	450-00240	CM4/DIAM28	87,3
	450-00241	CM5/DIAM32	96,4
RED SPRING	450-00234	CM3/DIAM22	24,5
	450-00235	CM4/DIAM28	44,4
	450-00236	CM5/DIAM32	34,1
BLUE SPRING	450-00238	CM3/DIAM22	17,8
	450-00239	CM4/DIAM28	25,8
	450-00233	CM5/DIAM32	23
YELLOW SPRING	450-00230	CM3/DIAM22	9,8
	450-00231	CM4/DIAM28	13,7
	450-00232	CM5/DIAM32	14,1

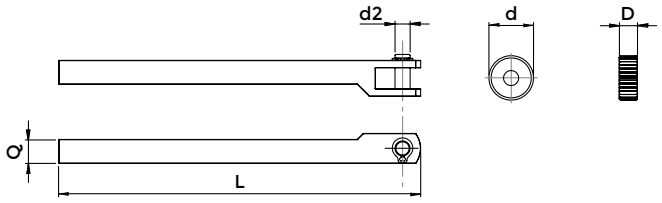
READY, ALWAYS.



KNURLS

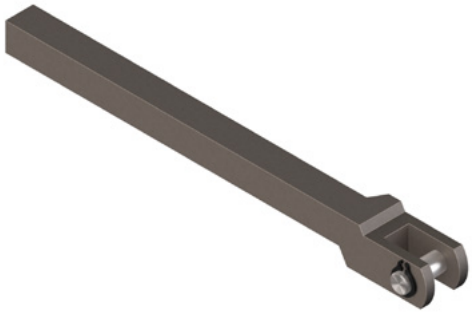
SQUARE SHANK KNURLING-WHEEL HOLDERS

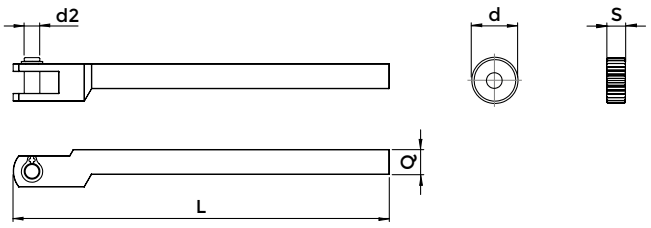




COD.	Q	L	d2	d	S	PIN	KNURL
							
1280	6 x 6	120	12	4	4	0094	12 x 4 hole ø 4
1281	6 x 6	120	15	5	5	0204	15 x 5 hole ø 5
1282	7 x 7	120	12	4	4	0094	12 x 4 hole ø 4
1283	7 x 7	120	15	5	5	0204	15 x 5 hole ø 5
1284	8 x 8	120	12	4	4	0094	12 x 4 hole ø 4
1285	8 x 8	120	15	5	5	0204	15 x 5 hole ø 5
1352	10 x 10	120	12	4	4	0094	12 x 4 hole ø 4
1286	10 x 10	120	15	5	5	0204	15 x 5 hole ø 5
1410	10 x 10	120	20	6	6	0267	20 x 6 hole ø 6
1287	10 x 10	120	20	6	8	0267	20 x 8 hole ø 6
1411	10 x 10	120	20	6	10	0096	20 x10 hole ø 6
1360	12 x 12	120	15	5	5	0204	15 x 5 hole ø 5
1362	12 x 12	120	20	6	6	0267	20 x 6 hole ø 6
1288	12 x 12	120	20	6	8	0267	20 x 8 hole ø 6
1363	12 x 12	120	20	6	10	0096	20 x10 hole ø 6
1364	16 x 16	120	20	6	8	0267	20 x 8 hole ø 6
1371	16 x 16	120	20	6	10	0267	20 x10 hole ø 6
1381	20 x 20	120	20	6	8	0267	20 x 8 hole ø 6
1461	20 x 20	120	20	6	10	0096	20 x10 hole ø 6

MISALIGNED SQUARE SHANK KNURLING-WHEEL HODERS

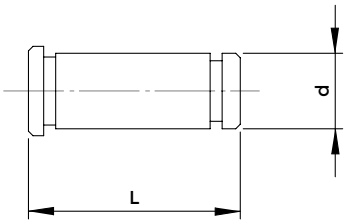




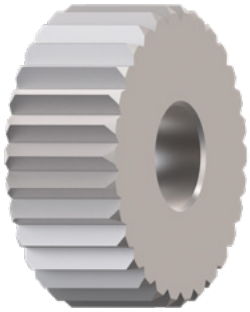
COD.	Q	L	d2	d	S	PIN	KNURL
							
2112	8 x 8	120	15	5	5	0204	15 x 5 hole ø 5
2113	10 x 10	120	15	5	5	0204	15 x 5 hole ø 5
2114	10 x 10	130	20	6	8	0267	20 x 8 hole ø 6
2115	12 x 12	130	20	6	8	0267	20 x 8 hole ø 6

PINS FOR KNURLING-WHEEL HOLDERS

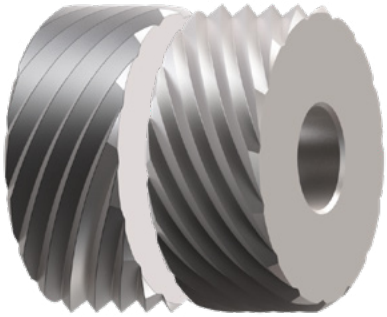
COD.	d	L
0094	4	14
0204	5	14
0267	6	18
0096	6	20



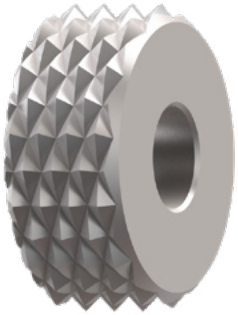
SINTERED STEEL KNURLING WHEELS FOR TRACING WORKING



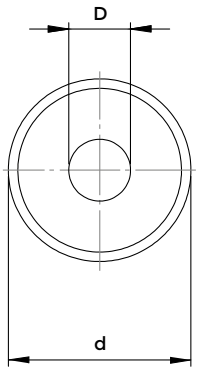
STRAIGHT

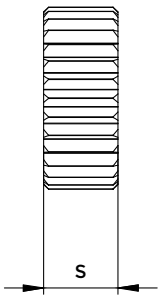


RIGHT 45°/30° LEFT 45°/30°

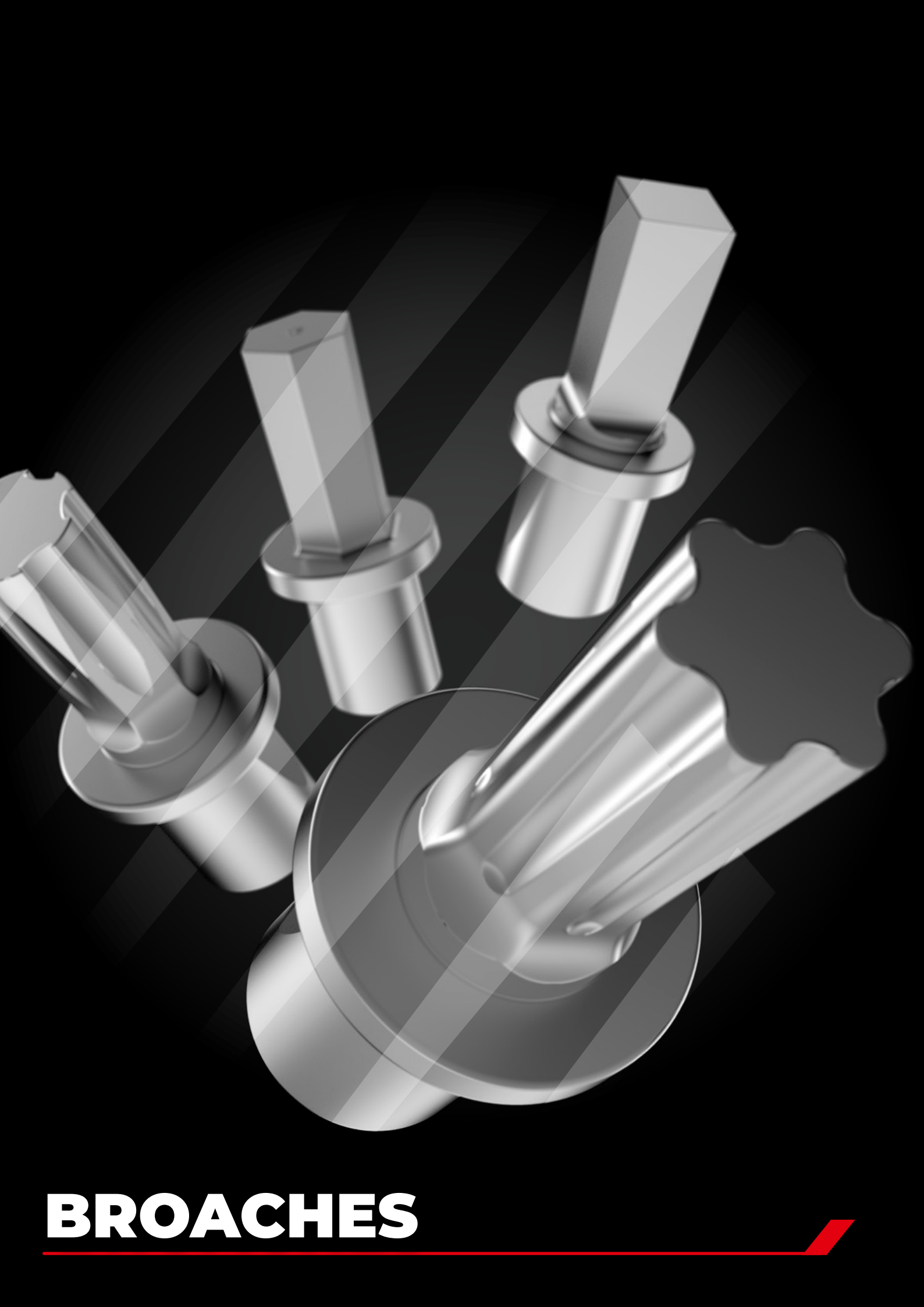


CROSS 45°/30°





TYPE	DIMENSIONS d x S x D	COD.	STEP
STRAIGHT	8 x 4 x 3	9101	0,4 - 0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 -1,5
STRAIGHT	10 x 4 x 4	9103	0,4 - 0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 -1,5
STRAIGHT	12 x 4 x 4	9104	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 -1,5
STRAIGHT	15 x 4 x 4	9105	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 -1,5
STRAIGHT	15 x 5 x 5	9107	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0
STRAIGHT	20 x 6 x 6	9108	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0
STRAIGHT	20 x 8 x 6	9109	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0
STRAIGHT	20 x 10 x 6	9110	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0
RIGHT 45°	10 x 4 x 4	9113	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5
RIGHT 45°	12 x 4 x 4	9114	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5
RIGHT 45°	15 x 4 x 4	9115	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5
RIGHT 45°	15 x 5 x 5	9117	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5
RIGHT 45°	20 x 6 x 6	9118	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0
RIGHT 45°	20 x 8 x 6	9119	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0
RIGHT 45°	20 x 10 x 6	9120	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0
LEFT 45°	10 x 4 x 4	9123	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5
LEFT 45°	12 x 4 x 4	9124	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5
LEFT 45°	15 x 4 x 4	9125	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5
LEFT 45°	15 x 5 x 5	9127	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5
LEFT 45°	20 x 6 x 6	9128	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0
LEFT 45°	20 x 8 x 6	9129	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0
LEFT 45°	20 x 10 x 6	9130	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0
RIGHT 30°	15 x 4 x 4	9135	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0
RIGHT 30°	20 x 8 x 6	9139	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0
LEFT 30°	15 x 4 x 4	9145	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0
LEFT 30°	20 x 8 x 6	9149	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0
CROSS 45°	10 x 4 x 4	9153	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5
CROSS 45°	12 x 4 x 4	9154	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5
CROSS 45°	15 x 4 x 4	9155	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5
CROSS 45°	15 x 5 x 5	9157	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5
CROSS 45°	20 x 6 x 6	9158	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0
CROSS 45°	20 x 8 x 6	9159	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0
CROSS 45°	20 x 10 x 6	9160	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0
CROSS 30°	15 x 4 x 4	9185	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0
CROSS 30°	20 x 8 x 6	9189	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0
CROSS 30°	20 x 10 x 6	9190	0,5 - 0,6 - 0,7 - 0,8 - 0,9 - 1,0 - 1,2 - 1,5 - 2,0



BROACHES

BROACHING HEADS AND BROACHES

TECHNICAL CHARACTERISTICS

The functioning of the broaching head is given by the combination of the inclination of the broach holder body and the rotation of the same. This allows to perform regular profiles both in through holes and in blind holes. With specific broaches it is also possible to create external profiles.
The optimal use of the broaching head derives from the correct alignment of the center of the broach with the center of the hole on which the processing will be carried out. To obtain the alignment of the centers, it is essential to use broaches with the length indicated in the table. The broaching head is adjusted in the factory, so the operator does not have to make any setting.

It can be used on lathes, machining centers and drills.
If it is mounted on lathes, its operation involves the rotation of both the workpiece and the front part of the tool holder, while the body of the broaching head remains stationary.
In the machining centers, both the piece and the front part of the tool holder will be stationary, while the body of the broaching head will rotate.
The rotation speed and advancement are determined by the hardness of the material and the size of the hole. See summary tables on page 558.

Morse Taper Shank



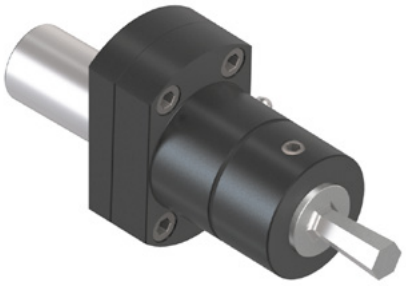
p. 604

VDI Shank



p. 524

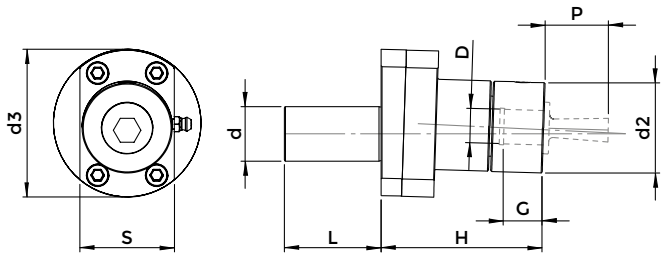
Straight Shank



p. 557

STRAIGHT SHANK BROACHING TOOLHOLDERS

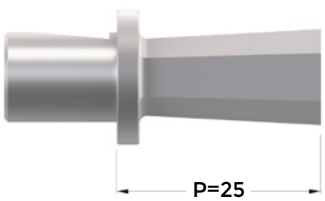




COD.	d	D	P	L	H	G	d2	d3	S
2312	16,00	8	18	35	42	10	22	50	30
2448	19,05	12	25	40	51	16	30	53	36
1680	20,00	12	25	40	51	16	30	53	36
1707	25,00	16	25	45	76	21	42	68	44
2450	25,40	16	25	45	76	21	42	68	44
2709	32,00	16	25	50	76	21	42	68	44
2712	40,00	16	25	50	76	21	42	68	44

For the right broaching toolholder working is important to respect broach P dimension

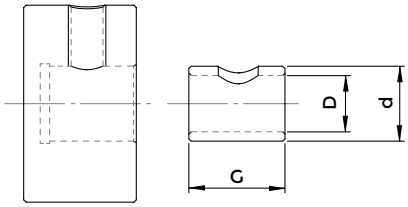
REDUCTION FOR BROACH SEAT FROM 16 TO 12 SHANK



COD.	d	D	G
2351	16	12	20,5

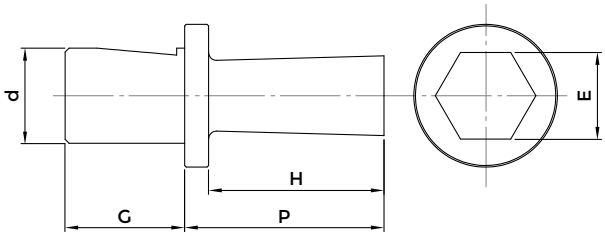
Attention:

reduction can be used only with broach having P=25



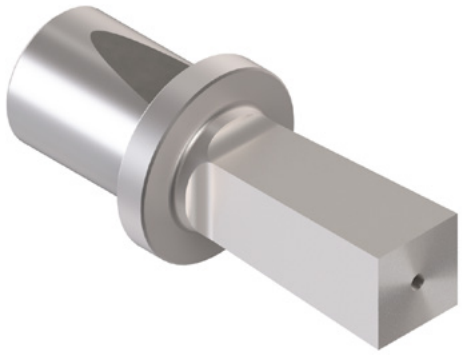
HEXAGONAL BROACHES

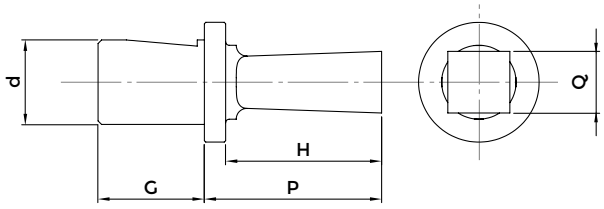




MATERIALS	SHANK D=5					SHANK D=8					SHANK D=12					SHANK D=16					SHANK D=16 EXTENDED P=40				
	COD.					COD.					COD.					COD.					COD.				
HSS	9030					9031					9032					9033					9034				
TiN steel (RM ≤ 850 N/mm²)	9035					9036					9037					9038					9039				
TiAlN steel (RM ≤ 1400 N/mm²)	9040					9041					9042					9043					-				
INOX-PLUS stainless steel - titanium	9045					9046					9047					9048					-				
	E	d	G	P	H	E	d	G	P	H	E	d	G	P	H	E	d	G	P	H	E	d	G	P	H
	1	5	7	10	2	1	8	9	18	2	1	12	15	25	2	1	16	19	25	2	1	16	19	40	2
	1,5	5	7	10	3	1,5	8	9	18	3	1,5	12	15	25	3	1,5	16	19	25	3	1.5	16	19	40	3
	2	5	7	10	4	2	8	9	18	5	2	12	15	25	5	2	16	19	25	5	2	16	19	40	3,5
	2,5	5	7	10	5	2,5	8	9	18	6	2,5	12	15	25	6	2,5	16	19	25	6	2,5	16	19	40	4
	3	5	7	10	6	3	8	9	18	7	3	12	15	25	7	3	16	19	25	7	3	16	19	40	5
	3,5	5	7	10	6	3,5	8	9	18	8	3,5	12	15	25	8	3,5	16	19	25	8	3,5	16	19	40	6
	4	5	7	10	7	4	8	9	18	9	4	12	15	25	9	4	16	19	25	9	4	16	19	40	6,5
	4,5	5	7	10	7	4,5	8	9	18	9	4,5	12	15	25	9	4,5	16	19	25	9	4,5	16	19	40	7
	5	5	7	10	7,5	5	8	9	18	11	5	12	15	25	11	5	16	19	25	11	5	16	19	40	8,5
	5,5	5	7	10	7,5	5,5	8	9	18	11	5,5	12	15	25	11	5,5	16	19	25	11	5,5	16	19	40	9,5
	6	5	7	10	7,5	6	8	9	18	13	6	12	15	25	13	6	16	19	25	13	6	16	19	40	10,5
						7	8	9	18	15	7	12	15	25	15	7	16	19	25	15	7	16	19	40	13
						8	8	9	18	15	8	12	15	25	17	8	16	19	25	17	8	16	19	40	15,5
						9	8	9	18	15	9	12	15	25	19	9	16	19	25	19	9	16	19	40	17,5
						10	8	9	18	15	10	12	15	25	21	10	16	19	25	21	10	16	19	40	18,5
											11	12	15	25	21	11	16	19	25	21	11	16	19	40	20
											12	12	15	25	21	12	16	19	25	21	12	16	19	40	20
											13	12	15	25	21	13	16	19	25	21	13	16	19	40	28
											14	12	15	25	21	14	16	19	25	21	14	16	19	40	32
											15	12	15	25	21	15	16	19	25	21	15	16	19	40	32
											16	12	15	25	21	16	16	19	25	21	16	16	19	40	32
											17	12	15	25	21	17	16	19	25	21	17	16	19	40	32
																18	16	19	25	21	18	16	19	40	32
																19	16	19	25	21	19	16	19	40	32
																20	16	19	25	21	20	16	19	40	32
																22	16	19	25	21	22	16	19	40	32
																24	16	19	25	21	24	16	19	40	32
																25	16	19	25	21	25	16	19	40	32
																26	16	19	25	21	26	16	19	40	32
																27	16	19	25	21	27	16	19	40	32
																28	16	19	25	21	28	16	19	40	32
																29	16	19	25	21	29	16	19	40	32
																30	16	19	25	21	30	16	19	40	32
																31	16	19	25	21	31	16	19	40	32
																32	16	19	25	21	32	16	19	40	32

SQUARE BROACHES



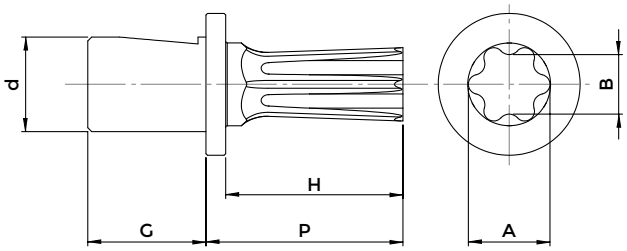


MATERIALS	SHANK D=5	SHANK D=8	SHANK D=12	SHANK D=16	SHANK D=16 EXTENDED P=40
	COD.	COD.	COD.	COD.	COD.
HSS	9050	9051	9052	9053	9054
TiN steel (RM ≤ 850 N/mm²)	9055	9056	9057	9058	9059
TiAlN steel (RM ≤ 1400 N/mm²)	9060	9061	9062	9063	-
INOX-PLUS stainless steel - titanium	9065	9066	9067	9068	-

SHANK D=5					SHANK D=8					SHANK D=12					SHANK D=16					SHANK D=16 EXTENDED P=40				
Q	d	G	P	H	Q	d	G	P	H	Q	d	G	P	H	Q	d	G	P	H	Q	d	G	P	H
1	5	7	10	2	1	8	9	18	2	1	12	15	25	2	1	16	19	25	2	1	16	19	40	2
1,5	5	7	10	3	1,5	8	9	18	3	1,5	12	15	25	3	1,5	16	19	25	3	1,5	16	19	40	3
2	5	7	10	4	2	8	9	18	5	2	12	15	25	5	2	16	19	25	5	2	16	19	40	3,5
2,5	5	7	10	5	2,5	8	9	18	6	2,5	12	15	25	6	2,5	16	19	25	6	2,5	16	19	40	4
3	5	7	10	6	3	8	9	18	7	3	12	15	25	7	3	16	19	25	7	3	16	19	40	5
3,5	5	7	10	6	3,5	8	9	18	8	3,5	12	15	25	8	3,5	16	19	25	8	3,5	16	19	40	6
4	5	7	10	7	4	8	9	18	9	4	12	15	25	9	4	16	19	25	9	4	16	19	40	6,5
					4,5	8	9	18	9	4,5	12	15	25	9	4,5	16	19	25	9	4,5	16	19	40	7
					5	8	9	18	11	5	12	15	25	11	5	16	19	25	11	5	16	19	40	8,5
					5,5	8	9	18	11	5,5	12	15	25	11	5,5	16	19	25	11	5,5	16	19	40	9,5
					6	8	9	18	13	6	12	15	25	13	6	16	19	25	13	6	16	19	40	10,5
					7	8	9	18	15	7	12	15	25	15	7	16	19	25	15	7	16	19	40	13
					8	8	9	18	15	8	12	15	25	17	8	16	19	25	17	8	16	19	40	15,5
										9	12	15	25	19	9	16	19	25	19	9	16	19	40	17,5
										10	12	15	25	21	10	16	19	25	21	10	16	19	40	18,5
										11	12	15	25	21	11	16	19	25	21	11	16	19	40	20
										12	12	15	25	21	12	16	19	25	21	12	16	19	40	20
										13	12	15	25	21	13	16	19	25	21	13	16	19	40	28
										14	12	15	25	21	14	16	19	25	21	14	16	19	40	32
															15	16	19	25	21	15	16	19	40	32
															16	16	19	25	21	16	16	19	40	32
															17	16	19	25	21	17	16	19	40	32
															18	16	19	25	21	18	16	19	40	32
															19	16	19	25	21	19	16	19	40	32
															20	16	19	25	21	20	16	19	40	32
															22	16	19	25	21	22	16	19	40	32
															24	16	19	25	21	24	16	19	40	32
															25	16	19	25	21	25	16	19	40	32
															26	16	19	25	21	26	16	19	40	32
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															28	16	19	25	21	28	16	19	40	32
															29	16	19	25	21	29	16	19	40	32
															30	16	19	25	21	30	16	19	40	32
															31	16	19	25	21	31	16	19	40	32
															32	16	19	25	21	32	16	19	40	32

TORX® BROACHES





MATERIALS	SHANK D=5	SHANK D=8	SHANK D=12	SHANK D=16	SHANK D=16 EXTENDED P=40
	COD.	COD.	COD.	COD.	COD.
HSS	9029	9070	9071	9072	9073
TiN steel (RM ≤ 850 N/mm²)	9074	9075	9076	9077	9078
TiAlN steel (RM ≤ 1400 N/mm²)	9079	9080	9081	9082	-
INOX-PLUS stainless steel - titanium	9084	9085	9086	9087	-

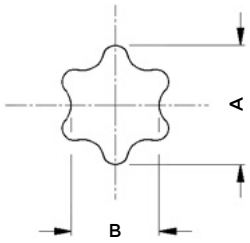
TORX	d	G	P	H
3	5	7	10	1,2
4	5	7	10	1,2
5	5	7	10	1,5
6	5	7	10	1,7
7	5	7	10	1,7
8	5	7	10	2
9	5	7	10	2
10	5	7	10	2
15	5	7	10	3
20	5	7	10	3,5

TORX	d	G	P	H
3	8	9	18	1,2
4	8	9	18	1,2
5	8	9	18	1,5
6	8	9	18	1,7
7	8	9	18	1,7
8	8	9	18	2
9	8	9	18	2
10	8	9	18	2
15	8	9	18	3
20	8	9	18	3,5
25	8	9	18	4
27	8	9	18	4
30	8	9	18	4,5
40	8	9	18	5

TORX	d	G	P	H
3	12	15	25	1,2
4	12	15	25	1,2
5	12	15	25	1,5
6	12	15	25	1,7
7	12	15	25	1,7
8	12	15	25	2
9	12	15	25	2
10	12	15	25	2
15	12	15	25	3
20	12	15	25	3,5
25	12	15	25	4
27	12	15	25	4
30	12	15	25	4,5
40	12	15	25	5
45	12	15	25	5,5
50	12	15	25	6
55	12	15	25	7

TORX	d	G	P	H
3	16	19	25	1,2
4	16	19	25	1,2
5	16	19	25	1,5
6	16	19	25	1,7
7	16	19	25	1,7
8	16	19	25	2
9	16	19	25	2
10	16	19	25	2
15	16	19	25	3
20	16	19	25	3,5
25	16	19	25	4
27	16	19	25	4
30	16	19	25	4,5
40	16	19	25	5
45	16	19	25	5,5
50	16	19	25	6
55	16	19	25	7
60	16	19	25	7,5

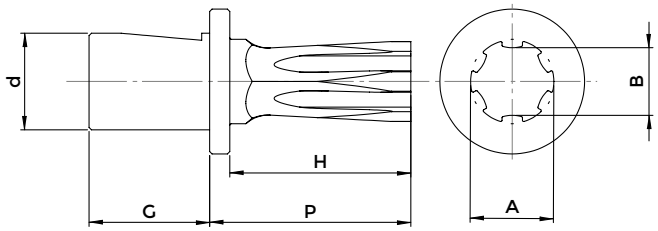
TORX	d	G	P	H
3	16	19	40	1,2
4	16	19	40	1,2
5	16	19	40	1,5
6	16	19	40	1,7
7	16	19	40	1,7
8	16	19	40	2
9	16	19	40	2
10	16	19	40	2
15	16	19	40	3
20	16	19	40	3,5
25	16	19	40	4
27	16	19	40	4
30	16	19	40	4,5
40	16	19	40	5
45	16	19	40	5,5
50	16	19	40	6
55	16	19	40	7
60	16	19	40	7,5



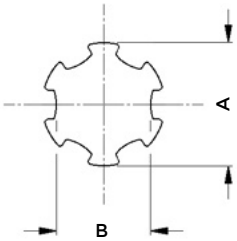
Torx®	3	4	5	6	7	8	9	10	15	20	25	27	30	40	45	50	55	60
A	1,214	1,374	1,449	1,778	2,095	2,418	2,603	2,844	3,378	3,962	4,559	5,118	5,651	6,807	7,975	8,991	11,404	13,487
B	0,884	0,996	1,097	1,293	1,521	1,755	1,889	2,057	2,438	2,857	3,226	3,672	4,065	4,889	5,689	6,502	8,009	9,677

TORX PLUS® BROACHES





MATERIALS	SHANK D=5					SHANK D=8					SHANK D=12					SHANK D=16					SHANK D=16 EXTENDED P=40				
	COD.					COD.					COD.					COD.					COD.				
HSS	9089					9090					9091					9092					9093				
TiN steel (RM ≤ 850 N/mm²)	9094					9095					9096					9097					9098				
TiAlN steel (RM ≤ 1400 N/mm²)	9776					9777					9778					9779					-				
INOX-PLUS stainless steel - titanium	9781					9782					9783					9784					-				
	TORX PLUS	d	G	P	H	TORX PLUS	d	G	P	H	TORX PLUS	d	G	P	H	TORX PLUS	d	G	P	H	TORX PLUS	d	G	P	H
	6	5	7	10	1,7	6	8	9	18	1,7	6	12	15	25	1,7	-	-	-	-	-	-	-	-	-	-
	7	5	7	10	1,7	7	8	9	18	1,7	7	12	15	25	1,7	-	-	-	-	-	-	-	-	-	-
	8	5	7	10	2	8	8	9	18	2	8	12	15	25	2	-	-	-	-	-	-	-	-	-	-
	9	5	7	10	2	9	8	9	18	2	9	12	15	25	2	-	-	-	-	-	-	-	-	-	-
	10	5	7	10	2	10	8	9	18	2	10	12	15	25	2	10	16	19	25	2	10	16	19	40	2
	15	5	7	10	3	15	8	9	18	3	15	12	15	25	3	15	16	19	25	3	15	16	19	40	3
	20	5	7	10	3,5	20	8	9	18	3,5	20	12	15	25	3,5	20	16	19	25	3,5	20	16	19	40	3,5
						25	8	9	18	4	25	12	15	25	4	25	16	19	25	4	25	16	19	40	4
						27	8	9	18	4	27	12	15	25	4	27	16	19	25	4	27	16	19	40	4
						30	8	9	18	4,5	30	12	15	25	4,5	30	16	19	25	4,5	30	16	19	40	4,5
						40	8	9	18	5	40	12	15	25	5	40	16	19	25	5	40	16	19	40	5
											45	12	15	25	5,5	45	16	19	25	5,5	45	16	19	40	5,5
											50	12	15	25	6	50	16	19	25	6	50	16	19	40	6
											55	12	15	25	7	55	16	19	25	7	55	16	19	40	7
																60	16	19	25	7,5	60	16	19	40	7,5



Torx Plus®	6	7	8	9	10	15	20	25	27	30	40	45	50	55	60
A	1,778	2,095	2,418	2,603	2,844	3,378	3,962	4,559	5,118	5,651	6,807	7,975	8,991	11,385	13,442
B	1,381	1,606	1,86	2,014	2,174	2,606	3,088	3,492	3,99	4,391	5,283	6,141	6,923	8,766	10,35

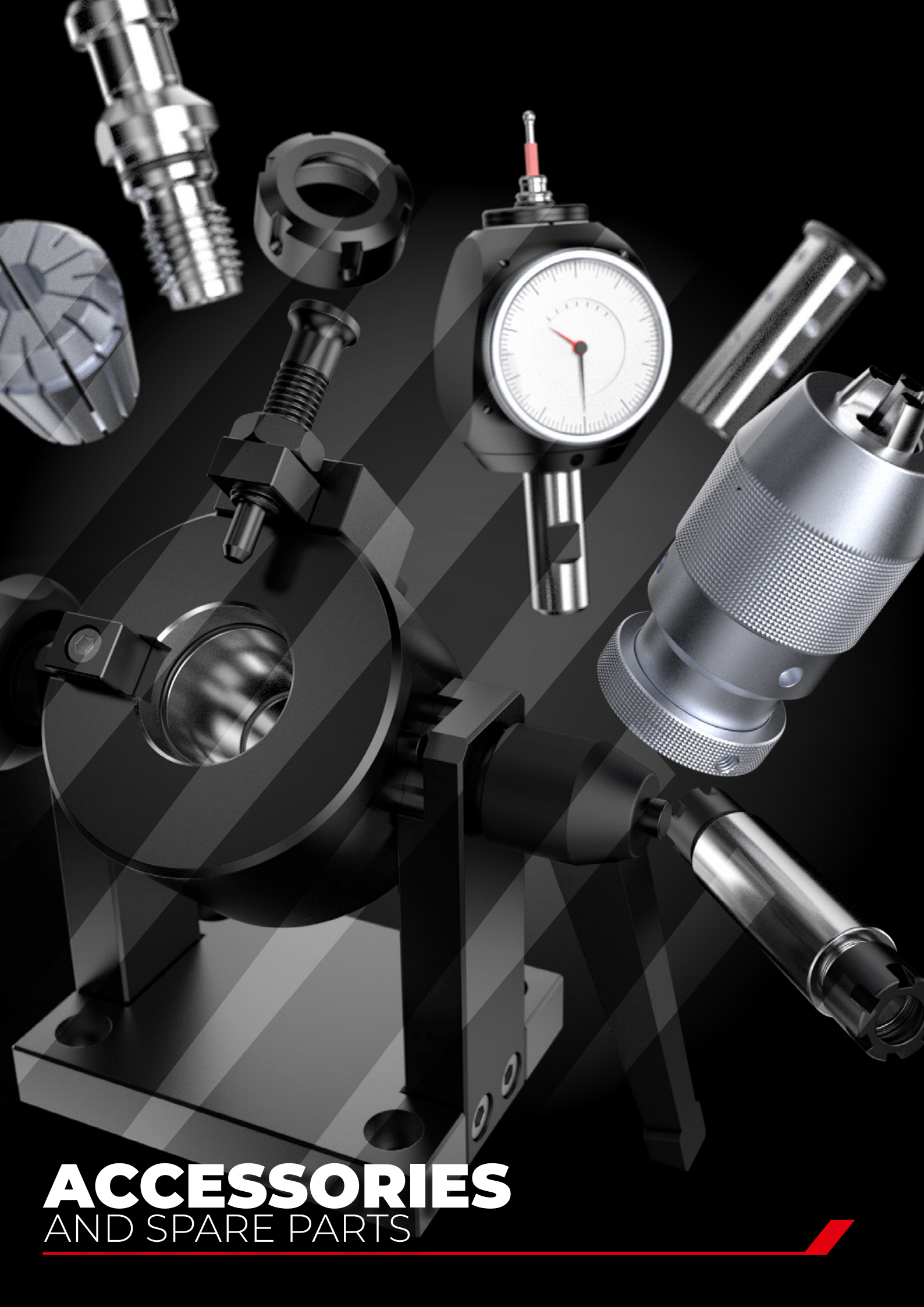
BROACHES USAGE PARAMETERS

Use cooling while broaching			FEED (rpm)								
			Hexagonal			Squadre			TORX® TORX PLUS®		
MATERIAL TO WORK (N/mm²)		Speed (RPM)	1 ÷ 12	13 ÷ 23	24 ÷ 40	1 ÷ 10	11 ÷ 20	21 ÷ 25	T3 ÷ T6	T7 ÷ T27 IP6 ÷ IP27	T30 ÷ T70 IP30 ÷ IP70
brass	Rm <350	600 / 1800	0,1	0,07	0,04	0,08	0,06	0,04	0,1	0,09	0,07
copper	Rm <350	700 / 1900	0,12	0,09	0,05	0,1	0,08	0,06	0,12	0,11	0,09
alluminium	Rm <500	700 / 2000	0,10 - 0,14	0,07 - 0,10	0,04 - 0,06	0,08 - 0,12	0,05 - 0,08	0,02 - 0,04	0,14	0,12 - 0,13	0,09 - 0,12
steel	Rm <700	650 / 1800	0,1	0,08	0,05	0,06	0,04	0,02	0,1	0,09	0,07
steel	Rm 700 - 850	600 / 1600	0,08	0,06	0,04	0,05	0,03	0,02	0,08	0,07	0,05
steel	Rm 850 - 1250	500 / 1400	0,05	0,02	0,01	0,02	0,02	0,01	0,05	0,04	0,03
steel	Rm 1250 - 1400	400 / 1200	0,02	0,015	0,01	0,02	0,015	0,01	0,03	0,02	0,02
stainless steel	Rm <900	600 / 1600	0,08	0,06	0,04	0,05	0,04	0,02	0,08	0,07	0,06
stainless steel	Rm >900	500 / 1200	0,04	0,03	0,02	0,03	0,02	0,01	0,045	0,04	0,03
titanium	Rm >700	450 / 1200	0,03	0,02	0,01	0,02	0,02	0,01	0,035	0,03	0,02
cast iron	Rm <600	650 / 1800	0,1	0,06	0,03	0,08	0,05	0,03	0,1	0,09	0,06

HEXAGONAL Broach	PRE-HOLE	SQUARE Broach	PRE-HOLE	TORX® Broach	PRE-HOLE	TORX PLUS® Broach	PRE-HOLE
1	ø 1,05 +0,10/0	1	ø 1,15 +0,10/0	T 3	ø 0,95 +0,05/0	IP 6	ø 1,50 +0,10/0
1,5	ø 1,55 +0,10/0	2	ø 2,20 +0,10/0	T 4	ø 1,05 +0,05/0	IP 8	ø 1,95 +0,10/0
2	ø 2,10 +0,10/0	3	ø 3,30 +0,10/0	T 5	ø 1,20 +0,05/0	IP 9	ø 2,10 +0,10/0
2,5	ø 2,60 +0,10/0	4	ø 4,40 +0,10/0	T 6	ø 1,40 +0,10/0	IP 10	ø 2,30 +0,10/0
3	ø 3,10 +0,10/0	5	ø 5,50 +0,10/0	T 7	ø 1,60 +0,10/0	IP 15	ø 2,70 +0,10/0
4	ø 4,15 +0,10/0	6	ø 6,60 +0,10/0	T 8	ø 1,90 +0,10/0	IP 20	ø 3,20 +0,10/0
5	ø 5,15 +0,10/0	7	ø 7,70 +0,15/0	T 9	ø 1,95 +0,10/0	IP 25	ø 3,60 +0,10/0
6	ø 6,20 +0,10/0	8	ø 8,80 +0,15/0	T 10	ø 2,20 +0,10/0	IP 27	ø 4,10 +0,10/0
7	ø 7,20 +0,15/0	9	ø 9,90 +0,15/0	T 15	ø 2,60 +0,10/0	IP 30	ø 4,50 +0,10/0
8	ø 8,25 +0,15/0	10	ø 11,00 +0,20/0	T 20	ø 3,00 +0,10/0	IP 40	ø 5,40 +0,10/0
9	ø 9,25 +0,15/0	11	ø 12,10 +0,20/0	T 25	ø 3,40 +0,10/0	IP 45	ø 6,40 +0,10/0
10	ø 10,30 +0,15/0	12	ø 13,20 +0,20/0	T 27	ø 3,80 +0,10/0	IP 50	ø 7,10 +0,10/0
12	ø 12,35 +0,15/0	13	ø 14,30 +0,20/0	T 30	ø 4,15 +0,10/0	IP 55	ø 9,20 +0,10/0
13	ø 13,40 +0,15/0	14	ø 15,40 +0,20/0	T 40	ø 5,00 +0,15/0	IP 60	ø 10,60 +0,20/0
14	ø 14,40 +0,15/0	15	ø 16,50 +0,20/0	T 45	ø 5,80 +0,15/0		
15	ø 15,45 +0,20/0	16	ø 17,60 +0,20/0	T 50	ø 6,70 +0,20/0		
16	ø 16,45 +0,20/0	17	ø 18,70 +0,20/0	T 55	ø 8,20 +0,20/0		
17	ø 17,50 +0,20/0	18	ø 19,80 +0,20/0	T 60	ø 9,85 +0,20/0		
18	ø 18,55 +0,20/0	19	ø 20,90 +0,20/0				
19	ø 19,55 +0,20/0	20	ø 22,00 +0,20/0				
20	ø 20,60 +0,20/0	21	ø 23,10 +0,25/0				
22	ø 22,65 +0,20/0	22	ø 24,20 +0,25/0				
24	ø 24,70 +0,20/0	23	ø 25,30 +0,25/0				
27	ø 27,80 +0,25/0	24	ø 26,40 +0,25/0				
30	ø 30,90 +0,25/0	25	ø 27,50 +0,25/0				
32	ø 33,20 +0,25/0						

Pre-hole depth must be at least 20% greater than the one of the profile to execute.
To facilitate the processing it is recommended to perform an entrance chamfer.

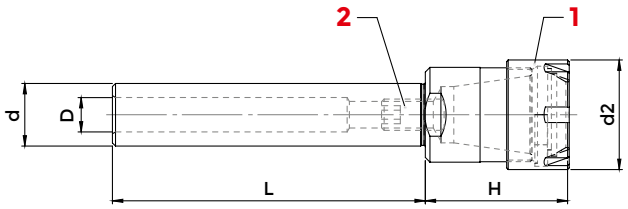
READY, ALWAYS.



ACCESSORIES
AND SPARE PARTS

STRAIGHT SHANK ER COLLET CHUCKS WITH MINI NUT





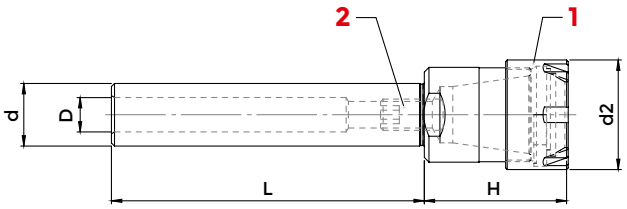
DIN 1835A

								2	1		
COD. (WITHOUT FLAT)	COD. (WITH FLAT)	DESCRIPTION	d	ER	H	d2	D	NUT	SCREW	WRENCH	COLLET
											
3207	-	d 5 - ER 8 GM / L 45	5	ER 8 1÷ 5	24	12	-	0373	-	5717	0554
0394	-	d 6 - ER 8 GM / L 45	6	ER 8 1÷ 5	24	12	-	0373	-	5717	0554
0157	-	d 6 - ER11 GM / L 45	6	ER 11 1÷ 8	25	16	-	0432	-	5718	5573
0187	-	d 7 - ER11 GM / L 45	7	ER 11 1÷ 8	25	16	-	0432	-	5718	5573
0395	-	d 8 - ER 8 GM / L 55	8	ER 8 1÷ 5	24	12	-	0373	-	5717	0554
0155	-	d 8 - ER 8 GM / L 80	8	ER 8 1÷ 5	24	12	-	0373	-	5717	0554
2000	-	d 8 - ER 8 GM / L 100	8	ER 8 1÷ 5	24	12	-	0373	-	5717	0554
2001	-	d 8 - ER 8 GM / L 130	8	ER 8 1÷ 5	24	12	-	0373	-	5717	0554
2889	-	d 8 - ER11 GM / L 55	8	ER 11 1÷ 8	25	16	-	0432	-	5718	5573
2894	-	d 8 - ER11 GM / L 100	8	ER 11 1÷ 8	25	16	-	0432	-	5718	5573
2026	-	d 8 - ER16 GM / L 55	8	ER 16 1÷12	37	22	-	1229	-	5719	0364
2027	-	d 8 - ER16 GM / L 100	8	ER 16 1÷12	37	22	-	1229	-	5719	0364
2937	-	d 10 - ER 8 GM / L 55	10	ER 8 1÷ 5	24	12	-	0373	0173	5717	0554
5138	-	d 10 - ER 8 GM / L 80	10	ER 8 1÷ 5	24	12	-	0373	0173	5717	0554
2938	-	d 10 - ER 8 GM / L 100	10	ER 8 1÷ 5	24	12	-	0373	0173	5717	0554
5139	-	d 10 - ER 8 GM / L 130	10	ER 8 1÷ 5	24	12	-	0373	0173	5717	0554
2890	-	d 10 - ER11 GM / L 55	10	ER 11 1÷ 8	25	16	5	0432	0173	5718	5573
5140	-	d 10 - ER11 GM / L 80	10	ER 11 1÷ 8	25	16	5	0432	0173	5718	5573
2896	-	d 10 - ER11 GM / L 100	10	ER 11 1÷ 8	25	16	5	0432	0173	5718	5573
5141	-	d 10 - ER11 GM / L 130	10	ER 11 1÷ 8	25	16	5	0432	0173	5718	5573
2891	-	d 10 - ER16 GM / L 60	10	ER 16 1÷12	37	22	5	1229	0173	5719	0364
5142	-	d 10 - ER16 GM / L 80	10	ER 16 1÷12	37	22	5	1229	0173	5719	0364
2956	-	d 10 - ER16 GM / L 100	10	ER 16 1÷12	37	22	5	1229	0173	5719	0364
2002	-	d 12 - ER 8 GM / L 55	12	ER 8 1÷ 5	15	12	5	0373	0173	5717	0554
5143	-	d 12 - ER 8 GM / L 70	12	ER 8 1÷ 5	15	12	5	0373	0173	5717	0554
2962	-	d 12 - ER 8 GM / L 100	12	ER 8 1÷ 5	15	12	5	0373	0173	5717	0554
2991	-	d 12 - ER 8 GM / L 140	12	ER 8 1÷ 5	15	12	5	0373	0173	5717	0554
2892	-	d 12 - ER11 GM / L 55	12	ER 11 1÷ 8	25	16	7	0432	0181	5718	5573
3208	-	d 12 - ER11 GM / L 70	12	ER 11 1÷ 8	25	16	7	0432	0181	5718	5573
3003	-	d 12 - ER11 GM / L 100	12	ER 11 1÷ 8	25	16	7	0432	0181	5718	5573
0217	-	d 12 - ER11 GM / L 140	12	ER 11 1÷ 8	25	16	7	0432	0181	5718	5573
2893	-	d 12 - ER16 GM / L 55	12	ER 16 1÷12	37	22	7	1229	0181	5719	0364
3209	-	d 12 - ER16 GM / L 80	12	ER 16 1÷12	37	22	7	1229	0181	5719	0364
3214	-	d 12 - ER16 GM / L 120	12	ER 16 1÷12	37	22	7	1229	0181	5719	0364
3210	-	d 15 - ER20 GM / L 100	15	ER 20 1÷15	41	28	9	1230	0183	5720	0787
0214 SP	0214	d 16 - ER11 GM / L 40	16	ER 11 1÷ 8	22	16	7	0432	0181	5718	5573
0292 SP	0292	d 16 - ER11 GM / L 60	16	ER 11 1÷ 8	22	16	7	0432	0181	5718	5573
0441 SP	0441	d 16 - ER11 GM / L 80	16	ER 11 1÷ 8	22	16	7	0432	0181	5718	5573

follows >>

STRAIGHT SHANK ER COLLET CHUCKS WITH MINI NUT





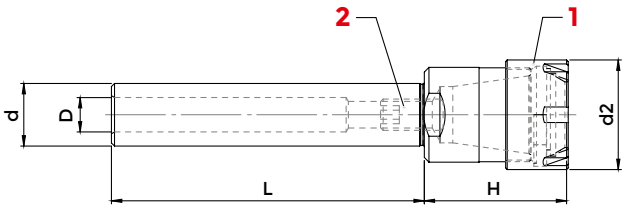
DIN 1835A

COD. (WITHOUT FLAT)	COD. (WITH FLAT)	DESCRIPTION	d	ER	H	d2	D	2 NUT	1 SCREW	WRENCH	COLLET
2963 SP	2963	d 16 - ER11 GM / L 100	16	ER 11 1÷ 8	22	16	7	0432	0181	5718	5573
3903 SP	3903	d 16 - ER11 GM / L 130	16	ER 11 1÷ 8	22	16	7	0432	0181	5718	5573
3904 SP	3904	d 16 - ER11 GM / L 160	16	ER 11 1÷ 8	22	16	7	0432	0181	5718	5573
3913 SP	3913	d 16 - ER11 GM / L 200	16	ER 11 1÷ 8	22	16	7	0432	0181	5718	5573
2591 SP	2591	d 16 - ER16 GM / L 35	16	ER 16 1÷12	37	22	7	1229	0181	5719	0364
3211 SP	3211	d 16 - ER16 GM / L 60	16	ER 16 1÷12	37	22	7	1229	0181	5719	0364
3212 SP	3212	d 16 - ER16 GM / L 80	16	ER 16 1÷12	37	22	7	1229	0181	5719	0364
3226 SP	3226	d 16 - ER16 GM / L 100	16	ER 16 1÷12	37	22	7	1229	0181	5719	0364
3393 SP	3393	d 16 - ER16 GM / L 130	16	ER 16 1÷12	37	22	7	1229	0181	5719	0364
3490 SP	3490	d 16 - ER16 GM / L 160	16	ER 16 1÷12	37	22	7	1229	0181	5719	0364
2005 SP	2005	d 16 - ER16 GM / L 200	16	ER 16 1÷12	37	22	7	1229	0181	5719	0364
2895 SP	2895	d 16 - ER20 GM / L 55	16	ER 20 1÷15	40	28	9	1230	0183	5720	0787
3213 SP	3213	d 16 - ER20 GM / L 100	16	ER 20 1÷15	40	28	9	1230	0183	5720	0787
2982 SP	2982	d 16 - ER20 GM / L 130	16	ER 20 1÷15	40	28	9	1230	0183	5720	0787
2983 SP	2983	d 16 - ER20 GM / L 160	16	ER 20 1÷15	40	28	9	1230	0183	5720	0787
-	0189	d 19,05 - ER11GM / L 50	19,05	ER 11 1÷ 8	18	16	7	0432	0181	5718	5573
-	3013	d 19,05 - ER11GM / L 100	19,05	ER 11 1÷ 8	18	16	7	0432	0181	5718	5573
-	0215	d 19,05 - ER16GM / L 60	19,05	ER 16 1÷12	30	22	11	1229	0186	5719	0364
-	3394	d 19,05 - ER16GM / L 100	19,05	ER 16 1÷12	30	22	11	1229	0186	5719	0364
-	0226	d 19,05 - ER20GM / L 50	19,05	ER 20 1÷15	37	28	11	1230	0186	5720	0787
-	3397	d 19,05 - ER20GM / L 100	19,05	ER 20 1÷15	37	28	11	1230	0186	5720	0787
-	2897	d 19,05 - ER25GM / L 50	19,05	ER 25 1÷20	46	35	11	1231	0186	5721	0996
0216 SP	0216	d 20 - ER11 GM / L 50	20	ER 11 1÷ 8	22	16	7	0432	0181	5718	5573
1222 SP	1222	d 20 - ER11 GM / L 100	20	ER 11 1÷ 8	22	16	7	0432	0181	5718	5573
2042 SP	2042	d 20 - ER11 GM / L 130	20	ER 11 1÷ 8	22	16	7	0432	0181	5718	5573
2043 SP	2043	d 20 - ER11 GM / L 160	20	ER 11 1÷ 8	22	16	7	0432	0181	5718	5573
5144 SP	5144	d 20 - ER11 GM / L 200	20	ER 11 1÷ 8	22	16	7	0432	0181	5718	5573
3905 SP	3905	d 20 - ER16 GM / L 60	20	ER 16 1÷12	30	22	11	1229	0186	5719	0364
3520 SP	3520	d 20 - ER16 GM / L 100	20	ER 16 1÷12	30	22	11	1229	0186	5719	0364
3909 SP	3909	d 20 - ER16 GM / L 130	20	ER 16 1÷12	30	22	11	1229	0186	5719	0364
3521 SP	3521	d 20 - ER16 GM / L 160	20	ER 16 1÷12	30	22	11	1229	0186	5719	0364
3522 SP	3522	d 20 - ER16 GM / L 200	20	ER 16 1÷12	30	22	11	1229	0186	5719	0364
3528 SP	3528	d 20 - ER16 GM / L 250	20	ER 16 1÷12	30	22	11	1229	0186	5719	0364
3215 SP	3215	d 20 - ER20 GM / L 46	20	ER 20 1÷15	37	28	11	1230	0186	5720	0787
0220 SP	0220	d 20 - ER20 GM / L 60	20	ER 20 1÷15	37	28	11	1230	0186	5720	0787
3216 SP	3216	d 20 - ER20 GM / L 100	20	ER 20 1÷15	37	28	11	1230	0186	5720	0787
3217 SP	3217	d 20 - ER20 GM / L 130	20	ER 20 1÷15	37	28	11	1230	0186	5720	0787
0225 SP	0225	d 20 - ER20 GM / L 160	20	ER 20 1÷15	37	28	11	1230	0186	5720	0787

follows >>

STRAIGHT SHANK ER COLLET CHUCKS WITH MINI NUT





DIN 1835A

COD. (WITHOUT FLAT)	COD. (WITH FLAT)	DESCRIPTION	d	ER	H	d2	D	2 NUT	1 SCREW	WRENCH	COLLET
3227 SP	3227	d 20 - ER20 GM / L 200	20	ER 20 1÷15	37	28	11	1230	0186	5720	0787
3285 SP	3285	d 20 - ER20 GM / L 250	20	ER 20 1÷15	37	28	11	1230	0186	5720	0787
2899 SP	2899	d 20 - ER25 GM / L 46	20	ER 25 1÷20	46	35	11	1231	0186	5721	0996
3906 SP	3906	d 20 - ER25 GM / L 60	20	ER 25 1÷20	46	35	11	1231	0186	5721	0996
3218 SP	3218	d 20 - ER25 GM / L 100	20	ER 25 1÷20	46	35	11	1231	0186	5721	0996
0228 SP	0228	d 20 - ER25 GM / L 130	20	ER 25 1÷20	46	35	11	1231	0186	5721	0996
3319 SP	3319	d 20 - ER25 GM / L 160	20	ER 25 1÷20	46	35	11	1231	0186	5721	0996
-	0408	d 22 - ER16 GM / L 80	22	ER 16 1÷12	27	22	11	1229	0186	5719	0364
-	0412	d 22 - ER20 GM / L 80	22	ER 20 1÷15	30	28	11	1230	0186	5720	0787
0451 SP	0451	d 25 - ER11 GM / L 100	25	ER 11 1÷ 8	18	16	7	0432	0181	5718	0787
5145 SP	5145	d 25 - ER11 GM / L 130	25	ER 11 1÷ 8	18	16	7	0432	0181	5718	5573
5146 SP	5146	d 25 - ER11 GM / L 160	25	ER 11 1÷ 8	18	16	7	0432	0186	5718	5573
0218 SP	0218	d 25 - ER16 GM / L 60	25	ER 16 1÷12	27	22	11	1229	0186	5719	0364
0219 SP	0219	d 25 - ER16 GM / L 100	25	ER 16 1÷12	27	22	11	1229	0186	5719	0364
0231 SP	0231	d 25 - ER16 GM / L 130	25	ER 16 1÷12	27	22	11	1229	0186	5719	0364
3029 SP	3029	d 25 - ER16 GM / L 160	25	ER 16 1÷12	27	22	11	1229	0186	5719	0364
3063 SP	3063	d 25 - ER16 GM / L 200	25	ER 16 1÷12	27	22	11	1229	0186	5719	0364
3907 SP	3907	d 25 - ER20 GM / L 60	25	ER 20 1÷15	28	28	13	1230	4973	5720	0787
0221 SP	0221	d 25 - ER20 GM / L 100	25	ER 20 1÷15	28	28	13	1230	4973	5720	0787
0222 SP	0222	d 25 - ER20 GM / L 130	25	ER 20 1÷15	28	28	13	1230	4973	5720	0787
3219 SP	3219	d 25 - ER20 GM / L 160	25	ER 20 1÷15	28	28	13	1230	4973	5720	0787
4004 SP	4004	d 25 - ER20 GM / L 200	25	ER 20 1÷15	28	28	13	1230	4973	5720	0787
0227 SP	0227	d 25 - ER25 GM / L 50	25	ER 25 1÷20	32	35	13	1231	4973	5721	0996
3908 SP	3908	d 25 - ER25 GM / L 70	25	ER 25 1÷20	32	35	13	1231	4973	5721	0996
0426 SP	0426	d 25 - ER25 GM / L 100	25	ER 25 1÷20	32	35	13	1231	4973	5721	0996
0446 SP	0446	d 25 - ER25 GM / L 130	25	ER 25 1÷20	32	35	13	1231	4973	5721	0996
0449 SP	0449	d 25 - ER25 GM / L 160	25	ER 25 1÷20	32	35	13	1231	4973	5721	0996
0462 SP	0462	d 25 - ER25 GM / L 200	25	ER 25 1÷20	32	35	13	1231	4973	5721	0996
-	3030	d 25,4 - ER16 GM / L 60	25,4	ER 16 1÷12	27	22	11	1229	0186	5719	0364
-	3031	d 25,4 - ER16 GM / L 100	25,4	ER 16 1÷12	27	22	11	1229	0186	5719	0364
-	3912	d 25,4 - ER20 GM / L 70	25,4	ER 20 1÷15	28	28	13	1230	4973	5720	0787
-	0421	d 25,4 - ER20 GM / L 100	25,4	ER 20 1÷15	28	28	13	1230	4973	5720	0787
-	3914	d 25,4 - ER25 GM / L 70	25,4	ER 25 1÷20	32	35	13	1231	4973	5721	0996
-	0433	d 25,4 - ER25 GM / L 100	25,4	ER 25 1÷20	32	35	13	1231	4973	5721	0996
-	3395	d 32 - ER16 GM / L 90	32	ER 16 1÷12	30	22	11	1229	0186	5719	0364
-	3396	d 32 - ER20 GM / L 90	32	ER 20 1÷15	28	28	13	1230	4973	5720	0787

ACCESSORIES

p. 632



p. 615

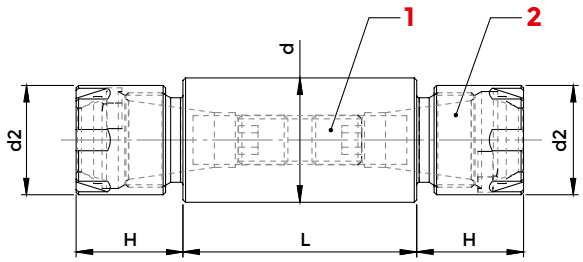


p. 635



STRAIGHT SHANK ER DOUBLE COLLET CHUCKS WITH MINI NUT





DIN 1835A

							2	1		
COD.	DESCRIPTION	d	H	L	d2	ER	NUT	SCREW	WRENCH	COLLET
8779	d 20 DP - ER 11 GM / L 42	20	14	70	16	ER 11 1÷ 8	0432	0020	5718	5773
8780	d 20 DP - ER 11 GM / L 52	20	14	80	16	ER 11 1÷ 8	0432	0375	5718	5773
8781	d 20 DP - ER 11 GM / L 62	20	14	90	16	ER 11 1÷ 8	0432	0375	5718	5773
8782	d 20 DP - ER 16 GM / L 37	20	21,5	80	22	ER 16 1÷ 12	1229	-	5719	0364
8783	d 20 DP - ER 16 GM / L 57	20	21,5	100	22	ER 16 1÷ 12	1229	0060	5719	0364
8784	d 20 DP - ER 16 GM / L 67	20	21,5	110	22	ER 16 1÷ 12	1229	4972	5719	0364
8988	d 20 DP - ER 16 GM / L 122	20	21,5	165	22	ER 16 1÷ 12	1229	4973	5719	0364
8785	d 22 DP - ER 16 GM / L 47	22	21,5	90	22	ER 16 1÷ 12	1229	0060	5719	0364
8786	d 22 DP - ER 16 GM / L 67	22	21,5	110	22	ER 16 1÷ 12	1229	4972	5719	0364
8787	d 22 DP - ER 16 GM / L 102	22	21,5	145	22	ER 16 1÷ 12	1229	0186	5719	0364
8788	d 25 DP - ER 16 GM / L 27	25	21,5	70	22	ER 16 1÷ 12	1229	-	5719	0364
8789	d 25 DP - ER 16 GM / L 47	25	21,5	90	22	ER 16 1÷ 12	1229	0060	5719	0364
8790	d 25 DP - ER 16 GM / L 67	25	21,5	110	22	ER 16 1÷ 12	1229	4972	5719	0364
8791	d 25 DP - ER 20 GM / L 82	25	24	130	28	ER 20 1÷ 15	1230	0186	5720	0787
8792	d 32 DP - ER 20 GM / L 57	32	24	105	28	ER 20 1÷ 15	1230	0060	5720	0787
8793	d 32 DP - ER 20 GM / L 82	32	24	130	28	ER 20 1÷ 15	1230	0186	5720	0787

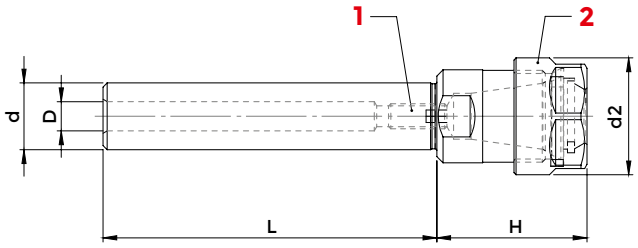
ACCESSORIES
p. 632

p. 615

p. 635


STRAIGHT SHANK ER COLLET CHUCKS WITH HEXAGONAL NUT





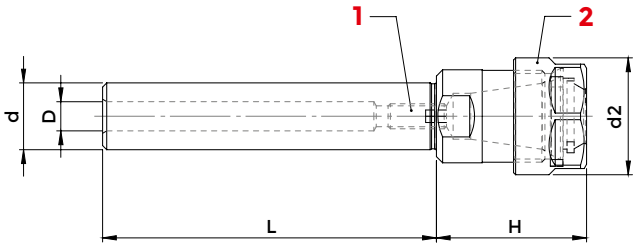
DIN 1835A

COD. (WITHOUT FLAT)	COD. (WITH FLAT)	DESCRIPTION	d	ER	H	d2	D	2 NUT	1 SCREW	WRENCH	COLLET
5244	-	d 14 - ER 16 GE / L 60	14	ER 16 1÷12	36	28	7	1214	0181	2906	0364
5245 SP	5245	d 16 - ER 16 GE / L 60	16	ER 16 1÷12	36	28	7	1214	0181	2906	0364
5246 SP	5246	d 16 - ER 16 GE / L 80	16	ER 16 1÷12	36	28	7	1214	0181	2906	0364
5247 SP	5247	d 16 - ER 16 GE / L 100	16	ER 16 1÷12	36	28	7	1214	0181	2906	0364
5248 SP	5248	d 16 - ER 16 GE / L 130	16	ER 16 1÷12	36	28	7	1214	0181	2906	0364
5249 SP	5249	d 16 - ER 16 GE / L 160	16	ER 16 1÷12	36	28	7	1214	0181	2906	0364
5251 SP	5251	d 16 - ER 20 GE / L 60	16	ER 20 1÷15	40	34	9	1215	0183	2907	0787
-	5252	d 19,05 - ER 16 GE / L 50	19,05	ER 16 1÷12	32	28	11	1214	0186	2906	0364
-	5253	d 19,05 - ER 16 GE / L 100	19,05	ER 16 1÷12	32	28	11	1214	0186	2906	0364
-	5254	d 19,05 - ER 20 GE / L 50	19,05	ER 20 1÷15	36	34	11	1215	0186	2907	0787
5256 SP	5256	d 20 - ER 16 GE / L 50	20	ER 16 1÷12	31	28	11	1214	0186	2906	0364
5257 SP	5257	d 20 - ER 16 GE / L 100	20	ER 16 1÷12	31	28	11	1214	0186	2906	0364
5258 SP	5258	d 20 - ER 16 GE / L 130	20	ER 16 1÷12	31	28	11	1214	0186	2906	0364
5259 SP	5259	d 20 - ER 16 GE / L 160	20	ER 16 1÷12	31	28	11	1214	0186	2906	0364
5260 SP	5260	d 20 - ER 16 GE / L 200	20	ER 16 1÷12	31	28	11	1214	0186	2906	0364
5261 SP	5261	d 20 - ER 20 GE / L 46	20	ER 20 1÷15	36	34	11	1215	0186	2907	0787
5262 SP	5262	d 20 - ER 20 GE / L 60	20	ER 20 1÷15	36	34	11	1215	0186	2907	0787
5263 SP	5263	d 20 - ER 20 GE / L 100	20	ER 20 1÷15	36	34	11	1215	0186	2907	0787
5264 SP	5264	d 20 - ER 20 GE / L 130	20	ER 20 1÷15	36	34	11	1215	0186	2907	0787
5265 SP	5265	d 20 - ER 20 GE / L 160	20	ER 20 1÷15	36	34	11	1215	0186	2907	0787
5266 SP	5266	d 20 - ER 20 GE / L 200	20	ER 20 1÷15	36	34	11	1215	0186	2907	0787
-	5267	d 22 - ER 16 GE / L 80	22	ER 16 1÷12	26	28	11	1214	0186	2906	0364
-	5268	d 22 - ER 20 GE / L 80	22	ER 20 1÷15	36	34	11	1215	0186	2907	0787
5269 SP	5269	d 25 - ER 16 GE / L 60	25	ER 16 1÷12	27	28	11	1214	0186	2906	0364
5270 SP	5270	d 25 - ER 16 GE / L 100	25	ER 16 1÷12	27	28	11	1214	0186	2906	0364
5271 SP	5271	d 25 - ER 16 GE / L 130	25	ER 16 1÷12	27	28	11	1214	0186	2906	0364
-	5272	d 25 - ER 16 GE / L 160	25	ER 16 1÷12	27	28	11	1214	0186	2906	0364
5274 SP	5274	d 25 - ER 20 GE / L 60	25	ER 20 1÷15	28	34	13	1215	4973	2907	0787

follows >>

STRAIGHT SHANK ER COLLET CHUCKS WITH HEXAGONAL NUT





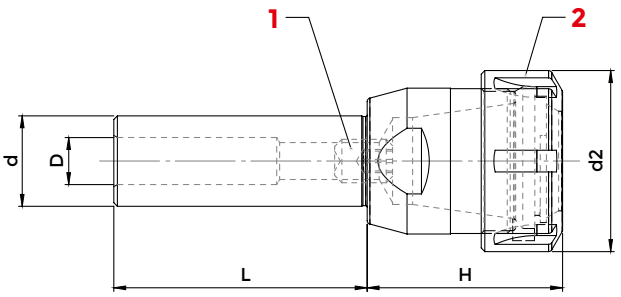
DIN 1835A

COD. (WITHOUT FLAT)	COD. (WITH FLAT)	DESCRIPTION	d	ER	H	d2	D	2 NUT	1 SCREW	WRENCH	COLLET
											
5275 SP	5275	d 25 - ER 20 GE / L 100	25	ER 20 1÷15	28	34	13	1215	4973	2907	0787
5276 SP	5276	d 25 - ER 20 GE / L 130	25	ER 20 1÷15	28	34	13	1215	4973	2907	0787
5277 SP	5277	d 25 - ER 20 GE / L 160	25	ER 20 1÷15	28	34	13	1215	4973	2907	0787
-	5278	d 25,4 - ER 16 GE / L 60	25,4	ER 16 1÷12	27	28	11	1214	0186	2906	0364
-	5279	d 25,4 - ER 16 GE / L 100	25,4	ER 16 1÷12	27	28	11	1214	0186	2906	0364
-	5280	d 25,4 - ER 20 GE / L 60	25,4	ER 20 1÷15	28	34	13	1215	4973	2907	0787
-	5281	d 25,4 - ER 20 GE / L 100	25,4	ER 20 1÷15	28	34	13	1215	4973	2907	0787
-	5284	d 32 - ER 16 GE / L 100	32	ER 16 1÷12	27	28	11	1214	0186	2906	0364
-	5285	d 32 - ER 16 GE / L 150	32	ER 16 1÷12	27	28	11	1214	0186	2906	0364
-	5286	d 32 - ER 20 GE / L 100	32	ER 20 1÷15	28	34	13	1215	4973	2907	0787
-	5287	d 32 - ER 20 GE / L 150	32	ER 20 1÷15	28	34	13	1215	4973	2907	0787

ACCESSORIES
p. 633 
p. 615 
p. 636 

STRAIGHT SHANK ER COLLET CHUCKS WITH STANDARD NUT





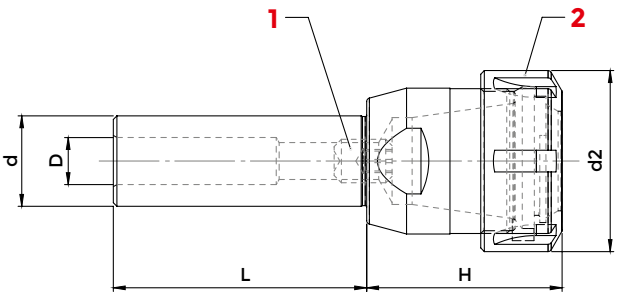
DIN 1835A

COD. (WITHOUT FLAT)	COD. (WITH FLAT)	DESCRIPTION	d	ER	H	d2	D	2 NUT	1 SCREW	WRENCH	COLLET
3915	-	d 14 - ER 16 / L 60	14	ER 16 1÷12	36	32	7	4993	0181	3698	0364
3916 SP	3916	d 16 - ER 16 / L 60	16	ER 16 1÷12	36	32	7	4993	0181	3698	0364
5009 SP	5009	d 16 - ER 16 / L 80	16	ER 16 1÷12	36	32	7	4993	0181	3698	0364
3185 SP	3185	d 16 - ER 16 / L 100	16	ER 16 1÷12	36	32	7	4993	0181	3698	0364
5087 SP	5087	d 16 - ER 16 / L 130	16	ER 16 1÷12	36	32	7	4993	0181	3698	0364
3206 SP	3206	d 16 - ER 16 / L 160	16	ER 16 1÷12	36	32	7	4993	0181	3698	0364
3529 SP	3529	d 16 - ER 20 / L 60	16	ER 20 1÷15	40	35	9	4994	0183	3699	0787
0573 SP	0573	d 16 - ER 25 / L 35	16	ER 25 1÷20	46	42	9	4995	0183	3669	0996
0574 SP	0574	d 16 - ER 25 / L 70	16	ER 25 1÷20	46	42	9	4995	0183	3669	0996
-	3929	d 19,05 - ER16 / L 50	19,05	ER 16 1÷12	32	32	11	4993	0186	3698	0364
-	0229	d 19,05 - ER16 / L 100	19,05	ER 16 1÷12	32	32	11	4993	0186	3698	0364
-	3930	d 19,05 - ER20 / L 50	19,05	ER 20 1÷15	36	35	11	4994	0186	3699	0787
-	2379	d 19,05 - ER25 / L 50	19,05	ER 25 1÷20	46	42	11	4995	0186	3669	0996
-	5096	d 19,05 - ER32 / L 50	19,05	ER 32 2÷25	54	50	13	4996	4973	3670	0988
3917 SP	3917	d 20 - ER 16 / L 50	20	ER 16 1÷12	31	32	11	4993	0186	3698	0364
3918 SP	3918	d 20 - ER 16 / L 100	20	ER 16 1÷12	31	32	11	4993	0186	3698	0364
5098 SP	5098	d 20 - ER 16 / L 130	20	ER 16 1÷12	31	32	11	4993	0186	3698	0364
3228 SP	3228	d 20 - ER 16 / L 160	20	ER 16 1÷12	31	32	11	4993	0186	3698	0364
5099 SP	5099	d 20 - ER 16 / L 200	20	ER 16 1÷12	31	32	11	4993	0186	3698	0364
3919 SP	3919	d 20 - ER 20 / L 46	20	ER 20 1÷15	36	35	11	4994	0186	3699	0787
3920 SP	3920	d 20 - ER 20 / L 60	20	ER 20 1÷15	36	35	11	4994	0186	3699	0787
0381 SP	0381	d 20 - ER 20 / L 100	20	ER 20 1÷15	36	35	11	4994	0186	3699	0787
5147 SP	5147	d 20 - ER 20 / L 130	20	ER 20 1÷15	36	35	11	4994	0186	3699	0787
5148 SP	5148	d 20 - ER 20 / L 160	20	ER 20 1÷15	36	35	11	4994	0186	3699	0787
5149 SP	5149	d 20 - ER 20 / L 200	20	ER 20 1÷15	36	35	11	4994	0186	3699	0787
2600 SP	2600	d 20 - ER 25 / L 50	20	ER 25 1÷20	46	42	11	4995	0186	3669	0996
3921 SP	3921	d 20 - ER 25 / L 100	20	ER 25 1÷20	46	42	11	4995	0186	3669	0996
3911 SP	3911	d 20 - ER 25 / L 160	20	ER 25 1÷20	46	42	11	4995	0186	3669	0996
3203 SP	3203	d 20 - ER 32 / L 50	20	ER 32 2÷25	54	50	13	4996	4973	3670	0988
3922 SP	3922	d 20 - ER 32 / L 100	20	ER 32 2÷25	54	50	13	4996	4973	3670	0988
3931 SP	3931	d 20 - ER 32 / L 130	20	ER 32 2÷25	54	50	13	4996	4973	3670	0988
3932 SP	3932	d 20 - ER 32 / L 160	20	ER 32 2÷25	54	50	13	4996	4973	3670	0988
-	0434	d 22 - ER 16 / L 80	22	ER 16 1÷12	26	32	11	4993	0186	3698	0364
-	0436	d 22 - ER 20 / L 80	22	ER 20 1÷15	36	35	11	4994	0186	3699	0787
-	3177	d 22 - ER 25 / L 50	22	ER 25 1÷20	42	42	13	4995	4973	3669	0996
-	3178	d 22 - ER 32 / L 50	22	ER 32 2÷25	53	50	13	4996	4973	3670	0988

follows >>

STRAIGHT SHANK ER COLLET CHUCKS WITH STANDARD NUT





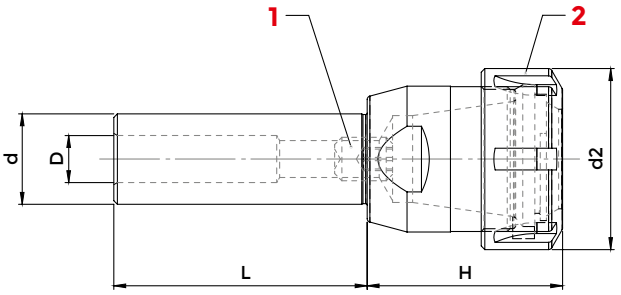
DIN 1835A

COD. (WITHOUT FLAT)	COD. (WITH FLAT)	DESCRIPTION	d	ER	H	d2	D	2 NUT	1 SCREW	WRENCH	COLLET
5163 SP	5163	d 25 - ER 16 / L 60	25	ER 16 1÷12	27	32	11	4993	0186	3698	0364
5164 SP	5164	d 25 - ER 16 / L 100	25	ER 16 1÷12	27	32	11	4993	0186	3698	0364
5165 SP	5165	d 25 - ER 16 / L 130	25	ER 16 1÷12	27	32	11	4993	0186	3698	0364
-	5166	d 25 - ER 16 / L 160	25	ER 16 1÷12	27	32	11	4993	0186	3698	0364
0230 SP	0230	d 25 - ER 20 / L 60	25	ER 20 1÷15	28	35	13	4994	4973	3699	0787
0383 SP	0383	d 25 - ER 20 / L 100	25	ER 20 1÷15	28	35	13	4994	4973	3699	0787
5168 SP	5168	d 25 - ER 20 / L 130	25	ER 20 1÷15	28	35	13	4994	4973	3699	0787
5169 SP	5169	d 25 - ER 20 / L 160	25	ER 20 1÷15	28	35	13	4994	4973	3699	0787
3923 SP	3923	d 25 - ER 25 / L 50	25	ER 25 1÷20	32	42	13	4995	4973	3669	0996
5183 SP	5183	d 25 - ER 25 / L 70	25	ER 25 1÷20	32	42	13	4995	4973	3669	0996
0391 SP	0391	d 25 - ER 25 / L 100	25	ER 25 1÷20	32	42	13	4995	4973	3669	0996
0392 SP	0392	d 25 - ER 25 / L 130	25	ER 25 1÷20	32	42	13	4995	4973	3669	0996
0393 SP	0393	d 25 - ER 25 / L 160	25	ER 25 1÷20	32	42	13	4995	4973	3669	0996
1216 SP	1216	d 25 - ER 32 / L 50	25	ER 32 2÷25	54	50	13	4996	4973	3670	0988
1221 SP	1221	d 25 - ER 32 / L 70	25	ER 32 2÷25	54	50	13	4996	4973	3670	0988
3924 SP	3924	d 25 - ER 32 / L 100	25	ER 32 2÷25	54	50	13	4996	4973	3670	0988
3927 SP	3927	d 25 - ER 32 / L 130	25	ER 32 2÷25	54	50	13	4996	4973	3670	0988
3928 SP	3928	d 25 - ER 32 / L 160	25	ER 32 2÷25	54	50	13	4996	4973	3670	0988
2901 SP	2901	d 25 - ER 40 / L 50	25	ER 40 3÷32	60	63	16	4997	4973	3671	0821
3266 SP	3266	d 25 - ER 40 / L 100	25	ER 40 3÷32	60	63	16	4997	4973	3671	0821
-	5184	d 25,4 - ER 16 / L 60	25,4	ER 16 1÷12	27	32	11	4993	0186	3698	0364
-	5185	d 25,4 - ER 16 / L 100	25,4	ER 16 1÷12	27	32	11	4993	0186	3698	0364
-	0296	d 25,4 - ER 20 / L 60	25,4	ER 20 1÷15	28	35	13	4994	4973	3699	0787
-	0386	d 25,4 - ER 20 / L 100	25,4	ER 20 1÷15	28	35	13	4994	4973	3699	0787
-	3933	d 25,4 - ER 25 / L 50	25,4	ER 25 1÷20	32	42	13	4995	4973	3669	0996
-	5186	d 25,4 - ER 25 / L 70	25,4	ER 25 1÷20	32	42	13	4995	4973	3669	0996
-	3934	d 25,4 - ER 25 / L 100	25,4	ER 25 1÷20	32	42	13	4995	4973	3669	0996
-	1217	d 25,4 - ER 32 / L 50	25,4	ER 32 2÷25	54	50	16	4996	4973	3670	0988
-	5187	d 25,4 - ER 32 / L 70	25,4	ER 32 2÷25	54	50	16	4996	4973	3670	0988
-	3935	d 25,4 - ER 32 / L 100	25,4	ER 32 2÷25	54	50	16	4996	4973	3670	0988
-	1917	d 25,4 - ER 40 / L 50	25,4	ER 40 3÷32	54	50	16	4997	4973	3671	0821
-	3925	d 30 - ER 25 / L 50	30	ER 25 1÷20	45	42	19	4995	0190	3669	0996
-	2593	d 30 - ER 32 / L 50	30	ER 32 2÷25	53	50	23	4996	0191	3670	0988
-	1218	d 31,75 - ER32 / L 50	31,75	ER 32 2÷25	44	50	23	4996	0191	3670	0988
-	3938	d 31,75 - ER40 / L 50	31,75	ER 40 3÷32	60	63	23	4997	0191	3671	0821
-	5188	d 32 - ER 16 / L 100	32	ER 16 1÷12	27	32	11	4993	0186	3698	0364
-	5189	d 32 - ER 16 / L 150	32	ER 16 1÷12	27	32	11	4993	0186	3698	0364

follows >>

STRAIGHT SHANK ER COLLET CHUCKS WITH STANDARD NUT





DIN 1835A

								2	1		
COD. (WITHOUT FLAT)	COD. (WITH FLAT)	DESCRIPTION	d	ER	H	d2	D	NUT	SCREW	WRENCH	COLLET
-	5190	d 32 - ER 20 / L 100	32	ER 20 1÷15	28	35	13	4994	4973	3699	0787
-	5191	d 32 - ER 20 / L 150	32	ER 20 1÷15	28	35	13	4994	4973	3699	0787
-	0307	d 32 - ER 25 / L 70	32	ER 25 1÷20	28	42	19	4995	0190	3669	0996
-	5192	d 32 - ER 25 / L 100	32	ER 25 1÷20	28	42	19	4995	0190	3669	0996
-	0309	d 32 - ER 25 / L 120	32	ER 25 1÷20	28	42	19	4995	0190	3669	0996
-	1424	d 32 - ER 32 / L 50	32	ER 32 2÷25	38	50	23	4996	0191	3670	0988
-	3181	d 32 - ER 32 / L 70	32	ER 32 2÷25	38	50	23	4996	0191	3670	0988
-	0402	d 32 - ER 32 / L 100	32	ER 32 2÷25	38	50	23	4996	0191	3670	0988
-	0450	d 32 - ER 32 / L 120	32	ER 32 2÷25	38	50	23	4996	0191	3670	0988
-	3398	d 32 - ER 32 / L 150	32	ER 32 2÷25	38	50	23	4996	0191	3670	0988
-	0405	d 32 - ER 40 / L 70	32	ER 40 3÷32	60	63	23	4997	0191	3671	0821
-	5194	d 32 - ER 40 / L 100	32	ER 40 3÷32	60	63	23	4997	0191	3671	0821
-	5195	d 32 - ER 40 / L 130	32	ER 40 3÷32	60	63	23	4997	0191	3671	0821
-	5196	d 35 - ER 32 / L 80	35	ER 32 2÷25	38	50	23	4996	0191	3670	0988
-	3405	d 40 - ER 25 / L 70	40	ER 25 1÷20	42	42	19	4995	0190	3669	0996
-	3406	d 40 - ER 25 / L 120	40	ER 25 1÷20	42	42	19	4995	0190	3669	0996
-	3204	d 40 - ER 32 / L 70	40	ER 32 2÷25	30	50	23	4996	0191	3670	0988
-	3356	d 40 - ER 32 / L 100	40	ER 32 2÷25	30	50	23	4996	0191	3670	0988
-	3399	d 40 - ER 32 / L 130	40	ER 32 2÷25	30	50	23	4996	0191	3670	0988
-	3357	d 40 - ER 32 / L 160	40	ER 32 2÷25	30	50	23	4996	0191	3670	0988
-	3205	d 40 - ER 40 / L 50	40	ER 40 3÷32	60	63	28	4997	0195	3671	0821
-	0406	d 40 - ER 40 / L 80	40	ER 40 3÷32	60	63	28	4997	0195	3671	0821
-	3942	d 40 - ER 40 / L 130	40	ER 40 3÷32	60	63	28	4997	0195	3671	0821
-	3424	d 44,45 - ER32 / L 160	44,45	ER 32 2÷25	33	50	23	4996	0191	3670	0988
-	3428	d 44,45 - ER40 / L 160	44,45	ER 40 3÷32	40	63	28	4997	0195	3671	0821
-	3409	d 50 - ER 32 / L 125	50	ER 32 2÷25	32	50	23	4996	0191	3670	0988
-	3519	d 50 - ER 32 / L 160	50	ER 32 2÷25	32	50	23	4996	0191	3670	0988
-	5197	d 50 - ER 40 / L 125	50	ER 40 3÷32	37	63	28	4997	0195	3671	0821
-	3412	d 50 - ER 40 / L 160	50	ER 40 3÷32	37	63	28	4997	0195	3671	0821
-	3422	d 50,8 - ER 32 / L 160	50,8	ER 32 2÷25	32	50	23	4996	0191	3670	0988
-	3426	d 50,8 - ER 40 / L 160	50,8	ER 40 3÷32	37	63	28	4997	0195	3671	0821
-	3514	d 60 - ER 32 / L 160	60	ER 32 2÷25	32	50	23	4996	0191	3670	0988
-	3515	d 60 - ER 40 / L 160	60	ER 40 3÷32	37	63	28	4997	0195	3671	0821

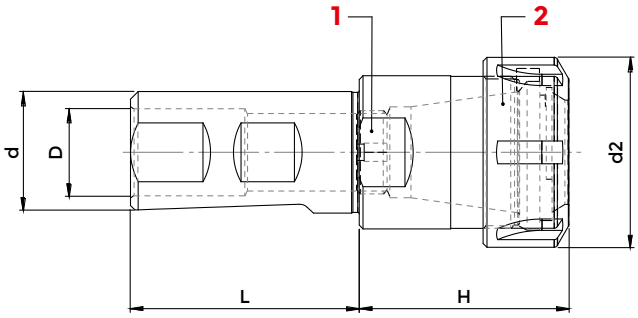
ACCESSORIES
p. 633

p. 615

p. 636


WELDON SHANK ER COLLET CHUCKS WITH STANDARD NUT





DIN 1835 B+E

COD.	DESCRIPTION	d	H	L	d2	D	ER	2 NUT	1 SCREW	WRENCH	COLLET
3313	WE 20 - ER 32 / H 55	20	55	50	50	11	ER 32 2÷25	1215	4973	2907	0787
3314	WE 20 - ER 32 / H 100	20	100	50	50	11	ER 32 2÷25	1215	4973	2907	0787
3320	WE 25 - ER 32 / H 55	25	55	56	50	13	ER 32 2÷25	1215	4973	2907	0787
3321	WE 25 - ER 32 / H 100	25	100	56	50	13	ER 32 2÷25	1215	4973	2907	0787
3323	WE 32 - ER 32 / H 55	32	55	60	50	23	ER 32 2÷25	1214	0186	2906	0364
3324	WE 32 - ER 32 / H 100	32	100	60	50	23	ER 32 2÷25	1214	0186	2906	0364

ACCESSORIES

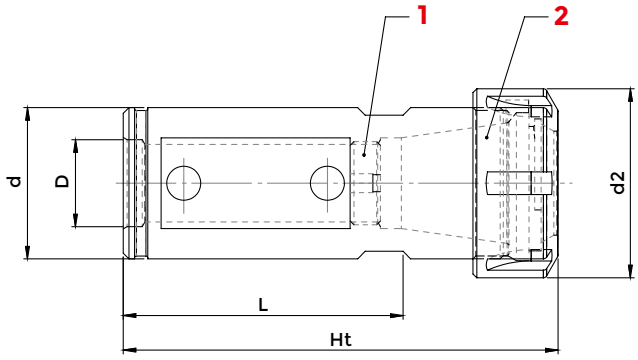
p. 633

p. 615

p. 636


STRAIGHT SHANK ER COLLET CHUCKS WITH COOLING HOLES - STANDARD NUT





DIN 1835 A

COD.	DESCRIPTION	d	H	L	d2	D	ER	2 NUT	1 SCREW	WRENCH	COLLET
3408	d 32 NC - ER 25	32	42	110	70	19	ER 25 1÷20	4995	0190	3669	0996
3401	d 32 NC - ER 32	32	50	118	70	23	ER 32 2÷25	4996	0191	3670	0988
3402	d 40 NC - ER 32	40	50	115	75	23	ER 32 2÷25	4996	0191	3670	0988
3404	d 40 NC - ER 40	40	63	130	75	23	ER 40 3÷32	4997	0191	3671	0821

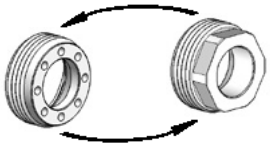
ACCESSORIES

p. 633

p. 615

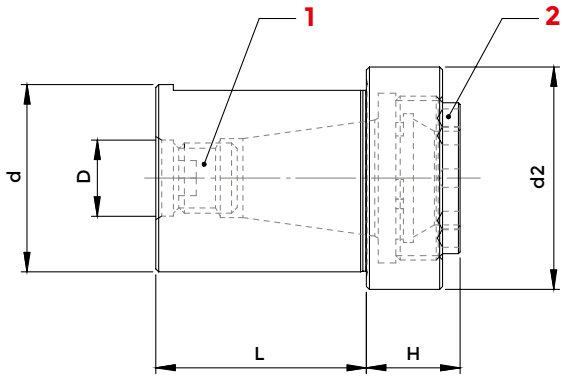
p. 636


STRAIGHT SHANK ER COLLET CHUCKS WITH INNER NUT



Nut "**GA**" type can be replaced by nut "**GA-E**" type (p. 635) with hexagonal wrench hold.





DIN 1835 A

								2	1		
COD.	DESCRIPTION	d	ER	H	L	d2	D	NUT	SCREW	WRENCH	COLLET
											
2939	d 20 - ER 16 GA	20	ER 16 1÷12	14	34	32	11	2868	0060	3170	0364
3200	d 25 - ER 20 GA	25	ER 20 1÷15	18	34	38	13	2869	0200	3171	0787
2940	d 32 - ER 20 GA	32	ER 20 1÷15	16	36	38	13	2869	0200	3171	0787
2942	d 32 - ER 25 GA	32	ER 25 1÷20	19	36	40	19	2870	0190	3172	0996
2943	d 40 - ER 32 GA	40	ER 32 2÷25	21	45	48	23	2871	0191	3173	0998

ACCESSORIES

p. 634



p. 615



p. 634

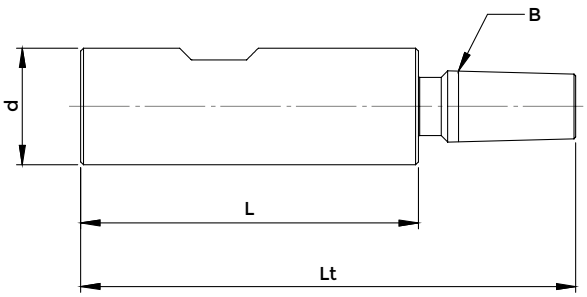


SHANKS FOR KEYLESS DRILL CHUCKS



DIN 238 shank keyless drill chucks you can find at p. 599



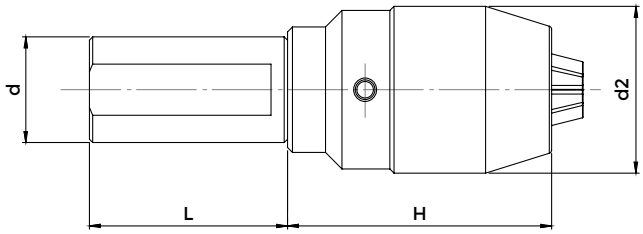


DIN 238

COD.	DESCRIPTION	d	B	L	Lt
402308B10	d 8 - B 10	8	10	35	55
402310B10	d 10 - B 10	10	10	50	70
402310B12	d 10 - B 12	10	12	50	75
402310B16	d 10 - B 16	10	16	50	82
402312B16	d 12 - B 16	12	16	50	82
402312B16L	d 12 - B 16	12	16	60	92
402316B16	d 16 - B 16	16	16	50	81
402316B16L	d 16 - B 16	16	16	70	101
402320B12	d 20 - B 12	20	12	60	85
402320B16	d 20 - B 16	20	16	60	92
402320B18	d 20 - B 18	20	18	60	100
402325B16	d 25 - B 16	25	16	75	107

STRAIGHT SHANK DRILL CHUCKS - RIGHT SPIN





DIN 1835 A

COD.	DESCRIPTION	d	ER	H	L	d2	CLAMPS	SCREW	WRENCH
									
*1419	d 20 - DC 13	20	0,5 ÷ 13	50	80	60	9016	9021	2370
1422	d 25 - DC 13	25	0,5 ÷ 13	50	80	80	9016	9021	2370
1425	d 32 - DC 13	32	0,5 ÷ 13	50	80	60	9016	9021	2370
1426	d 32 - DC 16	32	3 ÷ 16	57	85	60	9017	9023	2371
1427	d 40 - DC 13	40	0,5 ÷ 13	50	80	70	9016	9021	2370
1428	d 40 - DC 16	40	3 ÷ 16	57	85	70	9017	9023	2371

*Supplied only with cylindrical connection WITHOUT FLAT
Supplied complete with suitable wrench

STRAIGHT SHANK DRILL CHUCKS - LEFT & RIGHT SPIN

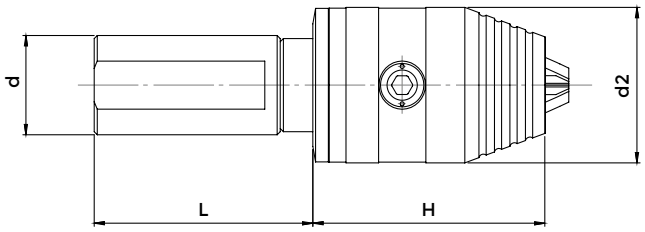


Straight shank adapters to DIN238 you can find at p. 575



DIN 238 shank keyless drill chucks you can find at p. 599





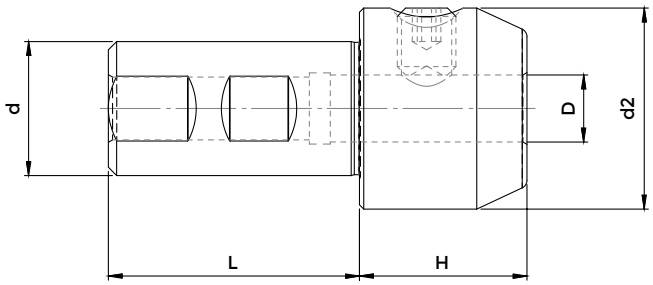
DIN 1835 A

COD.	DESCRIPTION	d	ER	H	L	d2	CLAMPS	SCREW	WRENCH
									
8607	d 25 - DCU13	25	0,5 ÷ 13	50	85	70	9016	9021	2372
8608	d 25 - DCU16	25	3 ÷ 16	50	89	70	9016	9021	2372
8609	d 32 - DCU13	32	0,5 ÷ 13	50	85	60	9016	9021	2372
8610	d 32 - DCU16	32	3 ÷ 16	57	89	60	9017	9023	2372
8611	d 40 - DCU13	40	0,5 ÷ 13	50	85	70	9016	9021	2372
8612	d 40 - DCU16	40	3 ÷ 16	57	89	70	9017	9023	2372

Supplied complete with suitable wrench

CYLINDRICAL SHANK WELDON REDUCTION SLEEVES



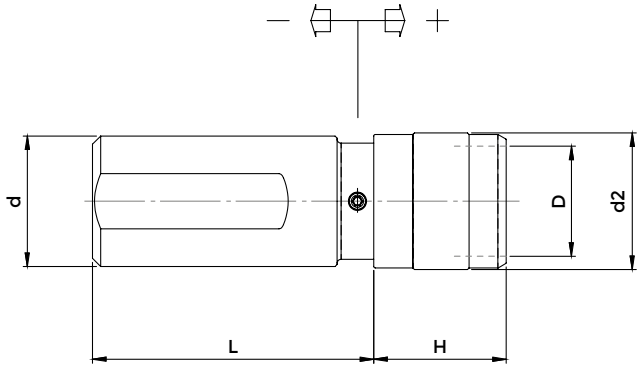


DIN 1835 B

COD.	DESCRIPTION	d	D	H	L	d2	SCREW
3044	WE 20 - d 6	20	6	30	50	25	4970
3046	WE 20 - d 8	20	8	30	50	28	4971
3064	WE 20 - d 10	20	10	30	50	35	4972
3065	WE 20 - d 12	20	12	35	50	42	4973
4518	WE 20 - d 14	20	14	35	50	44	4973
3066	WE 20 - d 16	20	16	60	50	48	4974
3121	WE 25 - d 6	25	6	25	56	25	4970
3122	WE 25 - d 8	25	8	30	56	28	4971
3123	WE 25 - d 10	25	10	30	56	35	4972
3124	WE 25 - d 12	25	12	35	56	42	4973
4519	WE 25 - d 14	25	14	35	56	44	4973
3125	WE 25 - d 16	25	16	40	56	48	4974
3760	WE 32 - d 6	32	6	30	60	25	4970
3761	WE 32 - d 8	32	8	30	60	28	4971
3762	WE 32 - d 10	32	10	30	60	35	4972
3763	WE 32 - d 12	32	12	35	60	42	4973
4520	WE 32 - d 14	32	14	35	60	44	4973
3764	WE 32 - d 16	32	16	40	60	48	4974
4521	WE 32 - d 18	32	18	40	60	50	4974
3765	WE 32 - d 20	32	20	40	60	52	4975
3126	WE 32 - d 25	32	25	65	60	65	4976

STRAIGHT SHANK TAPPING CILINDRIC CHUCKS - TENSION/COMPRESSION



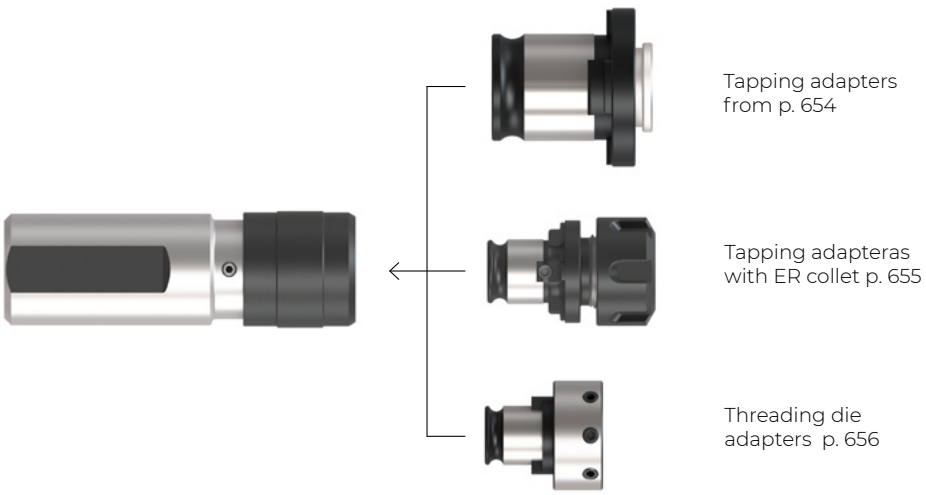


DIN 1835 A

COD.	DESCRIPTION	d	H	L	d2	D	RANGE	TAP SIZE RANGE
3807	d 16 - B. 0	16	37	56	26	13	- 6,5 + 6,5	M 1 ÷ M 10
3808	d 16 - B. 1	16	39	56	36	19	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
3809	d 20 - B. 0	20	37	56	26	13	- 6,5 + 6,5	M 1 ÷ M 10
3851	d 20 - B. 1	20	40	50	38	19	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
3852	d 20 - B. 2	20	63	50	53	31	-12,5 + 12,5	M 6 ÷ M 20 (* M 30)
4451	d 25 - B. 1	25	40	53	38	19	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
4452	d 25 - B. 2	25	63	53	53	31	-12,5 + 12,5	M 6 ÷ M 20 (* M 30)
4453	d 32 - B. 1	32	40	60	38	19	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
4454	d 32 - B. 2	32	63	77	53	31	-12,5 + 12,5	M 6 ÷ M 20 (* M 30)
4486	d 32 - B. 3	32	98	100	79	48	-20,0 + 20,0	M 14 ÷ M 33 (* M 48)
4455	d 40 - B. 1	40	40	58	38	19	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
4456	d 40 - B. 2	40	63	77	53	31	-12,5 + 12,5	M 6 ÷ M 20 (* M 30)
4487	d 40 - B. 3	40	98	100	79	48	-20,0 + 20,0	M 14 ÷ M 33 (* M 48)

*Adapters with SCREWS

BORING BAR SLEEVE



Tapping adapters
from p. 654

Tapping adapteras
with ER collet p. 655

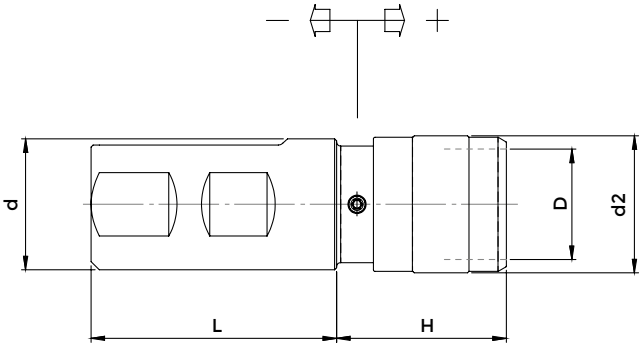
Threading die
adapters p. 656

WELDON STRAIGHT SHANK TAPPING CHUCKS - TENSION/COMPRESSION





Tapping adapters
from p. 654



DIN 1835 B+E

COD.	DESCRIPTION	d	H	L	d2	D	RANGE	TAP SIZE RANGE
3127	WE 20 - B. 0	20	37	50	26	13	- 6,5 + 6,5	M 1 ÷ M 10
3176	WE 20 - B. 1	20	40	50	38	19	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
3179	WE 20 - B. 2	20	63	50	53	31	-12,5 + 12,5	M 6 ÷ M 20 (* M 30)
3963	WE 25 - B. 1	25	40	53	38	19	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
3964	WE 25 - B. 2	25	63	53	53	31	-12,5 + 12,5	M 6 ÷ M 20 (* M 30)
3853	WE 32 - B. 1	32	40	60	38	19	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
3854	WE 32 - B. 2	32	63	60	53	31	-12,5 + 12,5	M 6 ÷ M 20 (* M 30)
3598	WE 32 - B. 3	32	120	60	79	48	-20,0 + 20,0	M 14 ÷ M 33 (* M 48)
3855	WE 40 - B. 1	40	40	72	38	19	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
3856	WE 40 - B. 2	40	63	72	55	31	-12,5 + 12,5	M 6 ÷ M 20 (* M 30)
3857	WE 40 - B. 3	40	98	72	79	48	-20,0 + 20,0	M 14 ÷ M 33 (* M 48)

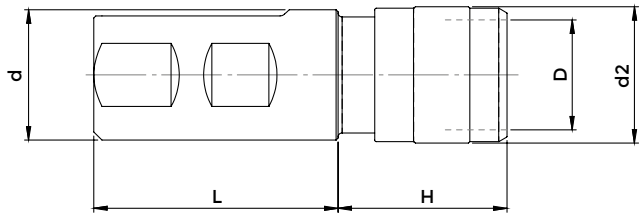
*Adapters with SCREWS

WELDON STRAIGHT SHANK TAPPING CHUCKS - WITHOUT TENSION/COMPRESSION





Tapping adapters
from p. 654



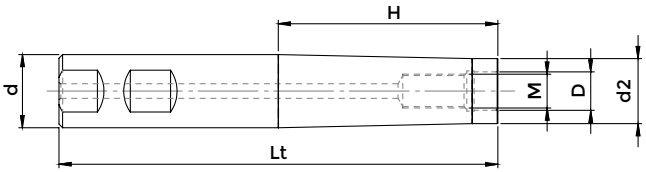
DIN 1835 B+E

COD.	DESCRIPTION	d	H	L	d2	D	TAP SIZE RANGE
2059	WE 20 - B. 1 FISSO	20	40	50	33	19	M 3 ÷ M 12 (* M 18)
2060	WE 20 - B. 2 FISSO	20	60	50	50	31	M 6 ÷ M 20 (* M 30)
2061	WE 25 - B. 1 FISSO	25	40	56	33	19	M 3 ÷ M 12 (* M 18)
2062	WE 25 - B. 2 FISSO	25	60	56	50	31	M 6 ÷ M 20 (* M 30)
2067	WE 32 - B. 1 FISSO	32	40	60	33	19	M 3 ÷ M 12 (* M 18)
2068	WE 32 - B. 2 FISSO	32	60	60	50	31	M 6 ÷ M 20 (* M 30)
2080	WE 40 - B. 1 FISSO	40	40	72	33	19	M 3 ÷ M 12 (* M 18)
2081	WE 40 - B. 2 FISSO	40	60	72	50	31	M 6 ÷ M 20 (* M 30)

*Adapters with SCREWS

DIN 1835 B SHANKS FOR MILLING CUTTERS WITH THREADED SHANK



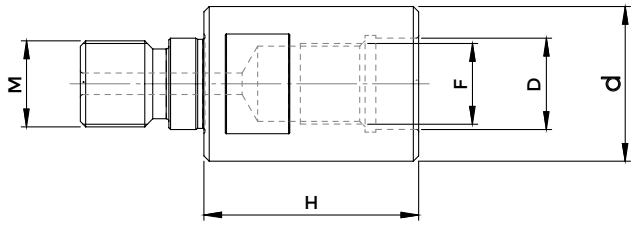


DIN 1835 B

COD.	DESCRIPTION	d	M	D	d2	H	Lt
6480	WE 16 - M 8	16	M8	8,5	12,8	60	115
6481	WE 16 - M 8	16	M8	8,5	12,8	100	160
6482	WE 20 - M 10	20	M10	10,5	17,8	60	120
6483	WE 20 - M 10	20	M10	10,5	17,8	100	160
6484	WE 25 - M 12	25	M12	12,5	20,8	100	160
6485	WE 32 - M 16	32	M16	17	28,8	100	160

EXTENSIONS FOR MILLING CUTTERS WITH THREADED SHANK

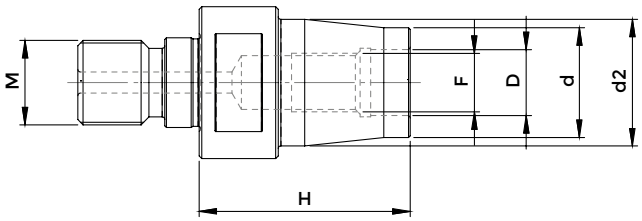




COD.	DESCRIPTION	M	F	D	d	H
6486	M 8 - M 8	M8	M8	8,5	12,8	30
6487	M 10 - M 10	M10	M10	10,5	17,8	35
6488	M 12 - M 12	M12	M12	12,5	20,8	40
6489	M 16 - M 16	M16	M16	17	28,8	40

REDUCTIONS FOR MILLING CUTTERS WITH THREADED SHANK

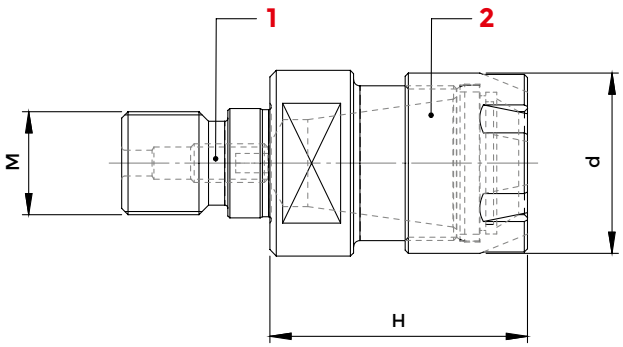




COD.	DESCRIPTION	M	F	D	d	d2	H
6490	M 10 - M 8	M10	M8	8,5	12,8	17,8	30
6491	M 12 - M 8	M12	M8	8,5	12,8	20,8	40
6492	M 12 - M 10	M12	M10	10,5	17,8	20,8	35
6493	M 16 - M 10	M16	M10	10,5	17,8	28,8	60
6494	M 16 - M 12	M16	M12	12,5	20,8	28,8	40

ER COLLET CHUCKS WITH THREADED SHANK

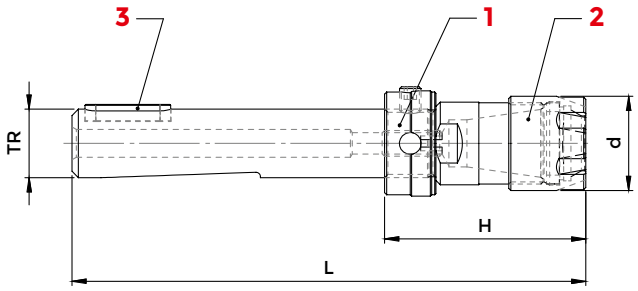




						2	1		
COD.	DESCRIPTION	M	ER	d	H	NUT	SCREW	WRENCH	COLLET
									
6460	M 12 - ER 16 GM	M12	ER 16 1÷12	22	35	1229	0371	5719	0364
6461	M 16 - ER 16 GM	M16	ER 16 1÷12	22	40	1229	0371	5719	0364
6462	M 16 - ER 20 GM	M16	ER 20 1÷15	28	40	1230	0371	5720	0787
6463	M 16 - ER 25 GM	M16	ER 25 1÷20	35	45	1231	0371	5721	0996

TRAPEZOIDAL SHANK ER COLLET CHUCKS WITH MINI NUT





DIN 6327

							1	3	2		
COD.	DESCRIPTION	TR	ER	L	H	d	ADJUSTMENT NUT	KEY	NUT	WRENCH	COLLET
											
* 3146	TR 8 - ER 8 GM	8x1	ER 8 1÷ 5	75	35	12	2964	0101	0373	5717	0554
3147	TR10 - ER 11 GM	10x1,5	ER 11 1÷ 8	95	45	16	2965	0103	0432	5718	5573
3148	TR12 - ER 11 GM	12x1,5	ER 11 1÷ 8	95	45	16	2966	0103	0432	5718	5573
3149	TR12 - ER 16 GM	12x1,5	ER 16 1÷12	103	53	22	2966	0103	1229	5719	0364
3150	TR16 - ER 16 GM	16x1,5	ER 16 1÷12	120	47	22	2967	0107	1229	5719	0364
3151	TR16 - ER 20 GM	16x2	ER 20 1÷15	130	57	28	2967	0107	1230	5720	0787
3153	TR20 - ER 16 GM	20x2	ER 16 1÷12	135	59	22	2968	0107	1229	5719	0364
3154	TR20 - ER 20 GM	20x2	ER 20 1÷15	135	59	28	2968	0107	1230	5720	0787
3155	TR20 - ER 25 GM	20x2	ER 25 1÷20	135	59	35	2968	0107	1231	5721	0996

Supplied complete with adjustment nut
*Woodruff Key

ACCESSORIES

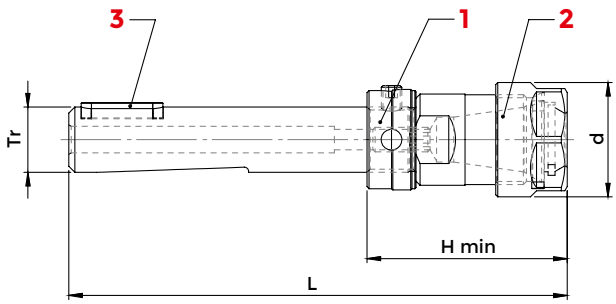
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TRAPEZOIDAL SHANK ER COLLET CHUCKS WITH EXAGONAL NUT





DIN 6327

							1	3	2		
COD.	DESCRIPTION	TR	ER	L	H MIN	d	ADJUSTMENT NUT	KEY	NUT	WRENCH	COLLET
											
3137	TR 16 - ER11 GE	16x1,5	ER 11 1÷ 8	110	37	19	2967	0107	1157	2905	5573
3138	TR 16 - ER16 GE	16x1,5	ER 16 1÷12	122	49	28	2967	0107	1214	2906	0364
3139	TR 20 - ER16 GE	20x2	ER 16 1÷12	128	52	28	2968	0107	1214	2906	0364
3140	TR 20 - ER20 GE	20x2	ER 20 1÷15	135	59	34	2968	0107	1215	2907	0787
3141	TR 28 - ER20 GE	28x2	ER 20 1÷15	140	57	34	2969	0108	1215	2907	0787

Supplied complete with adjustment nut

ACCESSORIES

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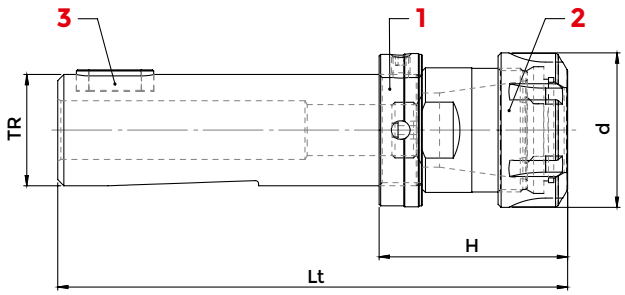


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TRAPEZOIDAL SHANK ER COLLET CHUCKS WITH STANDARD NUT





DIN 6327

							1	3	2		
COD.	DESCRIPTION	TR	ER	L	H	d	ADJUSTMENT NUT	KEY	NUT	WRENCH	COLLET
											
3142	TR 28 - ER 25	28x2	ER 25 1÷20	140	57	42	2969	108	4995	3669	0996
3143	TR 28 - ER 32	28x2	ER 32 2÷25	147	64	50	2969	108	4996	3670	0988
3162	TR 28 - ER 40	28x2	ER 40 3÷32	190	107	63	2969	108	4997	3671	0821
3973	TR 36 - ER 25	36x2	ER 25 1÷20	163	57	42	2970	111	4995	3669	0996
3144	TR 36 - ER 32	36x2	ER 32 2÷25	165	61	50	2970	111	4996	3670	0988
3145	TR 36 - ER 40	36x2	ER 40 3÷32	186	82	63	2970	111	4997	3671	0821
3667	TR 48 - ER 32	48x2	ER 32 2÷25	200	74	50	2971	114	4996	3670	0988

Supplied complete with adjustment nut

ACCESSORIES

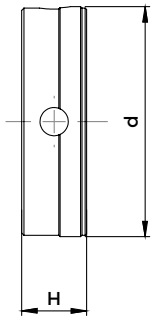

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DIN 6327 ADJUSTMENT NUTS



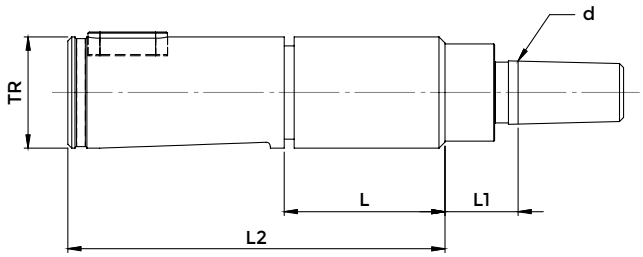


DIN 6327

COD.	DESCRIPTION	TR	H	d	SCREW
2964	GH - TR 8 x 1	8x1	10	14,8	0011
2965	GH - TR10 x1,5	10x1,5	12	17,8	0017
2966	GH - TR12 x1,5	12x1,5	12	19,7	0017
2967	GH - TR16 x1,5	16x1,5	12	24,6	0019
2968	GH - TR20 x 2	20x2	12	31,6	0019
2969	GH - TR28 x 2	28x2	12	39,6	0020
2970	GH - TR36 x 2	36x2	14	49,6	0020
2971	GH - TR48 x 2	48x2	18	66,6	0021

SHANKS FOR DRILL CHUCKS DIN 238 / ISO 239 TYPE





DIN 6327

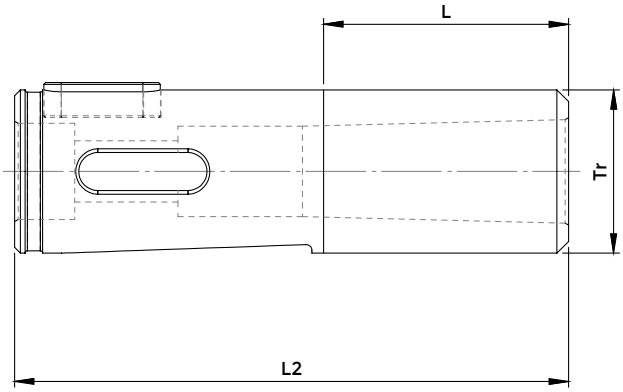
COD.	DESCRIPTION	TR	L	L1	L2	d	ADJUSTMENT NUT
2774	TR 28 - B 16	28x2	42	21	95	15,733	2969
2775	TR 36 - B 16	36x2	50	21	118	15,733	2970

ACCESSORIES
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DIN 6327 ADJUSTABLE MORSE TAPER ADAPTERS - "E" TYPE





DIN 6327

COD.	DESCRIPTION	TR	L	L2	ADJUSTMENT NUT
2984	E 16 x 1	16	40	85	2967
2985	E 20 x 1	20	40	88	2968
2986	E 28 x 1	28	42	95	2969
3167	E 28 x 2	28	42	95	2969
3168	E 36 x 2	36	50	118	2970
3410	E 36 x 3	36	50	118	2970
3198	E 48 x 2	48	65	144	2971

ACCESSORIES

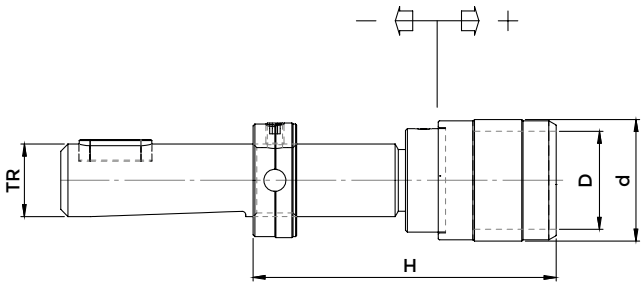


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TENSION/COMPRESSION QUICK CHANGE TAPPING HEADS







Tapping adapters
from p. 654

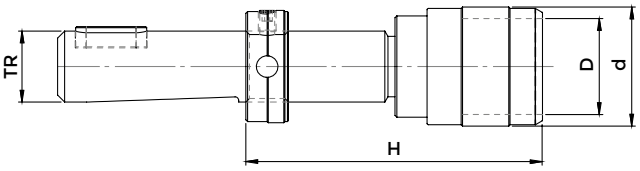
DIN 6327

COD.	DESCRIPTION	TR	H	d	D	RANGE	TAP SIZE RANGE
3811	TR 16 - B. 0	16x2	49	26	13	- 6,5 + 6,5	M 1 ÷ M 10
3564	TR 16 - B. 1	16x2	51	36	19	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
3156	TR 20 - B. 0	20x2	49	26	13	- 6,5 + 6,5	M 1 ÷ M 10
3565	TR 20 - B. 1	20x2	51	38	19	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
3926	TR 20 - B. 2	20x2	75	55	31	-12,5 + 12,5	M 6 ÷ M 20 (* M 30)
3566	TR 28 - B. 1	28x2	51	38	19	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
3567	TR 28 - B. 2	28x2	76	55	31	-12,5 + 12,5	M 6 ÷ M 20 (* M 30)
3220	TR 28 - B. 3	28x2	108	79	48	-20,0 + 20,0	M14 ÷ M 33 (* M 48)
3568	TR 36 - B. 1	36x2	53	38	19	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
3569	TR 36 - B. 2	36x2	78	55	31	-12,5 + 12,5	M 6 ÷ M 20 (* M 30)
3570	TR 36 - B. 3	36x2	110	79	48	-20,0 + 20,0	M14 ÷ M 33 (* M 48)
3571	TR 48 - B. 3	48x2	114	79	48	-20,0 + 20,0	M14 ÷ M 33 (* M 48)

*Adapters with SCREWS
Supplied complete with adjustment nut

SOLID TAPPING HEADS







Tapping adapters
from p. 654

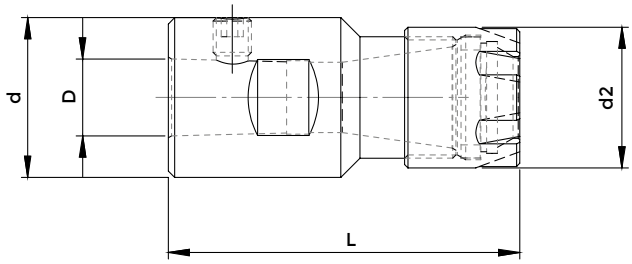
DIN 6327

COD.	DESCRIPTION	TR	H	d	D	TAP SIZE RANGE
5198	TR 16 - B. 0 FISSO	16x2	45	23	13	M 1 ÷ M 10
5199	TR 16 - B. 1 FISSO	16x2	49	32	19	M 3 ÷ M 12 (* M 18)
5211	TR 20 - B. 1 FISSO	20x2	49	32	19	M 3 ÷ M 12 (* M 18)
5212	TR 20 - B. 2 FISSO	20x2	66	50	31	M 6 ÷ M 20 (* M 30)
5213	TR 28 - B. 1 FISSO	28x2	49	32	19	M 3 ÷ M 12 (* M 18)
5214	TR 28 - B. 2 FISSO	28x2	66	50	31	M 6 ÷ M 20 (* M 30)
5215	TR 36 - B. 1 FISSO	36x2	49	32	19	M 3 ÷ M 12 (* M 18)
5216	TR 36 - B. 2 FISSO	36x2	68	50	31	M 6 ÷ M 20 (* M 30)

Supplied complete with adjustment nut

ER COLLET CHUCKS WITH MINI NUT





DIN 238

COD.	DESCRIPTION	d	ER	L	d2	d	NUT	WRENCH	COLLET
3193	"B12" - ER 11 GM	25	ER 11 1÷ 8	63	12,06	16	0432	5718	5573
3194	"B12" - ER 16 GM	25	ER 16 1÷12	55	12,06	22	1229	5719	0364
3221	"B12" - ER 20 GM	25	ER 20 1÷15	67	12,06	28	1230	5720	0787
3195	"B16" - ER 16 GM	25	ER 16 1÷12	85	15,73	22	1229	5719	0364
3196	"B16" - ER 20 GM	25	ER 20 1÷15	80	15,73	28	1230	5720	0787
3197	"B18" - ER 20 GM	28	ER 20 1÷15	74	17,78	28	1230	5720	0787

ACCESSORIES

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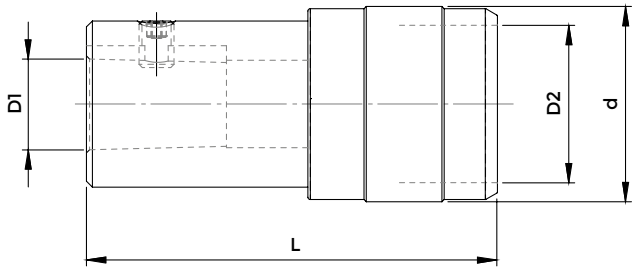


SOLID TAPPING HEADS





Tapping adapters
from p. 654

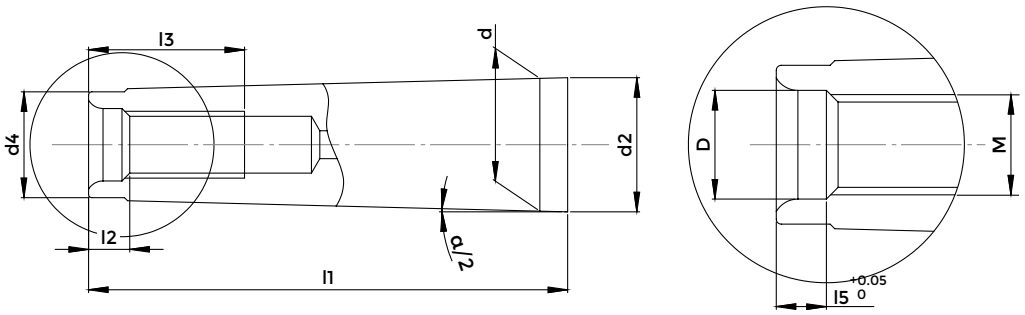


DIN 238

COD.	DESCRIPTION	L	D1	d	D2	TAP SIZE RANGE
0244	"B 12" - B. 0 FISSO	55	12,06	26	13	M 1 ÷ M 10
0320	"B 12" - B. 1 FISSO	59	12,06	33	19	M 3 ÷ M 12 (* M 18)
0340	"B 16" - B. 1 FISSO	65	15,73	33	19	M 3 ÷ M 12 (* M 18)
0071	"B 16" - B. 2 FISSO	84	15,73	50	31	M 6 ÷ M 20 (* M 30)
0384	"B 18" - B. 1 FISSO	73	17,78	33	19	M 3 ÷ M 12 (* M 18)
0072	"B 18" - B. 2 FISSO	92	17,78	50	31	M 6 ÷ M 20 (* M 30)

*Adapters with SCREWS

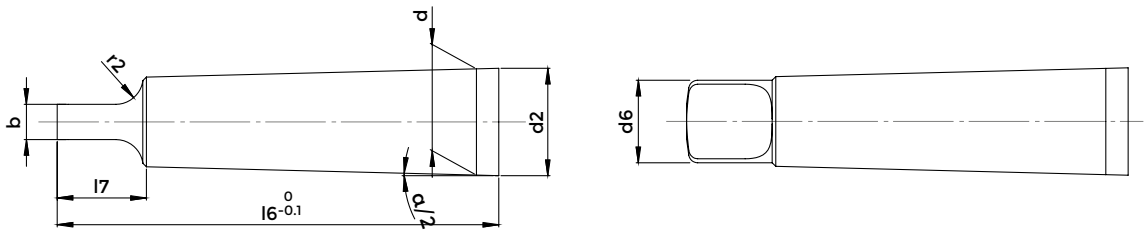
MORSE TAPER DIN 228-A
STANDARD FEATURES (WITH THREAD)



DIN 288-A

CONE	d	d2	d4	D	M	l1	l2	l3	l5	α/2
CM 0	9,045	9,2	6	-	-	50	4	-	-	1° 29' 27"
CM 1	12,065	12,2	9	6,4	M 6	53,5	5	16	4	1° 25' 43"
CM 2	17,78	18	14	10,5	M 10	64	5	24	5	1° 25' 50"
CM 3	23,825	24,1	19	13	M 12	81	7	24	5,5	1° 26' 16"
CM 4	31,267	31,6	25	17	M 16	102,5	9	32	8,2	1° 29' 15"
CM 5	44,399	44,7	35,7	21	M 20	129,5	10	40	10	1° 30' 26"
CM 6	63,348	63,8	51	25	M 24	182	16	47	11,5	1° 29' 36"

MORSE TAPER DIN 228-B
STANDARD FEATURES (WITH TENON)

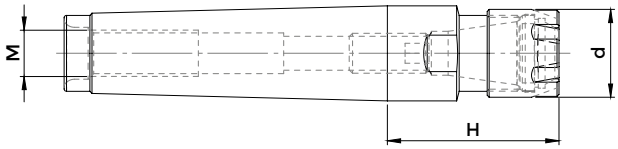


DIN 288-A

CONE	b	d	d2	d6	l6	l7	r2	α/2
CM 0	3,9	9,045	9,2	6	56,5	10,5	4	1° 29' 27"
CM 1	5,2	12,065	12,2	8,7	62	13,5	5	1° 25' 43"
CM 2	6,3	17,78	18	13,5	75	16	6	1° 25' 50"
CM 3	7,9	23,825	24,1	18,5	94	20	7	1° 26' 16"
CM 4	11,9	31,267	31,6	24,5	117,5	24	8	1° 29' 15"
CM 5	15,9	44,399	44,7	35,7	149,5	29	10	1° 30' 26"
CM 6	19	63,348	63,8	51	210	40	13	1° 29' 36"

MORSE TAPER SHANK ER COLLET CHUCKS WITH THREAD - MINI NUT





DIN 228-A

COD.	DESCRIPTION	CM	ER	H	d	M	NUT	WRENCH	COLLET
3509	CM 1 A - ER 11 GM	1	ER 11 1÷ 8	25	16	M 6	0432	5718	5573
3510	CM 1 A - ER 16 GM	1	ER 16 1÷ 12	40	22	M 6	1229	5719	0364
3511	CM 2 A - ER 16 GM	2	ER 16 1÷ 12	42	22	M 10	1229	5719	0364
3512	CM 2 A - ER 20 GM	2	ER 20 1÷ 15	50	28	M 10	1230	5720	0787
3513	CM 2 A - ER 25 GM	2	ER 25 1÷ 20	54	35	M 10	1231	5721	0996
3516	CM 3 A - ER 16 GM	3	ER 16 1÷ 12	43	22	M 12	1229	5719	0364
3517	CM 3 A - ER 20 GM	3	ER 20 1÷ 15	47	28	M 12	1230	5720	0787
3518	CM 3 A - ER 25 GM	3	ER 25 1÷ 20	58	35	M 12	1231	5721	0996

ACCESSORIES

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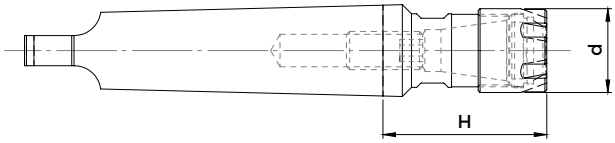


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MORSE TAPER SHANK ER COLLET CHUCKS WITH TENON - MINI NUT





DIN 228-B

COD.	DESCRIPTION	CM	ER	H	d	NUT	WRENCH	COLLET
8613	CM 1 - ER 11 GM	1	ER 11 1÷ 8	25	16	0432	5718	5573
8614	CM 1 - ER 16 GM	1	ER 16 1÷12	40	22	1229	5719	0364
8615	CM 2 - ER 16 GM	2	ER 16 1÷12	42	22	1229	5719	0364
8616	CM 2 - ER 20 GM	2	ER 20 1÷15	50	28	1230	5720	0787
8617	CM 2 - ER 25 GM	2	ER 25 1÷20	54	35	1231	5721	0996
8618	CM 3 - ER 16 GM	3	ER 16 1÷12	43	22	1229	5719	0364
8619	CM 3 - ER 20 GM	3	ER 20 1÷15	47	28	1230	5720	0787
8620	CM 3 - ER 25 GM	3	ER 25 1÷20	58	35	1231	5721	0996

ACCESSORIES

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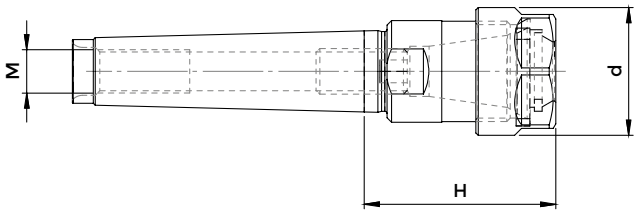


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MORSE TAPER SHANK ER COLLET CHUCKS WITH THREAD - HEXAGONAL NUT





DIN 228-A

COD.	DESCRIPTION	CM	ER	H	d	M	NUT	WRENCH	COLLET
8621	CM 1 A - ER 16 GE	1	ER 16 1÷ 12	40	28	M 6	1214	2906	0364
8622	CM 2 A - ER 16 GE	2	ER 16 1÷ 12	42	28	M 10	1214	2906	0364
8623	CM 2 A - ER 20 GE	2	ER 20 1÷ 15	50	34	M 10	1215	2907	0787

ACCESSORIES

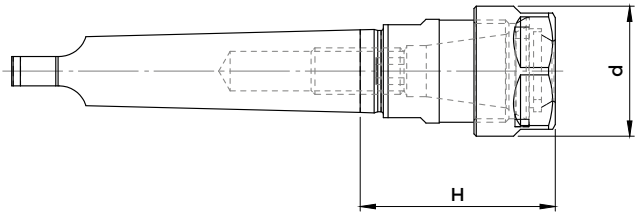

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MORSE TAPER SHANK ER COLLET CHUCKS WITH TENON - HEXAGONAL NUT





DIN 228-B

COD.	DESCRIPTION	CM	ER	H	d	NUT	WRENCH	COLLET
8624	CM 1 - ER 16 GE	1	ER 16 1÷12	40	28	1214	2906	0364
8625	CM 2 - ER 16 GE	2	ER 16 1÷12	42	28	1214	2906	0364
8626	CM 2 - ER 20 GE	2	ER 20 1÷15	50	34	1215	2907	0787

ACCESSORIES

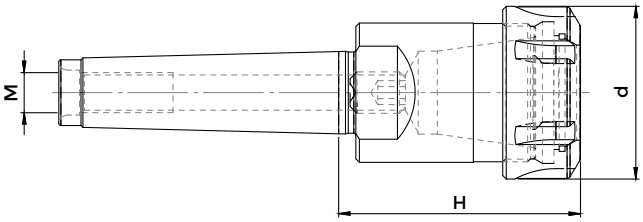

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MORSE TAPER SHANK ER COLLET CHUCKS WITH THREAD - STANDARD NUT





DIN 238-A

COD.	DESCRIPTION	CM	ER	H	d	M	NUT	WRENCH	COLLET
2915	CM 1 A - ER 16	1	ER 16 1÷12	40	32	M 6	4993	3698	0364
2916	CM 2 A - ER 16	2	ER 16 1÷12	42	32	M 10	4993	3698	0364
2917	CM 2 A - ER 20	2	ER 20 1÷15	50	35	M 10	4994	3699	0787
2918	CM 2 A - ER 25	2	ER 25 1÷20	54	42	M 10	4995	3669	0996
3310	CM 2 A - ER 32	2	ER 32 2÷25	59	50	M 10	4996	3670	0988
2919	CM 3 A - ER 25	3	ER 25 1÷20	53	42	M 12	4995	3669	0996
2920	CM 3 A - ER 32	3	ER 32 2÷25	70	50	M 12	4996	3670	0988
2921	CM 3 A - ER 40	3	ER 40 3÷32	80	63	M 12	4997	3671	0821
2922	CM 4 A - ER 32	4	ER 32 2÷25	60	50	M 16	4996	3670	0988
2923	CM 4 A - ER 40	4	ER 40 3÷32	81	63	M 16	4997	3671	0821
2924	CM 4 A - ER 50	4	ER 50 6÷36	96	78	M 16	4998	3668	4055
2902	CM 5 A - ER 32	5	ER 32 2÷25	50	50	M 20	4996	3670	0988
2925	CM 5 A - ER 40	5	ER 40 3÷32	81	63	M 20	4997	3671	0821
2926	CM 5 A - ER 50	5	ER 50 6÷36	91	78	M 20	4998	3668	4055

ACCESSORIES
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EQUIPMENT CASES WITH REDUCED SET OF ER COLLETS



COD.	DESCRIPTION	CM	CHUCK	CASE	WRENCH	COLLET
7524	KIT Rid CM 2 A - ER 25	2	2918	7022	3669	0996: Ø 4 - 6 - 8 -10 -12 -16
7525	KIT Rid CM 2 A - ER 32	2	3310	7023	3670	0988: Ø 4 - 6 - 8 -10 -12 -16 - 20
7526	KIT Rid CM 3 A - ER 25	3	2919	7022	3669	0996: Ø 4 - 6 - 8 -10 -12 -16
7527	KIT Rid CM 3 A - ER 32	3	2920	7023	3670	0988: Ø 4 - 6 - 8 -10 -12 -16 - 20
7528	KIT Rid CM 3 A - ER 40	3	2921	7024	3671	0821: Ø 4 - 6 - 8 -10 -12 -16 - 20 -25
7529	KIT Rid CM 4 A - ER 32	4	2922	7023	3670	0988: Ø 4 - 6 - 8 -10 -12 -16 - 20
7530	KIT Rid CM 4 A - ER 40	4	2923	7024	3671	0821: Ø 4 - 6 - 8 -10 -12 -16 - 20 -25

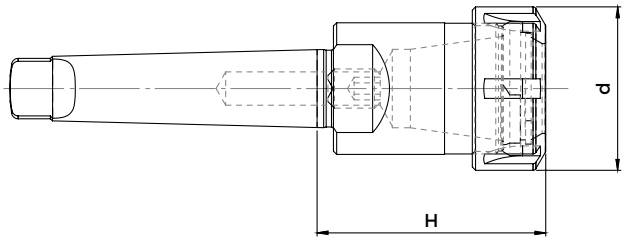
EQUIPMENT CASES WITH COMPLETE SET OF ER COLLETS



COD.	DESCRIPTION	CM	CHUCK	CASE	WRENCH	COLLET
7508	KIT CM 2 A - ER 25	2	2918	7022	3669	0996: Ø 2 ÷ 16 (15 Pinze)
7509	KIT CM 2 A - ER 32	2	3310	7023	3670	0988: Ø 3 ÷ 20 (18 Pinze)
7510	KIT CM 3 A - ER 25	3	2919	7022	3669	0996: Ø 2 ÷ 16 (15 Pinze)
7511	KIT CM 3 A - ER 32	3	2920	7023	3670	0988: Ø 3 ÷ 20 (18 Pinze)
7512	KIT CM 3 A - ER 40	3	2921	7024	3671	0821: Ø 4 ÷ 26 (23 Pinze)
7513	KIT CM 4 A - ER 32	4	2922	7023	3670	0988: Ø 3 ÷ 20 (18 Pinze)
7514	KIT CM 4 A - ER 40	4	2923	7024	3671	0821: Ø 4 ÷ 26 (23 Pinze)

MORSE TAPER SHANK ER COLLET CHUCKS WITH TENON - STANDARD NUT





DIN 228-B

COD.	DESCRIPTION	CM	ER	H	d	NUT	SCREW	WRENCH	COLLET
8627	CM 1 - ER 16	1	ER 16 1÷12	40	32	4993	0181	3698	0364
8628	CM 2 - ER 16	2	ER 16 1÷12	42	32	4993	0186	3698	0364
8629	CM 2 - ER 20	2	ER 20 1÷15	50	35	4994	0186	3699	0787
8630	CM 2 - ER 25	2	ER 25 1÷20	54	42	4995	0186	3669	0996
8631	CM 2 - ER 32	2	ER 32 2÷25	59	50	4996	0186	3670	0988
8632	CM 3 - ER 25	3	ER 25 1÷20	53	42	4995	4973	3669	0996
8633	CM 3 - ER 32	3	ER 32 2÷25	70	50	4996	4973	3670	0988
8634	CM 3 - ER 40	3	ER 40 3÷32	80	63	4997	4973	3671	0821
8635	CM 4 - ER 32	4	ER 32 2÷25	60	50	4996	0190	3670	0988
8636	CM 4 - ER 40	4	ER 40 3÷32	81	63	4997	0190	3671	0821
8637	CM 4 - ER 50	4	ER 50 6÷36	96	78	4998	0190	3668	4055
8638	CM 5 - ER 32	5	ER 32 2÷25	50	50	4996	0191	3670	0988
8639	CM 5 - ER 40	5	ER 40 3÷32	81	63	4997	0195	3671	0821
8640	CM 5 - ER 50	5	ER 50 6÷36	91	78	4998	0195	3668	4055

ACCESSORIES

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EQUIPMENT CASES WITH REDUCED SET OF ER COLLETS



COD.	DESCRIPTION	CM	CHUCK	CASE	WRENCH	COLLET
7727	KIT Rid CM 2 - ER 25	2	8630	7022	3669	0996: Ø 4 - 6 - 8 -10 -12 -16
7728	KIT Rid CM 2 - ER 32	2	8631	7023	3670	0988: Ø 4 - 6 - 8 -10 -12 -16 - 20
7729	KIT Rid CM 3 - ER 25	3	8632	7022	3669	0996: Ø 4 - 6 - 8 -10 -12 -16
7730	KIT Rid CM 3 - ER 32	3	8633	7023	3670	0988: Ø 4 - 6 - 8 -10 -12 -16 - 20
7731	KIT Rid CM 3 - ER 40	3	8634	7024	3671	0821: Ø 4 - 6 - 8 -10 -12 -16 - 20 -25
7732	KIT Rid CM 4 - ER 32	4	8635	7023	3670	0988: Ø 4 - 6 - 8 -10 -12 -16 - 20
7733	KIT Rid CM 4 - ER 40	4	8636	7024	3671	0821: Ø 4 - 6 - 8 -10 -12 -16 - 20 -25

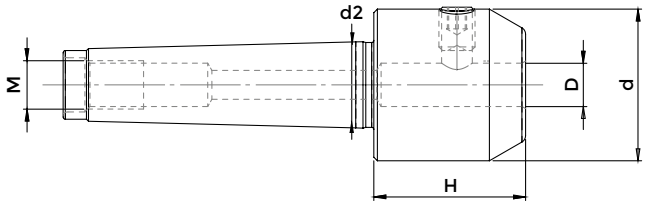
EQUIPMENT CASES WITH COMPLETE SET OF ER COLLETS



COD.	DESCRIPTION	CM	CHUCK	CASE	WRENCH	COLLET
7734	KIT CM 2 - ER 25	2	8630	7022	3669	0996: Ø 2 ÷ 16 (15 Pinze)
7735	KIT CM 2 - ER 32	2	8631	7023	3670	0988: Ø 3 ÷ 20 (18 Pinze)
7736	KIT CM 3 - ER 25	3	8632	7022	3669	0996: Ø 2 ÷ 16 (15 Pinze)
7737	KIT CM 3 - ER 32	3	8633	7023	3670	0988: Ø 3 ÷ 20 (18 Pinze)
7738	KIT CM 3 - ER 40	3	8634	7024	3671	0821: Ø 4 ÷ 26 (23 Pinze)
7739	KIT CM 4 - ER 32	4	8635	7023	3670	0988: Ø 3 ÷ 20 (18 Pinze)
7740	KIT CM 4 - ER 40	4	8636	7024	3671	0821: Ø 4 ÷ 26 (23 Pinze)

MORSE TAPER END MILL HOLDERS FOR DIN 1835-B SHANKS





DIN 228-A

COD.	DESCRIPTION	D	H	d	d2	M
9535	CM 2 A - d 16	16	58	48	18,0	M 10
9545	CM 3 A - d 20	20	60	52	24,1	M 12
9546	CM 3 A - d 25	25	70	65	24,1	M 12
9552	CM 4 A - d 16	16	58	48	31,6	M 16
9554	CM 4 A - d 20	20	60	52	31,6	M 16
9555	CM 4 A - d 25	25	70	65	31,6	M 16
9556	CM 4 A - d 32	32	75	72	31,6	M 16
9557	CM 4 A - d 40	40	85	90	31,6	M 16

TENON FOR MORSE TAPER

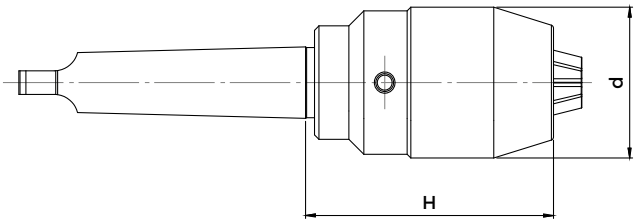


DIN 228-A-B

COD.	DESCRIPTION	M
4079	T . CM 1 - M 6	M 6
4080	T . CM 2 - M 10	M 10
4081	T . CM 3 - M 12	M 12
4082	T . CM 4 - M 16	M 16
4083	T . CM 5 - M 20	M 20

MORSE TAPER SHANK DRILL CHUCKS - RIGHT SPIN





DIN 228-B

COD.	DESCRIPTION	CM	RANGE	d	H	WRENCH
						
8646	CM 2 - DC 13	2	0,5 ÷ 13	50	86	2370
8647	CM 3 - DC 13	3	0,5 ÷ 13	50	86	2370
8648	CM 3 - DC 16	3	3 ÷ 16	57	90	2371
8649	CM 4 - DC 13	4	0,5 ÷ 13	50	87	2370
8650	CM 4 - DC 16	4	3 ÷ 16	57	91	2371

Supplied complete with suitable wrench

MORSE TAPER SHANK DRILL CHUCKS - RIGHT & LEFT SPIN

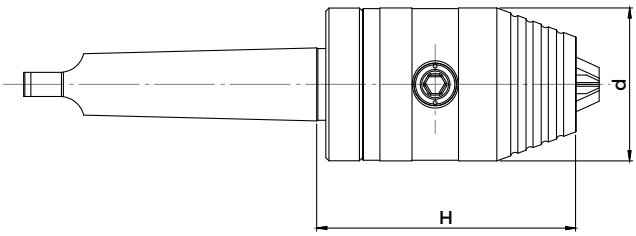


DIN 238 shank keyless drill chucks you can find at p. 599



Morse taper shank adapters to DIN 238 you can find at p. 600





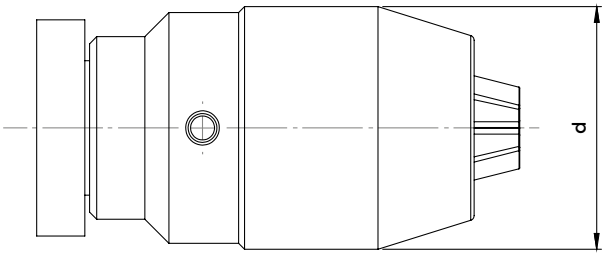
DIN 228-B

COD.	DESCRIPTION	CM	RANGE	d	H	WRENCH
						
8651	CM 2 - DCU 13	2	0,5 ÷ 13	50	87	2372
8652	CM 3 - DCU 13	3	0,5 ÷ 13	50	87	2372
8653	CM 3 - DCU 16	3	3 ÷ 16	50	92	2372
8654	CM 4 - DCU 13	4	0,5 ÷ 13	50	88	2372
8655	CM 4 - DCU 16	4	3 ÷ 16	50	94	2372

Supplied complete with suitable wrench

KEYLESS DRILL CHUCKS





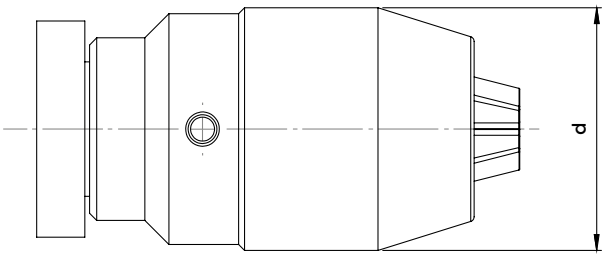
DIN 238

COD.	DESCRIPTION	d	RANGE	CLAMPS	SCREW	WRENCH
						
2800	B 10 - DC 6	33	0,5 ÷ 6,5	9010	9018	-
2801	B 10 - DC 8	38	0,5 ÷ 8	9011	9019	2368
2834	B 10 - DC 10	43	0,5 ÷ 10	9012	9020	2369
2802	B 12 - DC 8	38	0,5 ÷ 8	9011	9019	2368
2803	B 12 - DC 10	43	0,5 ÷ 10	9012	9020	2369
2804	B 12 - DC 13	50	0,5 ÷ 13	9013	9021	2370
2805	B 16 - DC 10	43	0,5 ÷ 10	9014	9022	2369
2806	B 16 - DC 13	50	0,5 ÷ 13	9013	9021	2370
2807	B 16 - DC 16	57	3 ÷ 16	9015	9023	2371
2808	B 18 - DC 16	57	3 ÷ 16	9015	9023	2371

Supplied complete with suitable wrench

HIGH PRECISION KEYLESS DRILL CHUCKS





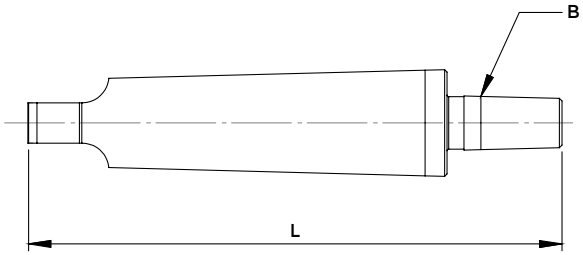
DIN 238

COD.	DESCRIPTION	d	RANGE	CLAMPS	SCREW	WRENCH
						
2853	B 10 - DC 8 Precision	38	0,5 ÷ 8	9011	9019	2368
2854	B 10 - DC 10 Precision	43	0,5 ÷ 10	9012	9020	2369
2810	B 12 - DC 8 Precision	38	0,5 ÷ 8	9011	9019	2368
2856	B 12 - DC 10 Precision	43	0,5 ÷ 10	9012	9020	2369
2858	B 12 - DC 13 Precision	50	0,5 ÷ 13	9016	9021	2370
2811	B 16 - DC 10 Precision	43	0,5 ÷ 10	9014	9022	2369
2812	B 16 - DC 13 Precision	50	0,5 ÷ 13	9016	9021	2370
2813	B 16 - DC 16 Precision	57	3 ÷ 16	9017	9023	2371
2818	B 18 - DC 16 Precision	57	3 ÷ 16	9017	9023	2371

Supplied complete with suitable wrench

MORSE TAPER ADAPTERS TO DIN 238 (ISO 239)



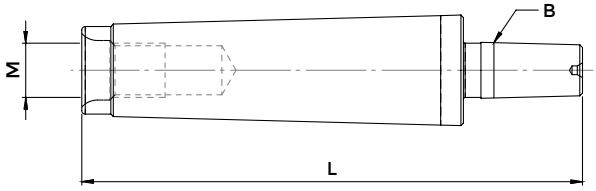


DIN 238-B

COD.	DESCRIPTION	CM	B	L
409601B10	CM 1 - B 10	1	10	83
409601B12	CM 1 - B 12	1	12	89
409601B16	CM 1 - B 16	1	16	99
409601B18	CM 1 - B 18	1	18	99
409602B10	CM 2 - B 10	2	10	105
409602B12	CM 2 - B 12	2	12	106
409602B16	CM 2 - B 16	2	16	112
409602B18	CM 2 - B 18	2	18	119
409602B22	CM 2 - B 22	2	22	130
409603B12	CM 3 - B 12	3	12	125
409603B16	CM 3 - B 16	3	16	134
409603B18	CM 3 - B 18	3	18	140
409603B22	CM 3 - B 22	3	22	147
409604B12	CM 4 - B 12	4	12	152
409604B16	CM 4 - B 16	4	16	156
409604B18	CM 4 - B 18	4	18	164
409604B22	CM 4 - B 22	4	22	176
409604B24	CM 4 - B 24	4	24	186
409605B16	CM 5 - B 16	5	16	190
409605B18	CM 5 - B 18	5	18	204
409605B22	CM 5 - B 22	5	22	213
409605B24	CM 5 - B 24	5	24	221

MORSE TAPER ADAPTERS WITH THREAD TO DIN 238 (ISO 239)



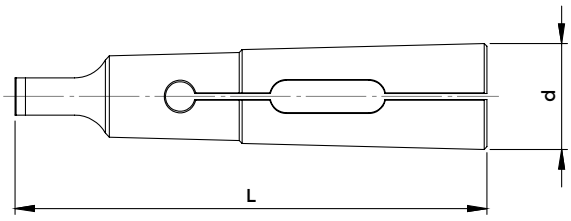


DIN 238-A

COD.	DESCRIPTION	CM	M	B	L
402402B10	CM 2 A - B 10	2	M 10	10	90
402402B12	CM 2 A - B 12	2	M 10	12	95
402402B16	CM 2 A - B 16	2	M 10	16	101
402403B16	CM 3 A - B 16	3	M 12	16	118
402404B16	CM 4 A - B 16	4	M 16	16	141

MORSE TAPER COLLETS FOR TWIST DRILLS



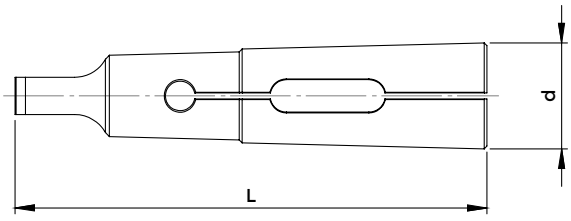


DIN 6329

COD.	DESCRIPTION	CM	RANGE	d	L	EINHEITS
5570 P	CM 0 - PUNTE	0	1 ÷ 5,5	9,2	59,5	510E
0640 P	CM 1 - PUNTE	1	1 ÷ 10,0	12,2	65,5	511E
0641 P	CM 2 - PUNTE	2	2,0 ÷ 15,0	18	80	514E
0642 P	CM 3 - PUNTE	3	8,0 ÷ 20,0	24,1	99	545E
0643 P	CM 4 - PUNTE	4	12,0 ÷ 25,0	31,6	124	548E
5571 P	CM 5 - PUNTE	5	32	44,7	156,2	599E

MORSE TAPER COLLETS FOR MILLING CUTTERS



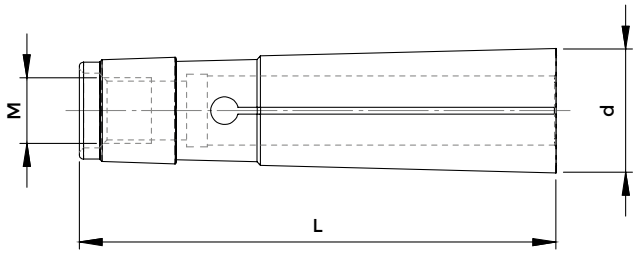


DIN 6328

COD.	DESCRIPTION	CM	RANGE	d	L	EINHEITS
5570 M	CM 0 - MASCHI	0	2,5 ÷ 4,5	9,2	59,5	500E
0640 M	CM 1 - MASCHI	1	2,5 ÷ 10,0	12,2	65,5	501E
0641 M	CM 2 - MASCHI	2	3,15 ÷ 14,0	18	80	504E
0642 M	CM 3 - MASCHI	3	6,0 ÷ 18,0	24,1	99	535E
0643 M	CM 4 - MASCHI	4	11,0 ÷ 25,0	31,6	124	538E
5571 M	CM 5 - MASCHI	5	20,0 ÷ 36,0	44,7	156,2	589E

THREADED MORSE TAPER COLLETS



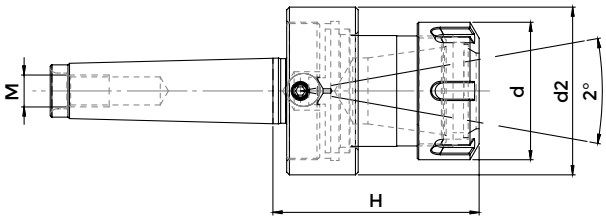


UNI 4702

COD.	DESCRIPTION	CM	RANGE	M	d	L	EINHEITS
0752	CM 2	2	1 ÷ 14	M 10	18	69	503E
0712	CM 3	3	2 ÷ 18	M 12	24,1	85,5	536E
0865	CM 4	4	4 ÷ 25	M 16	31,6	108,5	539E

MORSE TAPER FLOATING REAMER HOLDERS WITH ER COLLET





DIN 228-A

COD.	DESCRIPTION	CM	ER	d	d2	H	M	NUT	WRENCH	COLLET
3532	CM2 RM - ER 16	2	ER 16 1÷12	32	40	55	M 10	4993	3698	0364
3533	CM2 RM - ER 20	2	ER 20 1÷15	35	40	60	M 10	4994	3698	0787
3534	CM3 RM - ER 25	3	ER 25 1÷20	42	61	63	M 12	4995	3699	0996
3535	CM3 RM - ER 32	3	ER 32 2÷25	50	61	75	M 12	4996	3670	0988

ACCESSORIES

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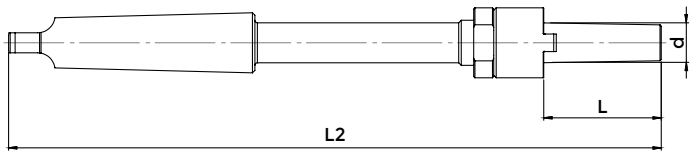


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MORSE TAPER SHELL REAMER HOLDERS WITH EJECTOR



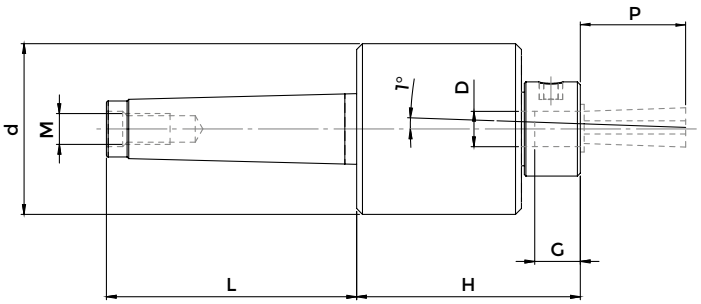


DIN 228-B

COD.	DESCRIPTION	CM	d	L	L2
1906	PA . CM 2 - D. 10	2	10	40	220
1907	PA . CM 3 - D. 13	3	13	45	250
1913	PA . CM 3 - D. 16	3	16	50	261
1914	PA . CM 3 - D. 19	3	19	56	270
1922	PA . CM 3 - D. 22	3	22	63	278
1925	PA . CM 4 - D. 19	4	19	56	298
1939	PA . CM 4 - D. 22	4	22	63	312
1944	PA . CM 4 - D. 27	4	27	71	325
1945	PA . CM 4 - D. 32	4	32	80	345
1946	PA . CM 5 - D. 27	5	27	71	359
1964	PA . CM 5 - D. 32	5	32	80	376
1966	PA . CM 5 - D. 40	5	40	90	396

MORSE TAPER BROACHING TOOLHOLDERS





DIN 228-A

COD.	DESCRIPTION	CM	D	P	L	H	G	d	M
1668	P/UTENSILE a BROCCIARE - CM.2 / F. 8	2	8	**18**	69	38	10	32	M 10
1669	P/UTENSILE a BROCCIARE - CM.2 / F.12	2	12	**25**	69	46	16	44	M 10
1670	P/UTENSILE a BROCCIARE - CM.3 / F.16	3	16	**40**	85	76	21	58	M 12
1671	P/UTENSILE a BROCCIARE - CM.4 / F.16	4	16	**40**	109	76	21	58	M 16

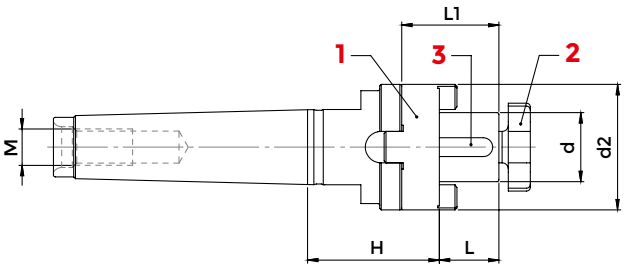
For the right broaching toolholder working is important to respect broach **P** dimension. Informations from p. 553

BROACHES
p. 558



MORSE TAPER SHANK WITH THREAD DIN 6358
COMBI SHELL MILL HOLDERS





DIN 228-A

									1	2	3	
COD.	DESCRIPTION	CM	d	H	L1	L	d2	M	COUPLING	CROSS SCREW	KEY	WRENCH
												
4420	CM 2 A - D. 16 C	2	16	37	27	17	32	M 10	4090	4985	0115	4562
4421	CM 2 A - D. 22 C	2	22	42	31	19	40	M 10	4091	4986	0116	4563
4292	CM 3 A - D. 16 C	3	16	37	27	17	32	M 12	4090	4985	0115	4562
4293	CM 3 A - D. 22 C	3	22	42	31	19	40	M 12	4091	4986	0116	4563
4294	CM 3 A - D. 27 C	3	27	42	33	21	48	M 12	4092	4987	0122	4564
4295	CM 3 A - D. 32 C	3	32	63	38	24	58	M 12	4093	4988	0125	4565
4296	CM 4 A - D. 16 C	4	16	55	27	17	32	M 16	4090	4985	0115	4562
4297	CM 4 A - D. 22 C	4	22	55	31	19	40	M 16	4091	4986	0116	4563
4298	CM 4 A - D. 27 C	4	27	55	33	21	48	M 16	4092	4987	0122	4564
4299	CM 4 A - D. 32 C	4	32	55	38	24	58	M 16	4093	4988	0125	4565

ACCESSORIES

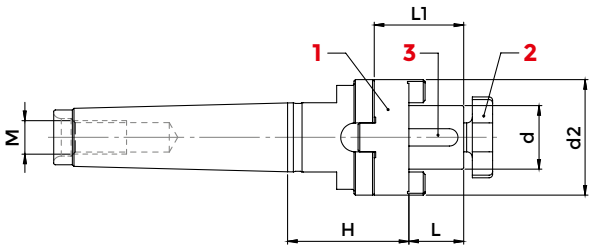
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p. 674

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MORSE TAPER SHANK WITH THREAD DIN 6358
COMBI SHELL MILL HOLDERS





DIN 228-B

								1	2	3	
COD.	DESCRIPTION	CM	d	H	L1	L	d2	JOINT OF TRANSMISSION	CROSS SCREW	KEY	WRENCH
											
8656	CM 2 - D. 16 C	2	16	37	27	17	32	4090	4985	0115	4562
8657	CM 2 - D. 22 C	2	22	42	31	19	40	4091	4986	0116	4563
8659	CM 3 - D. 22 C	3	22	42	31	19	40	4091	4986	0116	4563
8660	CM 3 - D. 27 C	3	27	42	33	21	48	4092	4987	0122	4564
8661	CM 3 - D. 32 C	3	32	63	38	24	58	4093	4988	0125	4565
8662	CM 4 - D. 16 C	4	16	55	27	17	32	4090	4985	0115	4562
8663	CM 4 - D. 22 C	4	22	55	31	19	40	4091	4986	0116	4563
8664	CM 4 - D. 27 C	4	27	55	33	21	48	4092	4987	0122	4564
8665	CM 4 - D. 32 C	4	32	55	38	24	58	4093	4988	0125	4565

ACCESSORIES

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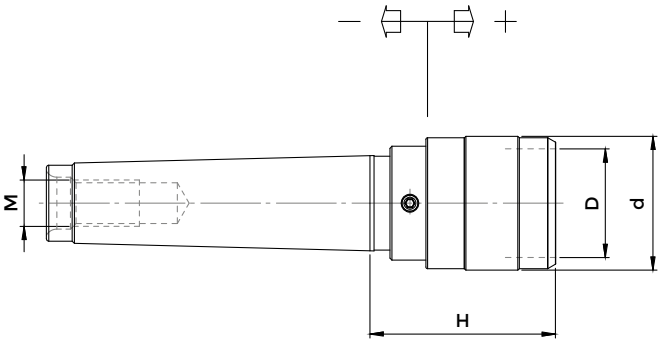
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TENSION/COMPRESSION MORSE TAPER TAPPING HEADS WITH THREAD





Tapping adapters
from p. 654



DIN 228-A

COD.	DESCRIPTION	CM	H	d	D	M	RANGE	TAP SIZE RANGE
4287	CM 2 A - B. 0	2	44	26	13	M 10	- 6,5 + 6,5	M 1 ÷ M 10
4286	CM 2 A - B. 1	2	46	38	19	M 10	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
4288	CM 3 A - B. 1	3	46	38	19	M 12	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
4289	CM 3 A - B. 2	3	70	55	31	M 12	-12,5 + 12,5	M 6 ÷ M 20 (* M 30)
4290	CM 4 A - B. 2	4	71	55	31	M 16	-12,5 + 12,5	M 6 ÷ M 20 (* M 30)
4291	CM 4 A - B. 3	4	104	79	48	M 16	-20,0 + 20,0	M 14 ÷ M 33 (* M 48)
4426	CM 5 A - B. 3	5	104	79	48	M 20	-20,0 + 20,0	M 14 ÷ M 33 (* M 48)

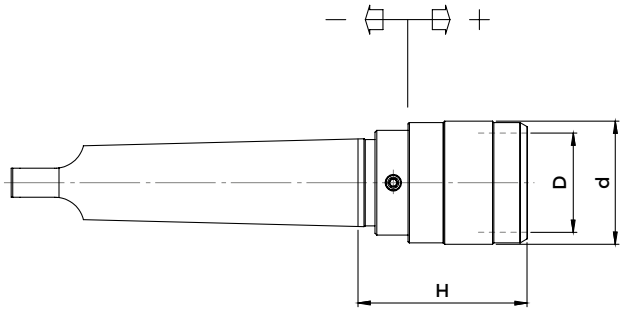
*Adapters with screw

TENSION/COMPRESSION MORSE TAPER TAPPING HEADS WITH TENON





Tapping adapters
from p. 654



DIN 228-B

COD.	DESCRIPTION	CM	H	d	D	RANGE	TAP SIZE RANGE
4278	CM 2 - B. 0	2	44	26	13	- 6,5 + 6,5	M 1 ÷ M 10
3846	CM 2 - B. 1	2	46	38	19	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
3847	CM 3 - B. 1	3	46	38	19	-7,5 + 7,5	M 3 ÷ M 12 (* M 18)
3848	CM 3 - B. 2	3	69	55	31	-12,5 + 12,5	M 6 ÷ M 20 (* M 30)
3849	CM 4 - B. 2	4	70	55	31	-12,5 + 12,5	M 6 ÷ M 20 (* M 30)
3850	CM 4 - B. 3	4	104	79	48	-20,0 + 20,0	M 14 ÷ M 33 (* M 48)
4427	CM 5 - B. 3	5	104	79	48	-20,0 + 20,0	M 14 ÷ M 33 (* M 48

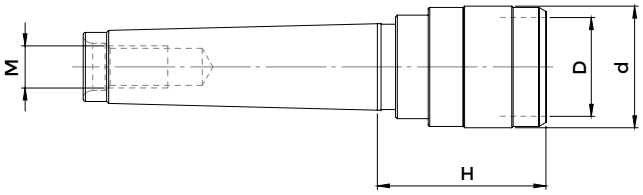
*Adapters with screw

MORSE TAPER SOLID TAPPING HEADS WITH THREAD





Tapping adapters
from p. 654



DIN 228-A

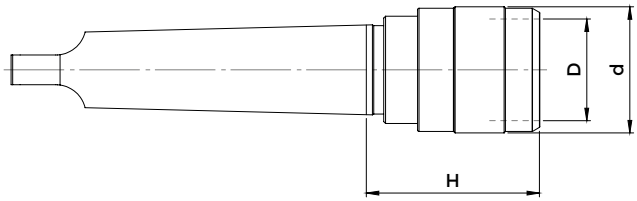
COD.	DESCRIPTION	CM	H	d	D	M	TAP SIZE RANGE
4696	CM 2 A FISSO - B. 1	2	44	33	19	M 10	M 3 ÷ M 12 (* M 18)
4697	CM 2 A FISSO - B. 2	2	61	50	31	M 10	M 6 ÷ M 20 (* M 30)
4698	CM 3 A FISSO - B. 1	3	44	33	19	M 12	M 3 ÷ M 12 (* M 18)
4699	CM 3 A FISSO - B. 2	3	61	50	31	M 12	M 6 ÷ M 20 (* M 30)

MORSE TAPER SOLID TAPPING HEADS WITH TENON





Tapping adapters
from p. 654

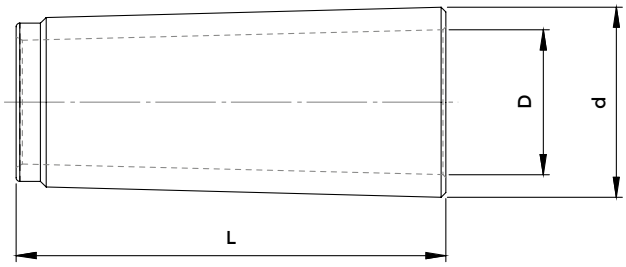


DIN 228-B

COD.	DESCRIPTION	CM	H	d	D	TAP SIZE RANGE
4279	CM 1 FISSO - B. 0	1	39	23	13	M 1 ÷ M 10
4282	CM 2 FISSO - B. 0	2	40	23	13	M 1 ÷ M 10
4283	CM 2 FISSO - B. 1	2	45	33	19	M 3 ÷ M 12 (* M 18)
4027	CM 2 FISSO - B. 2	2	61	50	31	M 6 ÷ M 20 (* M 30)
4284	CM 3 FISSO - B. 1	3	45	33	19	M 3 ÷ M 12 (* M 18)
4285	CM 3 FISSO - B. 2	3	61	50	31	M 6 ÷ M 20 (* M 30)
4340	CM 4 FISSO - B. 2	4	61	50	31	M 6 ÷ M 20 (* M 30)

MORSE TAPER OPEN-ENDED SLEEVES



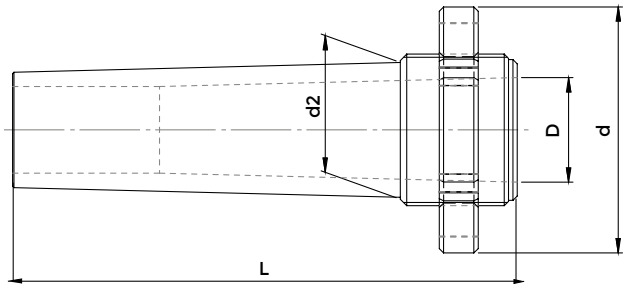


RCM.P

COD.	DESCRIPTION	EXTERNAL MT	INTERNAL MT	L	d	D
409700021	RCM. P/2 - 1	2	1	60	18	12
409700031	RCM. P/3 - 1	3	1	70	24,1	12
409700032	RCM. P/3 - 2	3	2	70	24,1	17,7
409700042	RCM. P/4 - 2	4	2	70	31,6	17,7
409700043	RCM. P/4 - 3	4	3	70	31,6	23,8
409700052	RCM. P/5 - 2	5	2	77	44,7	17,7
409700053	RCM. P/5 - 3	5	3	77	44,7	23,8
409700054	RCM. P/5 - 4	5	4	77	44,7	31,2
409700063	RCM. P/6 - 3	6	3	110	63,8	23,8
409700064	RCM. P/6 - 4	6	4	110	63,8	31,2
409700065	RCM. P/6 - 5	6	5	110	63,8	44,3

MORSE TAPER SLEEVES WITH RELEASE NUT



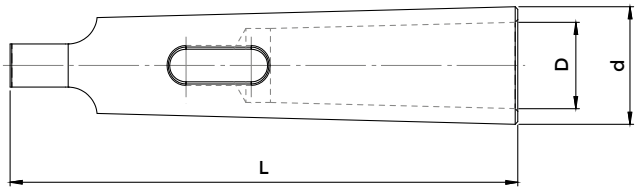


RCM.E

COD.	DESCRIPTION	EXTERNAL MT	INTERNAL MT	L	d	D	d2
404200021	RCM.E / 2 - 1	2	1	84	38	12,0	17,7
404200031	RCM.E / 3 - 1	3	1	102	48	12,0	23,8
404200032	RCM.E / 3 - 2	3	2	102	48	17,7	23,8
404200041	RCM.E / 4 - 1	4	1	122	57	12,00	31,2
404200042	RCM.E / 4 - 2	4	2	122	57	17,7	31,2
404200043	RCM.E / 4 - 3	4	3	122	57	23,8	31,2
404200052	RCM.E / 5 - 2	5	2	153	73	17,7	44,3
404200053	RCM.E / 5 - 3	5	3	153	73	23,8	44,3
404200054	RCM.E / 5 - 4	5	4	153	73	31,2	44,3
404200063	RCM.E / 6 - 3	6	3	212	98	23,8	63,3
404200064	RCM.E / 6 - 4	6	4	212	98	31,2	63,3
404200065	RCM.E / 6 - 5	6	5	212	98	44,3	63,3

MORSE TAPER ADAPTERS



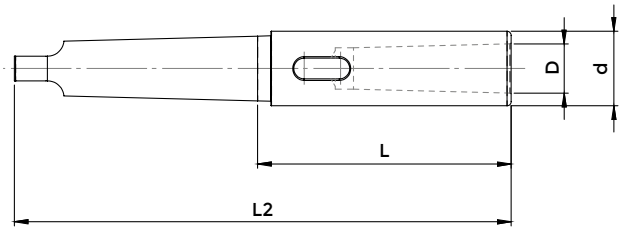


RCM.C - DIN 2185

COD.	DESCRIPTION	EXTERNAL MT	INTERNAL MT	L	d	D
409800010	RCM.C/ 1 - 0	1	0	80	12,2	9,045
409800021	RCM.C/ 2 - 1	2	1	92	18	12,065
409800031	RCM.C/ 3 - 1	3	1	99	24,1	12,065
409800032	RCM.C/ 3 - 2	3	2	112	24,1	17,78
409800041	RCM.C/ 4 - 1	4	1	124	31,6	12,065
409800042	RCM.C/ 4 - 2	4	2	124	31,6	17,78
409800043	RCM.C/ 4 - 3	4	3	140	31,6	23,825
409800051	RCM.C/ 5 - 1	5	1	156	44,7	12,065
409800052	RCM.C/ 5 - 2	5	2	156	44,7	17,78
409800053	RCM.C/ 5 - 3	5	3	156	44,7	23,825
409800054	RCM.C/ 5 - 4	5	4	171	44,7	31,267
409800062	RCM.C/ 6 - 2	6	2	218	63,8	17,78
409800063	RCM.C/ 6 - 3	6	3	218	63,8	23,825
409800064	RCM.C/ 6 - 4	6	4	218	63,8	31,267
409800065	RCM.C/ 6 - 5	6	5	218	63,8	44,399

EXTENDED MORSE TAPER ADAPTERS



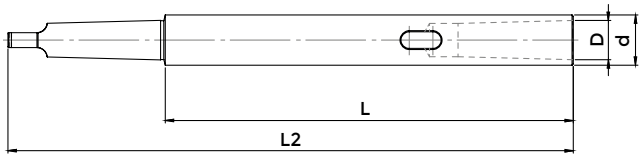


RCM.L - DIN 2187

COD.	DESCRIPTION	EXTERNAL MT	INTERNAL MT	L	L2	d	D
409900011	RCM.L / 1 - 1	1	1	83	145	20	12,065
409900012	RCM.L / 1 - 2	1	2	98	160	30	17,78
409900021	RCM.L / 2 - 1	2	1	85	160	20	12,065
409900022	RCM.L / 2 - 2	2	2	100	175	30	17,78
409900023	RCM.L/ 2 - 3	2	3	121	196	36	23,825
409900024	RCM.L/ 2 - 4	2	4	145	220	48	31,267
409900031	RCM.L / 3 - 1	3	1	81	175	20	12,065
409900032	RCM.L / 3 - 2	3	2	100	194	30	17,78
409900033	RCM.L / 3 - 3	3	3	112	215	36	23,825
409900034	RCM.L / 3 - 4	3	4	146	240	48	31,267
409900041	RCM.L / 4 - 1	4	1	82,5	200	20	12,065
409900042	RCM.L / 4 - 2	4	2	97,5	215	30	17,78
409900043	RCM.L / 4 - 3	4	3	122,5	240	36	23,825
409900044	RCM.L / 4 - 4	4	4	147,5	265	48	31,267
409900045	RCM.L / 4 - 5	4	5	182,5	300	63	44,399
409900051	RCM.L / 5 - 1	5	1	82,5	232	20	12,065
409900052	RCM.L / 5 - 2	5	2	97,5	247	30	17,78
409900053	RCM.L / 5 - 3	5	3	118,5	268	36	23,825
409900054	RCM.L / 5 - 4	5	4	150,5	300	48	31,267
409900055	RCM.L / 5 - 5	5	5	185,5	335	63	44,399
409900056	RCM.L / 5 - 6	5	6	247	396	82	63,348
409900063	RCM.L / 6 - 3	6	3	120	330	36	23,825
409900064	RCM.L / 6 - 4	6	4	180	355	48	31,267
409900065	RCM.L / 6 - 5	6	5	180	390	63	44,399
409900066	RCM.L / 6 - 6	6	6	241	451	82	63,348

EXTRA-LONG MORSE TAPER EXTENSIONS



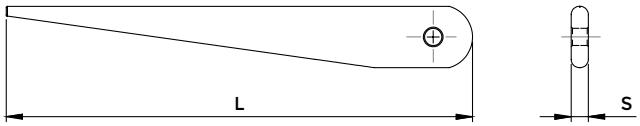


RXL

COD.	DESCRIPTION	EXTERNAL MT	INTERNAL MT	L	L2	d	D
8800	RXL 1 - 1 / 200	1	1	138	200	20	12,065
8801	RXL 1 - 1 / 250	1	1	188	250	20	12,065
8802	RXL 1 - 1 / 300	1	1	238	300	20	12,065
8803	RXL 1 - 1 / 350	1	1	288	350	20	12,065
8804	RXL 1 - 1 / 400	1	1	338	400	20	12,065
8805	RXL 1 - 1 / 450	1	1	388	450	20	12,065
8806	RXL 1 - 1 / 500	1	1	438	500	20	12,065
8807	RXL 2 - 2 / 200	2	2	125	200	25	17,78
8808	RXL 2 - 2 / 250	2	2	175	250	25	17,78
8809	RXL 2 - 2 / 300	2	2	225	300	25	17,78
8810	RXL 2 - 2 / 350	2	2	275	350	25	17,78
8811	RXL 2 - 2 / 400	2	2	325	400	25	17,78
8812	RXL 2 - 2 / 450	2	2	375	450	25	17,78
8813	RXL 2 - 2 / 500	2	2	425	500	25	17,78
8814	RXL 2 - 2 / 600	2	2	525	600	25	17,78
8815	RXL 3 - 3 / 250	3	3	156	250	32	23,825
8816	RXL 3 - 3 / 300	3	3	206	300	32	23,825
8817	RXL 3 - 3 / 350	3	3	256	350	32	23,825
8818	RXL 3 - 3 / 400	3	3	306	400	32	23,825
8819	RXL 3 - 3 / 450	3	3	356	450	32	23,825
8820	RXL 3 - 3 / 500	3	3	405	500	32	23,825
8821	RXL 3 - 3 / 600	3	3	506	600	32	23,825
8822	RXL 4 - 4 / 300	4	4	182,5	300	40	31,267
8823	RXL 4 - 4 / 350	4	4	232,5	350	40	31,267
8824	RXL 4 - 4 / 400	4	4	282,5	400	40	31,267
8825	RXL 4 - 4 / 450	4	4	332,5	450	40	31,267
8826	RXL 4 - 4 / 500	4	4	382,5	500	40	31,267
8827	RXL 4 - 4 / 600	4	4	482,5	600	40	31,267

CONE EJECTORS



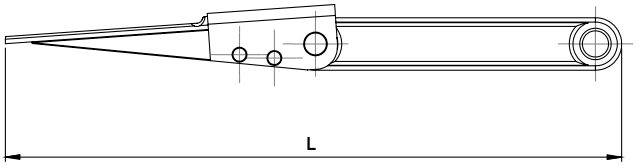


DIN 317

COD.	DESCRIPTION	CM	L	S
5235	BC.CM 0	0	90	4
5236	BC.CM 1	1	140	5
5236	BC.CM 2	2	140	5
5237	BC.CM 3	3	190	7
5238	BC.CM 4	4	225	10
5239	BC.CM 5	5	265	15
5239	BC.CM 6	6	265	15

CONE EJECTORS UNIVERSAL VERSION

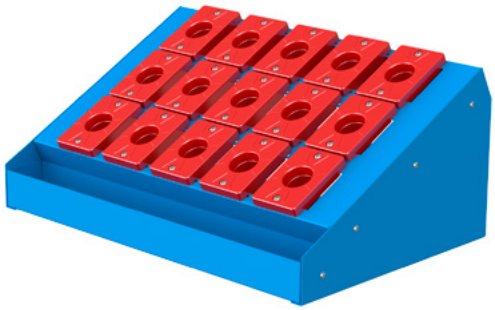


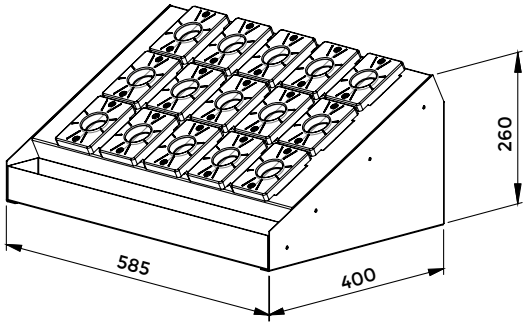


DIN 317

COD.	DESCRIPTION	CM	L
5288	BU . CM 1 - 2 - 3	1-2-3	317
5289	BU . CM 4 - 5 - 6	4-5-6	380

MORSE TAPER SHANK STORAGE



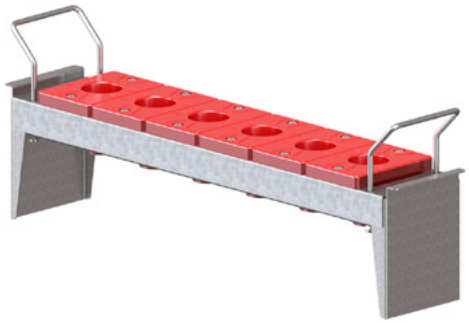


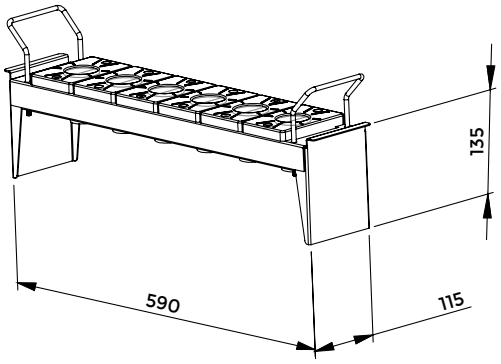
DIN 807

COD.	DESCRIPTION	MT	N° OF SEATS	MORSE TAPER BUSH	SCREW
					
9468	MAG. CM 2	2	15	9448	0033
9469	MAG. CM 3	3	15	9449	0033
3696	MAG. CM 4	4	15	4400	0033
3702G	MAG. CM 5	5	15	4418G	0033

Supplied complete of red tool holder bushings

BENCH SUPPORTS FOR MORSE TAPER SHANK



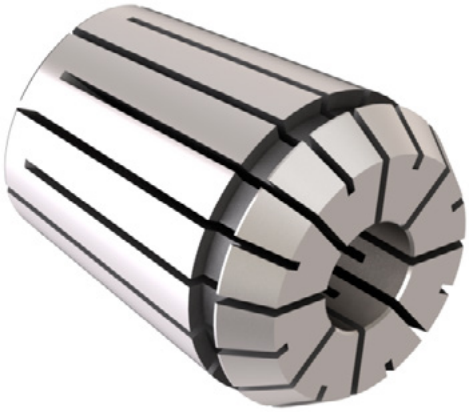


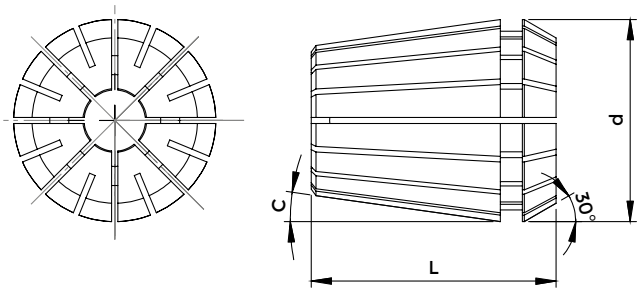
DIN 317

COD.	DESCRIPTION	MT	N° OF SEATS	MORSE TAPER BUSH
				
9458	UNITÀ CM 2	2	6	9448
9459	UNITÀ CM 3	3	6	9449
4329	UNITÀ CM 4	4	6	4400
4330	UNITÀ CM 5	5	6	4418

Supplied complete of red tool holder bushings

ER COLLETS





DIN 6499/B

COD.	TYPE	RANGE	CLAMPING	STEP	d	L	C	EINHEITS
0554	ER 8	1 ÷ 5	mm 0,5	0,5	8,5	13,5	8 °	4004E
5573	ER 11	1 ÷ 7 OVERSIZE 7,5 ÷ 8	mm 0,5 mm 0,5	0,5	11,5	18,0 OVERSIZE → 15,0	8 °	4008E
5601	ER 12	1 ÷ 3 3 ÷ 8	mm 0,5 mm 1,0	0,5	12	19,5	8 °	424E
0364	ER 16	1 ÷ 3 3 ÷ 10 OVERSIZE 10,5 ÷ 12	mm 0,5 mm 1,0 mm 0,5	0,5	17	27,5 OVERSIZE → 21,5	8 °	426E
0787	ER 20	1÷ 3 3 ÷ 13 OVERSIZE 14 ÷ 15	mm 0,5 mm 1,0 mm 0,5	0,5	21	31,5 OVERSIZE → 26,5	8 °	428E
0996	ER 25	1 ÷ 3 3 ÷ 16 OVERSIZE 16,5 ÷ 20	mm 0,5 mm 1,0 mm 0,5	0,5	26	34,0 OVERSIZE → 28,0	8 °	430E
0988	ER 32	2 ÷ 20 OVERSIZE 21 ÷ 25	mm 1,0 mm 0,5	0,5	33	40,0 OVERSIZE → 34,0	8 °	470E
0821	ER 40	3 ÷ 30 OVERSIZE 31 ÷ 32	mm 1,0 mm 0,5	0,5	41	46,0 OVERSIZE → 39,5	8 °	472E
4055	ER 50	6 ÷ 34 OVERSIZE 35 ÷ 36	mm 1,0 mm 1,0	1,0	52	60,0 OVERSIZE 60,0	8 °	477E
4056	ER 60	10 ÷ 40	mm 2,0	2,0	61	60	10°	494E

PLASTIC EMPTY TRAY



COD.	COLLETS	N°OF LOCATIONS
3672	ER 8	16
3673	ER 11	16
3673	ER 12	16
3674	ER 16	16
3675	ER 20	16
3676	ER 25	20
3677	ER 32	20
3678	ER 40	28

WOODEN EMPTY CASE



COD.	N°OF LOCATIONS
3974	10
3975	15
3975	15
3976	12
3977	12
3978	15
3979	18
3980	24

EMPTY CASE WITH SPINDLE SEAT



COD.	N°OF LOCATIONS
3690	16
3691	16
3691	16
3692	16
3693	16
7022	28
7023	28
7024	28

ER COLLETS - REDUCED SET



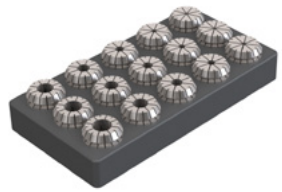




	COD.	DESCRIPTION	DIAMETERS	NUMBER OF COLLETS
IN SINGLE PACKS	7463	ER 8 Reduced	Ø 1 - 2 - 3 - 4 - 5	5
	7464	ER 11 Reduced	Ø 1 - 2 - 3 - 4 - 5 - 6 - 7	7
	7465	ER 16 Reduced	Ø 2 - 4 - 6 - 8 -10	5
	7466	ER 20 Reduced	Ø 2 - 4 - 6 - 8 -10 -12	6
	7467	ER 25 Reduced	Ø 4 - 6 - 8 -10 -12 -16	6
	7468	ER 32 Reduced	Ø 4 - 6 - 8 -10 -12 -16 - 20	7
	7469	ER 40 Reduced	Ø 4 - 6 - 8 -10 -12 -16 - 20 - 25	8
IN PLASTIC TRAY	4048	ER 8 Reduced	Ø 1 - 2 - 3 - 4 - 5	5
	4049	ER 11 Reduced	Ø 1 - 2 - 3 - 4 - 5 - 6 - 7	7
	4050	ER 16 Reduced	Ø 2 - 4 - 6 - 8 -10	5
	4051	ER 20 Reduced	Ø 2 - 4 - 6 - 8 -10 -12	6
	4052	ER 25 Reduced	Ø 4 - 6 - 8 -10 -12 -16	6
	4053	ER 32 Reduced	Ø 4 - 6 - 8 -10 -12 -16 - 20	7
	4054	ER 40 Reduced	Ø 4 - 6 - 8 -10 -12 -16 - 20 - 25	8
IN WOODEN CASE	7337	ER 8 Reduced	Ø 1 - 2 - 3 - 4 - 5	5
	7338	ER 11 Reduced	Ø 1 - 2 - 3 - 4 - 5 - 6 - 7	7
	7339	ER 16 Reduced	Ø 2 - 4 - 6 - 8 -10	5
	7340	ER 20 Reduced	Ø 2 - 4 - 6 - 8 -10 -12	6
	7341	ER 25 Reduced	Ø 4 - 6 - 8 -10 -12 -16	6
	7342	ER 32 Reduced	Ø 4 - 6 - 8 -10 -12 -16 - 20	7
	7343	ER 40 Reduced	Ø 4 - 6 - 8 -10 -12 -16 - 20 - 25	8

ER COLLETS - COMPLETE SET

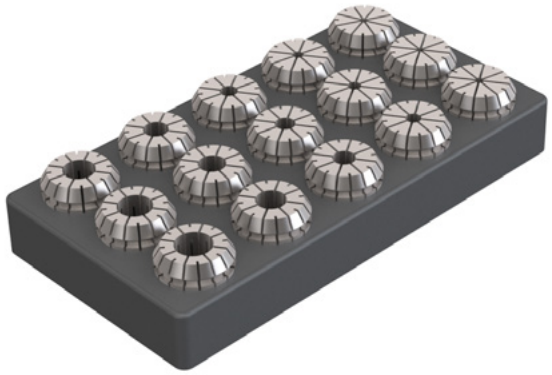






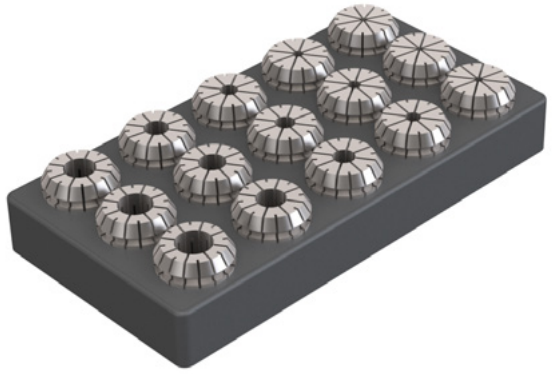
	COD.	DESCRIPTION	DIAMETERS	NUMBER OF COLLETS
IN SINGLE PACKS	7470	ER 8 Complete	from Ø 1 to Ø 5 - progression 0,5	9
	7471	ER 11 Complete	from Ø 1 to Ø 7 - progression 0,5	13
	7472	ER 12 Complete	from Ø 1 to Ø 7 - progression 0,5 - 1	9
	7473	ER 16 Complete	from Ø 1 to Ø 10 - progression 1	10
	7474	ER 20 Complete	from Ø 2 to Ø 13 - progression 1	12
	7475	ER 25 Complete	from Ø 2 to Ø 16 - progression 1	15
	7476	ER 32 Complete	from Ø 3 to Ø 20 - progression 1	18
	7477	ER 40 Complete	from Ø 4 to Ø 26 - progression 1	9
IN PLASTIC TRAY	4058	ER 8 Complete	from Ø 1 to Ø 5 - progression 0,5	9
	4060	ER 11 Complete	from Ø 1 to Ø 7 - progression 0,5	13
	4061	ER 12 Complete	from Ø 1 to Ø 7 - progression 0,5 - 1	9
	4062	ER 16 Complete	from Ø 1 to Ø 10 - progression 1	10
	4063	ER 20 Complete	from Ø 2 to Ø 13 - progression 1	12
	4064	ER 25 Complete	from Ø 2 to Ø 16 - progression 1	15
	4065	ER 32 Complete	from Ø 3 to Ø 20 - progression 1	18
	4066	ER 40 Complete	from Ø 4 to Ø 26 - progression 1	9
IN WOODEN CASE	7344	ER 8 Complete	from Ø 1 to Ø 5 - progression 0,5	9
	7345	ER 11 Complete	from Ø 1 to Ø 7 - progression 0,5	13
	7346	ER 12 Complete	from Ø 1 to Ø 7 - progression 0,5 - 1	9
	7347	ER 16 Complete	from Ø 1 to Ø 10 - progression 1	10
	7348	ER 20 Complete	from Ø 2 to Ø 13 - progression 1	12
	7349	ER 25 Complete	from Ø 2 to Ø 16 - progression 1	15
	7350	ER 32 Complete	from Ø 3 to Ø 20 - progression 1	18
	7351	ER 40 Complete	from Ø 4 to Ø 26 - progression 1	23

ER COLLETS - SET WITH OVERSIZE DIAMETERS



	COD.	DESCRIPTION	DIAMETERS	STEP	N°OF COLLETS
IN PLASTIC TRAY	7352	ER 11 Oversize	from Ø 1 to Ø 8	0,5	15
	7353	ER 16 Oversize	from Ø 1 to Ø 12	1	12
	7354	ER 20 Oversize	from Ø 2 to Ø 15	1	14
	7355	ER 25 Oversize	from Ø 2 to Ø 20	1	19
	7356	ER 32 Oversize	from Ø 6 to Ø 25	1	20
	7357	ER 40 Oversize	from Ø 6 to Ø 32	1	27

ER COLLETS – COMPLETE SET



	COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS
IN PLASTIC TRAY	7746	ER 16 Integrale	da Ø 1 a Ø 10 **+ half measures** da Ø 1,5 a Ø 9,5	19
	7747	ER 20 Integrale	da Ø 1 a Ø 13 **+ half measures** da Ø 1,5 a Ø 12,5	25
	7748	ER 25 Integrale	da Ø 1 a Ø 16 **+ half measures** da Ø 1,5 a Ø 15,5	31
	7749	ER 32 Integrale	da Ø 2 a Ø 20 **+ half measures** da Ø2,5 a Ø 19,5	37
	7750	ER 40 Integrale	da Ø 3 a Ø 30	28

ER COLLETS - REDUCED SET IN CASE WITH SPINDLE SEAT



COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS
7487	ER 8 Set Reduced	Ø 1 - 2 - 3 - 4 - 5	5
7488	ER 11 Set Reduced	Ø 1 - 2 - 3 - 4 - 5 - 6 - 7	7
7489	ER 16 Set Reduced	Ø 2 - 4 - 6 - 8 -10	5
7490	ER 20 Set Reduced	Ø 2 - 4 - 6 - 8 -10 -12	6
7491	ER 25 Set Reduced	Ø 4 - 6 - 8 -10 -12 -16	6
7492	ER 32 Set Reduced	Ø 4 - 6 - 8 -10 -12 -16 - 20	7
7493	ER 40 Set Reduced	Ø 4 - 6 - 8 -10 -12 -16 - 20 - 25	8

It is possible to complete all the sets in case with collet chuck and wrench you need

ER COLLETS - COMPLETE SET IN CASE WITH SPINDLE SEAT



COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS
7551	ER 8 Set Complete	from Ø 1 to Ø 5 - progression 0,5	9
7552	ER 11 Set Complete	from Ø 1 to Ø 7 - progression 0,5	13
7599	ER 12 Set Complete	from Ø 1 to Ø 7 - progression 0,5 - 1	9
7553	ER 16 Set Complete	from Ø 1 to Ø 10 - progression 1	10
7554	ER 20 Set Complete	from Ø 2 to Ø 13 - progression 1	12
7555	ER 25 Set Complete	from Ø 2 to Ø 16 - progression 1	15
7556	ER 32 Set Complete	from Ø 3 to Ø 20 - progression 1	18
7557	ER 40 Set Complete	from Ø 4 to Ø 26 - progression 1	23

It is possible to complete all the sets in case with collet chuck and wrench you need

ER COLLETS - REDUCED SET AND MINI WRENCH IN CASE WITH SPINDLE SEAT



COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS	WRENCH
7751	ER 8 Reduced + Mini Wrench	Ø 1 - 2 - 3 - 4 - 5	5	5717
7752	ER 11 Reduced + Mini Wrench	Ø 1 - 2 - 3 - 4 - 5 - 6 - 7	7	5718
7753	ER 16 Reduced + Mini Wrench	Ø 2 - 4 - 6 - 8 - 10	5	5719
7754	ER 20 Reduced + Mini Wrench	Ø 2 - 4 - 6 - 8 - 10 - 12	6	5720
7755	ER 25 Reduced + Mini Wrench	Ø 4 - 6 - 8 -10 - 12 - 16	6	5721

It is possible to complete all the sets in case with collet chuck and wrench you need

ER COLLETS - COMPLETE SET AND MINI WRENCH IN CASE WITH SPINDLE SEAT



COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS	WRENCH
7001	ER 8 Complete + WRENCH Mini	da Ø 1 a Ø 5	9	5717
7002	ER 11 Complete + WRENCH Mini	da Ø 1 a Ø 7	13	5718
7003	ER 16 Complete + WRENCH Mini	da Ø 1 a Ø 10	10	5719
7004	ER 20 Complete + WRENCH Mini	da Ø 2 a Ø 13	12	5720
7005	ER 25 Complete + WRENCH Mini	da Ø 2 a Ø 16	15	5721

It is possible to complete all the sets in case with collet chuck and wrench you need

ER COLLETS - REDUCED SET AND STANDARD WRENCH IN CASE WITH SPINDLE SEAT



COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS	WRENCH
7495	ER 16 Reduced + Standard Wrench	Ø 2 - 4 - 6 - 8 - 10	5	3698
7496	ER 20 Reduced + Standard Wrench	Ø 2 - 4 - 6 - 8 - 10 - 12	6	3699
7497	ER 25 Reduced + Standard Wrench	Ø 4 - 6 - 8 - 10 - 12 - 16	6	3669
7498	ER 32 Reduced + Standard Wrench	Ø 4 - 6 - 8 - 10 - 12 -16 - 20	7	3670
7499	ER 40 Reduced + Standard Wrench	Ø 4 - 6 - 8 - 10 - 12 - 16 - 20 - 25	8	3671

It is possible to complete all the sets in case with collet chuck and wrench you need

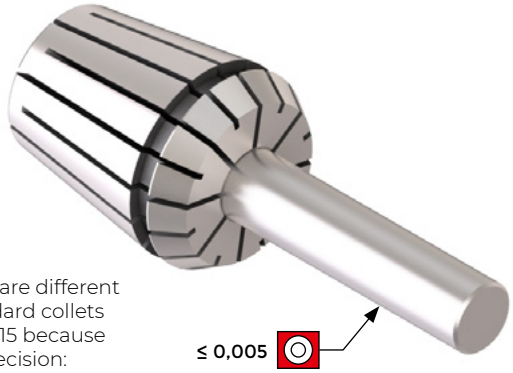
ER COLLETS - COMPLETE SET AND STANDARD WRENCH IN CASE WITH SPINDLE SEAT



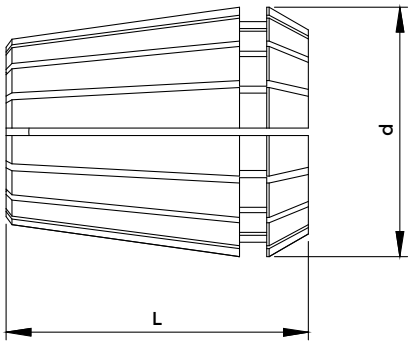
COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS	WRENCH
7536	ER 16 Complete + Standard Wrench	from Ø 1 to Ø 10	10	3698
7537	ER 20 Complete + Standard Wrench	from Ø 2 to Ø 13	12	3699
7538	ER 25 Complete + Standard Wrench	from Ø 2 to Ø 16	15	3669
7539	ER 32 Complete + Standard Wrench	from Ø 3 to Ø 20	18	3670
7540	ER 40 Complete + Standard Wrench	from Ø 4 to Ø 26	23	3671

It is possible to complete all the sets in case with collet chuck and wrench you need

HIGH PRECISION ER COLLETS



ER-HP collets are different from ER standard collets on p. pagina 615 because of the high precision:
< 0,005 runout accuracy



DIN 6499/B

COD.	DESCRIPTION	RANGE	d	L
0554 HP	ER 8 HP	1 ÷ 5	8,5	13,5
5573 HP	ER 11 HP	1 ÷ 7 - OVERSIZE 7,5 ÷ 8	11,5	18,0 - OVERSIZE → 15,0
0364 HP	ER 16 HP	1 ÷ 10 - OVERSIZE 10,5 ÷ 12	17	27,5 - OVERSIZE → 21,5
0787 HP	ER 20 HP	1 ÷ 13 - OVERSIZE 14 ÷ 15	21	31,5 - OVERSIZE → 26,5
0996 HP	ER 25 HP	1 ÷ 16 - OVERSIZE 17 ÷ 20	26	34,0 - OVERSIZE → 28,0
0988 HP	ER 32 HP	2 ÷ 20 - OVERSIZE 21 ÷ 25	33	40,0 - OVERSIZE → 34,0
0821 HP	ER 40 HP	3 ÷ 30 - OVERSIZE 31 ÷ 32	41	46,0 - OVERSIZE → 39,5
4055 HP	ER 50 HP	6 ÷ 34 - OVERSIZE 35 ÷ 36	52	60,0 - OVERSIZE 60,0

REDUCED SET OF COLLETS ER-HP TYPE





	COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS
IN PLASTIC TRAY	7558	ER 8 HP Reduced	Ø 1 - 2 - 3 - 4 - 5	5
	7559	ER 11 HP Reduced	Ø 1 - 2 - 3 - 4 - 5 - 6 - 7	7
	7560	ER 16 HP Reduced	Ø 2 - 4 - 6 - 8 - 10	5
	7561	ER 20 HP Reduced	Ø 2 - 4 - 6 - 8 - 10 - 12	6
	7562	ER 25 HP Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16	6
	7563	ER 32 HP Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16 - 20	7
	7564	ER 40 HP Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16 - 20 - 25	8
IN WOODEN CASE	7572	ER 8 HP Reduced	Ø 1 - 2 - 3 - 4 - 5	5
	7573	ER 11 HP Reduced	Ø 1 - 2 - 3 - 4 - 5 - 6 - 7	7
	7574	ER 16 HP Reduced	Ø 2 - 4 - 6 - 8 - 10	5
	7575	ER 20 HP Reduced	Ø 2 - 4 - 6 - 8 - 10 - 12	6
	7576	ER 25 HP Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16	6
	7577	ER 32 HP Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16 - 20	7
	7578	ER 40 HP Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16 - 20 - 25	8

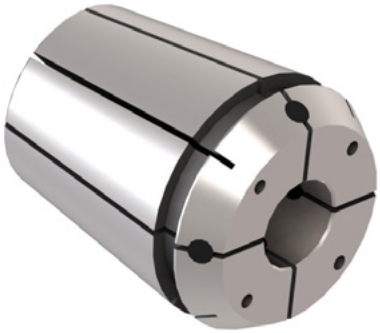
COMPLETE SET OF COLLETS ER-HP TYPE



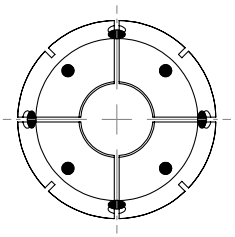


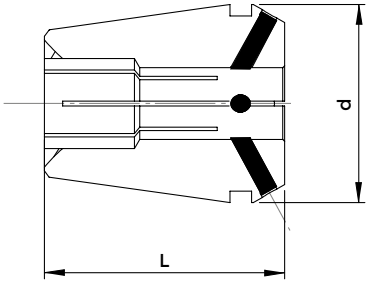
	COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS
IN PLASTIC TRAY	7565	ER 8 HP Complete	from Ø 1 to Ø 5	9
	7566	ER 11 HP Complete	from Ø 1 to Ø 7	13
	7567	ER 16 HP Complete	from Ø 1 to Ø 10	10
	7568	ER 20 HP Complete	from Ø 2 to Ø 13	12
	7569	ER 25 HP Complete	from Ø 2 to Ø 16	15
	7570	ER 32 HP Complete	from Ø 3 to Ø 20	18
	7571	ER 40 HP Complete	from Ø 4 to Ø 26	23
IN WOODEN CASE	7579	ER 8 HP Complete	from Ø 1 to Ø 5	9
	7580	ER 11 HP Complete	from Ø 1 to Ø 7	13
	7581	ER 16 HP Complete	from Ø 1 to Ø 10	10
	7582	ER 20 HP Complete	from Ø 2 to Ø 13	12
	7583	ER 25 HP Complete	from Ø 2 to Ø 16	15
	7584	ER 32 HP Complete	from Ø 3 to Ø 20	18
	7585	ER 40 HP Complete	from Ø 4 to Ø 26	23

ER COLLETS WITH COOLANT HOLES



Coolant flows towards the edges of the tool through oriented holes. Working pressure: up to 40 Bar / 600 PSI





DIN 6499/A

COD.	DESCRIPTION	RANGE	d	L	STEP
0364 JE	ER 16 JET	3 ÷ 7	17	27,5	0,5
0787 JE	ER 20 JET	3 ÷ 9	21	31,5	0,5
0996 JE	ER 25 JET	3 ÷ 14	26	34	0,5
0988 JE	ER 32 JET	3 ÷ 20	33	40	0,5
0821 JE	ER 40 JET	4 ÷ 26	41	46	1
4055 JE	ER 50 JET	6 ÷ 34	52	60	1

REDUCED SET OF COLLETS ER-JET TYPE





	COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS
IN PLASTIC TRAY	7637	ER 25 JET Reduced	Ø 4 - 6 - 8 -10 -12	5
	7638	ER 32 JET Reduced	Ø 4 - 6 - 8 -10 -12 -16 - 20	7
	7639	ER 40 JET Reduced	Ø 4 - 6 - 8 -10 -12 -16 - 20 - 25	8
IN WOODEN CASE	7647	ER 25 JET Reduced	Ø 4 - 6 - 8 -10 -12	5
	7648	ER 32 JET Reduced	Ø 4 - 6 - 8 -10 -12 -16 - 20	7
	7649	ER 40 JET Reduced	Ø 4 - 6 - 8 -10 -12 -16 - 20 - 25	8

COMPLETE SET OF COLLETS ER-JET TYPE



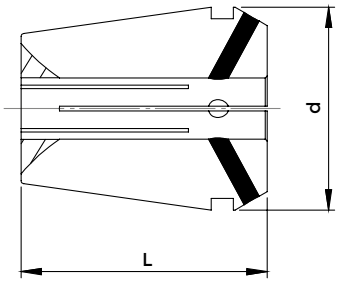


	COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS
IN PLASTIC TRAY	7640	ER 16 JET Complete	from Ø 3 to Ø 7	5
	7641	ER 20 JET Complete	from Ø 3 to Ø 9	7
	7642	ER 25 JET Complete	from Ø 3 to Ø 14	12
	7643	ER 32 JET Complete	from Ø 3 to Ø 20	18
	7644	ER 40 JET Complete	from Ø 4 to Ø 26	23
IN WOODEN CASE	7650	ER 16 JET Complete	from Ø 3 to Ø 7	5
	7651	ER 20 JET Complete	from Ø 3 to Ø 9	7
	7652	ER 25 JET Complete	from Ø 3 to Ø 14	12
	7653	ER 32 JET Complete	from Ø 3 to Ø 20	18
	7654	ER 40 JET Complete	from Ø 4 to Ø 26	23

SEALED ER COLLETS



Coolant flows exclusively through central hole, collet cuts are sealed with neoprene inserts (above Ø 3). Working pressure: up to 40 Bar / 600 PSI



DIN 6499/A

COD.	DESCRIPTION	RANGE	d	L	STEP
5573 RF	ER 11 RF	1 ÷ 7	11,5	18	0,5
0364 RF	ER 16 RF	1 ÷ 10	17	27,5	0,5
0787 RF	ER 20 RF	2 ÷ 13	21	31,5	0,5
0996 RF	ER 25 RF	2 ÷ 16	26	34	0,5
0988 RF	ER 32 RF	3 ÷ 20	33	40	0,5
0821 RF	ER 40 RF	4 ÷ 26	41	46	1
4055 RF	ER 50 RF	6 ÷ 34	52	60	1

REDUCED SET OF COLLETS RF TYPE





	COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS
IN PLASTIC TRAY	7587	ER 16 RF Reduced	Ø 4 - 6 - 8 -10	4
	7588	ER 20 RF Reduced	Ø 4 - 6 - 8 -10 -12	5
	7589	ER 25 RF Reduced	Ø 4 - 6 - 8 -10 -12 -16	6
	7590	ER 32 RF Reduced	Ø 4 - 6 - 8 -10 -12 -16 - 20	7
	7591	ER 40 RF Reduced	Ø 4 - 6 - 8 -10 -12 -16 - 20 - 25	8
IN WOODEN CASE	7600	ER 16 RF Reduced	Ø 4 - 6 - 8 -10	4
	7601	ER 20 RF Reduced	Ø 4 - 6 - 8 -10 -12	5
	7602	ER 25 RF Reduced	Ø 4 - 6 - 8 -10 -12 -16	6
	7603	ER 32 RF Reduced	Ø 4 - 6 - 8 -10 -12 -16 - 20	7
	7604	ER 40 RF Reduced	Ø 4 - 6 - 8 -10 -12 -16 - 20 - 25	8

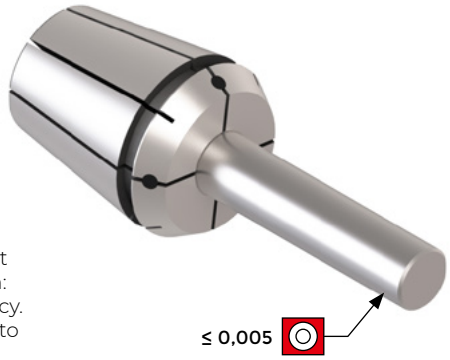
COMPLETE SET OF COLLETS RF TYPE

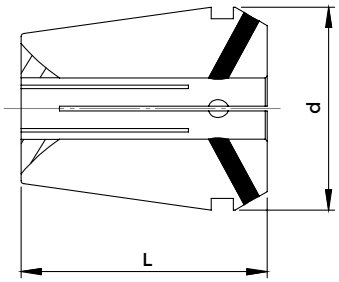




	COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS
IN PLASTIC TRAY	7593	ER 16 RF Complete	from Ø 3 to Ø 10	8
	7594	ER 20 RF Complete	from Ø 3 to Ø 13	11
	7595	ER 25 RF Complete	from Ø 3 to Ø 16	14
	7596	ER 32 RF Complete	from Ø 3 to Ø 20	18
	7597	ER 40 RF Complete	from Ø 4 to Ø 26	23
IN WOODEN CASE	7606	ER 16 RF Complete	from Ø 3 to Ø 10	8
	7607	ER 20 RF Complete	from Ø 3 to Ø 13	11
	7608	ER 25 RF Complete	from Ø 3 to Ø 16	14
	7609	ER 32 RF Complete	from Ø 3 to Ø 20	18
	7610	ER 40 RF Complete	from Ø 4 to Ø 26	23

ULTRA PRECISION SEALED ER COLLETS





Collets with the same features of RF type but with an ultra precision: ≤ 0,005 runout accuracy. Working pressure: up to 40 Bar / 600 PSI

DIN 6499/A

COD.	DESCRIPTION	RANGE	d	L	STEP
5573 UP	ER 11 RF - UP	1 ÷ 7	11,5	18	0,5
0364 UP	ER 16 RF - UP	1 ÷ 10	17	27,5	0,5
0787 UP	ER 20 RF - UP	2 ÷ 13	21	31,5	0,5
0996 UP	ER 25 RF - UP	2 ÷ 16	26	34	0,5
0988 UP	ER 32 RF - UP	3 ÷ 20	33	40	0,5
0821 UP	ER 40 RF - UP	4 ÷ 26	41	46	1
4055 UP	ER 50 RF - UP	6 ÷ 34	52	60	1

REDUCED SET OF COLLETS RF-UP TYPE





	COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS
IN PLASTIC TRAY	7612	ER 16 UP Reduced	Ø 4 - 6 - 8 - 10	4
	7613	ER 20 UP Reduced	Ø 4 - 6 - 8 - 10 - 12	5
	7614	ER 25 UP Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16	6
	7615	ER 32 UP Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16 - 20	7
	7616	ER 40 UP Reduced	Ø 4 - 6 - 8 -10 - 12 - 16 - 20 - 25	8
IN WOODEN CASE	7624	ER 16 UP Reduced	Ø 4 - 6 - 8 - 10	4
	7625	ER 20 UP Reduced	Ø 4 - 6 - 8 - 10 - 12	5
	7626	ER 25 UP Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16	6
	7627	ER 32 UP Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16 - 20	7
	7628	ER 40 UP Reduced	Ø 4 - 6 - 8 -10 - 12 - 16 - 20 - 25	8

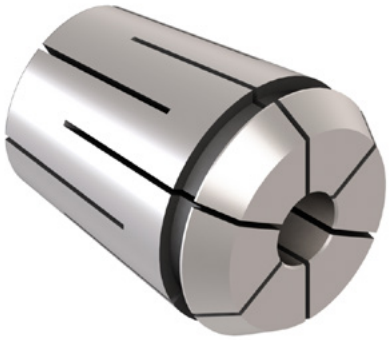
COMPLETE SET OF COLLETS RF-UP TYPE

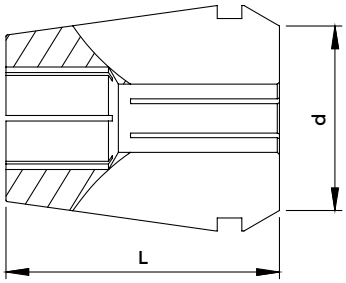




	COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS
IN PLASTIC TRAY	7618	ER 16 UP Complete	from Ø 3 to Ø 10	8
	7619	ER 20 UP Complete	from Ø 3 to Ø 13	11
	7620	ER 25 UP Complete	from Ø 3 to Ø 16	14
	7621	ER 32 UP Complete	from Ø 3 to Ø 20	18
	7622	ER 40 UP Complete	from Ø 4 to Ø 26	23
IN WOODEN CASE	7630	ER 16 UP Complete	from Ø 3 to Ø 10	8
	7631	ER 20 UP Complete	from Ø 3 to Ø 13	11
	7632	ER 25 UP Complete	from Ø 3 to Ø 16	14
	7633	ER 32 UP Complete	from Ø 3 to Ø 20	18
	7634	ER 40 UP Complete	from Ø 4 to Ø 26	23

STEEL SEALED ER COLLETS FOR HIGH PRESSURES





Coolant flows exclusively through central hole, due to cuts shape.
Working pressure: up to 130 BAR / 1900 PSI

DIN 6499/A

COD.	DESCRIPTION	RANGE	d	L	STEP
5573 SC	ER 11 SSC	3 ÷ 7 OVERSIZE 7,5 ÷ 8	11,5	18,0 OVERSIZE → 15,0	0,5
0364 SC	ER 16 SSC	3 ÷ 10 OVERSIZE 10,5 ÷ 12	17	27,5 OVERSIZE → 21,5	0,5
0787 SC	ER 20 SSC	3 ÷ 13 OVERSIZE 13,5 ÷ 15	21	31,5 OVERSIZE → 26,5	0,5
0996 SC	ER 25 SSC	3 ÷ 16 OVERSIZE 16,5 ÷ 20	26	34,0 OVERSIZE → 28,0	0,5
0988 SC	ER 32 SSC	3 ÷ 20 OVERSIZE 20,5 ÷ 25	33	40,0 OVERSIZE → 34,0	0,5
0821 SC	ER 40 SSC	3 ÷ 30 OVERSIZE 31 ÷ 32	41	46,0 OVERSIZE → 39,5	1

REDUCED SET OF COLLETS ER-SSC TYPE





	COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS
IN PLASTIC TRAY	7670	ER 16 SSC Reduced	Ø 4 - 6 - 8 - 10	4
	7671	ER 20 SSC Reduced	Ø 4 - 6 - 8 - 10 - 12	5
	7672	ER 25 SSC Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16	6
	7673	ER 32 SSC Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16 - 20	7
	7674	ER 40 SSC Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16 - 20 - 25	8
IN WOODEN CASE	7690	ER 16 SSC Reduced	Ø 4 - 6 - 8 - 10	4
	7691	ER 20 SSC Reduced	Ø 4 - 6 - 8 - 10 - 12	5
	7692	ER 25 SSC Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16	6
	7693	ER 32 SSC Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16 - 20	7
	7694	ER 40 SSC Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16 - 20 - 25	8

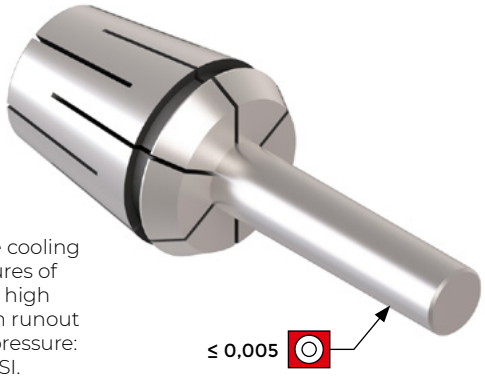
COMPLETE SET OF COLLETS ER-SSC TYPE



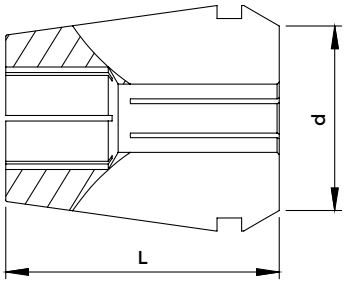


	COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS
IN PLASTIC TRAY	7675	ER 16 SSC Complete	from Ø 3 to Ø 10	8
	7676	ER 20 SSC Complete	from Ø 3 to Ø 13	11
	7677	ER 25 SSC Complete	from Ø 3 to Ø 16	14
	7678	ER 32 SSC Complete	from Ø 3 to Ø 20	18
	7679	ER 40 SSC Complete	from Ø 4 to Ø 26	23
IN WOODEN CASE	7695	ER 16 SSC Complete	from Ø 3 to Ø 10	8
	7696	ER 20 SSC Complete	from Ø 3 to Ø 13	11
	7697	ER 25 SSC Complete	from Ø 3 to Ø 16	14
	7698	ER 32 SSC Complete	from Ø 3 to Ø 20	18
	7699	ER 40 SSC Complete	from Ø 4 to Ø 26	23

HIGH PRECISION STEEL SEALED ER COLLETS FOR HIGH PRESSURES



Collets with the same cooling mechanical seal features of SSC type, but with an high precision: ≤ 0,005 mm runout accurancy. Working pressure: up to 130 Bar / 1900 PSI.



DIN 6499/A

COD.	DESCRIPTION	RANGE	d	L
5573 SH	ER 11 SSC - HP	3 ÷ 7 OVERSIZE 7,5 ÷ 8	11,5	18,0 OVERSIZE → 15,0
0364 SH	ER 16 SSC - HP	3 ÷ 10 OVERSIZE 10,5 ÷ 12	17	27,5 OVERSIZE → 21,5
0787 SH	ER 20 SSC - HP	3 ÷ 13 OVERSIZE 13,5 ÷ 15	21	31,5 OVERSIZE → 26,5
0996 SH	ER 25 SSC - HP	3 ÷ 16 OVERSIZE 16,5 ÷ 20	26	34,0 OVERSIZE → 28,0
0988 SH	ER 32 SSC - HP	3 ÷ 20 OVERSIZE 20,5 ÷ 25	33	40,0 OVERSIZE → 34,0
0821 SH	ER 40 SSC - HP	3 ÷ 30 OVERSIZE 31 ÷ 32	41	46,0 OVERSIZE → 39,5

REDUCED SET OF COLLETS SSC - HP TYPE





	COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS
IN PLASTIC TRAY	7360	ER 16 SH Reduced	Ø 4 - 6 - 8 - 10	4
	7361	ER 20 SH Reduced	Ø 4 - 6 - 8 - 10 - 12	5
	7362	ER 25 SH Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16	6
	7363	ER 32 SH Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16 - 20	7
	7364	ER 40 SH Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16 - 20 - 25	8
IN WOODEN CASE	7370	ER 16 SH Reduced	Ø 4 - 6 - 8 - 10	4
	7371	ER 20 SH Reduced	Ø 4 - 6 - 8 - 10 - 12	5
	7372	ER 25 SH Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16	6
	7373	ER 32 SH Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16 - 20	7
	7374	ER 40 SH Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16 - 20 - 25	8

COMPLETE SET OF COLLETS SSC - HP TYPE

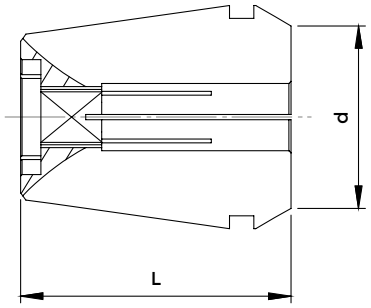




	COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS
IN PLASTIC TRAY	7365	ER 16 SH Complete	from Ø 3 to Ø 10	8
	7366	ER 20 SH Complete	from Ø 3 to Ø 13	11
	7367	ER 25 SH Complete	from Ø 3 to Ø 16	14
	7368	ER 32 SH Complete	from Ø 3 to Ø 20	18
	7369	ER 40 SH Complete	from Ø 4 to Ø 26	23
IN WOODEN CASE	7375	ER 16 SH Complete	from Ø 3 to Ø 10	8
	7376	ER 20 SH Complete	from Ø 3 to Ø 13	11
	7377	ER 25 SH Complete	from Ø 3 to Ø 16	14
	7378	ER 32 SH Complete	from Ø 3 to Ø 20	18
	7379	ER 40 SH Complete	from Ø 4 to Ø 26	23

ER COLLETS WITH SQUARE FOR TAPPING





The drag square for the tapping tool is made on the bottom of the collet.

DIN 6499/A

COD.	DESCRIPTION	RANGE	d	L
5573 MF	ER 11 MF - con Quadro	Ø 3,5 ÷ Ø 6,0	11,5	18
0364 MF	ER 16 MF - con Quadro	Ø 3,5 ÷ Ø 8,0	17	27,5
0787 MF	ER 20 MF - con Quadro	Ø 3,5 ÷ Ø 10,0	21	31,5
0996 MF	ER 25 MF - con Quadro	Ø 3,5 ÷ Ø 12,0	26	34
0988 MF	ER 32 MF - con Quadro	Ø 3,5 ÷ Ø 16,0	33	40
0821 MF	ER 40 MF - con Quadro	Ø 4,5 ÷ Ø 20,0	41	46
4055 MF	ER 50 MF - con Quadro	Ø 8,0 ÷ Ø 32,0	52	60

REDUCED SET OF COLLETS ER-MF TYPE



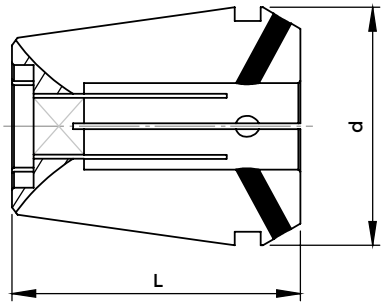


	COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS
IN PLASTIC TRAY	7655	ER 16 MF Reduced	Ø 3,5 - 4,5 - 6 - 7	4
	7656	ER 20 MF Reduced	Ø 3,5 - 4,5 - 6 - 7 - 8 - 9 - 10	7
	7657	ER 25 MF Reduced	Ø 3,5 - 4,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12	9
	7658	ER 32 MF Reduced	Ø 4,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 14 - 16	10
	7659	ER 40 MF Reduced	Ø 6 - 7 - 8 - 9 - 10 - 11 - 12 - 14 - 16 - 18 - 20	11
IN WOODEN CASE	7660	ER 16 MF Reduced	Ø 3,5 - 4,5 - 6 - 7	4
	7661	ER 20 MF Reduced	Ø 3,5 - 4,5 - 6 - 7 - 8 - 9 - 10	7
	7662	ER 25 MF Reduced	Ø 3,5 - 4,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12	9
	7663	ER 32 MF Reduced	Ø 4,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 14 - 16	10
	7664	ER 40 MF Reduced	Ø 6 - 7 - 8 - 9 - 10 - 11 - 12 - 14 - 16 - 18 - 20	11

ER COLLETS WITH SQUARE FOR TAPPING

The drag square for the tapping tool is made on the bottom of the collet. Coolant flows exclusively through central hole, collet cuts are sealed with neoprene inserts.
Working pressure: up to 40 Bar / 600 PSI





DIN 6499/A

COD.	DESCRIPTION	RANGE	d	L
5573 ML	ER 11 ML - con Quadro	Ø 3,5 ÷ Ø 6,0	11,5	18
0364 ML	ER 16 ML - con Quadro	Ø 3,5 ÷ Ø 8,0	17	27,5
0787 ML	ER 20 ML - con Quadro	Ø 3,5 ÷ Ø 10,0	21	31,5
0996 ML	ER 25 ML - con Quadro	Ø 3,5 ÷ Ø 12,0	26	34
0988 ML	ER 32 ML - con Quadro	Ø 3,5 ÷ Ø 16,0	33	40
0821 ML	ER 40 ML - con Quadro	Ø 4,5 ÷ Ø 20,0	41	46
4055 ML	ER 50 ML - con Quadro	Ø 8,0 ÷ Ø 32,0	52	60

REDUCED SET OF COLLETS ER-ML TYPE

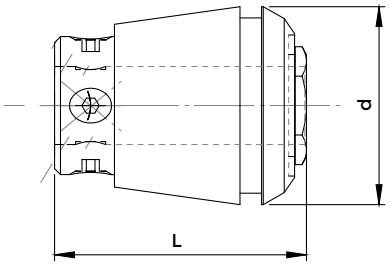




	COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS
IN PLASTIC TRAY	7756	ER 16 ML Reduced	Ø 3,5 - 4,5 - 6 - 7	4
	7757	ER 20 ML Reduced	Ø 3,5 - 4,5 - 6 - 7 - 8 - 9 - 10	7
	7758	ER 25 ML Reduced	Ø 3,5 - 4,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12	9
	7759	ER 32 ML Reduced	Ø 4,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 14 - 16	10
	7760	ER 40 ML Reduced	Ø 6 - 7 - 8 - 9 - 10 - 11 - 12 - 14 - 16 - 18 - 20	11
IN WOODEN CASE	7761	ER 16 ML Reduced	Ø 3,5 - 4,5 - 6 - 7	4
	7762	ER 20 ML Reduced	Ø 3,5 - 4,5 - 6 - 7 - 8 - 9 - 10	7
	7763	ER 25 ML Reduced	Ø 3,5 - 4,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12	9
	7764	ER 32 ML Reduced	Ø 4,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 14 - 16	10
	7765	ER 40 ML Reduced	Ø 6 - 7 - 8 - 9 - 10 - 11 - 12 - 14 - 16 - 18 - 20	11

ER COLLETS – TENSION ADJUSTMENT





Tapping tool is clamped by the screws placed on the mobile part.

DIN 6499

COD.	DESCRIPTION	RANGE	d	L	T	STOP RING
						C
0364 AM	ER 16 - Compensate	Ø 2,0 ÷ Ø 6,0	17	27	7	9395
0787 AM	ER 20 - Compensate	Ø 2,5 ÷ Ø 7,0	21	31	7	9396
0996 AM	ER 25 - Compensate	Ø 2,5 ÷ Ø 10,0	26	34	8	9397
0988 AM	ER 32 - Compensate	Ø 4,5 ÷ Ø 12,5	33	43	10	9398
0821 AM	ER 40 - Compensate	Ø 6,0 ÷ Ø 16,0	41	54	13	9399

REDUCED SET OF ER-AM COLLETS



	COD.	DESCRIPTION	DIAMETERS	N°OF COLLETS
IN WOODEN CASE	7741	ER 16 AM Reduced	Ø 2,5 - 2,8 - 3,5 - 4,5 - 6	5
	7742	ER 20 AM Reduced	Ø 2,5 - 2,8 - 3,5 - 4,5 - 6 - 7	6
	7743	ER 25 AM Reduced	Ø 3,5 - 4,5 - 6 - 7 - 8 - 9 - 10	7
	7744	ER 32 AM Reduced	Ø 4,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12	8
	7745 *	ER 40 AM Reduced	Ø 6 - 7 - 8 - 9 - 10 - 11 - 12 - 14 - 16	9

*Supplied into plastic case code 7024

SHANKS DIMENSIONS FOR METRIC TAPPING TOOLS

SHANK Ø x	STANDARD DIN 352	REINFORCED DIN 371	STANDARD DIN 376	STANDARD ISO	REINFORCED ISO
2,50 x 2,10	M 1,0 ÷ M 1,8	M 1,0 ÷ M 1,8	M 3,5	-	-
2,80 x 2,10	M 2,0 ÷ M 2,5	M 2,0 ÷ M 2,5	M 4,0	-	-
3,15 x 2,50	-	-	-	M 4,0	M 3,0
3,50 x 2,70	M 3,0	M 3,0	M 5,0	-	-
3,55 x 2,80	-	-	-	M 4,5	M 3,5
4,00 x 3,15	M 3,5	M 3,5	-	M 5,0	M 4,0
4,50 x 3,40	M 4,0	M 4,0	M 6,0	-	
5,00 x 4,00	-	-	-	-	M 5,0
5,50 x 4,30	-	-	M 7,0	-	-
5,60 x 4,50	-	-	-	M 7,0	-
6,00 x 4,90	M 5,0 - M 6,0 - M 8,0	M 5,0 - M 6,0	M 8,0		-
6,30 x 5,00	-	-	-	M 8,0	M 6,0
7,00 x 5,50	M 10,0		M 10,0	-	-
7,10 x 5,60	-	-	-	M 9,0	-
8,00 x 6,20	-	M 8,0	-	M 10,0	M 8,0
9,00 x 7,00	M 12,0	-	M 12,0	M 12,0	-
10,00 x 8,00	-	M 10,0		-	M 10,0
11,00 x 9,00	M 14,0	-	M 14,0	-	-
11,20 x 9,00	-	-	-	M 14,0	-
12,00 x 9,00	M 16,0	-	M 16,0	-	-
12,50 x 10,00	-	-	-	M 16,0	-
14,00 x 11,00	M 18,0	-	M 18,0	-	-
16,00 x 12,00	M 20,0	-	M 20,0	-	-
18,00 x 14,50	M 22,0 - M 24,0	-	M 22,0 - M 24,0	-	-
20,00 x 16,00	M 27,0	-	M 27,0	M 27,0 - M 30,0	-
22,00 x 18,00	M 30,0	-	M 30,0	-	-
25,00 x 20,00	M 33,0	-	M 33,0	M 36,0	-
28,00 x 22,00	M 36,0	-	M 36,0	-	-
32,00 x 24,00	M 39,0 - M 42,0	-	M 39,0 - M 42,0	-	-

ER NUTS INNER THREADS

NUT	ER 8	ER 11	ER 16	ER 20	ER 25	ER 32	ER 40	ER 50	ER 60	ER 90
 MINI	10 x 0,75	13 x 0,75	19 x 1,0	24 x 1,0	30 x 1,0	-	-	-	-	-
 HEXAGONAL	-	14 x 0,75	22 x 1,5	25 x 1,5	-	-	-	-	-	-
 STANDARD	-	-	22 x 1,5	25 x 1,5	32 x 1,5	40 x 1,5	50 x 1,5	64 x 2,0	70 x 1,5	110 x 1,5

ASSEMBLING OF COLLETS IN ER NUTS

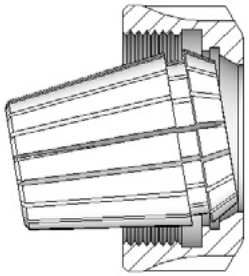


Fig. 1

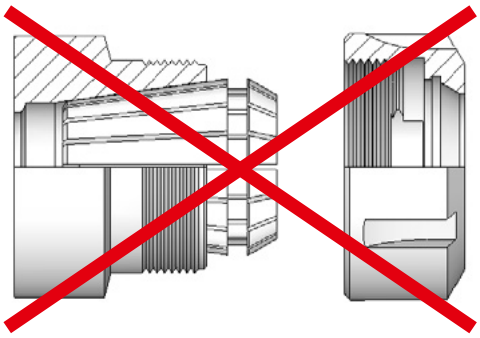


Fig. 2

RIGHT PROCEDURE TO ASSEMBLE THE COLLET IN THE NUT

A) Insert the collet into the nut inclining it untill the collet groove matches with nut excentric seat (picture 1).

B) Once the collet has been mounted in the nut (point A), screw the assembly on the spindle.

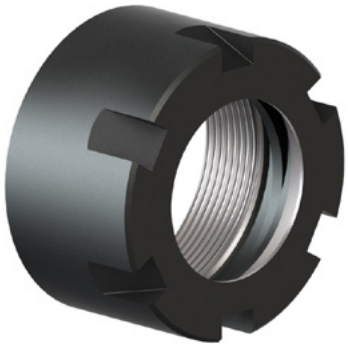
C) After insert the tool into the collet, is suggested to use the suitable wrench to complete the tightening.

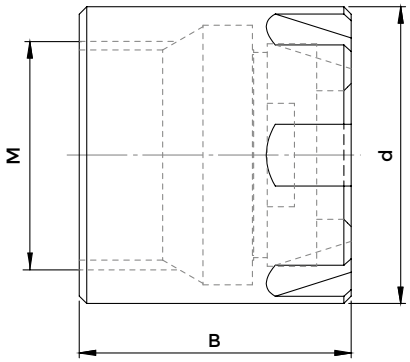
WRONG PROCEDURE TO ASSEMBLE THE COLLET IN THE NUT

D) Inserting the collet into the spindle seat without first assembling it with the nut (picture 2) irremediably compromises the whole integrity :

- excentric in the nut breaks because of the pressure made by the collet. Such a breakage will not permit anymore the extraction of the collet that then will stay locked in its seat.
- during the nut screwing, broken excentric residuals cause scrapeson conic grindedpart of the collet compromising the exact matching.

ER CLAMPING NUTS MINI TYPE





DIN 6499

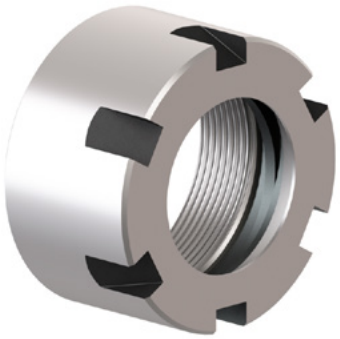
RIGHT THREAD

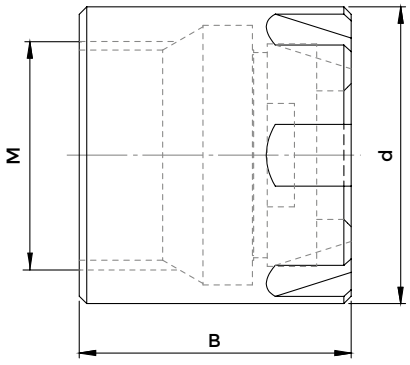
COD.	DESCRIPTION	d	B	M	COLLET	WRENCH
0373	GM 8	12	11	10 x 0,75	0554	5717
0432	GM 11	16	12	13 x 0,75	5573	5718
1229	GM 16	22	18	19 x 1,00	0364	5719
1230	GM 20	28	19	24 x 1,00	0787	5720
1231	GM 25	35	20	30 x 1,00	0996	5721

LEFT THREAD

COD.	DESCRIPTION	d	B	M	COLLET	WRENCH
1188	GM 8 L	12	10	10 x 0,75 SX	0554	5717
1189	GM 11 L	16	12	13 x 0,75 SX	5573	5718
1233	GM 16 L	22	18	19 x 1,00 SX	0364	5719
1234	GM 20 L	28	19	24 x 1,00 SX	0787	5720
1235	GM 25 L	35	20	30 x 1,00 SX	0996	5721

ER CLAMPING NUTS MINI TYPE



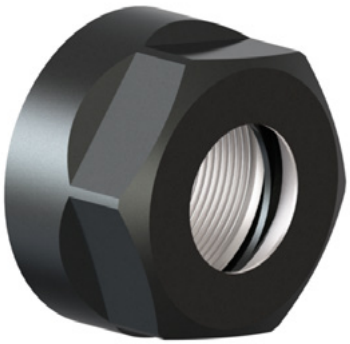


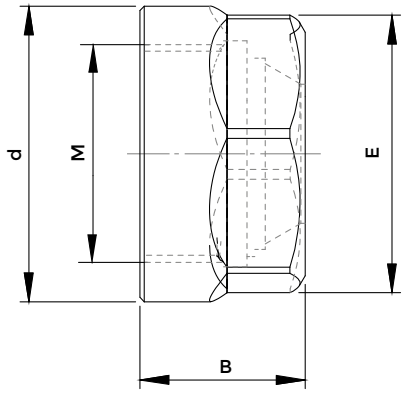
DIN 6499

GROUND OUTSIDE - RIGHT THREAD

COD.	DESCRIPTION	d	B	M	COLLET	WRENCH
5690	GM 8 W	12	10	10 x 0,75	0554	5717
5691	GM 11 W	16	12	13 x 0,75	5573	5718
5694	GM 16 W	22	18	19 x 1,00	0364	5719
5695	GM 20 W	28	19	24 x 1,00	0787	5720
5696	GM 25 W	35	20	30 x 1,00	0996	5721

ER CLAMPING NUTS HEXAGONAL TYPE





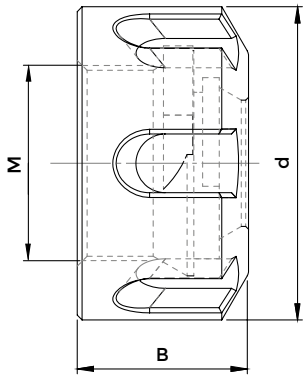
DIN 6499

RIGHT THREAD

COD.	DESCRIPTION	d	E	B	M	COLLET	WRENCH
1157	GE 11	19	17	11,3	14 x 0,75	5573	2905
0342	GE 12	19	17	14	14 x 0,75	5601	2905
1214	GE 16	28	25	17,5	22 x 1,50	0364	2906
1215	GE 20	34	30	19	25 x 1,50	0787	2907

ER CLAMPING NUTS STANDARD TYPE





DIN 6499

RIGHT THREAD

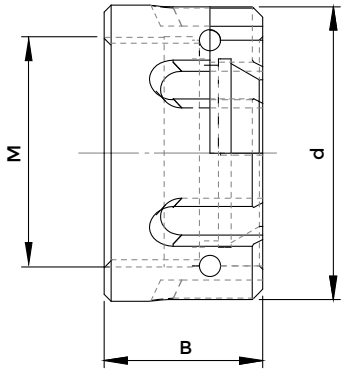
COD.	DESCRIPTION	d	B	M	COLLET	WRENCH
4993	GS 16	32	17,5	22 x 1,5	0364	3698
4994	GS 20	35	19	25 x 1,5	0787	3699
4995	GS 25	42	20	32 x 1,5	0996	3669
4996	GS 32	50	22,5	40 x 1,5	0988	3670
4997	GS 40	63	25,5	50 x 1,5	0821	3671
4998	GS 50	78	35,5	64 x 2,0	4055	3668

LEFT THREAD

COD.	DESCRIPTION	d	B	M	COLLET	WRENCH
3071	GS 16 L	32	17,5	22 x 1,5 SX	0364	3698
3072	GS 20 L	35	19	25 x 1,5 SX	0787	3699
3073	GS 25 L	42	20	32 x 1,5 SX	0996	3669
3074	GS 32 L	50	22,5	40 x 1,5 SX	0988	3670
3075	GS 40 L	63	25,5	50 x 1,5 SX	0821	3671

ER CLAMPING NUTS STANDARD TYPE - BALL BEARING EXECUTION





DIN 6499

RIGHT THREAD

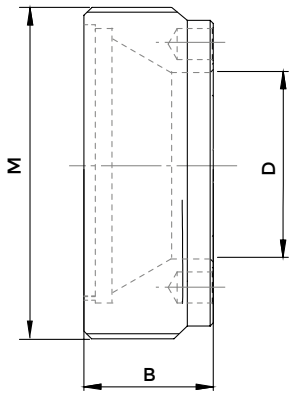
COD.	DESCRIPTION	d	B	M	COLLET	WRENCH
2713	GS 16 B	32	20	22 x 1,5	0364	3698
2714	GS 20 B	35	22	25 x 1,5	0787	3699
2715	GS 25 B	42	22,5	32 x 1,5	0996	3669
2716	GS 32 B	50	25	40 x 1,5	0988	3670
2717	GS 40 B	63	28	50 x 1,5	0821	3671
2913	GS 50 B	78	40	64 x 2,0	4055	3668
5714	GS 60 B	83	36	70 x 1,5	4056	-

CHARACTERISTICS AND ADVANTAGES

- Collet clamping force is increased.
- Avoids collet torsion reducing friction with its seat and consequently preserves its accuracy.
- Interchangeable with standard and hexagonal nuts.

ER CLAMPING NUTS WITH OUTSIDE THREAD - "GA" TYPE

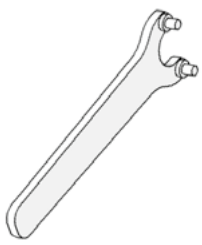




DIN 6499

COD.	DESCRIPTION	B	M	D	COLLET	WRENCH
2867	GA 11	6,0	18 x 1,0	9	5573	3169
2868	GA 16	8,0	24 x 1,0	12,8	364	3170
2869	GA 20	11,0	28 x 1,5	16	787	3171
2870	GA 25	12,5	32 x 1,5	18	996	3172
2871	GA 32	14,00	40 x 1,5	25,5	988	3173

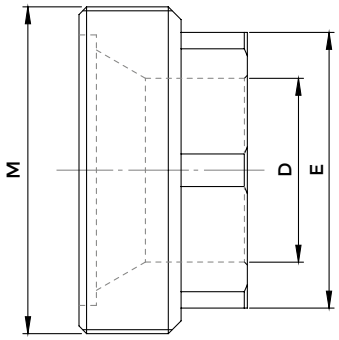
WRENCHES FOR "GA" TYPE CLAMPING NUTS



COD.	DESCRIPTION	NUT
3169	CH ER 11 GA	2867
3170	CH ER 16 GA	2868
3171	CH ER 20 GA	2869
3172	CH ER 25 GA	2870
3173	CH ER 32 GA	2871

ER CLAMPING NUTS “GA-E” TYPE WITH OUTSIDE THREAD - HEXAGONAL HOLD





DIN 6499

COD.	DESCRIPTION	E	B	M	D	COLLET	WRENCH
2601	GA 11 E	13	10	18 x 1,0	9	5573	5491
2606	GA 16 E	19	11	24 x 1,0	12,8	0364	5492
2610	GA 20 E	22	14	28 x 1,5	16	0787	5493
2611	GA 25 E	27	14	32 x 1,5	20,5	0996	5494
2612	GA 32 E	32	17,5	40 x 1,5	25,5	0988	5495
2613	GA 40 E	42	17,1	50 x 1,5	34	0821	5496

WRENCHES FOR “GA-E” TYPE CLAMPING NUTS



COD.	DESCRIPTION	NUT
5491	CH ER 11 GA-E	2601
5492	CH ER 16 GA-E	2606
5493	CH ER 20 GA-E	2610
5494	CH ER 25 GA-E	2611
5495	CH ER 32 GA-E	2612
5496	CH ER 40 GA-E	2613

ER WRENCHES FOR MINI CLAMPING NUTS



DIN 6499

COD.	DESCRIPTION	Ø	NUT
5717	CH 8 Mini	12	0373
5718	CH 11 Mini	16	0432
5719	CH 16 Mini	22	1229
5720	CH 20 Mini	28	1230
5721	CH 25 Mini	35	1231

ER WRENCHES FOR EXAGONAL CLAMPING NUTS



DIN 6499

COD.	DESCRIPTION	E	NUT
2905	CH 11 CE	17	1157
2905	CH 12 CE	17	0342
2906	CH 16 CE	25	1214
2907	CH 20 CE	30	1215

ER WRENCHES FOR STANDARD CLAMPING NUTS



DIN 6499

COD.	DESCRIPTION	Ø	NUT
3698	CH 16 ST	32	4993
3699	CH 20 ST	35	4994
3669	CH 25 ST	42	4995
3670	CH 32 ST	50	4996
3671	CH 40 ST	63	4997
3668	CH 50 ST	78	4998

ER WRENCHES FOR SIDE GRIP CLAMPING NUTS



DIN 6499

COD.	DESCRIPTION	Ø	NUT
2880	CH ER 11 GT - CH 6 GOC	20	5090
2820	CH 8 GOC	26	8642
2881	CH ER 16 GT - CH 10 GOC	32	5091
2882	CH ER 20 GT- CH 12 GOC	35	5092
2883	CH ER 25 GT- CH 16 GOC	42	5093
2908	CH ER 32 GT- CH 20 GOC	50	5094
2909	CH ER 40 GT- CH 25 GOC	63	5095
2910	CH EOC 32 PC CH 32 GOC	72	4069
2836	CH 40 GOC	85	8645

ER TORQUE WRENCHES FOR MINI CLAMPING NUTS



DIN 6499

COD.	DESCRIPTION	TORQUE	Ø	NUT
9786	CD 8 Mini	8 Nm	12	0373
9787	CD 11 Mini	18 Nm	16	0432
9788	CD 16 Mini	28 Nm	22	1229
9789	CD 20 Mini	35 Nm	28	1230
9790	CD 25 Mini	40 Nm	35	1231

ER TORQUE WRENCHES FOR HEXAGONAL CLAMPING NUTS

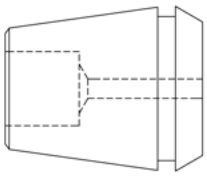


DIN 6499

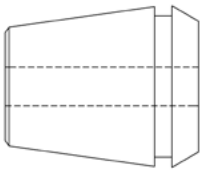
COD.	DESCRIPTION	TORQUE		E	NUT
9791	CD 11 CE	20 Nm		17	1157
9791	CD 12 CE	20 Nm		17	0342
9792	CD 16 CE	30 Nm	50 Nm	25	1214
9793	CD 20 CE	40 Nm	70 Nm	30	1215

ER TORQUE WRENCHES FOR STANDARD CLAMPING NUTS





For wrought collets, select MINIMUM Torque



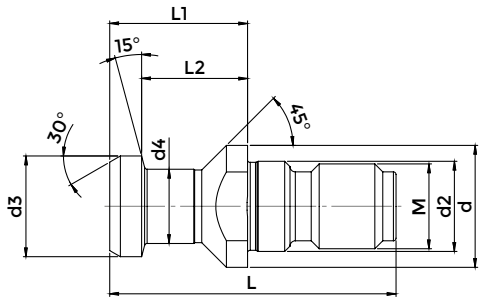
For normal collets, select MAXIMUM Torque

DIN 6499

COD.	DESCRIPTION	TORQUE		Ø	NUT
9794	CD 16 ST	30 Nm	50 Nm	32	4993
9795	CD 20 ST	40 Nm	70 Nm	35	4994
9796	CD 25 ST	55 Nm	90 Nm	42	4995
9797	CD 32 ST	70 Nm	130 Nm	50	4996
9798	CD 40 ST	120 Nm	200 Nm	63	4997

DIN 69872 PULL STUDS WITHOUT COOLANT BORE (ISO 7388-3 form AD - AF)



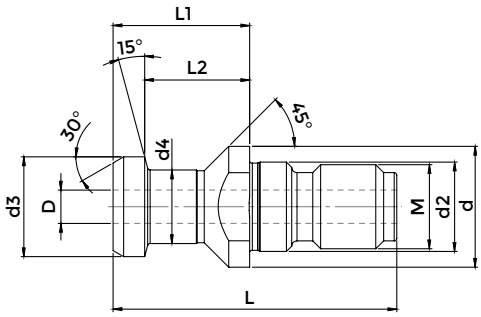


DIN 69872

COD. (WITHOUT OR)	COD. (WITH OR)	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2
3489	-	69872 ISO 30 - NON FORATO	M 12	17	13	13	9	44	24	19
4573	3268	69872 ISO 40 - NON FORATO	M 16	23	17	19	14	54	26	20
4574	-	69872 ISO 45 - NON FORATO	M 20	30	21	23	17	65	30	23
4575	3270	69872 ISO 50 - NON FORATO	M 24	36	25	28	21	74	34	25

DIN 69872 PULL STUDS WITH COOLANT BORE (ISO 7388-3 form AD - AF)

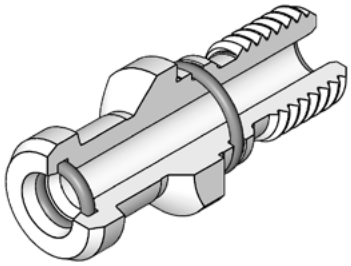


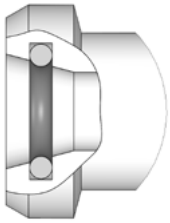


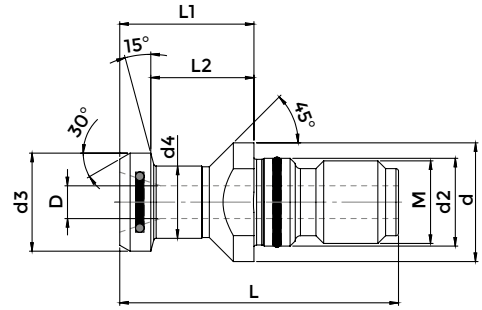
DIN 69872

COD. (WITHOUT OR)	COD. (WITH OR)	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2	D
3423	-	69872 ISO 30 - FORATO	M 12	17	13	13	9	44	24	19	3
3476	3040	69872 ISO 40 - FORATO	M16	23	17	19	14	54	26	20	7
-	4548	69872 ISO 40 - OKUMA	M 16	23	17	19	14	54	26	20	4
3477	-	69872 ISO 45 - FORATO	M 20	30	21	23	17	65	30	23	9,5
3478	3042	69872 ISO 50 - FORATO	M 24	36	25	28	21	74	34	25	11,5

DIN 69872 PULL STUDS WITH COOLANT BORE AND DOUBLE O-RING (ISO 7388-3 form AD - AF)





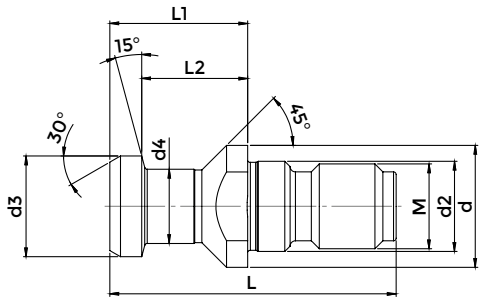


DIN 69872

COD.	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2	D
3222	69872 ISO 40 - FORATO con DOPPIO OR	M 16	23	17	19	14	54	26	20	7
3223	69872 ISO 50 - FORATO con DOPPIO OR	M 24	36	25	28	21	74	34	25	11,5

DIN 69872 TYPE PULL STUDS SUITABLE FOR BT SHANKS WITHOUT COOLANT BORE



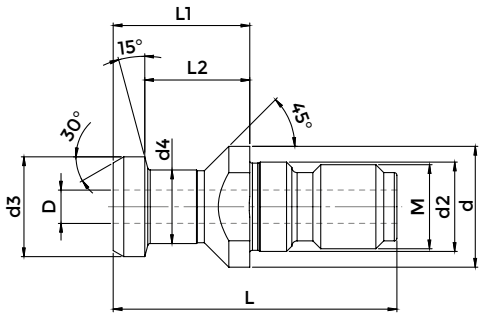


DIN 69872

COD. (WITHOUT OR)	COD. (WITH OR)	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2
3157	3158	69872 / BT 40 - NON FORATO	M16	23	17	19	14	54	29	23

DIN 69872 TYPE PULL STUDS SUITABLE FOR BT SHANKS WITH COOLANT BORE

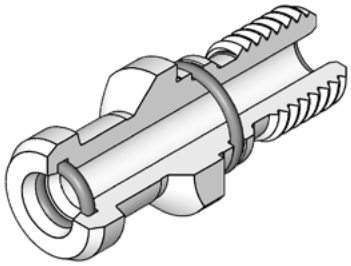


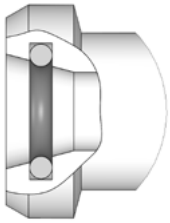


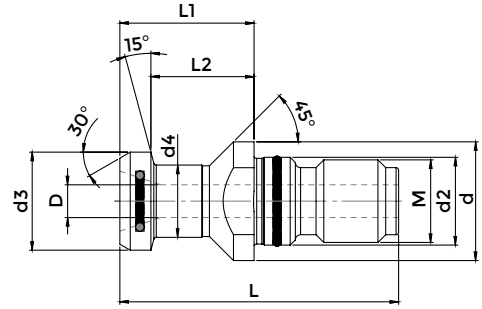
DIN 69872

COD. (WITHOUT OR)	COD. (WITH OR)	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2	D
3191	3192	69872 / BT 40 - FORATO	M16	23	17	19	14	54	29	23	7

DIN 69872 TYPE PULL STUDS SUITABLE FOR BT SHANKS WITH COOLANT BORE AND DOUBLE O-RING





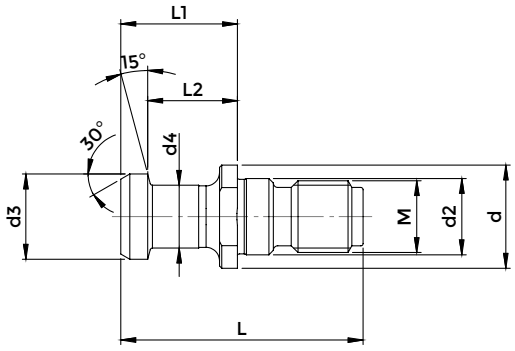


DIN 69872

COD.	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2	D
3403	69872 / BT 40 - FORATO con DOPPIO OR	M16	23	17	19	14	54	29	23	7

ISO 7388/2 A PULL STUDS WITHOUT COOLANT BORE



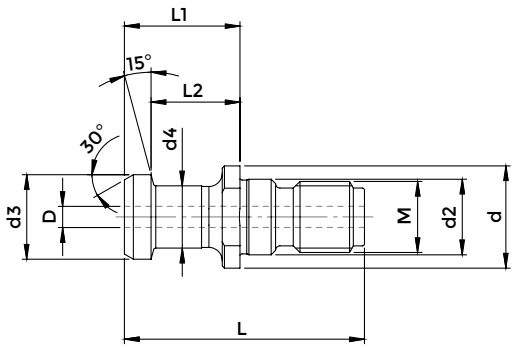


ISO 7388/A

COD. (WITHOUT OR)	COD. (WITH OR)	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2
3479	-	7388/2A ISO30 - NON FORATO	M 12	16	13	12	8	44	24	19
4576	4582	7388/2A ISO40 - NON FORATO	M 16	23	17	19	14	54	26	20
4577	-	7388/2A ISO45 - NON FORATO	M 20	30	21	23	17	65	30	23
4578	4584	7388/2A ISO50 - NON FORATO	M 24	36	25	28	21	74	34	25

ISO 7388/2 A PULL STUDS WITH COOLANT BORE





ISO 7388/A

COD. (WITHOUT OR)	COD. (WITH OR)	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2	D
3480	3047	7388/2A ISO40 - FORATO	M 16	23	17	19	14	54	26	20	7
3481	-	7388/2A ISO45 - FORATO	M 20	30	21	23	17	65	30	23	9,5
3482	3049	7388/2A ISO50 - FORATO	M 24	36	25	28	21	74	34	25	11,5

ISO 7388/2 A PULL STUDS WITH ID COUNTERBORE

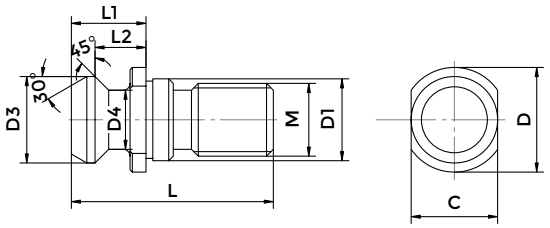


ISO 7388/A

ID counterbore is carried out upon customer specification

ISO 7388/2 B PULL STUDS (ISO 7388-3 form UD - UF) WITHOUT COOLANT BORE



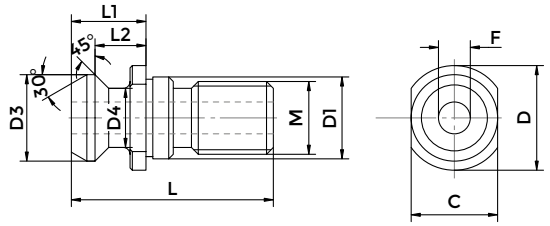


ISO 7388/B

COD. (WITHOUT OR)	COD. (WITH OR)	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2
3483	-	7388/2B ISO30 - NON FORATO	M 12	17	12,5	13,3	9,3	34	11,8	8,1
4579	4585	7388/2B ISO40 - NON FORATO	M 16	22,5	17	18,9	12,9	44,5	16,4	11,1
4580	-	7388/2B ISO45 - NON FORATO	M 20	30	21	24	16,3	56	20,9	14,8
4581	4587	7388/2B ISO50 - NON FORATO	M 24	37	25	29,1	19,6	65,5	25,5	17,9

ISO 7388/2 B PULL STUDS (ISO 7388-3 form UD - UF) WITH COOLANT BORE





ISO 7388/B

COD. (WITHOUT OR)	COD. (WITH OR)	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2	D
3484	3050	7388/2B ISO40 - FORATO	M 16	22,5	17	18,9	12,9	44,5	16,4	11,1	7,3
3485	-	7388/2B ISO45 - FORATO	M 20	30	21	24	16,3	56	20,9	14,8	9,2
3486	3052	7388/2B ISO50 - FORATO	M 24	37	25	29,1	19,6	65,5	25,5	17,9	11,5

ISO 7388/2 B PULL STUDS (ISO 7388-3 form UD - UF) WITH ID COUNTERBORE

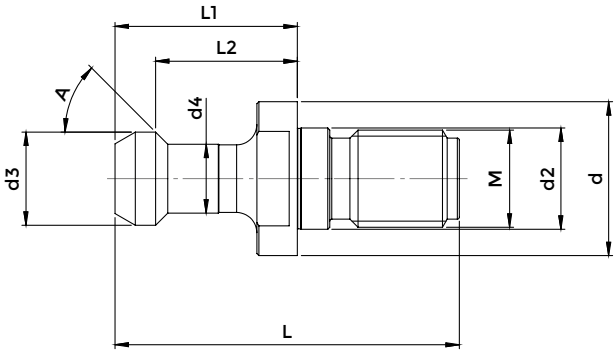


ISO 7388/B

ID counterbore is carried out upon customer specification

BT PULL STUDS (ISO 7388-3 form JD - JF) WITHOUT COOLANT BORE



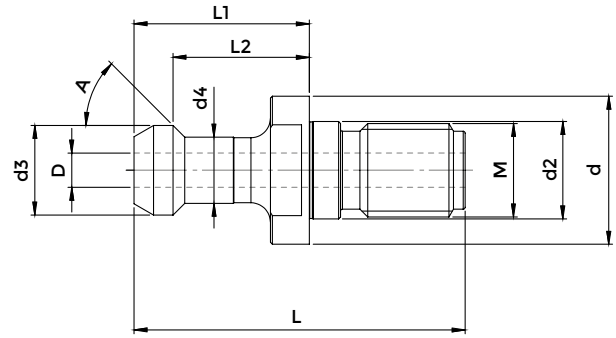


MAS BT

COD. (WITHOUT OR)	COD. (WITH OR)	DESCRIPTION	A	M	d	d2	d3	d4	L	L1	L2
3288	-	BT 30 - 45° NON FORATO	45 °	M 12	16,5	12,5	11	7	43	23	18
3287	-	BT 30 - 60° NON FORATO	60°	M 12	16,5	12,5	11	7	43	23	18
3290	-	BT 35 - 45° NON FORATO	45°	M 12	20	13	13	8,5	48	28	22,5
3292	3316	BT 40 - 45° NON FORATO	45°	M 16	23	17	15	10	60	35	28
3293	3315	BT 40 - 60° NON FORATO	60°	M 16	23	17	15	10	60	35	28
3294	3318	BT 40 - 90° NON FORATO	90°	M 16	23	17	15	10	60	35	28
3297	-	BT 45 - 45° NON FORATO	45°	M 20	31	21	19	14	70	40	31
3298	-	BT 45 - 60° NON FORATO	60°	M 20	31	21	19	14	70	40	31
3300	3325	BT 50 - 45° NON FORATO	45°	M 24	38	25	23	17	85	45	35
3301	3322	BT 50 - 60° NON FORATO	60°	M 24	38	25	23	17	85	45	35
3302	3326	BT 50 - 90° NON FORATO	90°	M 24	38	25	23	17	85	45	35

BT PULL STUDS (ISO 7388-3 form JD - JF) WITH COOLANT BORE

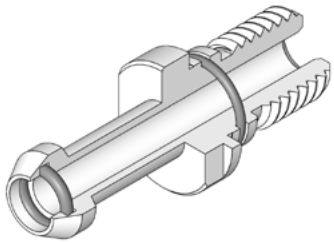




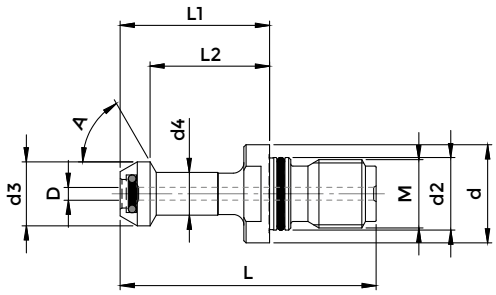
MAS BT

COD. (WITHOUT OR)	COD. (WITH OR)	DESCRIPTION	A	M	d	d2	d3	d4	L	L1	L2	D
3225	-	BT 30 - 45° FORATO	45°	M 12	16,5	12,5	11	7	43	23	18	2,5
3224	-	BT 30 - 60° FORATO	60°	M 12	16,5	12,5	11	7	43	23	18	2,5
3328	3430	BT 40 - 45° FORATO	45°	M 16	23	17	15	10	60	35	28	4
3327	3429	BT 40 - 60° FORATO	60°	M 16	23	17	15	10	60	35	28	4
3330	3431	BT 40 - 90° FORATO	90°	M 16	23	17	15	10	60	35	28	4
3332	3501	BT 50 - 45° FORATO	45°	M 24	38	25	23	17	85	45	35	6
3331	3500	BT 50 - 60° FORATO	60°	M 24	38	25	23	17	85	45	35	6
3333	3502	BT 50 - 90° FORATO	90°	M 24	38	25	23	17	85	45	35	6

BT PULL STUDS WITH COOLANT BORE AND DOUBLE O-RING





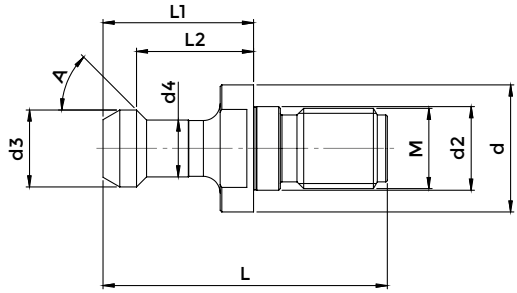


MAS BT

COD.	DESCRIPTION	A	M	d	d2	d3	d4	L	L1	L2	D
3131	BT 40 - 45° FORATO con DOPPIO OR	45°	M 16	23	17	15	10	60	35	28	3
3132	BT 40 - 60° FORATO con DOPPIO OR	60°	M 16	23	17	15	10	60	35	28	3
3133	BT 50 - 45° FORATO con DOPPIO OR	45°	M 24	38	25	23	17	85	45	35	6
3134	BT 50 - 60° FORATO con DOPPIO OR	60°	M 24	38	25	23	17	85	45	35	6
3135	BT 50 - 90° FORATO con DOPPIO OR	90°	M 24	38	25	23	17	85	45	35	6

BT TYPE PULL STUDS SUITABLE FOR DIN 69871 SHANKS WITHOUT COOLANT BORE



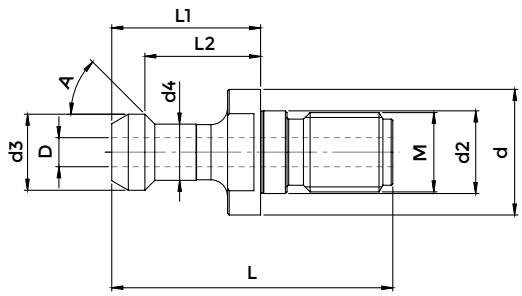


DIN 69871

COD. (WITHOUT OR)	COD. (WITH OR)	DESCRIPTION	A	M	d	d2	d3	d4	L	L1	L2
3291	4632	SK 40 - 45° NON FORATO	45°	M 16	23	17	15	10	57	32	25
-	4631	SK 40 - 60° NON FORATO	60°	M 16	23	17	15	10	57	32	25
3296	4633	SK 40 - 90° NON FORATO	90°	M 16	23	17	15	10	57	32	25

BT TYPE PULL STUDS SUITABLE FOR DIN 69871 SHANKS WITH COOLANT BORE



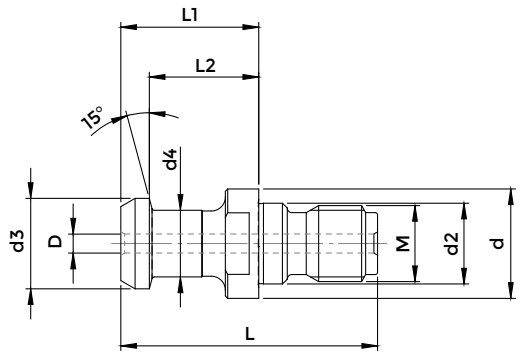


DIN 69871

COD. (WITHOUT OR)	COD. (WITH OR)	DESCRIPTION	A	M	d	d2	d3	d4	L	L1	L2	D
4635	4638	SK 40 - 45° FORATO	45°	M 16	23	17	15	10	57	32	25	4
-	4637	SK 40 - 60° FORATO	60°	M 16	23	17	15	10	57	32	25	4
-	4639	SK 40 - 90° FORATO	90°	M 16	23	17	15	10	57	32	25	4

JIS B 6339 PULL STUDS WITH COOLANT BORE



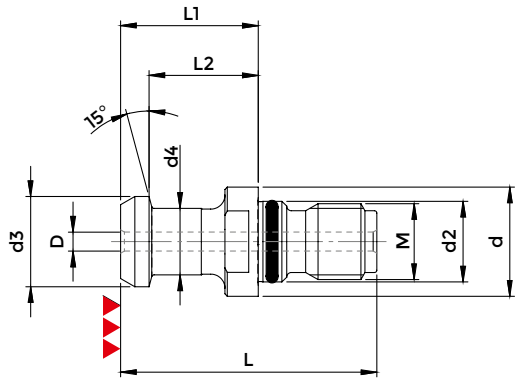


JIS B 6339

COD. (WITHOUT OR)	COD. (WITH OR)	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2	D
3334	-	6339 ISO 30 - FORATO	M 12	16,5	12,5	12	8	43	23,4	18,4	4
3084	3097	6339 ISO 40 - FORATO	M 16	23	17	19	14	54	29	23	4
4588	3317	6339 ISO 40 - FORATO	M 16	23	17	19	14	54	29	23	7
-	3335	6339 ISO 50 - FORATO	M 24	38	25	28	21	74	34	25	10

JIS B 6339 PULL STUDS WITH COOLANT BORE AND GRINDED HEAD



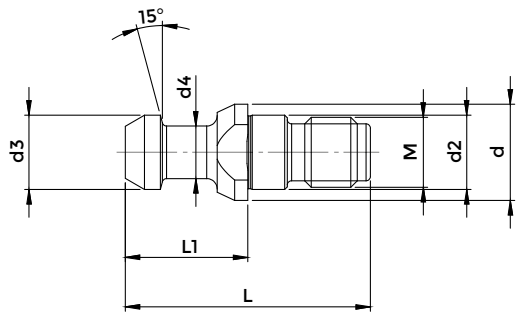


JIS B 6339

COD.	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2	D
4549	6339 ISO 40 FORATO con RASAMENTO RETTIFICATO	M 16	23	17	19	14	54	29	23	4

PULL STUDS FOR ISO 20 SHANK



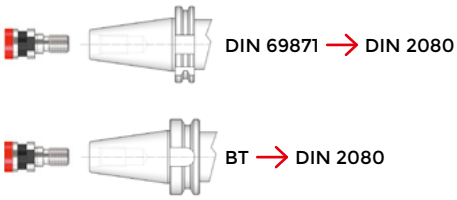


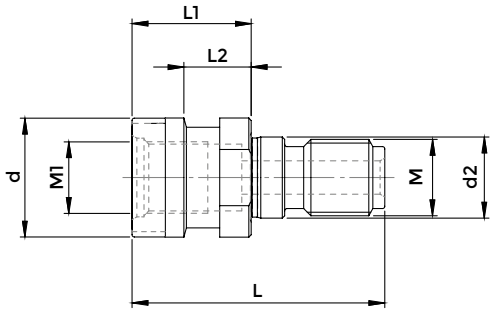
ISO 20

COD.	DESCRIPTION	M	d	d2	d3	d4	L	L1
3491	ISO 20 - M 8 / L 28	M 8	11	8,5	8,5	6	28	14

OTT PULL STUDS ADAPTERS TO DIN 2080





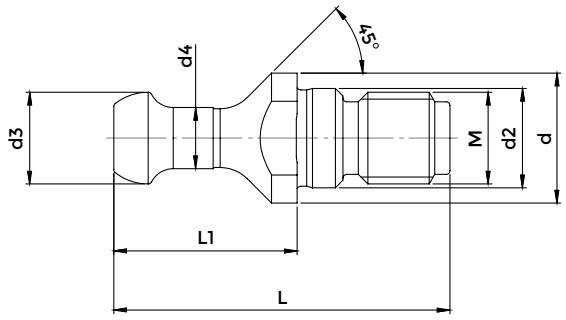


OTT

COD.	DESCRIPTION	M	M1	d	d2	L	L1	L2
3487	OTT M 16 - TC 40	M 16	M 16	25,3	17	53	25	13,6
3466	OTT M 16 - BT 40	M 16	M 16	25,3	17	56	28	16,6
0087	OTT M 24 - CONO 50	M 24	M 24	39,6	25	65	25	13

BIESSE PULL STUDS



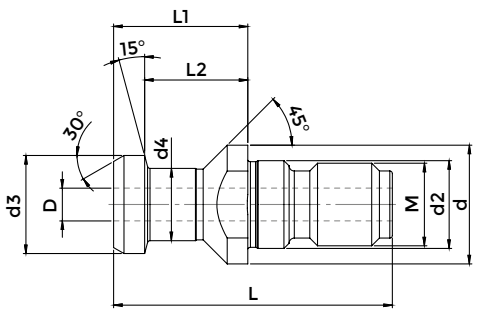


BIESSE

COD.	DESCRIPTION	M	d	d2	d3	d4	L	L1
3492	BIESSE ISO 30 - M 12	M 12	17	13	12	8	44	24

BRIDGEPORT PULL STUDS



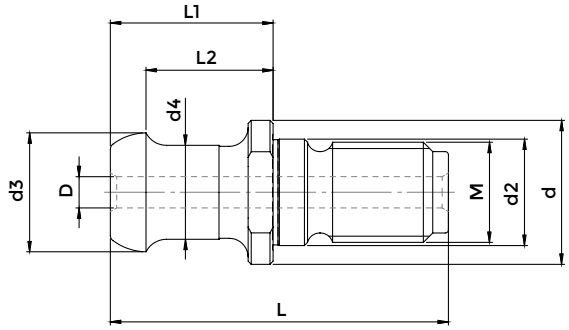


BRIDGEPORT

COD.	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2	D
3359	BRIDGEPORT ISO 40 - M 16	M 16	23	17	19	14	54	29	23	7

C.B. FERRARI PULL STUDS



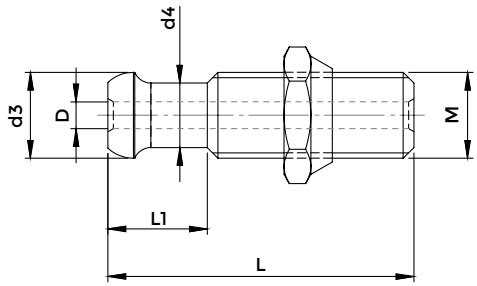


C.B. FERRARI

COD.	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2	D
4597	C.B. FERRARI ISO40 - M16	M 16	23	17	19	15	54	26	20,31	5

C.B. FERRARI PULL STUDS WITH NUT



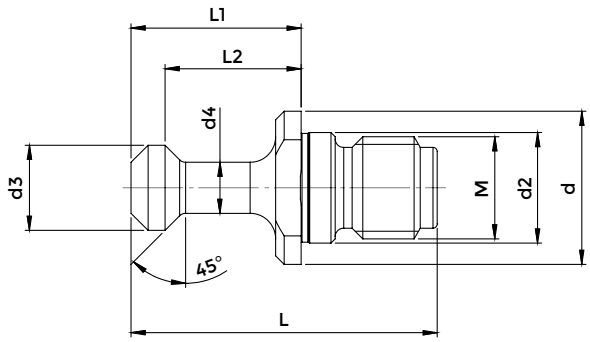


C.B. FERRARI

COD.	DESCRIPTION	M	d3	d4	L	L1	D
3493	C.B. FERRARI ISO40 - M16/DADO	M 16	16	12	57	18,5	5

CHIRON PULL STUDS



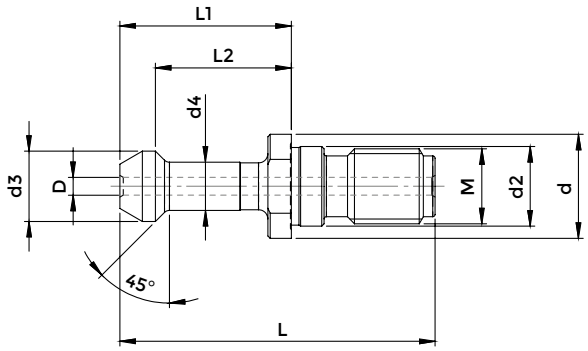


CHIRON

COD.	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2
4593	CHIRON ISO 30 - M 12	M 12	18	13	10	6	36	20	16

CINCINNATI PULL STUDS



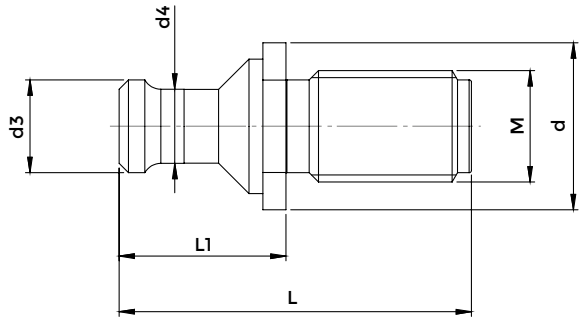


CINCINNATI

COD.	DESCRIPTION	M	L	L1	L2	d	d2	d3	d4	D
4583	CINCINNATI ISO 40 - M16 / L1=36,6	M 16	67,3	36,6	29	22,2	17	15	10,3	3,8
4586	CINCINNATI ISO 40 - M16 / L1=39,4	M 16	67,3	39,4	31,75	22,2	17	15	10,3	3,8

CORREA PULL STUD BOLTS



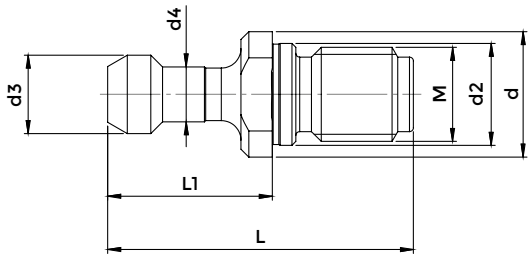


CORREA

COD.	DESCRIPTION	M	d	d3	d4	L	L1
4594	CORREA ISO 50 - M 24	M 24	36	20	16	76	36

MECCANICA CORTINI PULL STUDS



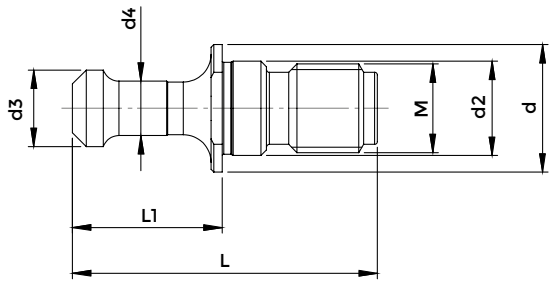


CORTINI

COD.	DESCRIPTION	M	d	d2	d3	d4	L	L1
0064	CORTINI ISO 30 - M 12	M 12	16	13	10	7	39	21

FAMUP PULL STUDS



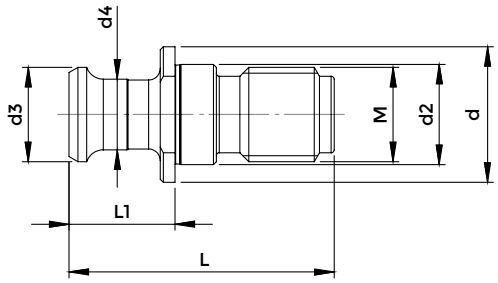


FAMUP

COD.	DESCRIPTION	M	d	d2	d3	d4	L	L1
2756	FAMUP ISO 30 - M12	M 12	16	13	9,8	5,8	40	20
3527	FAMUP ISO 40 - M16 / L=55	M 16	23	17	13,8	9,8	55	27
4590	FAMUP ISO 40 - M16 / L=58	M 16	23	17	13,8	9,8	58	30

GLORIA PULL STUDS



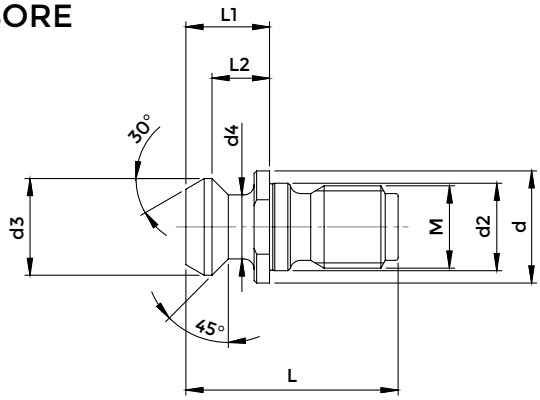


GLORIA

COD.	DESCRIPTION	M	d	d2	d3	d4	L	L1
3471	GLORIA ISO 40 - M 16	M 16	23	17	16	12	45	18

MAZAK PULL STUDS WITHOUT COOLANT BORE



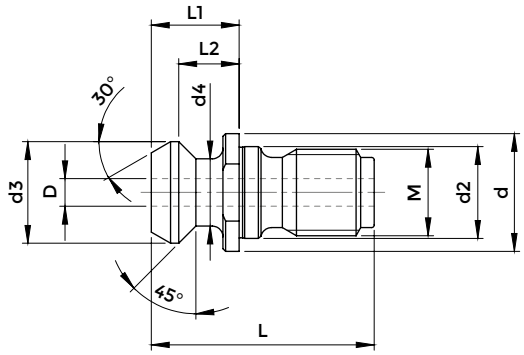


MAZAK

COD. (WITHOUT OR)	COD. (WITH OR)	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2	
4541	4542	MAZAK SK 40 - NON FORATO	M 16	21,8	17	18,79	12,44	41,25	16,25	11,17	DIN 69871/ CAT
4543	4544	MAZAK BT 40 - NON FORATO	M 16	22	17	18,79	12,44	44,1	19,1	14,02	BT

MAZAK PULL STUDS WITH COOLANT BORE



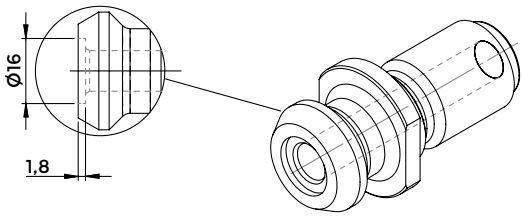


MAZAK

COD. (WITHOUT OR)	COD. (WITH OR)	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2	D	
4589	4772	MAZAK SK 40 - FORATO	M16	21,8	17	18,79	12,44	41,25	16,25	11,17	7	DIN 69871/ CAT
4592	4773	MAZAK BT 40 - FORATO	M16	22	17	18,79	12,44	44,1	19,1	14,02	7	BT
4776	4777	MAZAK SK 50 - FORATO	M24	35,5	25	28,95	20,82	65,4	25,4	17,78	10	DIN 69871/ CAT
4778	4779	MAZAK BT 50 - FORATO	M24	37	25	28,95	20,82	65,2	25,2	17,58	10	BT

MAZAK PULL STUDS WITH COOLANT BORE AND COUNTERBORE



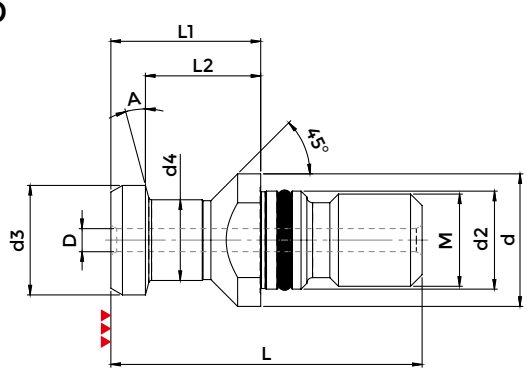


MAZAK

COD. (WITHOUT OR)	COD. (WITH OR)	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2	D	
3269	4774	MAZAK SK 50 con LAMATURA	M24	35,5	25	28,95	20,82	65,4	25,4	17,78	10	DIN 69871 / CAT
3352	4775	MAZAK BT 50 con LAMATURA	M24	37	25	28,95	20,82	65,2	25,2	17,58	10	BT

OKUMA PULL STUDS (FOR DIN) WITH COOLANT BORE AND GRINDED HEAD





OKUMA

COD.	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2	D	A
4548	OKUMA SK 40 - FORATO	M 16	23	17	19	14	54	26	20	4	15°

OKUMA PULL STUDS (FOR BT) WITH COOLANT BORE AND GRINDED HEAD

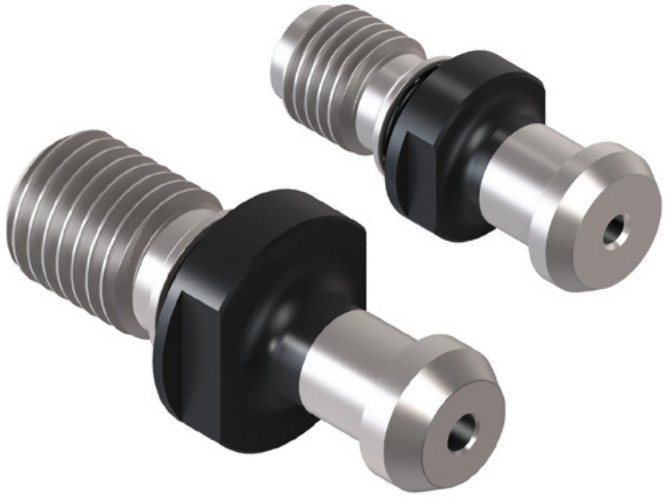


FIG. 1

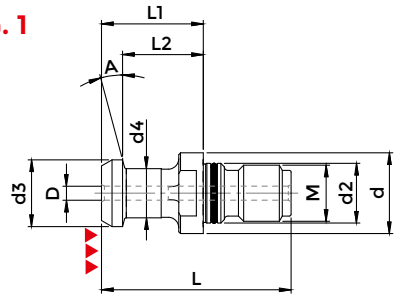
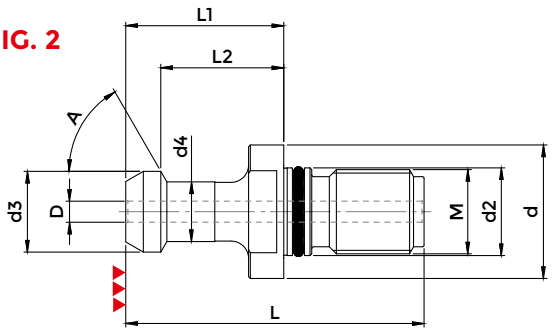


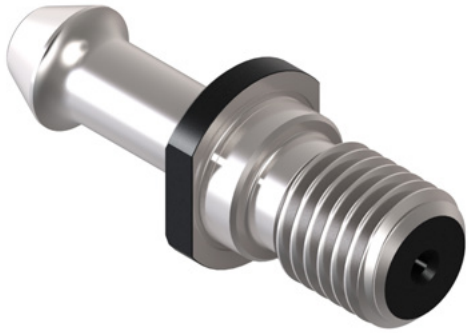
FIG. 2

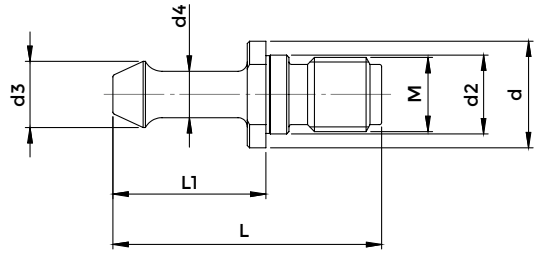


OKUMA

COD.	DESCRIPTION	M	d	d2	d3	d4	L	L1	L2	D	A	FIG.
4549	OKUMA BT 40 - FORATO	M 16	23	17	19	14	54	29	23	4	15°	1
4550	OKUMA BT 50 - FORATO	M 24	38	25	23	17	85	45	35	6	60°	2

OLIVETTI OCN PULL STUDS



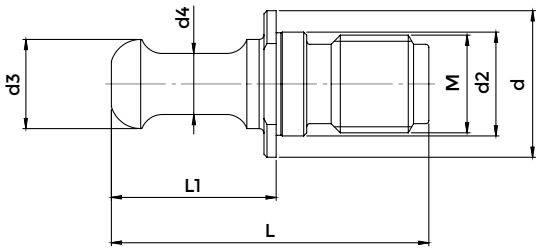


OLIVETTI OCN

COD.	DESCRIPTION	M	d	d2	d3	d4	L	L1
4591	OLIVETTI ISO 40 - M 16	M 16	23	17	14,3	10	58	33

RAMBAUDI PULL STUDS



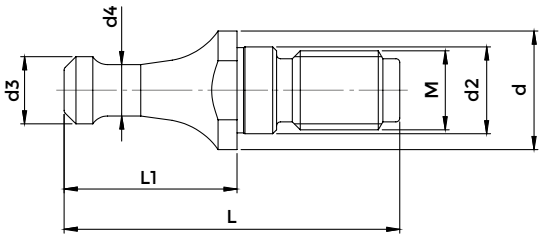


RAMBAUDI

COD.	DESCRIPTION	M	d	d2	d3	d4	L	L1
4595	RAMBAUDI ISO 40 - M 16	M 16	24	17	14,6	10	52	27
4596	RAMBAUDI ISO 50 - M 24	M 24	35,8	25	20	16	79,5	39,5

SCM / MORBIDELLI PULL STUDS



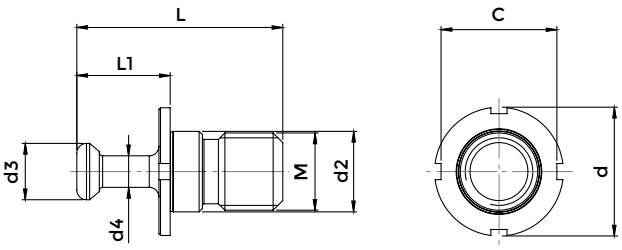


SCM MORBIDELLI

COD.	DESCRIPTION	M	d	d2	d3	d4	L	L1
3358	SCM/MORBIDELLI ISO 30 - M 10	M 10	15	11	8,5	6,5	42,5	21,9

SECMU PULL STUDS



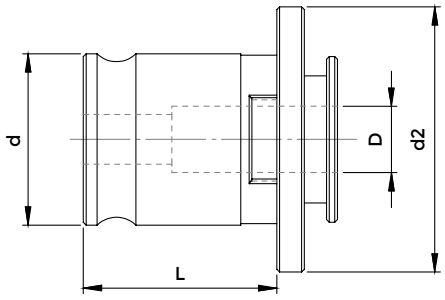


SECMU

COD.	DESCRIPTION	M	d	d2	d3	d4	L	L1	C
3496	SECMU ISO 50 - M 24	M 24	40	25	17,5	9,8	64	29	36

TAPPING ADAPTERS WITHOUT CLUTCH





B

COD.	DESCRIPTION	THREAD	D	d	d2	L
4077	B.0	M 2 ÷ M 10	Ø 2,5 ÷ Ø 8	13	22	19,5
3390	B.1	M 2 ÷ M 12 (* M 18)	Ø 2,5 ÷ Ø 11 (* Ø 14)	19	30	21,5
3391	B.2	M 5 ÷ M 20 (* M 30)	Ø 6,0 ÷ Ø 18 (* Ø 22)	31	46	35
3392	B.3	M 14 ÷ M 36 (* M 48)	Ø11,0 ÷ Ø 28 (* Ø 36)	48	68	55,5

*Adapters with SCREWS

EQUIPMENT CASES FOR TAPPING CHUCKS OF TAPPING ADAPTERS WITHOUT CLUTCH

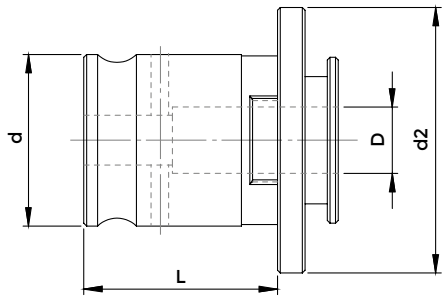


COD.	DESCRIPTION	CASE	SLEEVE
7532	Corredo B.1	3695	6 Bussole Art.3390: Ø 3,5 (M 3) - Ø 4,5 (M 4) - Ø 6 (M 6) - Ø 8 (M 8) - Ø 9 (M 12) - Ø 10 (M 10)
7533	Corredo B.2	3695	7 Bussole Art.3391: Ø 8 (M 8) - Ø 9 (M 12) - Ø 10 (M 10) - Ø 11 (M 14) - Ø 12 (M 16) - Ø 14 (M 18) - Ø 16 (M 20)

Is possible to complete the equipment adding the Tapping Chuck you are interested on.

TAPPING ADAPTERS WITHOUT CLUTCH WITH SCREWS





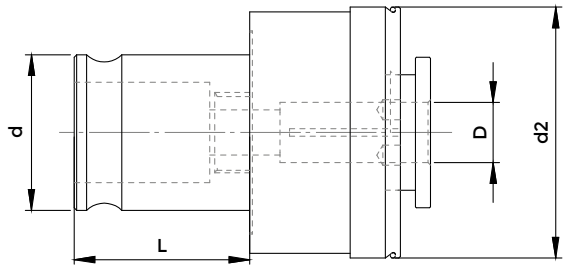
B-GR

COD.	DESCRIPTION	THREAD	D	d	d2	L
3390 GR	B.1 - GR	M 16 ÷ M 18	Ø 12 - Ø 14	19	30	21,5
3391 GR	B.2 - GR	M 27 ÷ M 30	Ø 20 - Ø 22	31	46	35
3392 GR	B.3 - GR	M 39 ÷ M 48	Ø 32 - Ø 36	48	68	55,5

On GR tapping adapters, the tapping tool is locked by screws on guide diameter, this makes possible bigger sizes clamping.

TAPPING ADAPTERS WITH CLUTCH





BF

COD.	DESCRIPTION	THREAD	D	d	d2	L
4078	BF.0	M 2 ÷ M 10	Ø 2,5 ÷ Ø 8	13	23	19,5
3387	BF.1	M 2 ÷ M 12 (* M 18)	Ø 2,5 ÷ Ø 12 (* Ø 14)	19	32	21,5
3388	BF.2	M 5 ÷ M 20 (* M 30)	Ø 6,0 ÷ Ø 18 (* Ø 22)	31	50	35
3389	BF.3	M 14 ÷ M 36 (* M 48)	Ø11,0 ÷ Ø 28 (* Ø 36)	48	72	55,5

*Adapters with SCREWS

EQUIPMENT CASES FOR TAPPING CHUCKS OF TAPPING ADAPTERS WITH CLUTCH

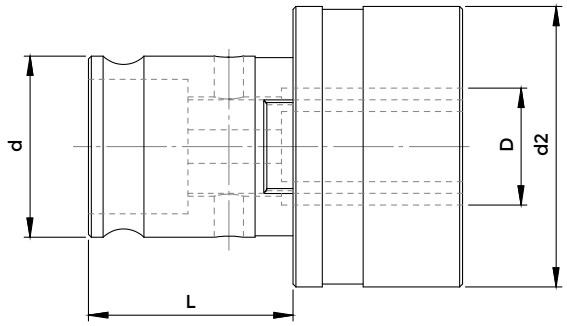


COD.	DESCRIPTION	CASE	SLEEVE
7534	Corredo B.1	3695	6 Bussole Art.3387: Ø 3,5 (M 3) - Ø 4,5 (M 4) - Ø 6 (M 6) - Ø 8 (M 8) - Ø 9 (M 12) - Ø 10 (M 10)
7535	Corredo B.2	3695	7 Bussole Art.3388: Ø 8 (M 8) - Ø 9 (M 12) - Ø 10 (M 10) - Ø 11 (M 14) - Ø 12 (M 16) - Ø 14 (M 18) - Ø 16 (M 20)

Is possible to complete the equipment adding the Tapping Chuck you are interested on.

TAPPING ADAPTERS WITH CLUTCH WITH SCREWS





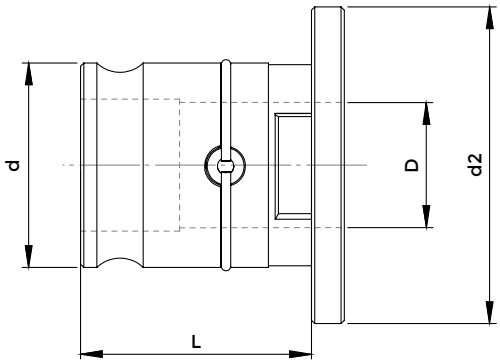
BF-GR

COD.	DESCRIPTION	THREAD	D	d	d2	L
3387 GR	BF.1 - GR	M 16 ÷ M 18	Ø 14	19	32	21,5
3388 GR	BF.2 - GR	M 27 ÷ M 30	Ø 20 - Ø 22	31	50	35
3389 GR	BF.3 - GR	M 39 ÷ M 48	Ø 32 - Ø 36	48	72	55,5

On GR tapping adapters, the tapping tool is locked by screws on guide diameter, this makes possible bigger sizes clamping.

REDUCTIONS FROM ADAPTER TO ADAPTER

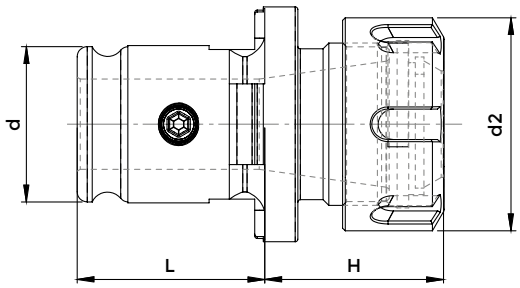




COD.	DESCRIPTION	d	D	d2	L
0202	B.1/B.0	19	13	30	21,5
0246	B.2/B.1	31	19	48	35
0397	B.3/B.1	48	19	70	55,5
0399	B.3/B.2	48	31	70	55,5

TAPPING ADAPTERS WITH ER COLLET





COD.	DESCRIPTION	ER	d	d2	H	L	NUT	WRENCH	COLLET
3385	B.1 - ER 16	ER 16 1÷12	19	32	29	21,5	4993	3698	0364
3386	B.2 - ER 25	ER 25 1÷20	31	42	38	35	4995	3669	0996
3160	B.2 - ER 32	ER 32 2÷25	31	50	62	35	4996	3670	0988

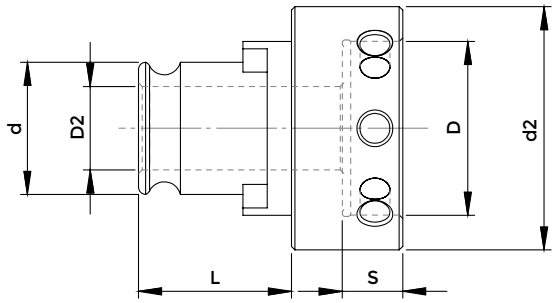
Tapping tool square is locked by the screws on guide diameter

ACCESSORIES
p. 615



THREADING DIE ADAPTERS





THREADING DIE ADAPTERS

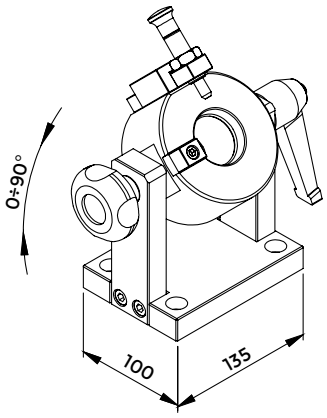
COD.	DESCRIPTION	d	L	D	S	d2	D2
025100165	B.1 - F / 16 x 5	19	21,5	16	4,8	25	12,5
025100205	B.1 - F / 20 x 5	19	21,5	20	4,8	30	12,5
025100207	B.1 - F / 20 x 7	19	21,5	20	6,5	30	12,5
025100259	B.1 - F / 25 x 9	19	21,5	25	8,5	35	12,5
025103011	B.1 - F / 30 x 11	19	21,5	30	10	40	12,5
025103810	B.1 - F / 38 x 10	19	21,5	38	9	48	14,2
025103814	B.1 - F / 38 x 14	19	21,5	38	13	48	14,2
025200205	B.2 - F / 20 x 5	31	35	20	4,8	30	15
025200207	B.2 - F / 20 x 7	31	35	20	6,5	30	15
025200259	B.2 - F / 25 x 9	31	35	25	8,5	35	15
025203011	B.2 - F / 30 x 11	31	35	30	10	40	22
025203810	B.2 - F / 38 x 10	31	35	38	9	48	22
025203814	B.2 - F / 38 x 14	31	35	38	13	48	22
025204514	B.2 - F / 45 x 14	31	35	45	13	57	22
025204518	B.2 - F / 45 x 18	31	35	45	17	57	22

SHANKS DIMENSIONS FOR METRIC TAPPING TOOLS

SHANK Ø x □	STANDARD DIN 352	REINFORCED DIN 371	STANDARD DIN 376	STANDARD ISO	REINFORCED ISO	TYPE OF SLEEVE
2,50 x 2,10	M 1,0	M 1,0	M 3,5	-	-	0-1
2,50 x 2,10	M 1,4	M 1,4	-	-	-	0-1
2,50 x 2,10	M 1,6	M 1,6	-	-	-	0-1
2,50 x 2,10	M 1,8	M 1,8	-	-	-	0-1
2,80 x 2,10	M 2,0	M 2,0	M 4,0	-	-	0-1
2,80 x 2,10	M 2,2	M 2,2	-	-	-	0-1
2,80 x 2,10	M 2,5	M 2,5	-	-	-	0-1
3,15x2,50	-	-	-	M 4,0	M 3,0	0-1
3,50x2,70	M 3,0	M 3,0	M 5,0	-	-	0-1
3,55x2,80	-	-	-	M 4,5	M 3, 5	0-1
4,00x3,15	M 3,5	M 3,5	-	M 5,0	M 4,0	0-1
4,50x3,40	M 4,0	M 4,0	M 6,0	-	-	0-1
5,00x4,00	-	-	-	-	M 5, 0	0-1
5,50x4,30	-	-	M7,0	-	-	0-1
5,60x4,50	-	-	-	M 7,0	-	0-1
6,00x4,90	M 5,0	M 5,0	-	-	-	0-1-2
6,00x4,90	M 6, 0	M 6, 0	-	-	-	0-1-2
6,00x4,90	M 8, 0	-	M 8, 0	-	-	0-1-2
6,30x5,00	-	-		M 8,0	M 6,0	0-1-2
7,00x5,50	M 10,0	-	M 10,0	-	-	0-1-2
7,10x5,60	-	-	-	M 9,0	-	0-1-2
8,00x6,20		M 8,0	-	M 10,0	M 8,0	0-1-2
9,00x7,00	M 12,0	-	M 12,0	M 12, 0	-	1-2
10,00x8,00		M 10,0	-	-	M 10,0	1-2
11,00x9,00	M 14,0	-	M 14,0	-	-	1-2-3
11,20x9,00	-	-	-	M 14,0	-	1-2-3
12,00x9,00	M 16,0	-	M 16,0	-	-	1-2-3
12,50x10,00	-	-	-	M 16,0	-	2-3
14,00x11,00	M 18,0	-	M 18,0	-	-	2-3
14,00x11,20	-	-	-	M 18,0	-	2-3
14,00x11,20	-	-	-	M 20,0	-	2-3
16,00x12,00	M 20,0	-	M 20,0	-	-	2-3
16,00x12,50	-	-	-	M 22,0	-	2-3
18,00x14,00	-	-	-	M 24,0	-	2-3
18,00x14,50	M 22,0	-	M 22,0	-	-	2-3
18,00x14,50	M 24,0	-	M 24,0	-	-	2-3
20,00x16,00	M 27,0	-	M 27,0	M 27,0	-	2-3
20,00x16,00	-	-	-	M 30,0	-	2-3
22,00x18,00	M 30,0	-	M 30,0		-	2-3
25,00x20,00	M 33,0	-	M 33,0	M 36,0	-	3
28,00x22,00	M 36,0	-	M 36,0	-	-	3
32,00x24,00	M 39,0	-	M 39,0	-	-	3
32,00x24,00	M 42,0	-	M 42,0	-	-	3
36,00x29,00	M 45,0	-	M 45,0	-	-	3
36,00x29,00	M 48,0	-	M 48,0	-	-	3

ORIENTABLE ASSEMBLY STANDS NT - SK - BT - DOUBLE CONTACT SHANKS



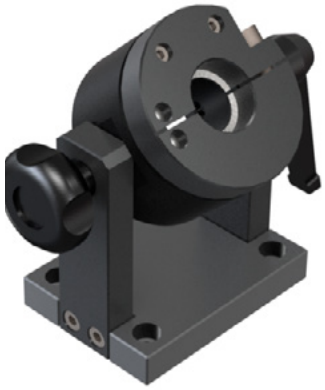


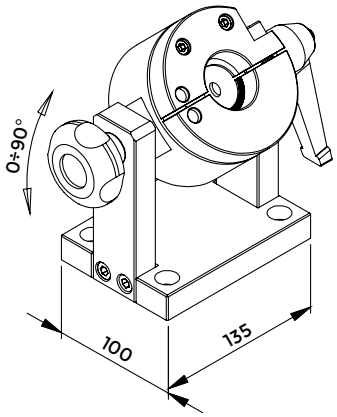
ISO DIN 2080 - DIN 69871 - BT - DOUBLE CONTACT SHANKS

COD.	DESCRIPTION	SCREW	HANDLE	KNOB
4438	SMU - CONO 30	1031	1032	1033
4439	SMU - CONO 40	1031	1032	1033
4440	SMU - CONO 45	1031	1032	1033
4441	SMU - CONO 50	1031	1032	1033

Flange locking is guaranteed by the spring system

ORIENTABLE ASSEMBLY STANDS HSK AND POLYGONAL SHANKS





DIN 69893 (A+C - B+D - E - F) - ISO 26623-1

HSK DIN 69893 SHANKS

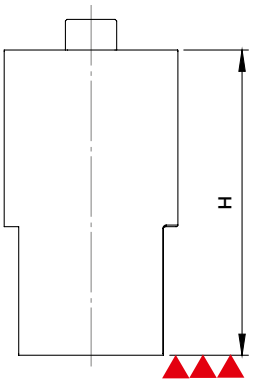
COD.	DESCRIPTION	HANDLE	KNOB
4598	SMU - HSK 25	1032	1033
4599	SMU - HSK 32	1032	1033
4600	SMU - HSK 40	1032	1033
4601	SMU - HSK 50	1032	1033
4602	SMU - HSK 63	1032	1033
4603	SMU - HSK 80	1032	1033
4604	SMU - HSK 100	1032	1033

POLYGONAL SHANKS

COD.	DESCRIPTION	HANDLE	KNOB
4599	SMU - POLIGONALE C 32	1032	1033
4600	SMU - POLIGONALE C 40	1032	1033
4601	SMU - POLIGONALE C 50	1032	1033
4602	SMU - POLIGONALE C 63	1032	1033
4603	SMU - POLIGONALE C 80	1032	1033
4604	SMU - POLIGONALE C100	1032	1033

STEEL TOOLING CLAMPERS





BMU TOOLS

COD.	DESCRIPTION	H
2190	BMU - CONO 30	70
2191	BMU - CONO 40	95
2193	BMU - CONO 50	130

Made with hardened steel, burnished and grinded.

DOUBLE POSITION ASSEMBLY STANDS

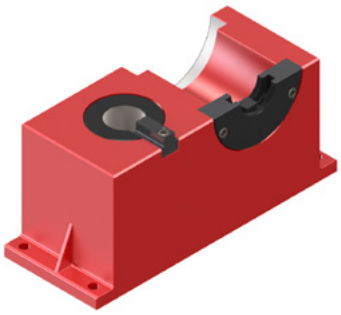


FIG. 1



FIG. 2



FIG. 3

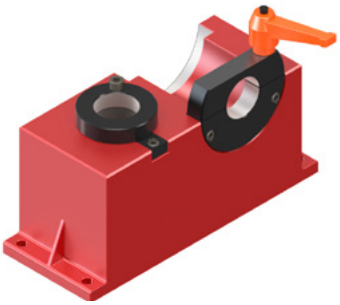


FIG. 4

SMD TOOLS

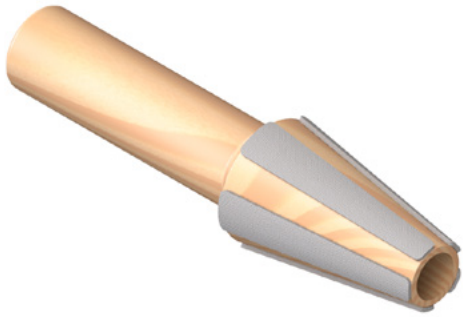
COD.	DESCRIPTION	FIGURE	L x P x H
237-32310	SMD - ISO 40 / DIN 2080	1	350 x 135 x 155
237-32510	SMD - ISO 50 / DIN 2080	1	350 x 135 x 155
237-32320	SMD - TC 40 / DIN 69871	1	350 x 135 x 155
237-32520	SMD - TC 50 / DIN 69871	1	350 x 135 x 155
237-33320	SMD - TC 40 DOPPIO CONTATTO	1	350 x 135 x 155
237-33520	SMD - TC 50 DOPPIO CONTATTO	1	350 x 135 x 155
237-32130	SMD - BT 30 / MAS 403	1	350 x 135 x 155
237-32330	SMD - BT 40 / MAS 403	1	350 x 135 x 155
237-32530	SMD - BT 50 / MAS 403	1	350 x 135 x 155
237-33120	SMD - BT 30 DOPPIO CONTATTO	1	350 x 135 x 155
237-33330	SMD - BT 40 DOPPIO CONTATTO	1	350 x 135 x 155
237-33530	SMD - BT 50 DOPPIO CONTATTO	1	350 x 135 x 155

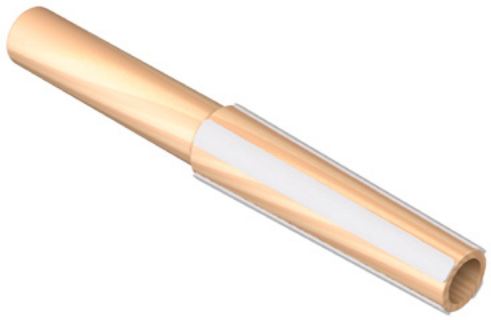
COD.	DESCRIPTION	FIGURE	L x P x H
237-32450	SMD - HSK 63A+C	2	350 x 135 x 155
237-32650	SMD - HSK 100 A+C	2	350 x 135 x 155
237-32470	SMD - HSK 63 E	2	350 x 135 x 155
237-32470	SMD - HSK 63 F	2	350 x 135 x 155

COD.	DESCRIPTION	FIGURE	L x P x H
237-33210	SMD - POLIGONALE C 40	3	350 x 135 x 155
237-33310	SMD - POLIGONALE C 50	3	350 x 135 x 155
237-33410	SMD - POLIGONALE C 63	3	350 x 135 x 155
237-33510	SMD - POLIGONALE C 80	3	350 x 135 x 155

COD.	DESCRIPTION	FIGURE	L x P x H
237-32490	SMD - VDI 30 / DIN 69880	4	350 x 135 x 155
237-32590	SMD - VDI 40 / DIN 69880	4	350 x 135 x 155
237-32690	SMD - VDI 50 / DIN 69880	4	350 x 135 x 155

SPINDLE SEAT TAPER CLEANERS



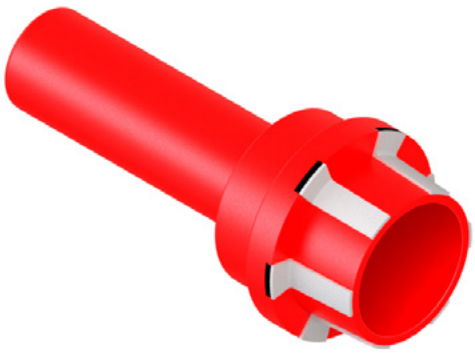


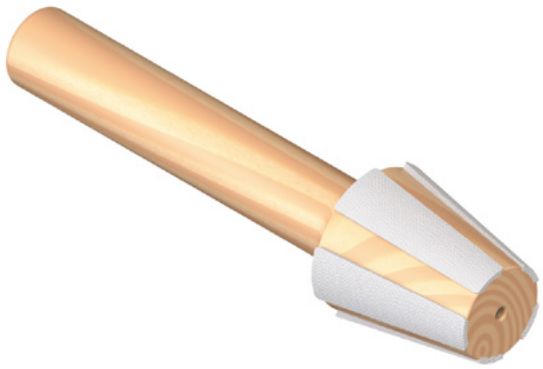
ISO SPINDLE SEAT

COD.	DESCRIPTION	ISO
4407	TP - ISO 30	30
4408	TP - ISO 40	40
4409	TP - ISO 45	45
4410	TP - ISO 50	50

MORSE TAPER SPINDLE SEAT

COD.	DESCRIPTION	CM
4411	TP - CM. 1	1
4412	TP - CM. 2	2
4413	TP - CM. 3	3
4414	TP - CM. 4	4
4415	TP - CM. 5	5
5065	TP - CM. 6	6





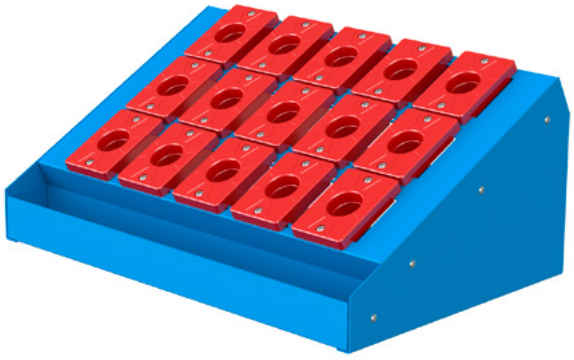
HSK SPINDLE SEAT

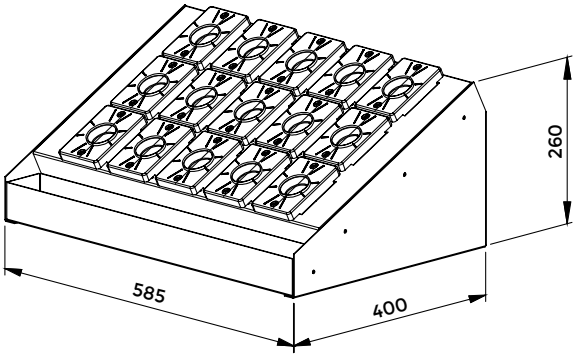
COD.	DESCRIPTION	HSK
5205	TP - HSK 32	32
5206	TP - HSK 40	40
5207	TP - HSK 50	50
5208	TP - HSK 63	63
5209	TP - HSK 80	80
5210	TP - HSK 100	100

ER COLLET SEAT TAPER CLEANERS

COD.	DESCRIPTION	ER
5375	TP - ER 16	16
5376	TP - ER 20	20
5377	TP - ER 25	25
5378	TP - ER 32	32
5379	TP - ER 40	40

TOOL STORES





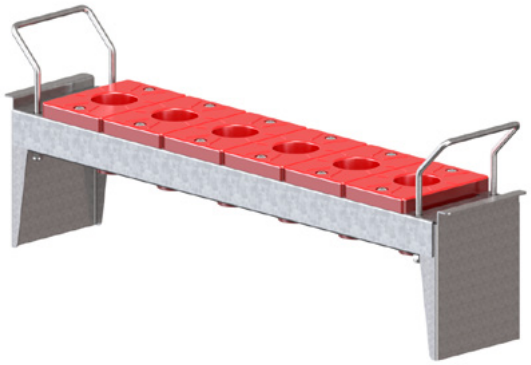
Supplied complete of red tool holder bushings.

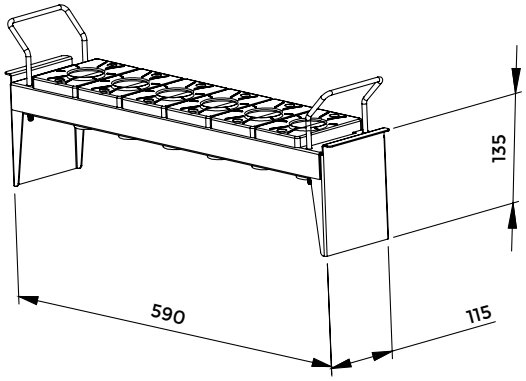
COD.	DESCRIPTION	CHUCKS	NUMBER OF SEATS	TAPER BUSH	SCREW
					
ISO CHUCKS					
3700	MAG. ISO 30	30	15	4416	0033
3701	MAG. ISO 40	40	15	4417	0033
3702	MAG. ISO 45	45	15	4418	0033
3703	MAG. ISO 50	50	12	4419	0033
HSK CHUCKS					
9460	MAG. HSK 32 A - C - E	32	15	9440	0033
9461	MAG. HSK 40 A - C - E	40	15	9441	0033
3750	MAG. HSK 50 A - C - E	50	15	4430	0033
3751	MAG. HSK 63 A - C - E	63	15	4431	0033
9462	MAG. HSK 80 A - C	80	15	9442	0033
3875	MAG. HSK100 A - C	100	15	5543	0033
9461	MAG. HSK 50 F	50	15	9441	0033
3750	MAG. HSK 63 F	63	15	4430	0033
3751	MAG. HSK 80 F	80	15	4431	0033
POLYGONAL CHUCKS					
9463	MAG. POLIGONALE C 32	32	15	9443	0033
9464	MAG. POLIGONALE C 40	40	15	9444	0033
9465	MAG. POLIGONALE C 50	50	15	9445	0033
9466	MAG. POLIGONALE C 63	63	15	9446	0033
9467	MAG. POLIGONALE C 80	80	12	9447	0033
MT CHUCKS					
9468	MAG. CM 2	2	15	9448	0033
9469	MAG. CM 3	3	15	9449	0033
3696	MAG. CM 4	4	15	4400	0033
3702	MAG. CM 5	5	15	4418	0033
VDI CHUCKS					
3705	MAG. Ø 32 - VDI 30	30	15	5531	0033
3706	MAG. Ø 40 - VDI 40	40	15	5532	0033
5557	MAG. Ø 50 - VDI 50	50	12	5533	0033



upon request
with yellow
tool holder
bushing

BENCH SUPPORTS





Supplied complete of red tool holder bushings.

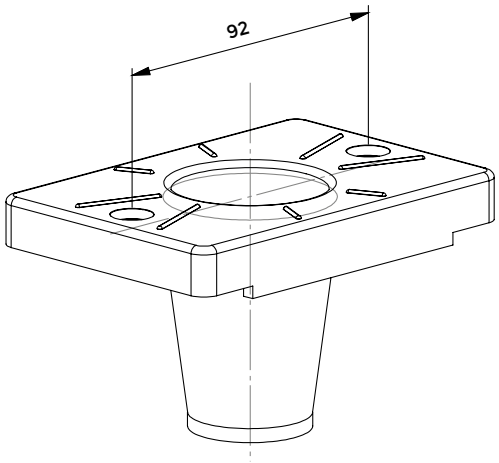
COD.	DESCRIPTION	CHUCKS	NUMBER OF SEATS	TAPER BUSH
				
ISO CHUCKS				
4404	UNITÀ ISO 30	30	6	4416
4405	UNITÀ ISO 40	40	6	4417
4330	UNITÀ ISO 45	45	6	4418
4406	UNITÀ ISO 50	50	5	4419
HSK CHUCKS				
9450	UNITÀ HSK 32 A - C - E	32	6	9440
9451	UNITÀ HSK 40 A - C - E	40	6	9441
4428	UNITÀ HSK 50 A - C - E	50	6	4430
4429	UNITÀ HSK 63 A - C - E	63	6	4431
9452	UNITÀ HSK 80 A - C	80	5	9442
4794	UNITÀ HSK100 A - C	100	5	5543
9451	UNITÀ HSK 50 F	50	6	9441
4428	UNITÀ HSK 63 F	63	6	4430
4429	UNITÀ HSK 80 F	80	6	4431
POLYGONAL CHUCKS				
9453	UNITÀ POLIGONALE C 32	32	6	9443
9454	UNITÀ POLIGONALE C 40	40	6	9444
9455	UNITÀ POLIGONALE C 50	50	6	9445
9456	UNITÀ POLIGONALE C 63	63	6	9446
9457	UNITÀ POLIGONALE C 80	80	5	9447
MT CHUCKS				
9458	UNITÀ CM 2	2	6	9448
9459	UNITÀ CM 3	3	6	9449
4329	UNITÀ CM 4	4	6	4400
4330	UNITÀ CM 5	5	6	4418
VDI CHUCKS				
5369	UNITÀ Ø 32 - VDI 30	30	5	5531
5370	UNITÀ Ø 40 - VDI 40	40	5	5532
5371	UNITÀ Ø 50 - VDI 50	50	4	5533



upon request
with yellow
tool holder
bushing

TOOL HOLDER BUSHINGS





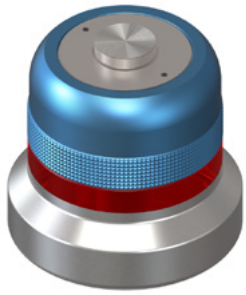
Supplied complete of red tool holder bushings.

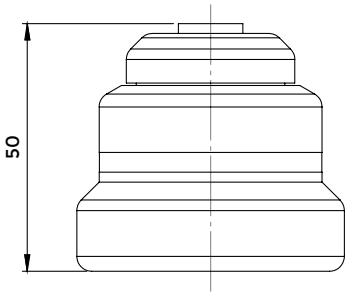
COD.	DESCRIPTION	CHUCKS	SCREW
			
ISO CHUCKS			
4416	BOCCOLA ISO 30	30	0033
4417	BOCCOLA ISO 40	40	0033
4418G	BOCCOLA ISO 45	45	0033
4419	BOCCOLA ISO 50	50	0033
HSK CHUCKS			
9440	BOCCOLA HSK 32 A - C - E	32	0033
9441	BOCCOLA HSK 40 A - C - E	40	0033
4430	BOCCOLA HSK 50 A - C - E	50	0033
4431	BOCCOLA HSK 63 A - C - E	63	0033
9442	BOCCOLA HSK 80 A - C	80	0033
5543	BOCCOLA HSK 100 A - C	100	0033
9441	BOCCOLA HSK 50 F	50	0033
4430	BOCCOLA HSK 63 F	63	0033
4431	BOCCOLA HSK 80 F	80	0033
POLYGONAL CHUCKS			
9443	BOCCOLA POLIGONALE C 32	32	0033
9444	BOCCOLA POLIGONALE C 40	40	0033
9445	BOCCOLA POLIGONALE C 50	50	0033
9446	BOCCOLA POLIGONALE C 63	63	0033
9447	BOCCOLA POLIGONALE C 80	80	0033
CM CHUCKS			
9448	BOCCOLA CM 2	2	0033
9449	BOCCOLA CM 3	3	0033
4400	BOCCOLA CM 4	4	0033
4418	BOCCOLA CM 5	5	0033
VDI CHUCKS			
5531	BOCCOLA Ø 32 - VDI 30	30	0033
5532	BOCCOLA Ø 40 - VDI 40	40	0033
5533	BOCCOLA Ø 50 - VDI 50	50	0033



upon request
with yellow
tool holder
bushing

BRIGHT MAGNETIC RESETTER

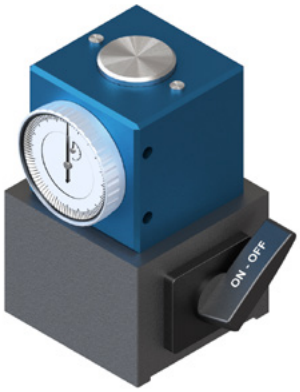


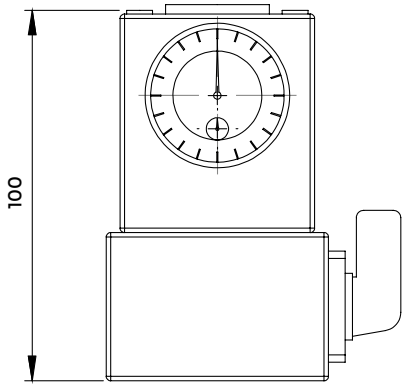


COD.	DESCRIPTION	BATTERY
		
0351	ZOP 50	0266

Permanent magnetic base

BUILD-IN MAGNETIC RESETTERS WITH DIAL GAUGE

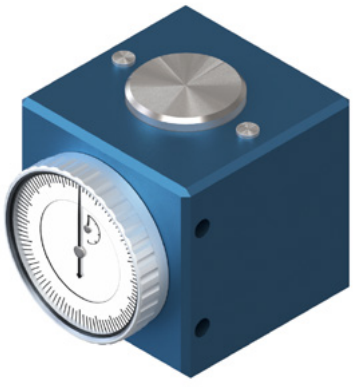


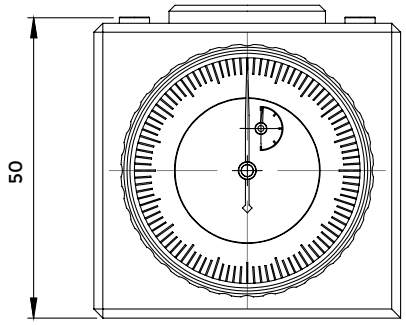


COD.	DESCRIPTION
0354	ZDI 100

- switch ON/OFF magnetic base
- dial gauge ø40 reading 0,01

BUILD-IN MAGNETIC RESETTERS WITH DIAL GAUGE



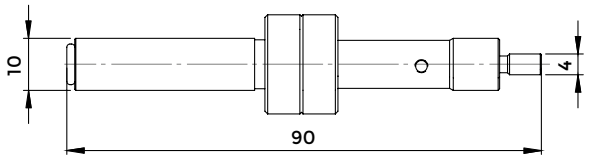


COD.	DESCRIPTION
0349	ZDI 50

- Permanent magnetic base
- dial gauge ø40 reading 0,01

FLOATING CENTERING DEVICE – GROUND



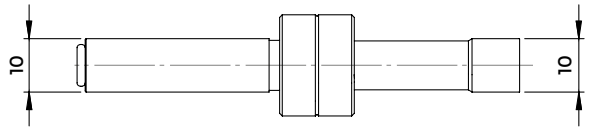


COD.	DESCRIPTION	REPLACEMENT SPRING
		
0356	CMP 10 - 4	0333

In CMP wrapping is included one spare spring

FLOATING CENTERING DEVICE – GROUND

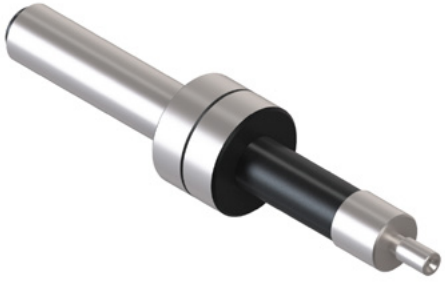


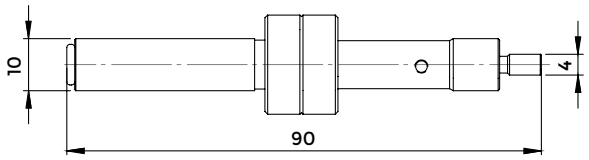


MAX 600 rpm

COD.	DESCRIPTION	REPLACEMENT SPRING
		
0357	CMP 10 - 10	0333

FLOATING CENTERING DEVICE – BURNISHED



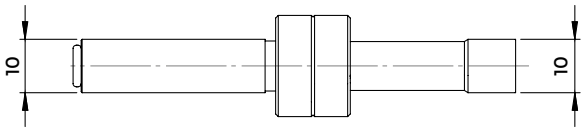


COD.	DESCRIPTION	REPLACEMENT SPRING
		
0242	CMB 10 - 4	0333

In CMP wrapping is included one spare spring

FLOATING CENTERING DEVICE – BURNISHED



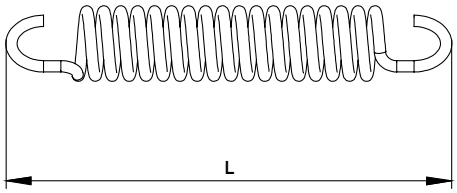


MAX 600 rpm

COD.	DESCRIPTION	REPLACEMENT SPRING
		
0243	CMB 10 - 10	0333

REPLACEMENT SPRINGS FOR CENTERING DEVICES

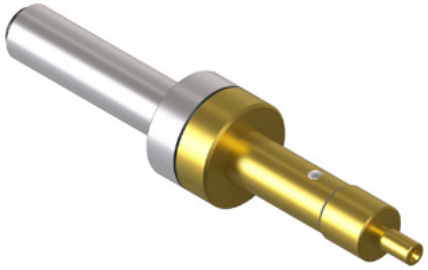


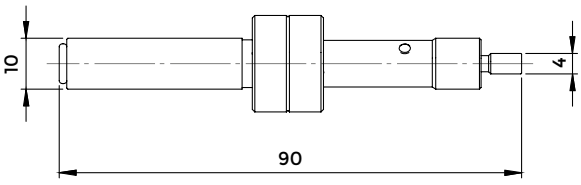


COD.	L
0333	50
0363	*55

* Recommended for edge finders without spring locking pin

NON MAGNETIC CENTERING DEVICE

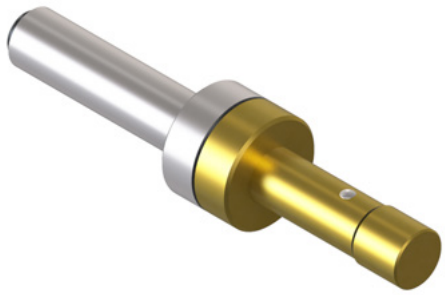


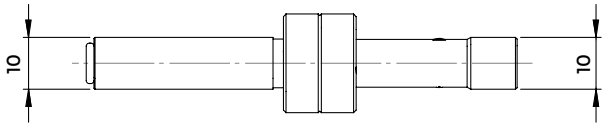


COD.	DESCRIPTION	REPLACEMENT SPRING
		
0445	CMA 10 - 4	0333

In CMA wrapping is included one spare spring

NON MAGNETIC CENTERING DEVICE – CERAMIC HEAD

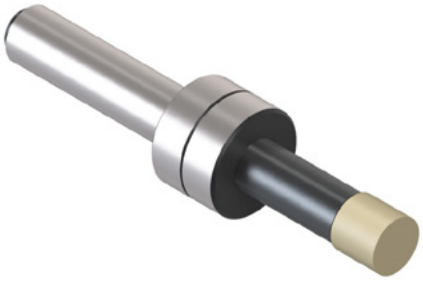


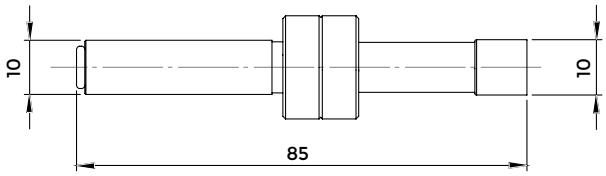


MAX 600 rpm

COD.	DESCRIPTION	REPLACEMENT SPRING
		
0447	CMA 10 - 10	0333

NON MAGNETIC CENTERING DEVICE – CERAMIC HEAD



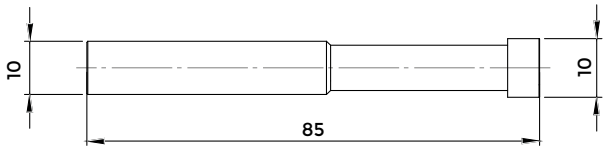


MAX 600 rpm

COD.	DESCRIPTION	REPLACEMENT SPRING
		
0455	CMD 10 - 10	0333

NON MAGNETIC SLIM CENTERING DEVICE – CERAMIC HEAD

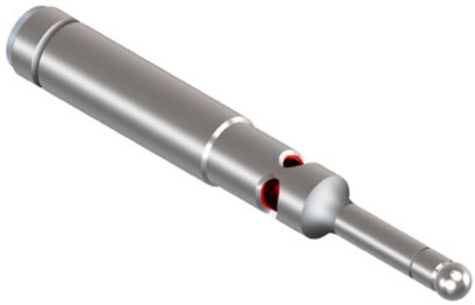




MAX 600 rpm

COD.	DESCRIPTION	REPLACEMENT SPRING
		
0457	CMC 10 - 10	0458

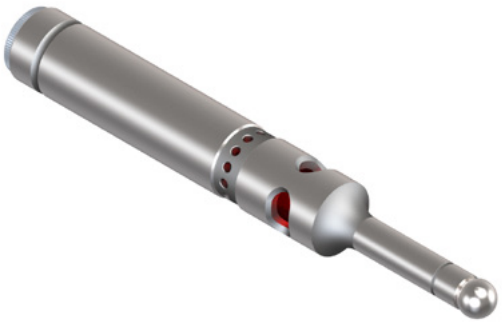
ELECTRONIC CENTERING DEVICE – WITH LIGHT

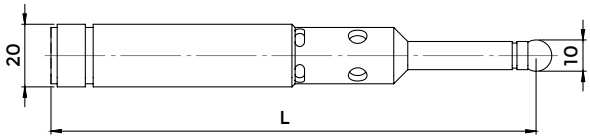


COD.	DESCRIPTION	L	BATTERY
0335	CSL 100	100	0266
0355	CSL 120	120	0562

with light signal

ELECTRONIC CENTERING DEVICE – WITH LIGHT AND SOUND



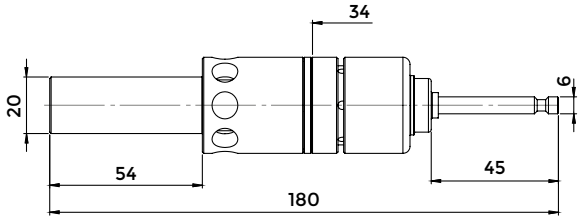


COD.	DESCRIPTION	L	BATTERY
0359	CSS 160	160	0562

with light and sound signal

ELECTRONIC 3D CENTERING DEVICE – WITH LIGHT AND SOUND



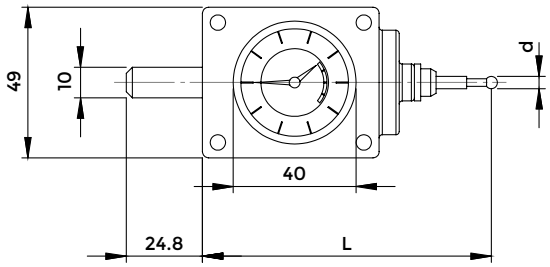


COD.	DESCRIPTION	TASTER	LED	BATTERY
0350	CTL 20 - 6	0322	0328	0595

3D with light and sound signal

TRIDIMENSIONAL POSITION DETECTORS WITH DIAL GAUGE

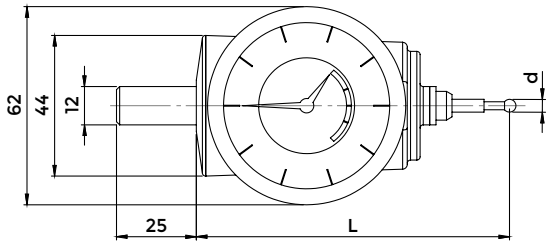




COD.	DESCRIPTION	d	L	TASTER
0541	CTZ 10 - 04	4	96	0619
0542	CTZ 10 - 08	8	136	0629

TRIDIMENSIONAL POSITION DETECTORS WITH DIAL GAUGE

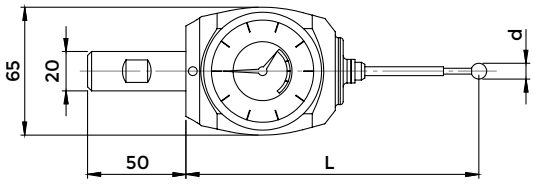




COD.	DESCRIPTION	d	L	TASTER
0543	CTN 12 - 04	4	100	0619
0544	CTN 12 - 08	8	140	0629

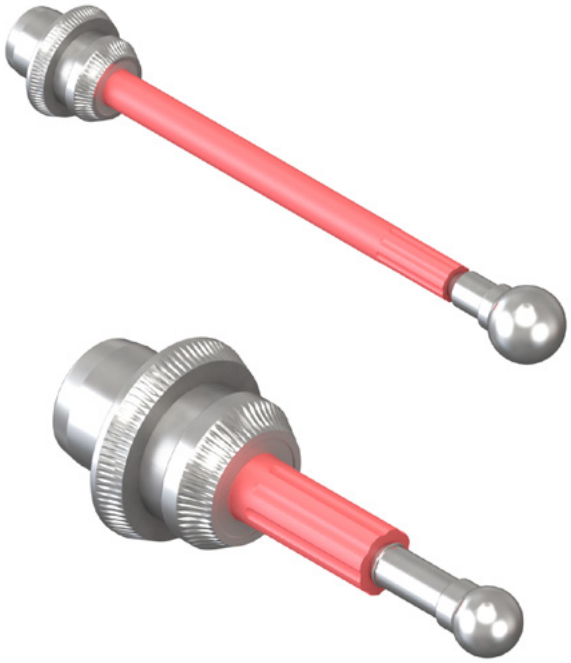
TRIDIMENSIONAL POSITION DETECTORS WITH DIAL GAUGE

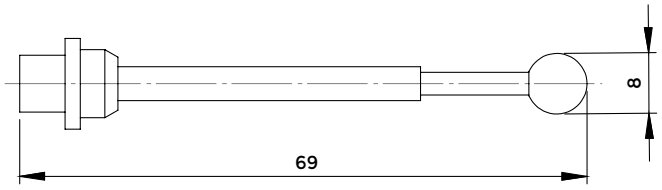


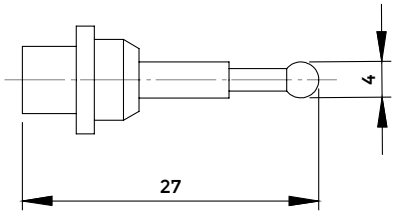


COD.	DESCRIPTION	d	L	TASTER
0584	CTA 20 - 04	4	113	0619
0585	CTA 20 - 08	8	153	0629

CERAMIC PROBE

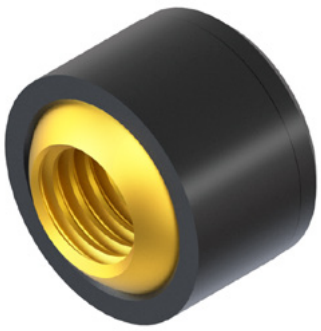


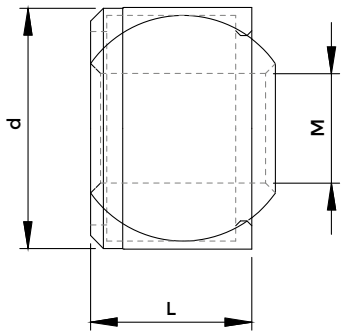




COD.	DESCRIPTION
0619	ASTINA CORTA d. 4
0629	ASTINA LUNGA d. 8

SPHERE COOLANT NOZZLES

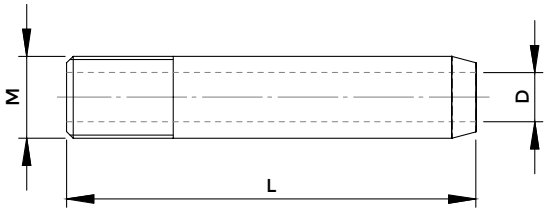




COD. G	COD. K	d	L	M
9200	833-001280	6	5	M 2,5
9201	833-001060	8	6	M 4
9202	833-001070	10	7	M 5
9203	833-001820	12	8	M 5
9204	833-001080	12	8	M 6
9205	833-001090	14	9	M 8
9206	833-001810	16	10	M 10x1

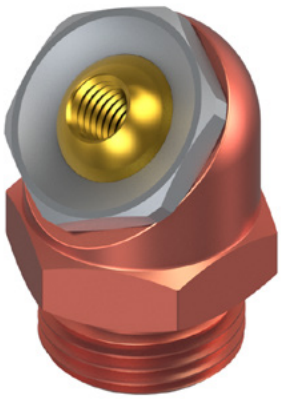
EXTENSIONS FOR COOLANT NOZZLES

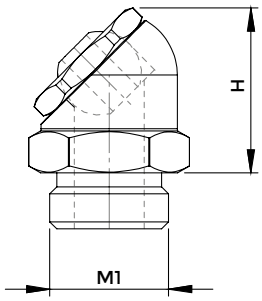


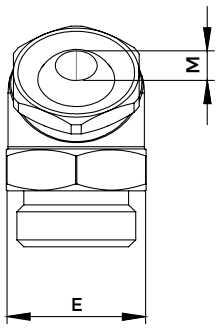


COD. G	COD. K	M	D	L
9210	-	M 3	1,5	25
9211	833-00151	M 4	1	30
9212	833-00152	M 4	2	30
9213	833-00153	M 5	2	30
9214	833-00154	M 5	3	40
9215	833-00155	M 6	2	35
9216	833-00156	M 6	3	35
9217	833-00157	M 6	4	50
9218	833-00158	M 8	2	40
9219	833-00159	M 8	3	40
9220	833-00160	M 8	4	40
9221	833-00161	M 8	5	50
9222	833-00162	M10x1	2	40
9223	-	M10x1	4	40
9224	833-00164	M10x1	6	50
9225	-	M10x1	8	50

SPHERE COOLANT NOZZLES FOR HIGH PRESSURE

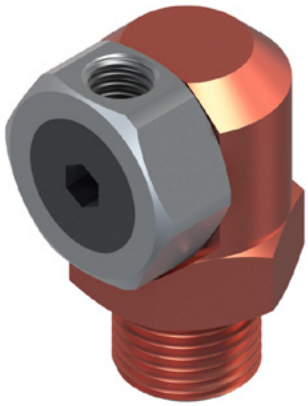


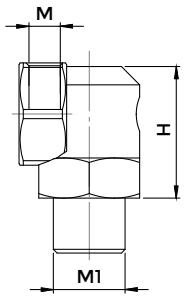


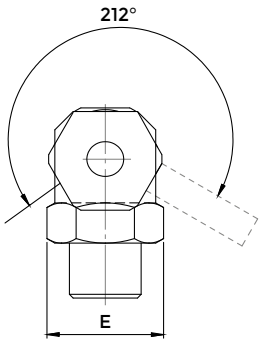


COD. G	M	E	M1	H
9235	M 3	16	1/8	19
9236	M 5	18	1/4	21
9237	M 6	20	3/8	23
9238	M 8	23	3/8	27

ORIENTABLE COOLANT NOZZLES FOR HIGH PRESSURE



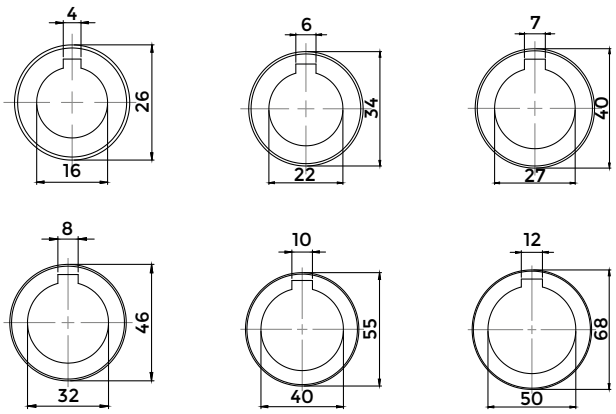




COD. G	M	E	M1	H
9240	M 4	12	1/8	17
9241	M 5	14	1/8	18
9242	M 6	17	1/4	21

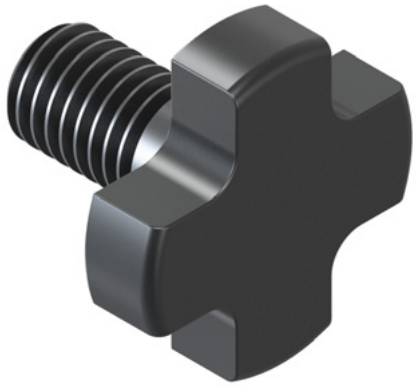
SPACERS

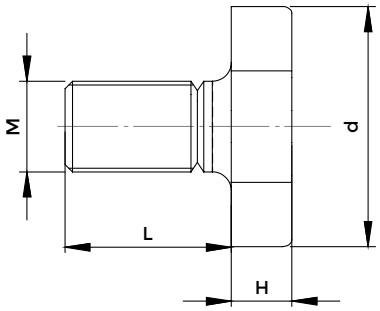




COD.	DESCRIPTION	THICKNESS
4084	AD - D.16	0,03 - 0,04 - 0,05 - 0,06 - 0,1 - 0,2 - 0,3 - 0,4 - 0,5 - 0,6 - 1,0 - 1,10 - 1,30 - 1,40 - 1,50 - 2,0 - 3,0 - 4,0 - 5,0 - 6,0 - 10,0 - 20,0 - 25,0 - 30,0 - 40,0
4085	AD - D.22	0,03 - 0,04 - 0,05 - 0,06 - 0,1 - 0,2 - 0,3 - 0,4 - 0,5 - 0,6 - 0,9 - 1,0 - 2,0 - 3,0 - 4,0 - 5,0 - 6,0 - 10,0 - 20,0 - 30,0 - 60,0 - 100, 0
4086	AD - D.27	0,03 - 0,04 - 0,05 - 0,06 - 0,1 - 0,2 - 0,3 - 0,4 - 0,5 - 0,6 - 0,7 - 0,8 - 1,0 - 2,0 - 3,0 - 4,0 - 5,0 - 6,0 - 10,0 - 20,0 - 30,0 - 60,0 - 100, 0
4087	AD - D.32	0,03 - 0,04 - 0,05 - 0,06 - 0,1 - 0,2 - 0,3 - 0,4 - 0,5 - 0,6 - 1,0 - 1,5 - 2,0 - 3,0 - 4,0 - 5,0 - 6,0 - 10,0 - 20,0 - 30,0 - 60,0 - 100, 0
4088	AD - D.40	0,03 - 0,04 - 0,05 - 0,06 - 0,1 - 0,15 - 0,2 - 0,3 - 0,4 - 0,5 - 0,6 - 0,7 - 0.8 - 1,0 - 1,5 - 2,0 - 3,0 - 4,0 - 5,0 - 6,0 - 7,0 - 10,0 - 20,0 - 30,0 - 60,0 - 100, 0
4089	AD - D.50	0,05 - 0,06 - 0,1 - 0,2 - 0,3 - 0,4 - 0,5 - 0,6 - 0,7 - 0,8 - 1,0 - 2,0 - 3,0 - 4,0 - 5,0 - 6,0 - 10,0 - 20,0 - 25,0 - 40,0 - 30,0 - 60,0 - 100, 0

MILL LOCKING CROSS HEAD SCREWS

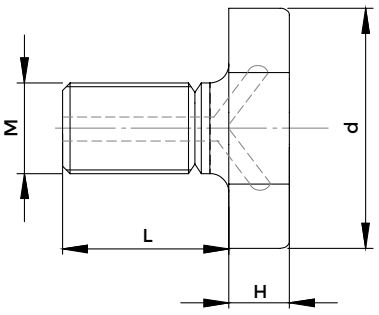




COD.	DESCRIPTION	M	d	L	H	WRENCH
4985	VTC 16	M 8	20	16	6	1032
4986	VTC 22	M 10	28	18	7	1032
4987	VTC 27	M 12	35	22	8	1032
4988	VTC 32	M 16	42	26	9	1032
4989	VTC 40	M 20	52	30	10	1032
4990	VTC 50	M 24	63	36	12	1032

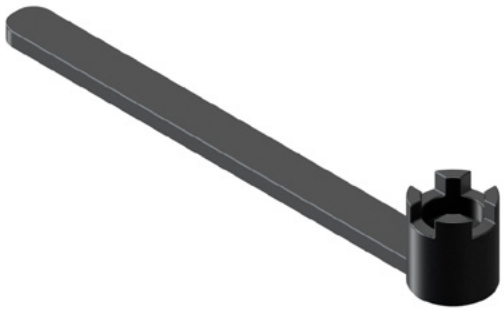
MILL LOCKING CROSS HEAD SCREWS WITH COOLANT CHANNELS





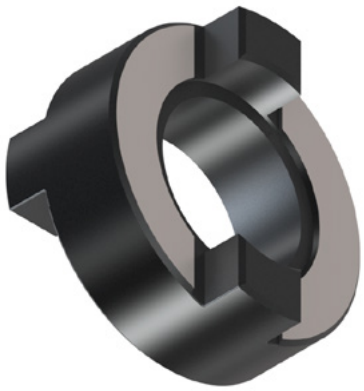
COD.	DESCRIPTION	M	d	L	H	WRENCH
2739	VPR 16	M 8	20	16	6	4562
2740	VPR 22	M 10	28	18	7	4563
2741	VPR 27	M 12	35	22	8	4564
2742	VPR 32	M 16	42	26	9	4565
2743	VPR 40	M 20	52	30	10	4566

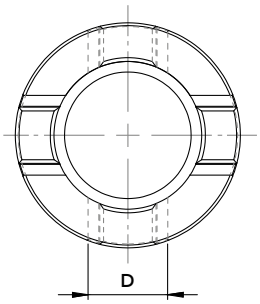
WRENCHES FOR CROSS HEAD SCREWS

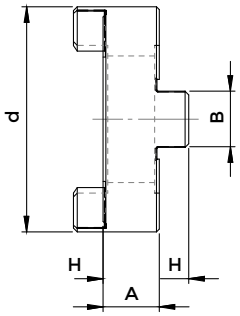


COD.	DESCRIPTION	CROSS HEAD SCREW
4562	CH 16 VTC	4985
4563	CH 22 VTC	4986
4564	CH 27 VTC	4987
4565	CH 32 VTC	4988
4566	CH 40 VTC	4989
4567	CH 50 VTC	4990

CLUTCH DRIVE RINGS FOR DIN 6358 COMBI SHELL MILL HOLDERS







COD.	DESCRIPTION	D	d	H	B	A
4090	AT 16	16	32	5,0	10	8
4091	AT 22	22	40	5,6	12	10
4092	AT 27	27	48	6,3	12	12
4093	AT 32	32	58	7,0	14	14
4094	AT 40	40	70	8,0	14	16
4095	AT 50	50	90	9,0	16	18

DOWELS FOR FACE MILL HOLDERS



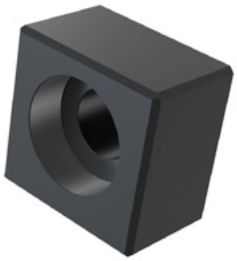


FIG. 1

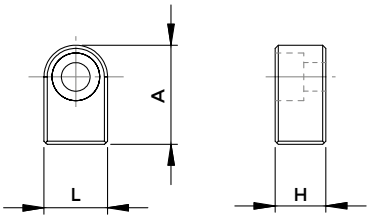
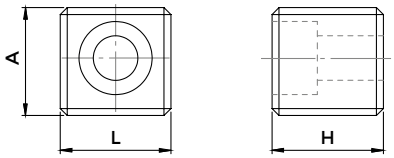


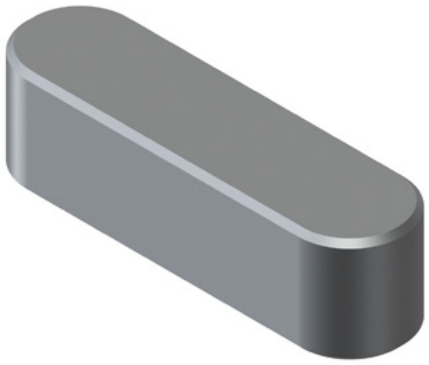
FIG. 2

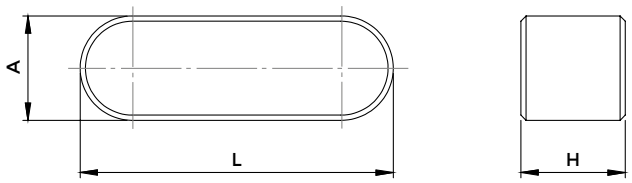


COD.	DESCRIPTION	H	L	A	FIG.	SCREW
7434	TPF - D. 16	7	8	13	1	0201
7421	TPF - D. 16	10,5	8	13	1	0255
7435	TPF - D. 22	8	10	15,6	1	0203
7070*	TPF - D. 22	10	10	18	1	0256
7427	TPF - D. 22	11,6	10	15,6	1	0256
7436	TPF - D. 27	9	12	18,3	1	0205
7071*	TPF - D. 27	12	12	18	1	7414
7428	TPF - D. 27	13,3	12	18,3	1	7414
7437	TPF - D. 32	11	14	21	1	0482
7072*	TPF - D. 32	14	14	22	1	0099
7439	TPF - D. 32	15	14	21	1	0099
7429	TPF - D. 32	20,5	14	21	1	0099
7438	TPF - D. 40	13	16	24	1	0207
0210	TPF - D. 40	16	15,9	15,5	2	0207
7073*	TPF - D. 40	16	15,9	19,5	2	0207
7430	TPF - D. 40	22,5	16	24	1	0099
0211	TPF - D. 60	25	25,4	28	2	0407

*Dowels for special exectuions

KEYS





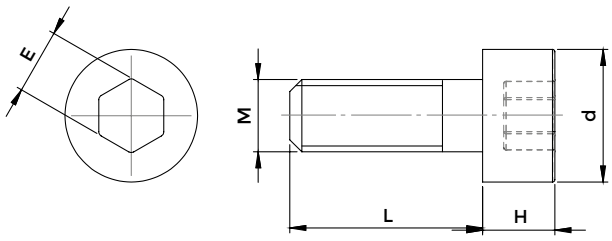
COD.	A	H	L
0103	3	3	10
0041	4	4	12
0115	4	4	20
0147	4	4	22
0258	5	4	18
0107	5	4	20
0044	6	6	15
0108	6	6	20
0116	6	6	25
0148	6	6	32

follows >>

COD.	A	H	L
0045	7	7	16
0122	7	7	25
0149	7	7	50
0047	8	7	16
0111	8	7	25
0125	8	7	28
0150	8	7	50
0133	10	8	32
0151	10	8	50
0137	12	8	36
0152	12	8	50

SPARES FOR MT ADAPTERS FOR MILLING CUTTERS DIN 228 FORM A SHANK TIE RODS FOR MILL

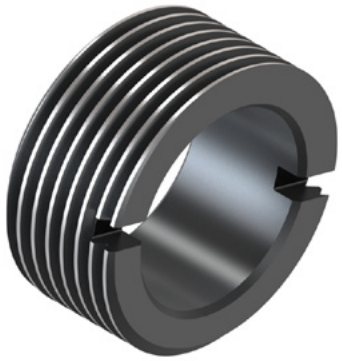


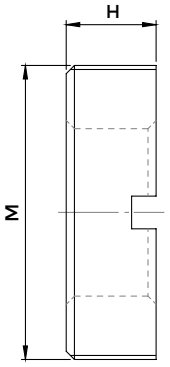


COD.	CM	M	L	d	H	E	STEP
7056*	CM 2	M 10	30	12,9	6,5	7	1,5
7448	CM2	M 10	30	13	10	8	1,5
7057*	CM 3	M 12	30	18	7	8	1,75
7402	CM 3	M 12	35	17	12	8	1,75
7403	CM 3	M 12	35	18	12	10	1,75
7058*	CM 3	M 12	40	18	7	8	1,75
7404	CM 4	M 16	40	20	16	10	2
7407	CM 4	M 16	40	21,5	16	14	2
7411	CM 4	M 16	45	21,5	9	12	2
7067*	CM 4	M 16	45	23	9	12	2
7069*	CM5	M 20	50	30	11	14	2,5
7408*	CM5	M 20	55	30	20	17	2,5

*Tie rods for special executions

SPARES FOR MT ADAPTERS FOR MILLING CUTTERS DIN 228 FORM A SHANK LEFT NUTS FOR TIE RODS

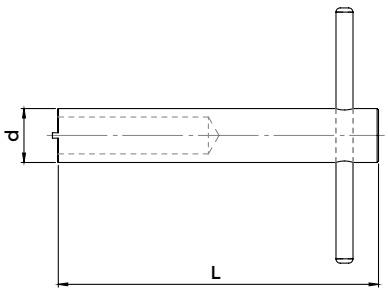




COD.	CM	M	H	WRENCH
7422	CM 2	M 15 x 1,5 SX	6	4569
7423	CM 3	M 20 x 1,5 SX	6	4570
7424	CM 4	M 24 x 1,5 SX	8,5	4571
7425	CM 5	M 36 x 2 SX	11	4572

SPARES FOR MT ADAPTERS FOR MILLING CUTTERS DIN 228 FORM A SHANK WRENCHES FOR LEFT NUTS

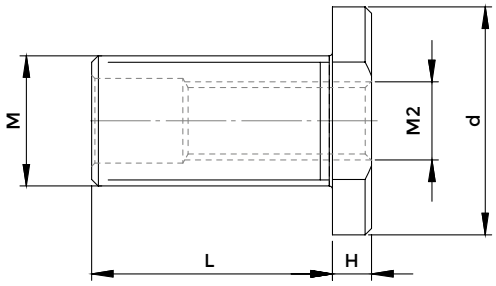




COD.	CM	d	L	NUT
4569	CM 2	14,8	110	7422
4570	CM 3	19,2	115	7423
4571	CM 4	23	140	7424
4572	CM 5	37	172	7425

SPARES FOR COMBI MT ADAPTERS: TWIST DRILLS + MILLING CUTTERS REDUCERS FOR TIE RODS



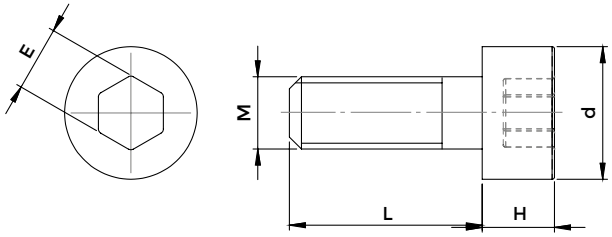


COD	CM	M	M2	L	H	d
0276	CM 2	M 10	M 6	19	3	14
0130	CM 3	M 12	M 6	25	3	19
0129	CM 4	M 16	M10	27	3	25
0131	CM 5	M 20	M12	37	6	35

*Tie rods for special executions

ROUND HEAD SCREWS





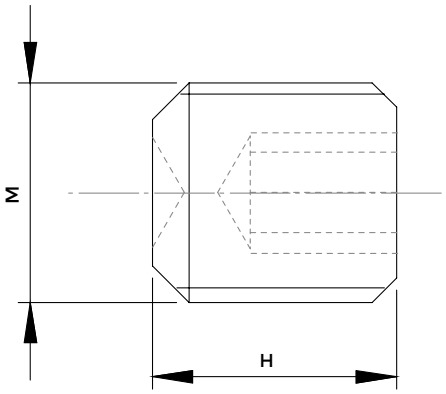
COD.	M	L	d	H	E	STEP
0201	M 3	8	5,5	3	2,5	0,5
0255	M 3	10	5,5	3	2,5	0,5
0203	M 4	10	7	4	3	0,7
0256	M 4	12	7	4	3	0,7
0205	M 5	12	8,5	5	4	0,8
7414	M 5	18	8,5	5	4	0,8
0484	M 6	10	10	6	5	1
0482	M 6	12	10	6	5	1
0206	M 6	14	10	6	5	1
0207	M 6	18	10	6	5	1
7447	M 6	20	8,5	4	4	1
0099	M 6	20	10	6	5	1
7415	M 6	25	10	6	5	1
0031	M 6	30	10	6	5	1
7400	M 6	35	10	6	5	1
7046	M 6	45	10	6	5	1
0035	M 6	55	10	6	5	1
7054	M 6	60	10	6	5	1
7047	M 6	75	10	6	5	1
0297	M 8	12	13	8	6	1,25
0491	M 8	16	13	8	6	1,25
0023	M 8	20	13	8	6	1,25
0586	M 8	30	10	8	6	1,25
0533	M 8	30	13	8	6	1,25
7056	M 10	30	12,9	6,5	7	1,5
7448	M 10	30	13	10	8	1,5
0120	M 10	30	16	10	8	1,5
7413	M 10	35	16	10	8	1,5
7048	M 10	40	12,9	6,5	8	1,5
7049	M 10	40	16	10	8	1,5
7401	M 10	45	13,5	10	8	1,5

follows >>

COD.	M	L	d	H	E	STEP
7050	M 10	45	16	6,5	7	1,5
7405	M 10	45	16	10	8	1,5
0056	M 10	50	16	10	8	1,5
7051	M 10	60	13,5	10	8	1,5
7052	M 10	60	16	10	8	1,5
0038	M 10	70	16	10	8	1,5
7053	M 10	90	16	10	8	1,5
0407	M 12	25	18	12	10	1,75
7057	M 12	30	18	7	8	1,75
7410	M 12	30	18	12	10	1,75
7402	M 12	35	17	12	8	1,75
7403	M 12	35	18	12	10	1,75
7058	M 12	40	18	7	8	1,75
7416	M 12	45	18	12	10	1,75
0177	M 12	50	18	12	10	1,75
7455	M 12	55	17	12	10	1,75
7406	M 12	55	18	12	10	1,75
0040	M 12	70	18	12	10	1,75
0055	M 12	85	18	12	10	1,75
7404	M 16	40	20	16	10	2
7407	M 16	40	21,5	16	14	2
7450	M 16	40	24	16	14	2
7411	M 16	45	21,5	9	12	2
7067	M 16	45	23	9	12	2
7409	M 16	60	20,5	16	14	2
0179	M 16	60	21,5	9	12	2
7451	M 16	60	24	16	14	2
0042	M 16	80	20,5	16	14	2
7069	M 20	50	30	11	14	2,5
7408	M 20	55	30	20	17	2,5
7417	M 24	60	36	13	17	3
0254	M 24	90	36	13	17	3

LOCKING SCREWS FOR END MILL HOLDERS

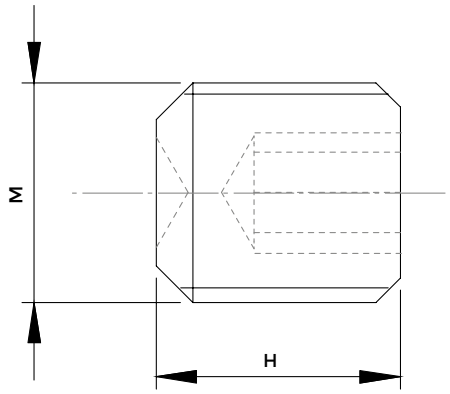




COD.	DESCRIPTION	F x H	STEP
4970	G - WE 6	M 6 x 10	1
4971	G - WE 8	M 8 x 10	1,25
4972	G - WE 10	M 10 x 12	1,5
4973	G - WE 12	M 12 x 16	1,75
4973	G - WE 14	M 12 x 16	1,75
4974	G - WE 16	M 14 x 16	2
4974	G - WE 18	M 14 x 16	2
4975	G - WE 20	M 16 x 16	2
4976	G - WE 25	M 18 x 2 x 20	2
4977	G - WE 32	M 20 x 2 x 20	2
4977	G - WE 40	M 20 x 2 x 20	2
4978	G - WE 50	M 24 x 2 x 20	2

SETTING AND LOCKING SCREWS





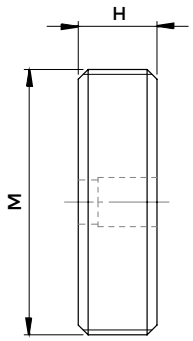
COD.	DESCRIPTION	STEP
0011	M 4 x 4	0,7
0380	M 4 x 8	0,7
0173	M 4 x 14	0,7
0017	M 5 x 4	0,8
0019	M 5 x 5	0,8
0365	M 5 x 6	0,8
0366	M 5 x 10	0,8
0285	M 5 x 30	0,8
0388	M 5 x 40	0,8
0367	M 6 x 4	1
0368	M 6 x 5	1
0020	M 6 x 6	1
0370	M 6 x 8	1
4970	M 6 x 10	1
0371	M 6 x 12	1
0181	M 6 x 14	1
0208	M 6 x 16	1
0253	M 6 x 40	1
0372	M 8 x 6	1,25
0021	M 8 x 8	1,25
4971	M 8 x 10	1,25
0375	M 8 x 12	1,25
0382	M 8 x 16	1,25
0183	M 8 x 20	1,25
0284	M 8 x 40	1,25
0409	M 10 x 1 x10	1
0403	M 10 x 1 x12	1
0385	M 10 x 8	1,5

follows >>

COD.	DESCRIPTION	STEP
0060	M 10 x 10	1,5
4972	M 10 x 12	1,5
0377	M 10 x 16	1,5
0186	M 10 x 20	1,5
0417	M 12 x 1 x12	1
0200	M 12 x 10	1,75
0260	M 12 x 12	1,75
0390	M 12 x 14	1,75
4973	M 12 x 16	1,75
0188	M 12 x 30	1,75
0074	M 14 x 1 x 6	1
0401	M 14 x1,5 x 16	1,5
0082	M 14 x 10	2
0261	M 14 x 12	2
0068	M 14 x 14	2
4974	M 14 x 16	2
0493	M 16 x 1 x12	1
0420	M 16 x 1 x16	1
0404	M 16 x1,5 x 12	1,5
0073	M 16 x 10	2
0070	M 16 x 12	2
0400	M 16 x 14	2
4975	M 16 x 16	2
0076	M 18 x 2 x12	2
0075	M 18 x 2 x17	2
4976	M 18 x 2 x 20	2
0259	M 20 x 2 x 17	2
4977	M 20 x 2 x 20	2
4978	M 24 x 2 x 20	2

SETTING AND LOCKING SCREWS WITH TROUGH HOLE

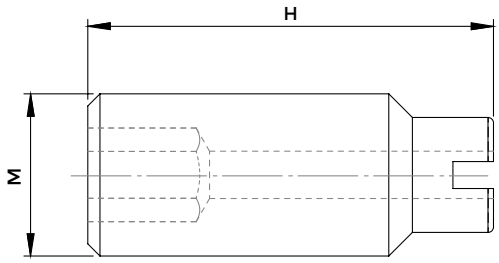




COD.	DESCRIPTION	STEP
0190	M 18 x1,5 x 8	1,5
0191	M 22 x1,5 x 8	1,5
0195	M 27 x1,5 x 8	1,5

LOCKING SCREWS WITH TROUGH HOLE WITH TROUGH HOLE





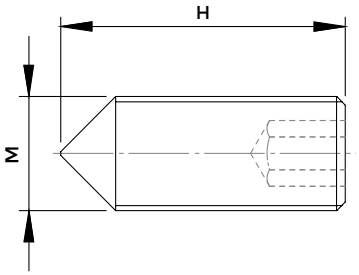
COD.	DESCRIPTION	STEP
0233	M 5 x 16	0,8
0235	M 6 x 16	1
0238	M 8 x 20	1,25
0240	M 10 x 25	1,5

COD.	DESCRIPTION	STEP
0245	M 12 x 30	1,75
1226	M 16 x 20	2
0212	M 20 x 20	2,5
0247	M 20 x 30	2,5

follows >>

LOCKING SCREWS WITH TAPER TIP



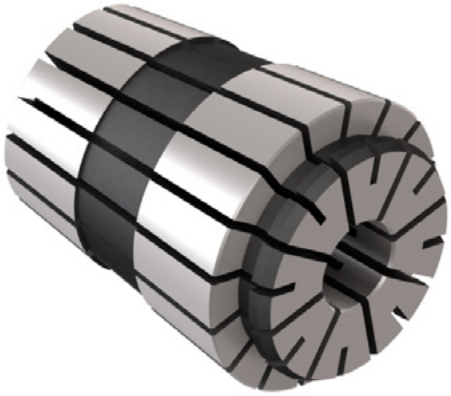


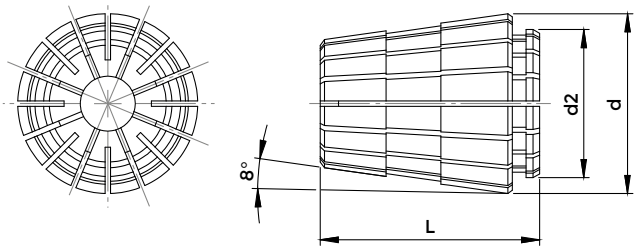
COD.	DESCRIPTION	STEP
0510	M 4 x 4	0,7
0015	M 4 x 14	0,7
0513	M 5 x 5	0,8
0529	M 5 x 6	0,8

COD.	DESCRIPTION	STEP
0016	M 5 x 10	0,8
0036	M 5 x 16	0,8
0531	M 6 x 6	1
0557	M 6 x 10	1
0037	M 8 x 8	1,25

follows >>

ETS COLLETS





ETS

COD.	DESCRIPTION	RANGE	CLAMPING	STEP	d	d2	L	EINHEITS
5200	ETS 16	1 ÷ 3 3 ÷ 10	mm 0,5 mm 1,0	0,5	17	13,6	24	4018E
5201	ETS 20	2 ÷ 3 3 ÷ 13	mm 0,5 mm 1,0	0,5	21	17	30,5	4272E
5202	ETS 25	2 ÷ 3 3 ÷ 16	mm 0,5 mm 1,0	0,5	26	21	34	4280E
5203	ETS 32	3 ÷ 20	mm 1,0	0,5	33	27,2	40	4534E
5204	ETS 40	3 ÷ 26	mm 1,0	0,5	41	32	46	4768E

ETS collets are interchangeable with ER collets (DIN 6499 - ISO 15488) thanks to the same 8° rear taper.
To fit them in a standard ER collet chuck, a nut replacement is needed because of the difference in fore part of the collet.

CHARACTERISTICS:

- System with high precision
- An excellent yeld in high speed



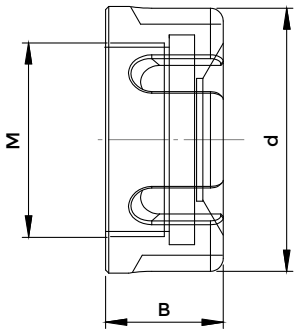
	COD.	N° OF SEATS	COLLET
PLASTIC EMPTY TRAY	3674	16	ETS 16
	3675	16	ETS 20
	3676	20	ETS 25
	3677	20	ETS 32
	3678	28	ETS 40



	COD.	N° OF SEATS	COLLET
WOODEN EMPTY BOX	3976	12	ETS 16
	3977	12	ETS 20
	3978	15	ETS 25
	3979	18	ETS 32
	3980	24	ETS 40

STANDARD CLAMPING NUTS FOR ETS COLLETS





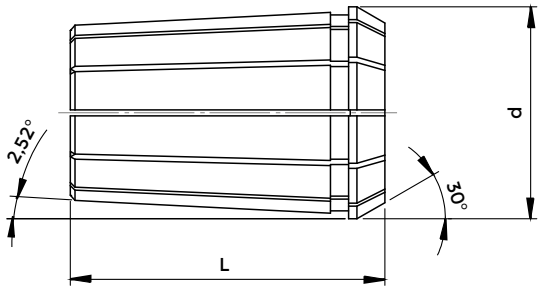
STANDARD CLAMPING NUTS FOR ETS COLLETS
Standard nuts for ETS collets have the same thread than ER Standard nuts; this makes interchangeable those two systems

ETS

COD.	DESCRIPTION	A	B	C	COLLET	WRENCH
						
5294	GS 16 ETS	32	15	22 x 1,5	5200	3698
5295	GS 20 ETS	35	16,5	25 x 1,5	5201	3699
5296	GS 25 ETS	42	18,5	32 x 1,5	5202	3669
5297	GS 32 ETS	50	22	40 x 1,5	5203	3670
5298	GS 40 ETS	63	25	50 x 1,5	5204	3671

EOC COLLETS





DIN 6388

COD.	DESCRIPTION	RANGE	STEP	d	L	EINHEITS
0578	EOC 6	1 ÷ 6	0,5	11,5	21	400E
0624	EOC 8	1 ÷ 8	0,5	14,5	26	401E
0633	EOC 10	1 ÷ 10	0,5	17,2	30	404E
0645	EOC 12	1 ÷ 12	0,5	19,8	34	407E
0768	EOC 16	2 ÷ 16	0,5	25,5	40	415E
0783	EOC 20	2 ÷ 20	0,5	29,8	45	4541E
0769	EOC 25	2 ÷ 25	0,5	35,05	52	462E
0770	EOC 32	3 ÷ 32	0,5	43,7	60	467E
0802	EOC 40	8 ÷ 40	1	52,2	68	468E

REDUCED SET OF EOC COLLETS





	COD.	DESCRIPTION	DIAMETERS	N° OF COLLETS
IN SINGLE PACKS	7010	EOC 16 Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16	6
	7011	EOC 25 Reduced	Ø 6 - 8 - 10 - 12 - 16 - 20 - 25	7
	7012	EOC 32 Reduced	Ø 6 - 8 - 10 - 12 - 16 - 20 - 25 - 32	8
IN CASE	7016	EOC 16 Reduced	Ø 4 - 6 - 8 - 10 - 12 - 16	6
	7017	EOC 25 Reduced	Ø 6 - 8 - 10 - 12 - 16 - 20 - 25	7
	7018	EOC 32 Reduced	Ø 6 - 8 - 10 - 12 - 16 - 20 - 25 - 32	8

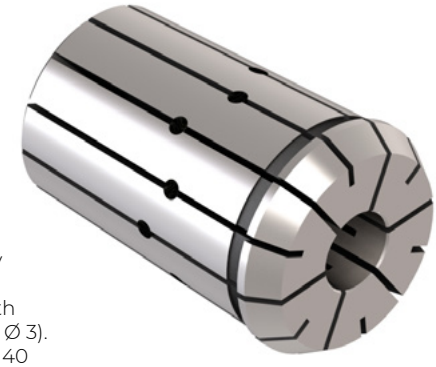
COMPLETE SET OF EOC COLLETS



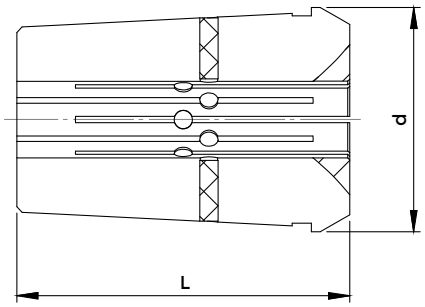


	COD.	DESCRIPTION	DIAMETERS	N° OF COLLETS
IN SINGLE PACKS	7013	EOC 16 Completa	da Ø 2 a Ø 16	15
	7014	EOC 25 Completa	da Ø 2 a Ø 25	24
	7015	EOC 32 Completa	da Ø 4 a Ø 32	29
IN CASE	7019	EOC 16 Completa	da Ø 2 a Ø 16	15
	7020	EOC 25 Completa	da Ø 2 a Ø 25	24
	7021	EOC 32 Completa	da Ø 4 a Ø 32	29

SEALED EOC COLLETS



Coolant flows exclusively through central hole, collet cuts are sealed with neoprene inserts (above Ø 3). Working pressure: up to 40 Bar / 600 PSI

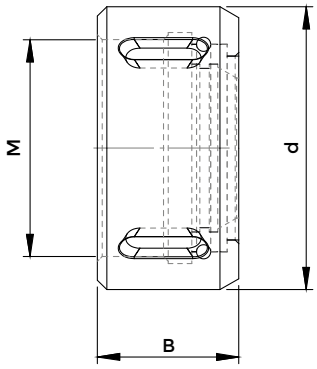


DIN 6388

COD.	DESCRIPTION	RANGE	STEP	d	L
0768 RF	EOC 16 RF	3 ÷ 16	0,5	25,5	40
0769 RF	EOC 25 RF	3 ÷ 25	0,5	35,05	52
0770 RF	EOC 32 RF	4 ÷ 32	1	44	60

CLAMPING NUTS FOR EOC COLLETS



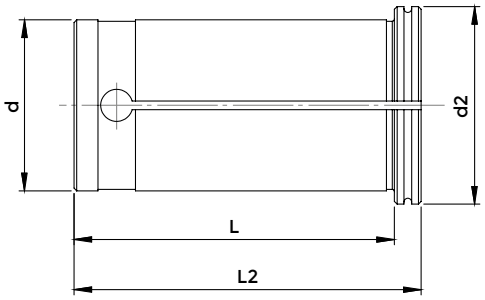


DIN 6388

COD.	DESCRIPTION	d	B	M	COLLET	WRENCH
8641	GOC 6	18	14	14 x 1,0	0578	2880
8642	GOC 8	26	19	20 x 1,5	0624	2820
8643	GOC 10	30	19	22 x 1,5	0633	2881
8644	GOC 12	35	20	27 x 1,5	0645	2882
4067	GOC 16	43	24	33 x 1,5	0768	2883
4008	GOC 20	50	28	42 x 2,0	0783	2908
4068	GOC 25	60	30	48 x 2,0	0769	2909
4069	GOC 32	72	33,5	60 x 2,5	0770	2910
8645	GOC 40	85	37	68 x 2,5	0802	2836

COLLETS FOR HIGH GRIP DEVICES





PC

COD.	DESCRIPTION	RANGE	STEP	d	d2	L	L2
0804	PC 12	3 ÷ 8 OVERSIZE 9 ÷ 10	1,0	12	19	45,5	44,5
0805	PC 16	2,5 ÷ 12	1,0	16	19	46	50
0809	PC 20	3 ÷ 16 OVERSIZE 17 ÷ 18	1,0	20	25	49	52,5
0820	PC 25	3 ÷ 20 OVERSIZE 21 ÷ 22	1,0	25	31	55	60
0810	PC 32	3 ÷ 25 OVERSIZE 26 ÷ 30	1,0	32	37,5	59,5	64,5

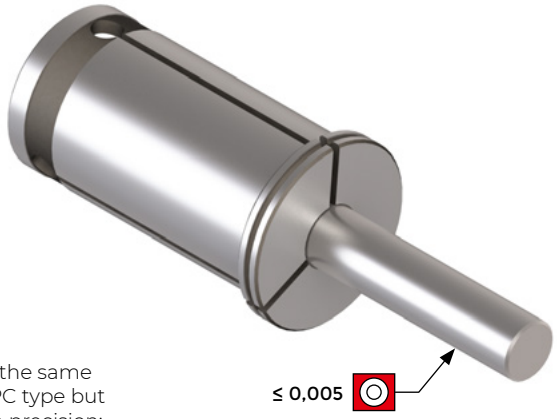
REDUCED SET OF PC COLLETS



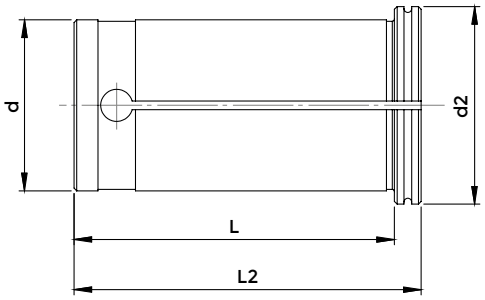


	COD.	DESCRIPTION	DIAMETERS	N° OF COLLETS
IN SINGLE PACKS	7680	PC 20 Reduced	Ø 6 - 8 - 10 - 12 - 16	5
	7681	PC 25 Reduced	Ø 6 - 8 - 10 - 12 - 16 - 20	6
	7682	PC 32 Reduced	Ø 6 - 8 - 10 - 12 - 16 - 20 - 25	7
IN CASE	7683	PC 20 Reduced	Ø 6 - 8 - 10 - 12 - 16	5
	7684	PC 25 Reduced	Ø 6 - 8 - 10 - 12 - 16 - 20	6
	7685	PC 32 Reduced	Ø 6 - 8 - 10 - 12 - 16 - 20 - 25	7

ULTRA PRECISION COLLETS FOR HIGH GRIP DEVICES



Collets with the same features of PC type but with an high precision: ≤ 0,005 runout accuracy.



PC-UP

COD.	DESCRIPTION	RANGE	STEP	d	d2	L	L2
0809 UP	PC 20 UP	3 ÷ 16	1	20	25	49	52,5
0820 UP	PC 25 UP	3 ÷ 20	1	25	31	55	60
0810 UP	PC 32 UP	3 ÷ 25	1	32	37,5	59,5	64,5

REDUCED SET OF PC-UP COLLETS

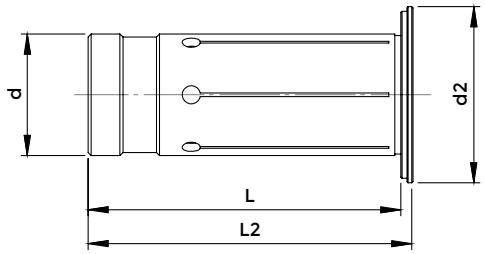




	COD.	DESCRIPTION	DIAMETERS	N° OF COLLETS
IN SINGLE PACKS	7036	PC 20 UP Reduced	Ø 6 - 8 - 10 - 12 - 16	5
	7037	PC 25 UP Reduced	Ø 6 - 8 -10 - 12 - 16 - 20	6
	7038	PC 32 UP Reduced	Ø 6 - 8 - 10 -12 - 16 - 20 - 25	7
IN CASE	7039	PC 20 UP Reduced	Ø 6 - 8 - 10 - 12 - 16	5
	7040	PC 25 UP Reduced	Ø 6 - 8 - 10 - 12 - 16 - 20	6
	7041	PC 32 UP Reduced	Ø 6 - 8 - 10 - 12 - 16 - 20 - 25	7

SEALED COLLETS FOR HYDRAULIC CHUCKS





OVERSIZE diameters, for the construction characteristics, do not allow the use at high pressures. Working pressure: up to 70 Bar / 1020 PSI

PH

COD.	DESCRIPTION	RANGE	STEP	d	d2	L	L2
0520	PH 12	2,5 ÷ 8 OVERSIZE 9 ÷ 10	1	12	16,5	45	47
0521	PH 20	3 ÷ 16 OVERSIZE 17 ÷ 18	1	20	24	50,5	52,5
0676	PH 25	6 ÷ 20 OVERSIZE 21 ÷ 22	1	25	29	54,5	56,5
0522	PH 32	6 ÷ 25 OVERSIZE 26 ÷ 28	1	32	35,5	60,5	62,5

REDUCED SET OF PH COLLETS

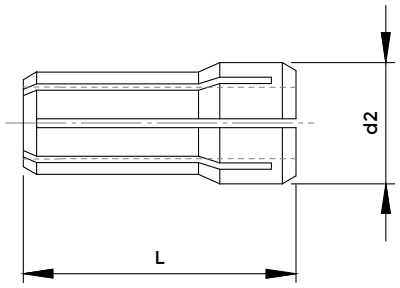




	COD.	DESCRIPTION	DIAMETERS	N° OF COLLETS
IN SINGLE PACKS	7700	PH 20 Reduced	Ø 6 - 8 - 10 - 12 - 16	5
	7701	PH 25 Reduced	Ø 6 - 8 - 10 - 12 - 16 - 20	6
	7702	PH 32 Reduced	Ø 6 - 8 - 10 - 12 - 16 - 20 - 25	7
IN CASE	7703	PH 20 Reduced	Ø 6 - 8 - 10 - 12 - 16	5
	7705	PH 25 Reduced	Ø 6 - 8 - 10 - 12 - 16 - 20	6
	7706	PH 32 Reduced	Ø 6 - 8 - 10 - 12 - 16 - 20 - 25	7

DA COLLETS



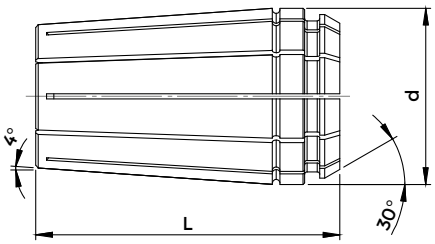


DA

COD.	DESCRIPTION	d	L	RANGE	CLAMPING	EINHEITS
5118	DA 300	9,5	25,4	1 ÷ 6,5	mm 0,5	416E
5119	DA 200	13,6	30,3	1 ÷ 10,0	mm 0,5	417E
5120	DA 100	19,4	36,7	1 ÷ 15,0	mm 0,5	418E
5121	DA 180	26,2	41,6	2 ÷ 20,0	mm 0,5	419E

TG COLLETS



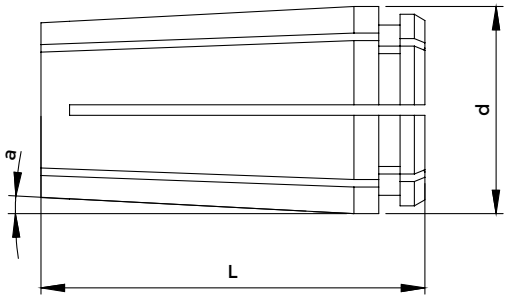


TG

COD.	DESCRIPTION	d	L	RANGE	CLAMPING	EINHEITS
1250	TG 75	27,0	46,9	2 ÷ 16	mm 0,5	420E
1251	TG 100	35,0	60,4	3 ÷ 25	mm 0,5	464E
1252	TG 150	50,8	76,2	10 ÷ 38	mm 0,5	466E

BAKUER COLLETS

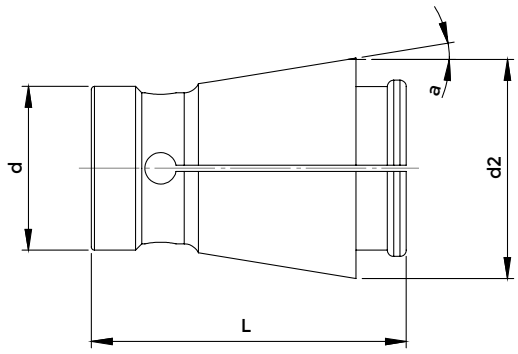




COD.	RANGE	d	L	a
0736	4,0 ÷ 16,0	25,6	48	3°
0737	6,0 ÷ 20,0	29,6	54	3°
0738	8,0 ÷ 25,0	35,7	60	3°

443E COLLETS

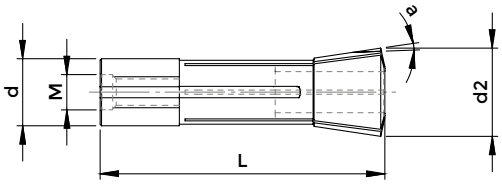




COD.	RANGE	d	d2	L	a	EINHEITS
0772	3,0 ÷ 20	26	35	50	9° 15'	443E

BRIDGEPORT R8 COLLETS





COD.	RANGE	d	d2	L	a	M	EINHEITS
0716	2,0 ÷ 22	24,12	32	106	8° 35'	7/16 - 20"	369E

DIN 6343 COLLETS - ROUND BORE EXECUTIONS

GROOVED INSIDE ROUND COLLET
starting from ø 8 mm







CHARACTERISTIC:

· Drilling Axial seal

Example for Order: 173E Grooved = Art. 0709

SERRATED INSIDE ROUND COLLET
starting from ø 8 mm







CHARACTERISTIC:

· Drilling Axial seal + rotatory seal as twisting moment

Example for Order: 173E Serrated = Art. 0709 **S**

SMOOTH INSIDE ROUND COLLET
all the diameters







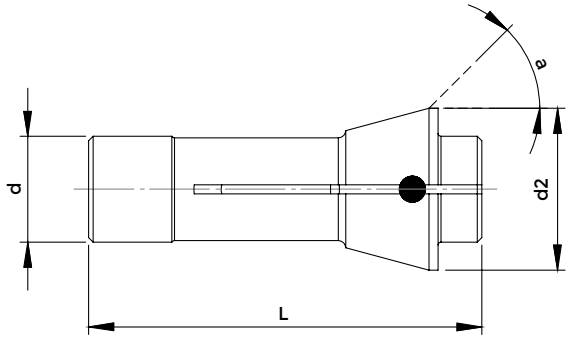
CHARACTERISTIC:

· Suitable to lock finished diameter, doesn't engrave material surface

Example for Order: 173E Smooth = Art. 0709 **L**

SINGLE CONE CLAMPING COLLETS





DIN 6343

COD. ●	COD. ⬢	COD. ■	d	d2	L	a	MAX ●	MAX ⬢	MAX ■	EINHEITS
0721	-	-	8	12	42	16°	6,5	-	-	101E
0725	0949	5000	10	15,5	47,5	20°	8,0	6,0	5,0	109E
0940	0941	0943	13	19	64	16°	10,0	8,0	7,0	116E
0740	0741	0742	14	18	46	13°	10,0	9,0	8,0	117E
0722	0723	0724	15	21	64	16°	12,0	10,0	9,0	120E
0954	0955	0956	20	26	54	15°	16,0	12,0	10,0	136E
5299	5300	5301	20	27,5	60	15°	17,0	15,0	12,0	1299E
0937	0938	0939	20	28	67	16°	16,0	14,0	11,0	138E
0705	0707	0706	22	30	55	15°	18,0	14,0	12,0	140E
0717	0719	0718	25	35	77	16°	20,0	17,0	15,0	145E
0901	0902	0903	27	38	72,7	15°	22,0	20,0	16,0	147E
0713	0715	0714	28	38	70	15°	23,0	20,0	17,0	148E
0931	0932	0933	30	38	65	15°	26,0	22,0	18,0	1446E
0727	0728	0729	30	42	80	16°	25,0	23,0	19,0	157E
0701	0703	0702	32	45	75	15°	26,0	24,0	20,0	161E
0615	0616	0617	35	43	70	15°	25,0	24,0	20,0	162E
0764	0766	0765	35	48	80	15°	30,0	27,0	22,0	163E
0970	0972	0973	37	47	92	16°	32,0	27,0	22,0	1536E
0837	0839	0838	38	50,3	86	15°	32,0	28,0	25,0	-
0919	0920	0921	38,1	49	107,5	15°	32,0	27,0	22,0	164E
0861	0862	0863	42	55	94	15°	37,0	32,0	26,0	171E
0709	0711	0710	48	60	94	15°	42,0	38,0	30,0	173E
2424	2425	2426	58	70	94	15°	52,0	45,0	36,0	177E
0759	0760	0761	66	84	110	15°	60,0	52,0	42,0	185E

For round collets, the article refers to the execution with grooved inside. For the smooth inside add the letter L ,
for the serrated inside add the letter S. See previous page

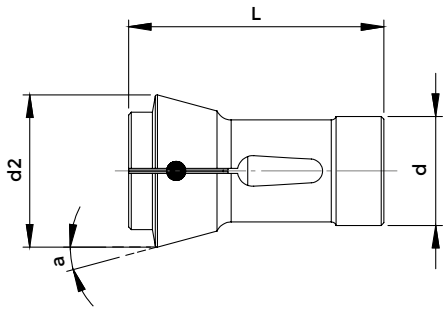
ACCESSORIES



Art. 0018 Woodruff key mm 5x6,5

EMERGENCY COLLETS





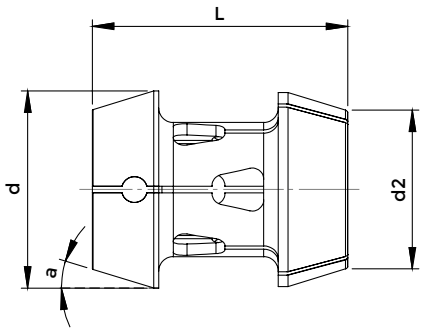
DIN 6343

COD.	d	d2	L	a	EINHEITS
0717EC	25	35	77	16°	145E
0701EC	32	45	75	15°	161E
0970EC	37	47	92	16°	1536E
0709EC	48	60	94	15°	173E
2424EC	58	70	94	15°	177E
0759EC	66	84	110	15°	185E

Emergency collets can be finished by the customer
with the diameter or the desired shape thanks to the workable front.
The supply includes the register pins useful for positioning in the spindle.

DOUBLE CONE CLAMPING COLLETS

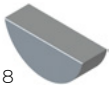




DIN 6343

COD. ●	COD. ⬢	COD. ■	d	L	d2	a	MAX ●	MAX ⬢	MAX ■
0739	0757	0758	60,0	80	49,0	17°	45	38	30
0756	0762	0763	71,6	100	60,0	17°	55	46	38
0927	0928	5053	91,0	100	80,0	17°	70	60	50
0892	0894	0899	108,0	105	95,0	17°	80	68	56

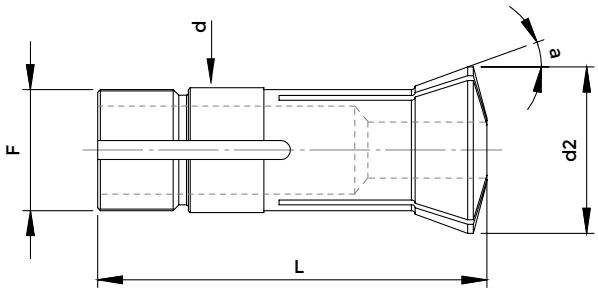
ACCESSORIES



Art. 0018 — Woodruff key mm 5x6,5

DRAWN BACK COLLETS WITH EXTERNAL THREAD



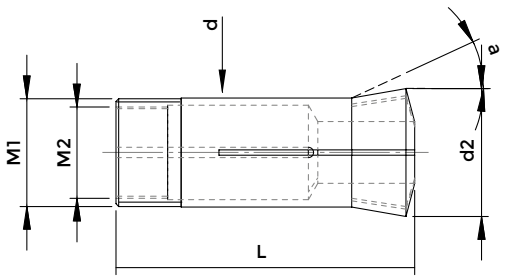


DIN 6343

COD. ●	COD. ⬢	COD. ■	d	d2	L	a	F	MAX ●	W	EINHEITS
0948	-	-	12,0	16,0	46	15°	11,75 x 1,25 45/5°	10	W 12	318E
0750	-	-	15,0	21,5	55,00	20°	M 13 x 1,00	13	-	324E
0800	-	-	20,0	26,3	73,00	15°	19,70 x 1,66 45/5°	20	W 20	349E
0966	-	-	20,0	28,00	122,00	17° 30'	19,70 x 2,00 45/5°	20	-	355E
0751	-	-	25,0	33,5	88,00	16°	M 23 x 1,00	22	-	363E
0674	-	-	25,0	33,7	97,6	15°	24,70 x 15 f " 45/5°	25	W 25	364E
5522	5530	5580	31,75	37,3	87	10° 03'	31,40 x 20 f " 60°	26	W 31,75	385E

DRAWBACK COLLETS WITH EXTERNAL AND INTERNAL THREAD



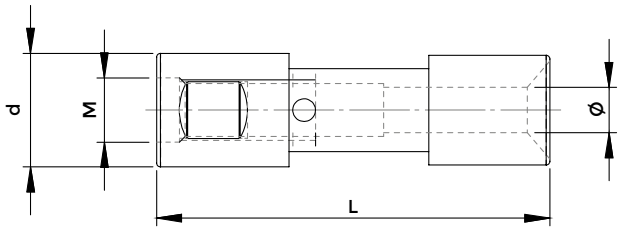


5C

COD. ●	DESCRIPTION	d	d2	L	a	M1	M2	MAX ●
5523	5C	31,75	37,3	87	10°03'	31,4 x 20 f " 60°	26,59 x 24 f "	26

CLAMPING SLEEVES FOR CUCCHI BAR-FEEDERS



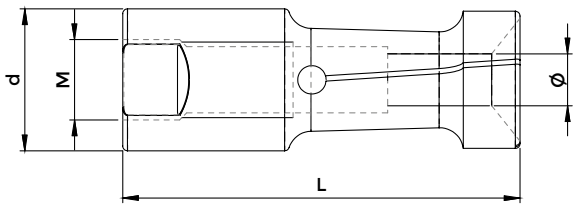


COD. ●	d	L	MIN ●	MAX ●	M DX
0591	20,0	59	3	18,0	M 10 x 1 DX
0591	22,0	59	19	20,0	M 10 x 1 DX
0904	40,0	70	6	37,0	M 25 x 1,5 DX
0904	42,0	70	38	39,0	M 25 x 1,5 DX
0935	46,0	72	37	42,0	M 25 x 1,5 DX
0945	60,0	80	30	55,0	M 25 x 1,5 DX
0708	65,0	80	55	60,0	M 25 x 1,5 DX
0708	69,5	80	61	65,0	M 25 x 1,5 DX
0708	75,0	80	66	70,0	M 25 x 1,5 DX

COD. ●	d	L	MIN ●	MAX ●	M SX
0607	19,0	60	4	16,0	M 10 x 1 SX
0607	20,0	60	17	18,0	M 10 x 1 SX
0653	37,0	70	10	34,0	M 25 x 1,5 SX
0653	39,0	70	35	36,0	M 25 x 1,5 SX
0653	41,0	70	37	39,0	M 25 x 1,5 SX
0654	47,0	70	14	43,0	M 30 x 1,5 SX
0654	49,0	70	44	45,0	M 30 x 1,5 SX

CLAMPING SLEEVES FOR IEMCA BAR-FEEDERS

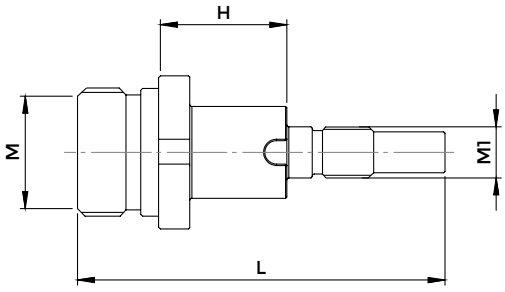




COD. ●	d	L	MIN ●	MAX ●	M DX
0594	7,5	40	2	6,5	M 5 x 0,5 DX
0897	10,0	40	2	8,5	M 6 x 0,75 DX
0593	12,0	42	2	10,5	M 7 x 0,75 DX
0592	15,0	42	2	13,5	M 8 x 1 DX
0591	20,0	59	3	18,0	M 10 x 1 DX
0591	22,0	59	19	20,0	M 10 x 1 DX
0891	25,0	59	4	23,0	M 10 x 1 DX
0823	30,0	65	8	28,0	M 10 x 1 DX
0823	32,0	65	29	30,0	M 10 x 1 DX
0904	40,0	70	6	37,0	M 25 x 1,5 DX
0904	42,0	70	38	39,0	M 25 x 1,5 DX
0935	46,0	72	37	42,0	M 25 x 1,5 DX
0945	60,0	80	30	55,0	M 25 x 1,5 DX
0708	65,0	80	55	60,0	M 25 x 1,5 DX
0708	69,5	80	61	65,0	M 25 x 1,5 DX
0708	75,0	80	66	70,0	M 25 x 1,5 DX

NIPLEX REDUCTIONS FOR IEMCA BAR-FEEDERS

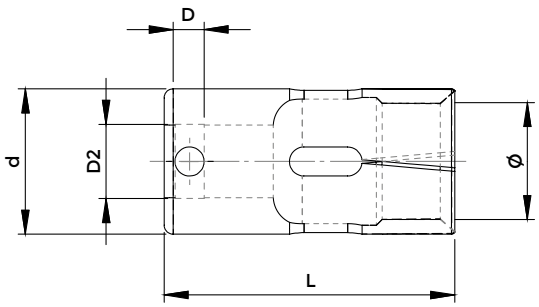




COD.	L	H	M DX	M1 DX
1260	72	26	M 25 x 1,5 DX	M 10 x 1 DX

CLAMPING SLEEVES FOR TOP AUTOMAZIONI BAR-FEEDERS



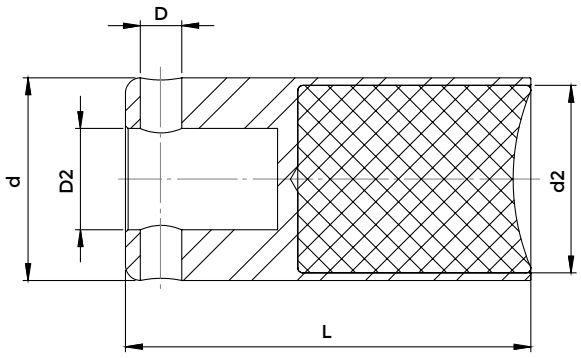


COD. ●	d	L	MIN ●	MAX ●	D	D2
9700	18	80	4	13	5	14
9701	20	80	5	17	5	14
9702	25	80	15	22	5	14
9703	30	80	20	28	8	20
9704	35	80	26	30	8	20
9705	40	80	30	38	8	20
9706	45	80	35	42	8	20
9707	50	80	40	47	8	20
9708	55	80	45	52	8	20
9709	60	80	30	55	8	20
9710	65	80	55	60	8	20
9711	70	80	61	65	8	20
9712	75	80	66	70	8	20
9713	75	80	66	70	8	30
9714	80	80	71	75	8	30
9715	85	95	76	80	8	35
9716	90	95	81	85	8	35
9717	95	95	86	90	8	35
9718	100	95	91	95	8	35

VULKOLLAN WORKABLE EMERGENCY CLAMPING SLEEVES FOR TOP AUTOMAZIONI BAR-FEEDERS



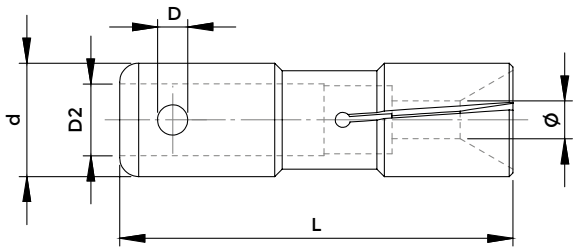
Workable emergency collets can be finished by the customer with the desired diameter thanks to the VULKOLLAN inner part.



COD.	d	d2	L	D	D2
9502	14,9	12,9	80	5	10
9503	19	17	80	5	14
9504	24	22	80	5	20
9504	29	27	80	8	20
9504	31	29	80	8	20
9504	34	32	80	8	20
9504	35	33	80	8	20
9504	37	35	80	8	20
9504	39	37	80	8	20
9504	41	39	80	8	20
9504	44	42	80	8	20
9504	49	47	80	8	20
9504	51	49	80	8	20
9504	54	52	80	8	20
9504	59	57	80	8	20
9504	61	59	80	8	20
9504	64	62	80	8	20
9504	69	67	80	8	20
9505	71	69	80	8	30
9505	74	72	80	8	30
9505	79	77	80	8	30
9505	81	79	80	8	30
9505	84	82	80	8	30
9505	89	87	80	8	30
9505	94	92	80	8	30
9505	99	97	80	8	30
9505	109	107	80	8	30

CLAMPING SLEEVES TOP AUTOMAZIONI BAR-FEEDERS FOR SLIDING HEADSTOCK LATHES

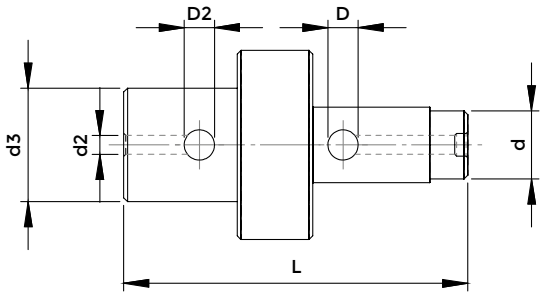




COD. ●	d	L	MAX ●	D	D2
9522	15	52	3 ÷ 13	5	10
9522	18	52	14 ÷ 16	5	10
9523	20	52	17 ÷ 18	5	14
9523	22	52	19	5	14
9523	23	52	20	5	14
9523	25	52	21 ÷ 22	5	14
9523	27	52	23	5	14
9523	28	52	24	5	14
9523	29	52	25	5	14
9523	30	52	26	5	14

NIPLEX FOR TOP AUTOMAZIONI BAR-FEEDERS

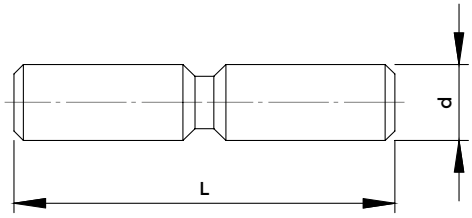




COD.	d	d2	d3	D	D2	L
9506	10	14	18	5	5	79
9507	14	14	19	5	5	79
9508	14	20	30	5	8	91
9509	14	25	35	5	8	91
9510	14	30	50	5	8	91
9511	20	20	30	8	8	91
9512	20	25	35	8	8	91
9513	20	30	50	8	8	91
9514	30	30	50	8	8	91
9524	35	30	70	8	8	81

COLLET LOCKING PINS

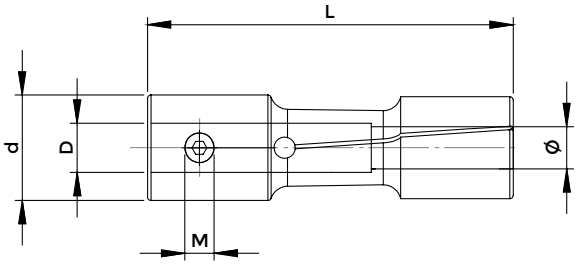




COD.	d	d2
9515	5	15
9516	5	19
9517	5	24
9525	5	27
9526	5	35
9518	8	30
9519	8	40
9520	8	45
9521	8	60

CLAMPING SLEEVES FOR OTHER BAR-FEEDERS





COD.	d	L	D	MIN	MAX	M	EINHEITS
1644	42	90	20 - H7	6,00	39,0	M 8	-

UNIVERSAL REDUCTION SLEEVES WITHOUT STOP



FIG. 1

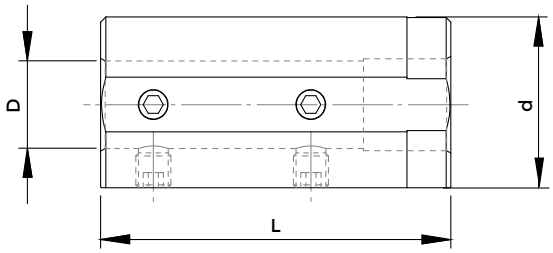
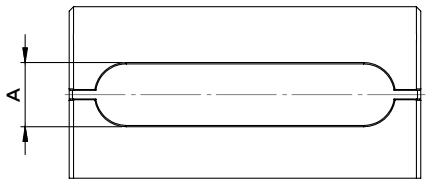


FIG. 2



E 2.1 - E 2.2

COD.	DESCRIPTION	d	D	L	A	FIG.	SCREW
2770	E 2.1 - 20 x 6	20	6	60	-	1	0365
2778	E 2.1 - 20 x 8	20	8	60	-	1	0368
2779	E 2.1 - 20 x 10	20	10	60	-	1	0367
2780	E 2.1 - 20 x 12	20	12	60	-	1	0367
2837	E 2.1 - 25 x 6	25	6	60	-	1	0365
4300	E 2.1 - 25 x 8	25	8	60	-	1	0020
4301	E 2.1 - 25 x 10	25	10	60	-	1	0020
4302	E 2.1 - 25 x 12	25	12	60	-	1	0368
2771	E 2.1 - 25 x 14	25	14	60	-	1	0367
4318	E 2.2 - 25 x 16	25	16	60	9	2	-
2838	E 2.1 - 32 x 6	32	6	70	-	1	0366
4303	E 2.1 - 32 x 8	32	8	70	-	1	4970
4304	E 2.1 - 32 x 10	32	10	70	-	1	4970
4305	E 2.1 - 32 x 12	32	12	70	-	1	0370
2839	E 2.1 - 32 x 14	32	14	70	-	1	0020
4306	E 2.1 - 32 x 16	32	16	70	-	1	0020
2841	E 2.1 - 32 x 18	32	18	70	-	1	0020
4307	E 2.1 - 32 x 20	32	20	70	-	1	0372
4319	E 2.2 - 32 x 25	32	25	70	14	2	-
7059	E 2.1 - 40 x 6	40	6	80	-	1	0366
4308	E 2.1 - 40 x 8	40	8	80	-	1	0181
4309	E 2.1 - 40 x 10	40	10	80	-	1	0371
4310	E 2.1 - 40 x 12	40	12	80	-	1	0371
2845	E 2.1 - 40 x 14	40	14	80	-	1	0371
4311	E 2.1 - 40 x 16	40	16	80	-	1	4970
2847	E 2.1 - 40 x 18	40	18	80	-	1	4970
4312	E 2.1 - 40 x 20	40	20	80	-	1	0021
4313	E 2.1 - 40 x 25	40	25	80	-	1	0372
4320	E 2.2 - 40 x 32	40	32	80	14	2	-
7061	E 2.1 - 50 x 12	50	12	90	-	1	0181
7062	E 2.1 - 50 x 14	50	14	90	-	1	0181
4314	E 2.1 - 50 x 16	50	16	90	-	1	0375
2792	E 2.1 - 50 x 18	50	18	90	-	1	0375
4315	E 2.1 - 50 x 20	50	20	90	-	1	0375
4316	E 2.1 - 50 x 25	50	25	90	-	1	4971
4317	E 2.1 - 50 x 32	50	32	90	-	1	0021
4321	E 2.2 - 50 x 40	50	40	90	14	2	-
8886	E 2.1 - 60 x 16	60	16	160	-	1	0183
8887	E 2.1 - 60 x 20	60	20	160	-	1	0183
8888	E 2.1 - 60 x 25	60	25	160	-	1	0377
8889	E 2.1 - 60 x 32	60	32	160	-	1	4972
8890	E 2.1 - 60 x 40	60	40	160	-	1	0385

UNIVERSAL REDUCTION SLEEVES WITH STOP



FIG. 1

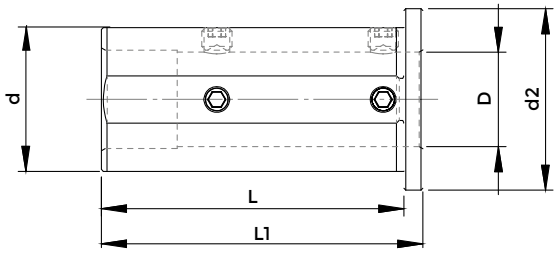
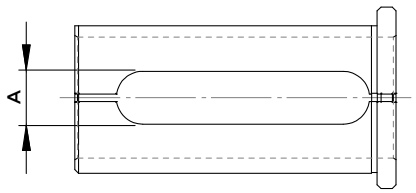


FIG. 2

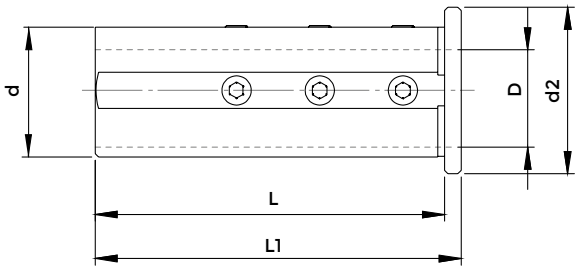


EG.1 - EG.2

COD.	DESCRIPTION	d	D	L	L1	d2	A	FIG.	SCREW
5964	EG.1 - 20 x 6	20	6	50	55	28	-	1	0365
5965	EG.1 - 20 x 8	20	8	50	55	28	-	1	0368
5966	EG.1 - 20 x 10	20	10	50	55	28	-	1	0367
5967	EG.1 - 20 x 12	20	12	50	55	28	-	1	0367
5994	EG.2 - 20 x 14	20	14	50	55	28	9	2	-
5968	EG.1 - 25 x 6	25	6	60	65	33	-	1	0365
5969	EG.1 - 25 x 8	25	8	60	65	33	-	1	0020
5970	EG.1 - 25 x 10	25	10	60	65	33	-	1	0020
5971	EG.1 - 25 x 12	25	12	60	65	33	-	1	0368
5972	EG.1 - 25 x 14	25	14	60	65	33	-	1	0367
5995	EG.2 - 25 x 16	25	16	60	65	33	9	2	-
5996	EG.2 - 25 x 18	25	18	60	65	33	9	2	-
5973	EG.1 - 32 x 6	32	6	70	75	40	-	1	0366
5974	EG.1 - 32 x 8	32	8	70	75	40	-	1	4970
5975	EG.1 - 32 x 10	32	10	70	75	40	-	1	4970
5976	EG.1 - 32 x 12	32	12	70	75	40	-	1	0370
5977	EG.1 - 32 x 14	32	14	70	75	40	-	1	0020
5978	EG.1 - 32 x 16	32	16	70	75	40	-	1	0020
5979	EG.1 - 32 x 18	32	18	70	75	40	-	1	0020
5980	EG.1 - 32 x 20	32	20	70	75	40	-	1	0372
5997	EG.2 - 32 x 25	32	25	70	75	40	14	2	-
5960	EG.1 - 40 x 6	40	6	80	85	48	-	1	0366
5981	EG.1 - 40 x 8	40	8	80	85	48	-	1	0181
5982	EG.1 - 40 x 10	40	10	80	85	48	-	1	0371
5983	EG.1 - 40 x 12	40	12	80	85	48	-	1	0371
5984	EG.1 - 40 x 14	40	14	80	85	48	-	1	0371
5985	EG.1 - 40 x 16	40	16	80	85	48	-	1	4970
5986	EG.1 - 40 x 18	40	18	80	85	48	-	1	4970
5987	EG.1 - 40 x 20	40	20	80	85	48	-	1	0021
5988	EG.1 - 40 x 25	40	25	80	85	48	-	1	0372
5998	EG.2 - 40 x 32	40	32	80	85	48	14	2	-
7063	EG.1 - 50 x 8	50	8	90	95	58	-	1	0181
7064	EG.1 - 50 x 10	50	10	90	95	58	-	1	0371
7065	EG.1 - 50 x 12	50	12	90	95	58	-	1	0371
7066	EG.1 - 50 x 14	50	14	90	95	58	-	1	0371
5989	EG.1 - 50 x 16	50	16	90	95	58	-	1	0375
5990	EG.1 - 50 x 18	50	18	90	95	58	-	1	0375
5991	EG.1 - 50 x 20	50	20	90	95	58	-	1	0375
5992	EG.1 - 50 x 25	50	25	90	95	58	-	1	4971
5993	EG.1 - 50 x 32	50	32	90	95	58	-	1	0021
5999	EG.2 - 50 x 40	50	40	90	95	58	14	2	-

EXTENDED UNIVERSAL REDUCTION SLEEVES WITH STOP



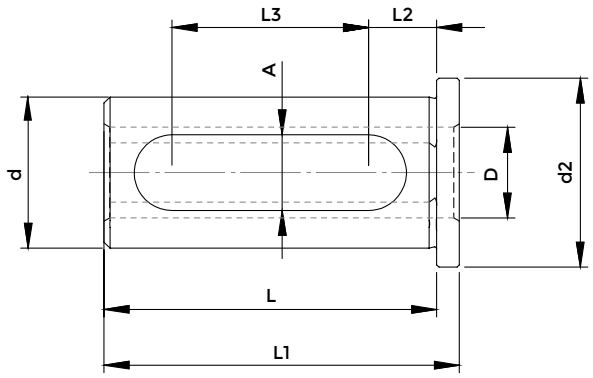


EG.3

COD.	DESCRIPTION	d	D	L	L1	d2	SCREW
5315	EG. 3 - 32 x 6	32	6	85	90	40	0366
5316	EG. 3 - 32 x 8	32	8	85	90	40	4970
5317	EG. 3 - 32 x 10	32	10	85	90	40	0370
5318	EG. 3 - 32 x 12	32	12	85	90	40	0370
7042	EG. 3 - 32 x 14	32	14	85	90	40	0370
5319	EG. 3 - 32 x 16	32	16	85	90	40	0020
7043	EG. 3 - 32 x 18	32	18	85	90	40	0020
5320	EG. 3 - 32 x 20	32	20	85	90	40	0367
5321	EG. 3 - 40 x 6	40	6	105	110	50	0366
5322	EG. 3 - 40 x 8	40	8	105	110	50	0181
5323	EG. 3 - 40 x 10	40	10	105	110	50	0371
5324	EG. 3 - 40 x 12	40	12	105	110	50	0371
5918	EG. 3 - 40 x 14	40	14	105	110	50	0371
5325	EG. 3 - 40 x 16	40	16	105	110	50	4971
5919	EG. 3 - 40 x 18	40	18	105	110	50	4971
5326	EG. 3 - 40 x 20	40	20	105	110	50	0021
5327	EG. 3 - 40 x 25	40	25	105	110	50	0372
5328	EG. 3 - 50 x 12	50	12	125	130	60	0382
7044	EG. 3 - 50 x 14	50	14	125	130	60	0382
5329	EG. 3 - 50 x 16	50	16	125	130	60	0375
7045	EG. 3 - 50 x 18	50	18	125	130	60	0375
5330	EG. 3 - 50 x 20	50	20	125	130	60	0375
5331	EG. 3 - 50 x 25	50	25	125	130	60	4971
5332	EG. 3 - 50 x 32	50	32	125	130	60	0021
8840	EG. 3 - 60 x 20	60	20	135	140	70	0186
8841	EG. 3 - 60 x 25	60	25	135	140	70	0377
8842	EG. 3 - 60 x 32	60	32	135	140	70	4972
8843	EG. 3 - 60 x 40	60	40	135	140	70	0385
8845	EG. 3 - 80 x 25	80	25	145	150	90	4973
8846	EG. 3 - 80 x 32	80	32	145	150	90	4973
8847	EG. 3 - 80 x 40	80	40	145	150	90	4973
8848	EG. 3 - 80 x 50	80	50	145	150	90	4973

SLOTTED REDUCTION SLEEVES WITH STOP

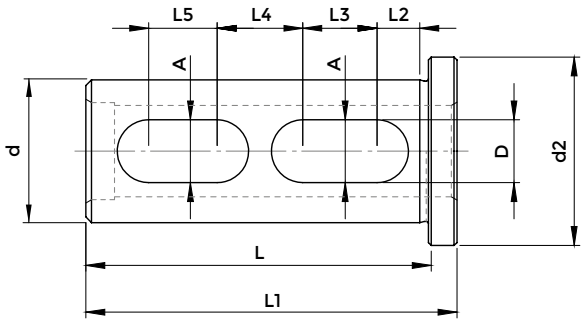




EG.5

COD.	DESCRIPTION	d	D	L	L1	L2	L3	A	d2
8796	EG. 5 - 20 x 8	20	8	44	47	9,5	25	11	25
8797	EG. 5 - 20 x 10	20	10	44	47	9,5	25	11	25
8798	EG. 5 - 20 x 12	20	12	44	47	9,5	25	11	25
8880	EG. 5 - 20 x 14	20	14	44	47	9,5	25	11	25
8799	EG. 5 - 20 x 16	20	16	44	47	9,5	25	11	25
8557	EG. 5 - 25 x 8	25	8	54	57	8,5	33	13	30
8558	EG. 5 - 25 x 10	25	10	54	57	8,5	33	13	30
8559	EG. 5 - 25 x 12	25	12	54	57	8,5	33	13	30
8560	EG. 5 - 25 x 14	25	14	54	57	8,5	33	13	30
8561	EG. 5 - 25 x 16	25	16	54	57	8,5	33	13	30
8562	EG. 5 - 25 x 18	25	18	54	57	8,5	33	13	30
8563	EG. 5 - 25 x 20	25	20	54	57	8,5	33	13	30
8564	EG. 5 - 32 x 8	32	8	64	68	8,5	42	13	37
8565	EG. 5 - 32 x 10	32	10	64	68	8,5	42	13	37
8566	EG. 5 - 32 x 12	32	12	64	68	8,5	42	13	37
8567	EG. 5 - 32 x 14	32	14	64	68	8,5	42	13	37
8568	EG. 5 - 32 x 16	32	16	64	68	8,5	42	13	37
8569	EG. 5 - 32 x 18	32	18	64	68	8,5	42	13	37
8570	EG. 5 - 32 x 20	32	20	64	68	8,5	42	13	37
8571	EG. 5 - 32 x 25	32	25	64	68	8,5	42	13	37
8835	EG. 5 - 40 x 12	40	12	74	79	9	51	14	45
8836	EG. 5 - 40 x 14	40	14	74	79	9	51	14	45
8837	EG. 5 - 40 x 16	40	16	74	79	9	51	14	45
8838	EG. 5 - 40 x 18	40	18	74	79	9	51	14	45
8897	EG. 5 - 40 x 20	40	20	74	79	9	51	14	45
8898	EG. 5 - 40 x 25	40	25	74	79	9	51	14	45
8899	EG. 5 - 40 x 32	40	32	74	79	9	51	14	45

LONG TYPE WITH DOUBLE SLOT

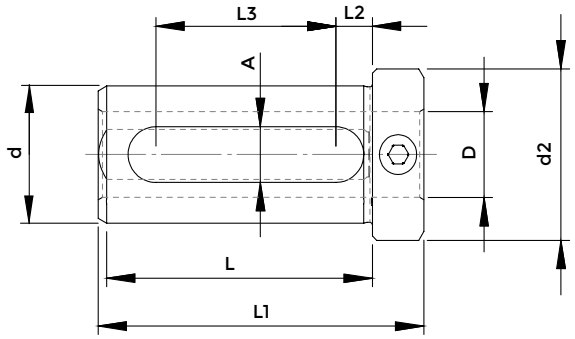


EG.4

COD.	DESCRIPTION	d	D	L	L1	L2	L3	L4	L5	A	d2
8839	EG. 4 - 25 x 16	25	16	60	65	9	13	15	12	11	33
5333	EG. 4 - 32 x 25	32	25	85	90	9	25	18	22	11	40
5334	EG. 4 - 40 x 32	40	32	105	110	10	35	20	28	13	50
5335	EG. 4 - 50 x 40	50	40	125	130	10	45	20	37	13	60
8844	EG. 4 - 60 x 50	60	50	135	140	15	40	28	28	13	70
8849	EG. 4 - 80 x 60	80	60	145	150	25	30	25	15	14	90

SLOTTED REDUCTION SLEEVES WITH GRAIN ON THE STOP



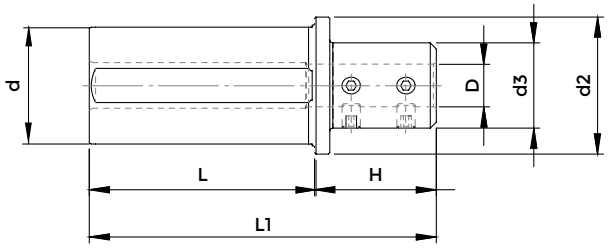


EG.6

COD.	DESCRIPTION	d	D	L	L1	L2	L3	A	d2	SCREW
8754	EG. 6 - 20 x 8	20	8	49	59	7,5	29	11	27	0370
8755	EG. 6 - 20 x 10	20	10	49	59	7,5	29	11	27	0370
8756	EG. 6 - 20 x 12	20	12	49	59	7,5	29	11	27	0370
8757	EG. 6 - 20 x 14	20	14	49	59	7,5	29	11	27	0370
8758	EG. 6 - 20 x 16	20	16	49	59	7,5	29	11	27	0368
8759	EG. 6 - 25 x 12	25	12	54	66	8,5	32	13	32	0375
8760	EG. 6 - 25 x 14	25	14	54	66	8,5	32	13	32	0372
8761	EG. 6 - 25 x 16	25	16	54	66	8,5	32	13	32	0372
8762	EG. 6 - 25 x 18	25	18	54	66	8,5	32	13	32	0372
8763	EG. 6 - 25 x 20	25	20	54	66	8,5	32	13	32	0372
8764	EG. 6 - 32 x 16	32	16	64	76	8,5	42	13	39	0375
8765	EG. 6 - 32 x 18	32	18	64	76	8,5	42	13	39	0375
8766	EG. 6 - 32 x 20	32	20	64	76	8,5	42	13	39	0372
8767	EG. 6 - 32 x 25	32	25	64	76	8,5	42	13	39	0372
8768	EG. 6 - 40 x 16	40	16	74	88	9	51	14	48	0377
8769	EG. 6 - 40 x 18	40	18	74	88	9	51	14	48	0377
8770	EG. 6 - 40 x 20	40	20	74	88	9	51	14	48	0377
8771	EG. 6 - 40 x 25	40	25	74	88	9	51	14	48	0060
8772	EG. 6 - 40 x 32	40	32	74	88	9	51	14	48	0060
8773	EG. 6 - 50 x 25	50	25	84	98	9	61	14	59	0377
8774	EG. 6 - 50 x 32	50	32	84	98	9	61	14	59	0377
8775	EG. 6 - 50 x 40	50	40	84	98	9	61	14	59	0060
8881	EG. 6 - 60 x 25	60	25	94	108	9	71	14	69	0377
8882	EG. 6 - 60 x 32	60	32	94	108	9	71	14	69	0377
8883	EG. 6 - 60 x 40	60	40	94	108	9	71	14	69	0377
8884	EG. 6 - 60 x 50	60	50	94	108	9	71	14	69	0060

REDUCTION SLEEVES WITH EXTENSION

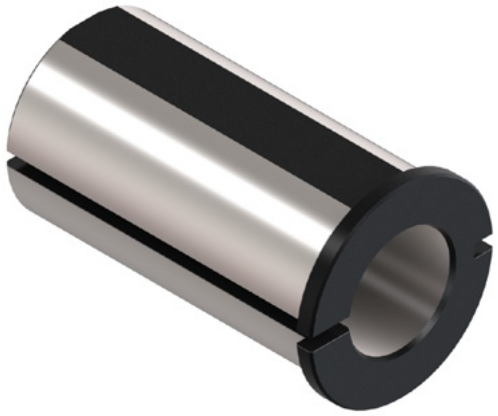


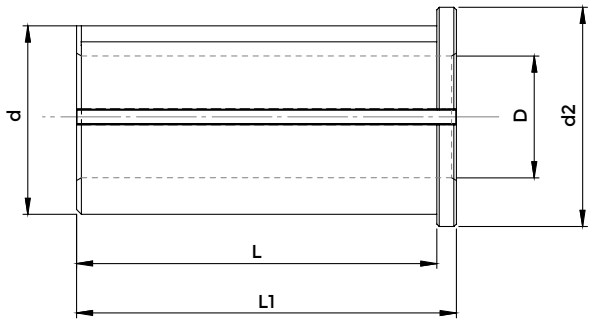


EG.7

COD.	DESCRIPTION	d	D	L	H	L2	d2	d3	SCREW
9567	EG. 7 - 25 x 6	25	6	54	30	84	30	20	0365
9568	EG. 7 - 25 x 8	25	8	54	30	84	30	22	0370
9569	EG. 7 - 25 x 10	25	10	54	30	84	30	24	0370
9570	EG. 7 - 25 x 12	25	12	54	30	84	30	26	0370
9571	EG. 7 - 25 x 14	25	14	54	30	84	30	28	0370
9572	EG. 7 - 25 x 16	25	16	54	30	84	30	30	0370
9573	EG. 7 - 32 x 6	32	6	64	30	94	37	20	0365
9574	EG. 7 - 32 x 8	32	8	64	30	94	37	22	0370
9575	EG. 7 - 32 x 10	32	10	64	30	94	37	24	0370
9576	EG. 7 - 32 x 12	32	12	64	30	94	37	26	0370
9577	EG. 7 - 32 x 14	32	14	64	30	94	37	28	0370
9578	EG. 7 - 32 x 16	32	16	64	30	94	37	30	0370
9579	EG. 7 - 32 x 18	32	18	64	30	94	37	32	0370
9580	EG. 7 - 32 x 20	32	20	64	30	94	37	34	0370
9581	EG. 7 - 40 x 6	40	6	74	40	114	45	20	0365
9582	EG. 7 - 40 x 8	40	8	74	40	114	45	22	0370
9583	EG. 7 - 40 x 10	40	10	74	40	114	45	24	0370
9584	EG. 7 - 40 x 12	40	12	74	40	114	45	26	0370
9585	EG. 7 - 40 x 14	40	14	74	40	114	45	28	0370
9586	EG. 7 - 40 x 16	40	16	74	40	114	45	30	0370
9587	EG. 7 - 40 x 18	40	18	74	40	114	45	32	0370
9588	EG. 7 - 40 x 20	40	20	74	40	114	45	34	0372
9589	EG. 7 - 40 x 25	40	25	74	40	114	45	39	0372
9590	EG. 7 - 50 x 12	50	12	84	40	124	55	26	0370
9591	EG. 7 - 50 x 14	50	14	84	40	124	55	28	0370
9592	EG. 7 - 50 x 16	50	16	84	40	124	55	30	0370
9593	EG. 7 - 50 x 18	50	18	84	40	124	55	32	0370
9594	EG. 7 - 50 x 20	50	20	84	40	124	55	34	0372
9595	EG. 7 - 50 x 25	50	25	84	40	124	55	39	0372

SPLITTED REDUCTION SLEEVES WITH STOP - RZ TYPE



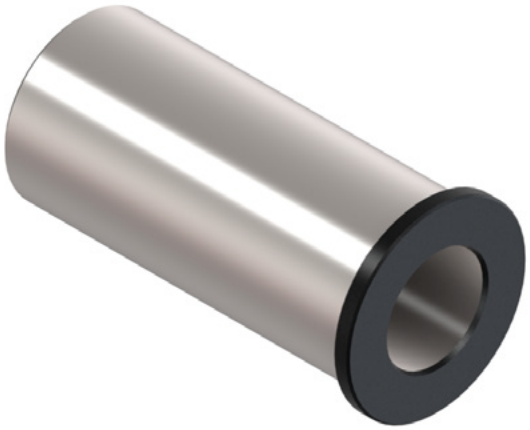


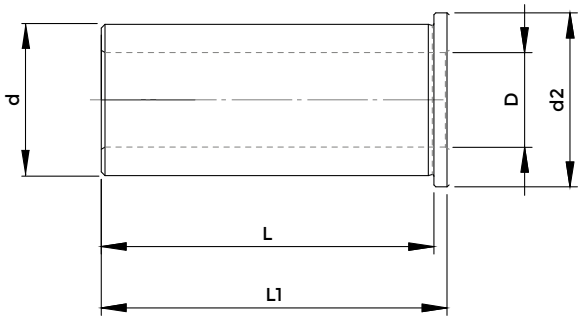
RZ

COD.	DESCRIPTION	d	D	L	L1	d2
5920	RZ - 20 x 8	20	8	36	40	25
5921	RZ - 20 x 10	20	10	36	40	25
5922	RZ - 20 x 12	20	12	36	40	25
5923	RZ - 20 x 14	20	14	36	40	25
5924	RZ - 20 x 16	20	16	36	40	25
5925	RZ - 25 x 8	25	8	46	50	30
5926	RZ - 25 x 10	25	10	46	50	30
5927	RZ - 25 x 12	25	12	46	50	30
5928	RZ - 25 x 14	25	14	46	50	30
5929	RZ - 25 x 16	25	16	46	50	30
5930	RZ - 25 x 18	25	18	46	50	30
5931	RZ - 25 x 20	25	20	46	50	30
5932	RZ - 32 x 8	32	8	56	60	37
5933	RZ - 32 x 10	32	10	56	60	37
5934	RZ - 32 x 12	32	12	56	60	37
5935	RZ - 32 x 14	32	14	56	60	37
5936	RZ - 32 x 16	32	16	56	60	37
5937	RZ - 32 x 18	32	18	56	60	37
5938	RZ - 32 x 20	32	20	56	60	37
5939	RZ - 32 x 25	32	25	56	60	37
5941	RZ - 40 x 10	40	10	74	78	45
5942	RZ - 40 x 12	40	12	74	78	45
5943	RZ - 40 x 14	40	14	74	78	45
5944	RZ - 40 x 16	40	16	74	78	45
5945	RZ - 40 x 18	40	18	74	78	45
5946	RZ - 40 x 20	40	20	74	78	45
5947	RZ - 40 x 25	40	25	74	78	45
5948	RZ - 40 x 32	40	32	74	78	45
5951	RZ - 50 x 20	50	20	84	88	55
5952	RZ - 50 x 25	50	25	84	88	55
5953	RZ - 50 x 32	50	32	84	88	55
5954	RZ - 50 x 40	50	40	84	88	55
5956	RZ - 60 x 25	60	25	88	92	65
5957	RZ - 60 x 32	60	32	88	92	65
5958	RZ - 60 x 40	60	40	88	92	65
5959	RZ - 60 x 50	60	50	88	92	65

The double cut increases the bush elastic capacity reducing thus tool vibrations

GRINDED NOT HARDENED REDUCTION SLEEVES WITH STOP





E2.LAV

COD.	DESCRIPTION	d	D	L	L1	d2
1509	E2 .LAV - 25 x 8	25	8	70	74	32
1511	E2 .LAV - 25 x 10	25	10	70	74	32
1513	E2 .LAV - 25 x 12	25	12	70	74	32
1517	E2 .LAV - 25 x 16	25	16	70	74	32
1519	E2 .LAV - 25 x 20	25	20	70	74	32
2284	E2 .LAV - 32 x 10	32	10	88	92	36
2286	E2 .LAV - 32 x 12	32	12	88	92	36
2289	E2 .LAV - 32 x 16	32	16	88	92	36
2291	E2 .LAV - 32 x 20	32	20	88	92	36
2293	E2 .LAV - 32 x 25	32	25	88	92	36
2440	E2 .LAV - 40 x 12	40	12	88	92	46
2442	E2 .LAV - 40 x 16	40	16	88	92	46
2446	E2 .LAV - 40 x 20	40	20	88	92	46
2460	E2 .LAV - 40 x 25	40	25	88	92	46
2466	E2 .LAV - 40 x 32	40	32	88	92	46

REDUCTION SLEEVES FOR BORING BAR HOLDERS



FIG. 1

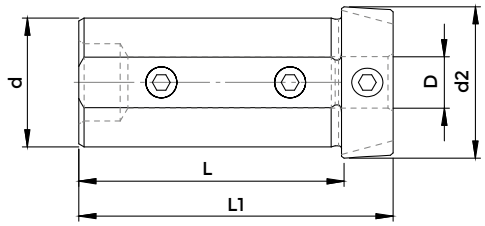
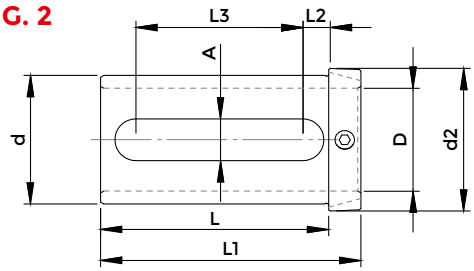


FIG. 2



EG.R

COD.	DESCRIPTION	d	D	L	L1	L2	L3	A	d2	FIG.
9600	EG . R - 25 x 8	25	8	51	61	-	-	-	-	1
9601	EG . R - 25 x 10	25	10	51	61	-	-	-	-	1
9602	EG . R - 25 x 12	25	12	51	61	-	-	-	-	1
9603	EG . R - 25 x 14	25	14	51	61	-	-	-	-	1
9604	EG . R - 25 x 16	25	16	51	61	8	34	13	30	2
9605	EG . R - 25 x 18	25	18	51	61	8	34	13	30	2
9606	EG . R - 25 x 20	25	20	51	61	8	34	13	30	2
9607	EG . R - 32 x 8	32	8	57,5	67,5	-	-	-	-	1
9608	EG . R - 32 x 10	32	10	57,5	67,5	-	-	-	-	1
9609	EG . R - 32 x 12	32	12	57,5	67,5	-	-	-	-	1
9610	EG . R - 32 x 14	32	14	57,5	67,5	-	-	-	-	1
9611	EG . R - 32 x 16	32	16	57,5	67,5	8	40	13	37	2
9612	EG . R - 32 x 18	32	18	57,5	67,5	8	40	13	37	2
9613	EG . R - 32 x 20	32	20	57,5	67,5	8	40	13	37	2
9614	EG . R - 32 x 25	32	25	57,5	67,5	8	40	13	37	2
9615	EG . R - 40 x 8	40	8	71	81	-	-	-	-	1
9616	EG . R - 40 x 10	40	10	71	81	-	-	-	-	1
9617	EG . R - 40 x 12	40	12	71	81	-	-	-	-	1
9618	EG . R - 40 x 14	40	14	71	81	-	-	-	-	1
9619	EG . R - 40 x 16	40	16	71	81	8	52	13	45	2
9620	EG . R - 40 x 18	40	18	71	81	8	52	13	45	2
9621	EG . R - 40 x 20	40	20	71	81	8	52	13	45	2
9622	EG . R - 40 x 25	40	25	71	81	8	52	13	45	2
9623	EG . R - 40 x 32	40	32	71	81	8	52	13	45	2

Suitable for any boring bar (VDI, HSK, Polygonal, etc).
Stop shape avoids interference with coolant nozzles

MORSE TAPER REDUCTION SLEEVES WITHOUT STOP



FIG. 1

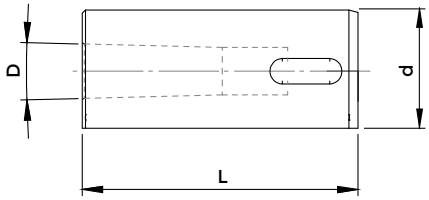
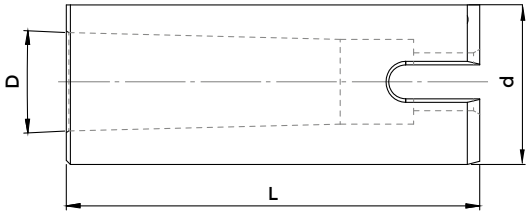


FIG. 2



E 2.3

COD.	DESCRIPTION	d	CM	D	L	FIG.
5217	E 2.3 - 20 x 1	20	1	12,065	60	2
5218	E 2.3 - 20 x 2	20	2	17,78	90	1
5219	E 2.3 - 25 x 1	25	1	12,065	60	2
5220	E 2.3 - 25 x 2	25	2	17,78	90	1
5221	E 2.3 - 32 x 1	32	1	12,065	60	2
4322	E 2.3 - 32 x 2	32	2	17,78	90	1
4323	E 2.3 - 32 x 3	32	3	23,825	100	2
4324	E 2.3 - 40 x 2	40	2	17,78	90	1
4325	E 2.3 - 40 x 3	40	3	23,825	100	2
2857	E 2.3 - 40 x 4	40	4	31,267	120	2
4326	E 2.3 - 50 x 2	50	2	17,78	90	1
4327	E 2.3 - 50 x 3	50	3	23,825	100	2
4328	E 2.3 - 50 x 4	50	4	31,267	120	2
8891	E 2.3 - 60 x 3	60	3	23,825	160	1
8892	E 2.3 - 60 x 4	60	4	31,267	160	1
8893	E 2.3 - 60 x 5	60	5	44,399	160	2

MORSE TAPER REDUCTION SLEEVES WITH STOP



FIG. 1

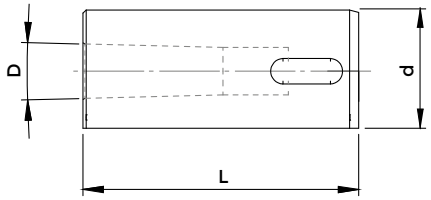
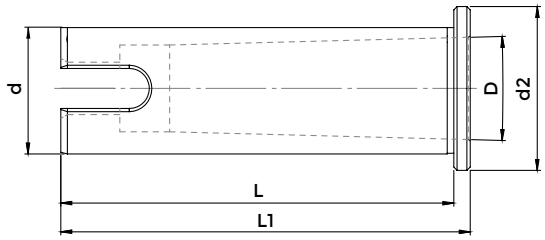


FIG. 2

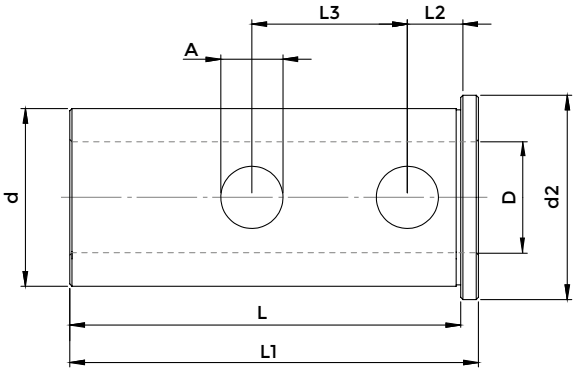


E 2.G6

COD.	DESCRIPTION	d	CM	D	L	L1	d2	FIG.
1722	E2.G6 - 20 x 1	20	1	12,065	65	70	28	2
1723	E2.G6 - 20 x 2	20	2	17,78	70	75	28	2
1786	E2.G6 - 25 x 1	25	1	12,065	70	75	33	2
1787	E2.G6 - 25 x 2	25	2	17,78	70	75	33	2
1788	E2.G6 - 25 x 3	25	3	23,825	79	98	33	2
1376	E2.G6 - 32 x 1	32	1	12,065	85	90	40	1
1377	E2.G6 - 32 x 2	32	2	17,78	85	90	40	1
1378	E2.G6 - 32 x 3	32	3	23,825	95	100	40	2
3245	E2.G6 - 40 x 2	40	2	17,78	105	110	50	1
1232	E2.G6 - 40 x 3	40	3	23,825	105	110	50	1
5603	E2.G6 - 40 x 4	40	4	31,267	120	125	50	2
5961	E2.G6 - 50 x 2	50	2	17,78	125	130	63	1
5962	E2.G6 - 50 x 3	50	3	23,825	125	130	63	1
5963	E2.G6 - 50 x 4	50	4	31,267	125	130	63	1
8894	E2.G6 - 60 x 3	60	3	23,825	130	140	70	1
8895	E2.G6 - 60 x 4	60	4	31,267	130	140	70	1
8896	E2.G6 - 60 x 5	60	5	44,399	145	155	70	2

REDUCTION SLEEVES FOR BIGLIA ETC.

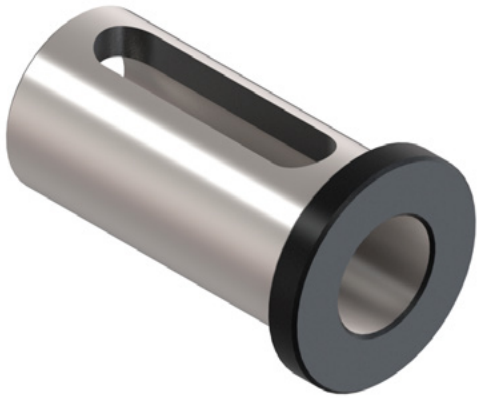


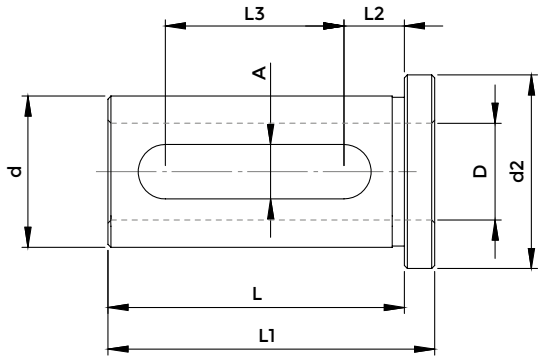


BG.1

COD.	DESCRIPTION	d	D	L	L1	L2	L3	A	d2
2823	BG.1 - 25 x 8	25	8	70	74	7	28	9	32
2824	BG.1 - 25 x 10	25	10	70	74	7	28	9	32
1064	BG.1 - 25 x 12	25	12	70	74	7	28	9	32
2198	BG.1 - 25 x 16	25	16	70	74	7	28	9	32
1212	BG.1 - 25 x 20	25	20	70	74	7	28	9	32
3229	BG.1 - 32 x 8	32	8	88	92	9	35	14	36
3230	BG.1 - 32 x 10	32	10	88	92	9	35	14	36
3231	BG.1 - 32 x 12	32	12	88	92	9	35	14	36
3232	BG.1 - 32 x 16	32	16	88	92	9	35	14	36
3233	BG.1 - 32 x 20	32	20	88	92	9	35	14	36
3234	BG.1 - 32 x 25	32	25	88	92	9	35	14	36
3240	BG.1 - 40 x 10	40	10	88	92	9	35	14	46
3239	BG.1 - 40 x 12	40	12	88	92	9	35	14	46
3238	BG.1 - 40 x 16	40	16	88	92	9	35	14	46
3235	BG.1 - 40 x 20	40	20	88	92	9	35	14	46
3236	BG.1 - 40 x 25	40	25	88	92	9	35	14	46
3237	BG.1 - 40 x 32	40	32	88	92	9	35	14	46

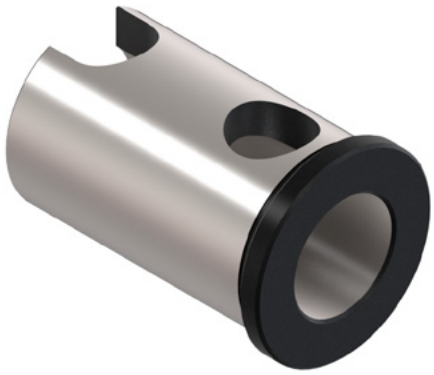
SHORT REDUCTION SLEEVES FOR BIGLIA ETC.

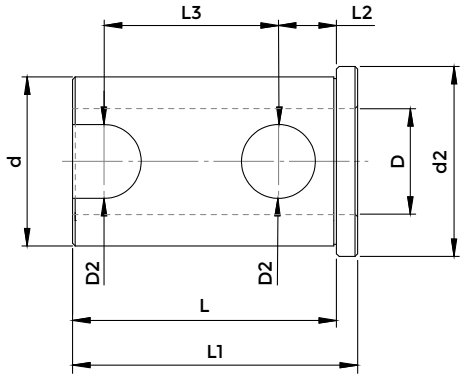




BG.2

COD.	DESCRIPTION	d	D	L	L1	L2	L3	A	d2
0022	BG.2 - 25 x 8	25	8	49	54	10	29,5	9	32
0024	BG.2 - 25 x 10	25	10	49	54	10	29,5	9	32
0025	BG.2 - 25 x 12	25	12	49	54	10	29,5	9	32
0091	BG.2 - 25 x 14	25	14	49	54	10	29,5	9	32
0026	BG.2 - 25 x 16	25	16	49	54	10	29,5	9	32
0092	BG.2 - 25 x 18	25	18	49	54	10	29,5	9	32
0034	BG.2 - 25 x 20	25	20	49	54	10	29,5	9	32





BG.2

COD.	DESCRIPTION	d	D	L	L1	L2	L3	A	d2
1083	BG.2 - 32 x 8	32	8	50	54	9	35	14	36
1236	BG.2 - 32 x 10	32	10	50	54	9	35	14	36
3246	BG.2 - 32 x 12	32	12	50	54	9	35	14	36
2604	BG.2 - 32 x 14	32	14	50	54	9	35	14	36
3247	BG.2 - 32 x 16	32	16	50	54	9	35	14	36
2605	BG.2 - 32 x 18	32	18	50	54	9	35	14	36
3248	BG.2 - 32 x 20	32	20	50	54	9	35	14	36
3249	BG.2 - 32 x 25	32	25	50	54	9	35	14	36
9558	BG.2 - 40 x 8	40	8	50	54	9	35	14	44
9559	BG.2 - 40 x 10	40	10	50	54	9	35	14	44
9560	BG.2 - 40 x 12	40	12	50	54	9	35	14	44
9561	BG.2 - 40 x 14	40	14	50	54	9	35	14	44
9562	BG.2 - 40 x 16	40	16	50	54	9	35	14	44
9563	BG.2 - 40 x 18	40	18	50	54	9	35	14	44
9564	BG.2 - 40 x 20	40	20	50	54	9	35	14	44
9565	BG.2 - 40 x 25	40	25	50	54	9	35	14	44
9566	BG.2 - 40 x 32	40	32	50	54	9	35	14	44

REDUCTION SLEEVES WITH GRAIN ON STOP FOR DOOSAN DAEWOO ETC.



FIG. 1

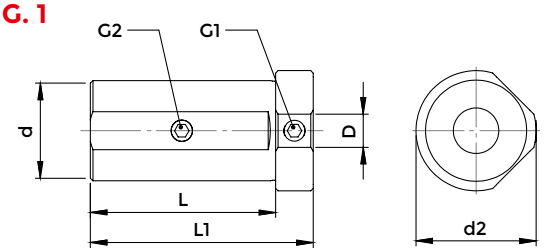
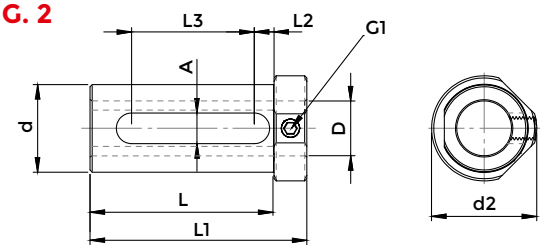


FIG. 2

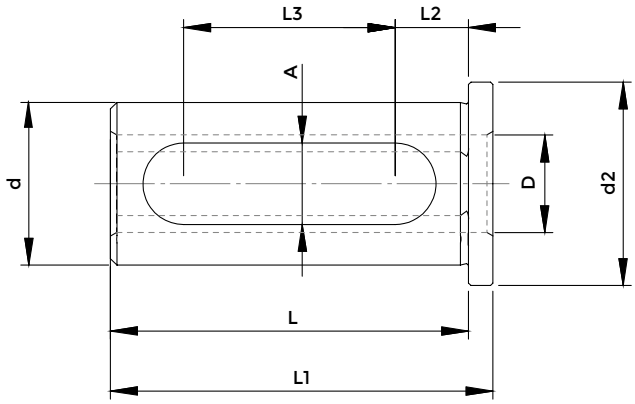


DW.1

COD.	DESCRIPTION	d	D	L	L1	L2	L3	A	d2	FIG.	SCREW 1	SCREW 2
												
8672	DW.1 - 32 x 10	32	10	79	94	-	-	-	40	1	4972	0385
8673	DW.1 - 32 x 12	32	12	79	94		-	-	40	1	4972	0385
8674	DW.1 - 32 x 16	32	16	79	94	-	-	-	40	1	4972	0385
8675	DW.1 - 32 x 20	32	20	79	94	9,5	60	11	40	2	0385	-
8676	DW.1 - 32 x 25	32	25	79	94	9,5	60	11	40	2	0385	-
8916	DW.1 - 40 x 10	40	10	74	89	-	-	-	48	1	0377	4972
8917	DW.1 - 40 x 12	40	12	74	89	-	-	-	48	1	0377	4972
8918	DW.1 - 40 x 16	40	16	74	89	-	-	-	48	1	0377	0060
8919	DW.1 - 40 x 20	40	20	84	99	9	56	14	48	2	4972	-
8920	DW.1 - 40 x 25	40	25	84	99	9	56	14	48	2	4972	-
8921	DW.1 - 40 x 32	40	32	84	99	9	56	14	48	2	0385	-

SLOTTED REDUCTION SLEEVES WITH STOP FOR DOOSAN DAEWOO ETC.





DW.2

COD.	DESCRIPTION	d	D	L	L1	L2	L3	A	d2
8796	DW.2 - 20 x 8	20	8	44	47	9,5	25	11	25
8797	DW.2 - 20 x 10	20	10	44	47	9,5	25	11	25
8798	DW.2 - 20 x 12	20	12	44	47	9,5	25	11	25
8880	DW.2 - 20 x 14	20	14	44	47	9,5	25	11	25
8799	DW.2 - 20 x 16	20	16	44	47	9,5	25	11	25
8557	DW.2 - 25 x 8	25	8	54	57	8,5	33	13	30
8558	DW.2 - 25 x 10	25	10	54	57	8,5	33	13	30
8559	DW.2 - 25 x 12	25	12	54	57	8,5	33	13	30
8560	DW.2 - 25 x 14	25	14	54	57	8,5	33	13	30
8561	DW.2 - 25 x 16	25	16	54	57	8,5	33	13	30
8562	DW.2 - 25 x 18	25	18	54	57	8,5	33	13	30
8563	DW.2 - 25 x 20	25	20	54	57	8,5	33	13	30
8564	DW.2 - 32 x 8	32	8	64	68	8,5	42	13	37
8565	DW.2 - 32 x 10	32	10	64	68	8,5	42	13	37
8566	DW.2 - 32 x 12	32	12	64	68	8,5	42	13	37
8567	DW.2 - 32 x 14	32	14	64	68	8,5	42	13	37
8568	DW.2 - 32 x 16	32	16	64	68	8,5	42	13	37
8569	DW.2 - 32 x 18	32	18	64	68	8,5	42	13	37
8570	DW.2 - 32 x 20	32	20	64	68	8,5	42	13	37
8571	DW.2 - 32 x 25	32	25	64	68	8,5	42	13	37
8835	DW.2 - 40 x 12	40	12	74	79	9	51	14	45
8836	DW.2 - 40 x 14	40	14	74	79	9	51	14	45
8837	DW.2 - 40 x 16	40	16	74	79	9	51	14	45
8838	DW.2 - 40 x 18	40	18	74	79	9	51	14	45
8897	DW.2 - 40 x 20	40	20	74	79	9	51	14	45
8898	DW.2 - 40 x 25	40	25	74	79	9	51	14	45
8899	DW.2 - 40 x 32	40	32	74	79	9	51	14	45

REDUCTION SLEEVES FOR MAZAK ETC.



FIG. 1

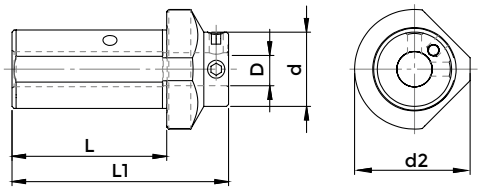
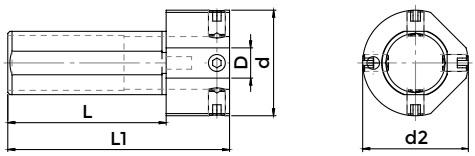


FIG. 2

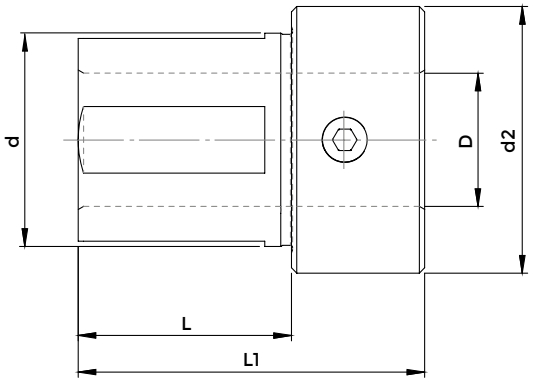


MZ.1

COD.	DESCRIPTION	d	D	L	L1	d2	FIG.	SCREW
8926	MZ.1 - 32 x 8	32	8	60	85	50	1	0371
8927	MZ.1 - 32 x 10	32	10	60	85	50	1	0371
8928	MZ.1 - 32 x 12	32	12	60	85	50	1	0375
8929	MZ.1 - 32 x 16	32	16	60	85	50	1	4971
8930	MZ.1 - 32 x 20	32	20	60	85	50	2	0375
8931	MZ.1 - 32 x 25	32	25	60	85	50	2	0375
5581	MZ.1 - 40 x 8	40	8	75	105	58	1	0371
5582	MZ.1 - 40 x 10	40	10	75	105	58	1	0371
5583	MZ.1 - 40 x 12	40	12	75	105	58	1	0375
5585	MZ.1 - 40 x 16	40	16	75	105	58	1	4971
5587	MZ.1 - 40 x 20	40	20	75	105	58	1	0183
5594	MZ.1 - 40 x 25	40	25	75	105	58	2	0021
5595	MZ.1 - 40 x 32	40	32	75	105	58	2	0021

SHORT REDUCTION SLEEVES FOR MAZAK ETC.





MZ.2

COD.	DESCRIPTION	d	D	L	L1	d2	SCREW
8932	MZ.2 - 32 x 20	32	20	40	65	42	4971
8933	MZ.2 - 32 x 25	32	25	40	65	42	0021
5596	MZ.2 - 40 x 20	40	20	40	65	50	0382
5597	MZ.2 - 40 x 25	40	25	40	65	50	0375
5598	MZ.2 - 40 x 32	40	32	40	65	50	4971

MORSE TAPER REDUCTION SLEEVES FOR MAZAK ETC.

FIG. 1

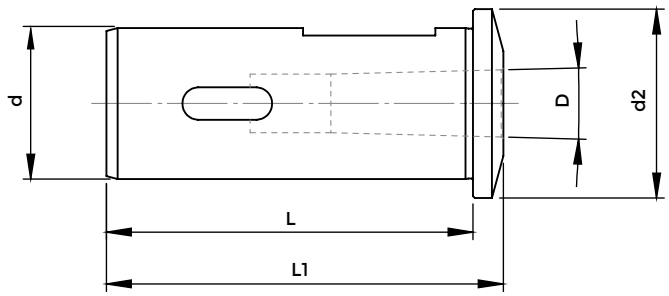
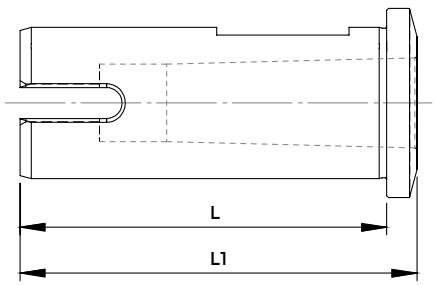


FIG. 2



MZ.3

COD.	DESCRIPTION	d	CM	D	L	L1	d2	FIG.
8983	MZ.3 - 32 x 1	32	1	12,065	54	66	42	2
8984	MZ.3 - 32 x 2	32	2	17,78	58	70	42	2
8985	MZ.3 - 40 x 1	40	1	12,065	97	105	50	1
8986	MZ.3 - 40 x 2	40	2	17,78	97	105	50	1
8987	MZ.3 - 40 x 3	40	3	23,825	97	105	50	2

REDUCTION SLEEVES FOR DMG MORI SEIKI ETC.



FIG. 1

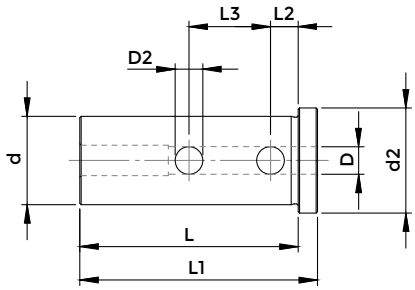
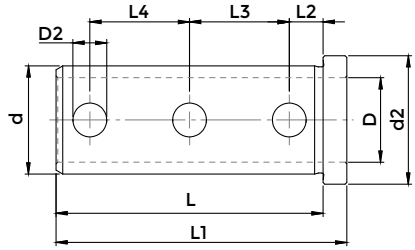


FIG. 2

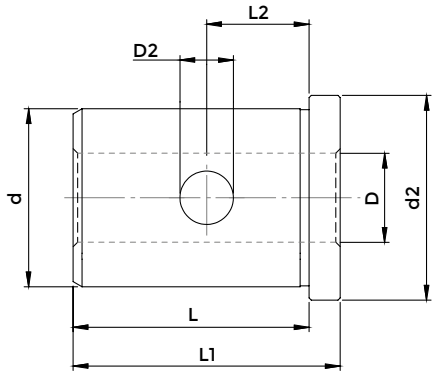


MS.1

COD.	DESCRIPTION	d	D	L	L1	L2	L3	L4	D2	d2	FIG.
7035	MS.1 - 32 x 6	32	6	79	86	10	29,5	-	10	38	1
8941	MS.1 - 32 x 8	32	8	79	86	10	29,5	-	10	38	1
8942	MS.1 - 32 x 10	32	10	79	86	10	29,5	-	10	38	1
8943	MS.1 - 32 x 12	32	12	79	86	10	29,5	29,5	10	38	2
8944	MS.1 - 32 x 16	32	16	79	86	10	29,5	29,5	10	38	2
8945	MS.1 - 32 x 20	32	20	79	86	10	29,5	29,5	10	38	2
8946	MS.1 - 32 x 25	32	25	79	86	10	29,5	29,5	10	38	2
5900	MS.1 - 40 x 8	40	8	89	96	10	33	-	12	46	1
5901	MS.1 - 40 x 10	40	10	89	96	10	33	-	12	46	1
5902	MS.1 - 40 x 12	40	12	89	96	10	33	-	12	46	1
5903	MS.1 - 40 x 16	40	16	89	96	10	33	33	12	46	2
5904	MS.1 - 40 x 20	40	20	89	96	10	33	33	12	46	2
5905	MS.1 - 40 x 25	40	25	89	96	10	33	33	12	46	2
5906	MS.1 - 40 x 32	40	32	89	96	10	33	33	12	46	2

SHORT REDUCTION SLEEVES FOR DMG MORI SEIKI ETC.



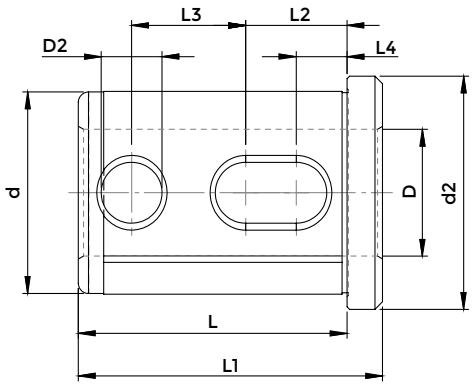


MS.2

COD.	DESCRIPTION	d	D	L	L1	L2	D2	d2
8947	MS.2 - 32 x 16	32	16	53	60	20	12	38
8948	MS.2 - 32 x 20	32	20	53	60	20	12	38
8949	MS.2 - 32 x 25	32	25	53	60	20	12	38
8950	MS.2 - 40 x 16	40	16	53	60	23	12	46
8951	MS.2 - 40 x 20	40	20	53	60	23	12	46
8952	MS.2 - 40 x 25	40	25	53	60	23	12	46
8953	MS.2 - 40 x 32	40	32	53	60	23	12	46

SHORT REDUCTION SLEEVES FOR DMG MORI SEIKI ETC.



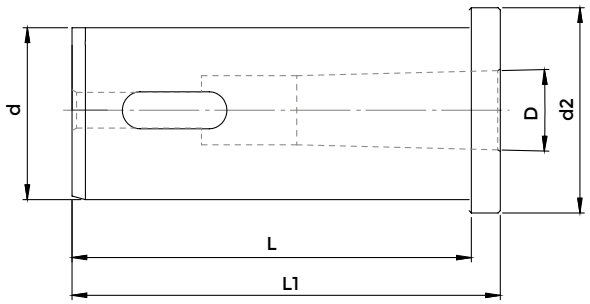


MS.2A

COD.	DESCRIPTION	d	D	L	L1	L2	L3	L4	D2	d2
8922	MS.2A - 40 x 16	40	16	53	60	20	22,5	-	12	46
8923	MS.2A - 40 x 20	40	20	53	60	20	22,5	-	12	46
8924	MS.2A - 40 x 25	40	25	53	60	20	22,5	10	12	46
8925	MS.2A - 40 x 32	40	32	53	60	20	22,5	10	12	46

MORSE TAPER REDUCTION SLEEVES FOR DMG MORI SEIKI ETC.



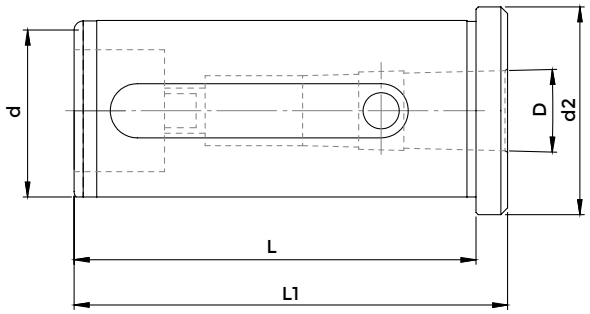


MS.4

COD.	DESCRIPTION	d	CM	D	L	L1	d2
8958	MS.4 - 40 x 1	40	1	12,065	89	96	46
8959	MS.4 - 40 x 2	40	2	17,78	89	96	46
8960	MS.4 - 40 x 3	40	3	23,825	89	108	46
8961	MS.4 - 50 x 4	50	4	31,267	89	135	56

THROUGH COOLANT MORSE TAPER REDUCTION SLEEVES FOR DMG MORI SEIKI ETC



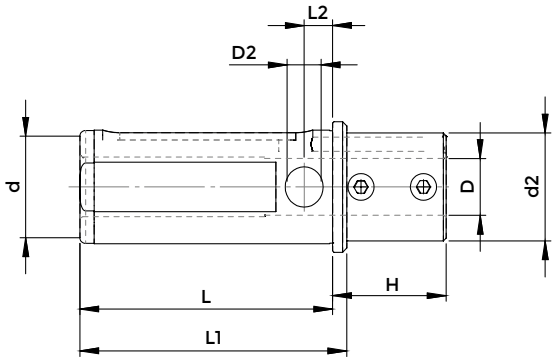


MS.4A

COD.	DESCRIPTION	d	CM	D	L	L1	d2
8868	MS.4A - 32 x 1	32	1	12,065	78	85	40
8869	MS.4A - 32 x 2	32	2	17,78	78	85	40
8870	MS.4A - 40 x 1	40	1	12,065	89	96	46
8871	MS.4A - 40 x 2	40	2	17,78	89	96	46
8872	MS.4A - 40 x 3	40	3	23,825	89	96	46
8873	MS.4A - 40 x 4	40	4	31,267	109	116	46

THROUGH COOLANT EXTENDED REDUCTION SLEEVES FOR DMG MORI SEIKI ETC.



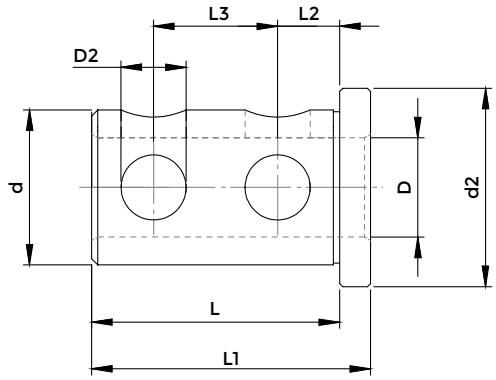


MS.3A

COD.	DESCRIPTION	d	D	L	H	L1	L2	D2	d2	d3	SCREW
8863	MS.3A - 40 x 8	40	8	89	40	129	10	12	46	38	0375
8864	MS.3A - 40 x 10	40	10	89	40	129	10	12	46	38	0375
8865	MS.3A - 40 x 12	40	12	89	40	129	10	12	46	38	0375
8866	MS.3A - 40 x 16	40	16	89	40	129	10	12	46	38	4971
8867	MS.3A - 40 x 20	40	20	89	40	129	10	12	46	38	0021

REDUCTION SLEEVES FOR NAKAMURA TOME ETC.





NT.1

COD.	DESCRIPTION	d	D	L	L1	L2	L3	D2	d2
8876	NT.1 - 25 x 10	25	10	40	45	10	20	10,5	32
8877	NT.1 - 25 x 12	25	12	40	45	10	20	10,5	32
8878	NT.1 - 25 x 16	25	16	40	45	10	20	10,5	32
8879	NT.1 - 25 x 20	25	20	40	45	10	20	10,5	32

REDUCTION SLEEVES FOR OKUMA LT 10M / LT 200M ETC.



FIG. 1

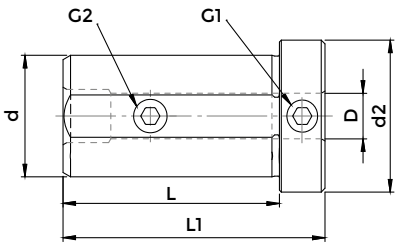
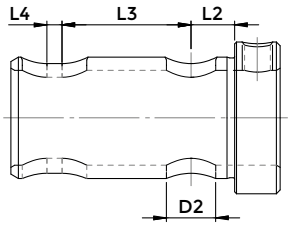


FIG. 2



OK.1

COD.	DESCRIPTION	d	D	L	L1	L2	L3	L4	D2	d2	FIG.	SCREW 1	SCREW 2
8900	OK.1 - 32 x 8	32	8	57	69	-	-	-	-	40	1	0382	4971
8901	OK.1 - 32 x 10	32	10	57	69	-	-	-	-	40	1	0382	4971
8902	OK.1 - 32 x 12	32	12	57	69	-	-	-	-	40	1	0375	0021
8904	OK.1 - 32 x 16	32	16	59	71	11,5	35	4	13	40	2	0375	-
8906	OK.1 - 32 x 20	32	20	59	71	11,5	35	4	13	40	2	4971	-
8907	OK.1 - 32 x 25	32	25	59	71	11,5	35	4	13	40	2	0021	-

REDUCTION SLEEVES FOR OKUMA LT 15M / LT 300M ETC.



FIG. 1

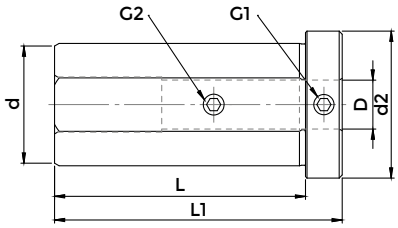
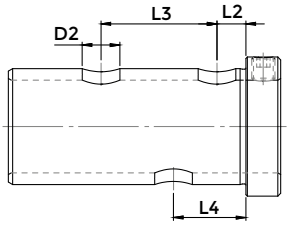


FIG. 2



OK.2

COD.	DESCRIPTION	d	D	L	L1	L2	L3	L4	D2	d2	FIG.	SCREW 1	SCREW 2
8963	OK.2 - 40 x 12	40	12	82	94	-	-	-	-	48	1	0382	0375
8964	OK.2 - 40 x 16	40	16	82	94	-	-	-	-	48	1	0382	4971
8965	OK.2 - 40 x 20	40	20	82	94	-	-	-	-	48	1	0375	0021
8966	OK.2 - 40 x 25	40	25	82	94	10	40	25	13	48	2	0375	-
8967	OK.2 - 40 x 32	40	32	82	94	10	40	25	13	48	2	0021	-

REDUCTION SLEEVES FOR OKUMA LB 15 II ETC.



FIG. 1

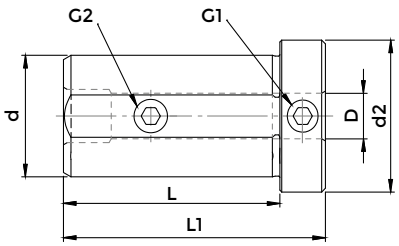
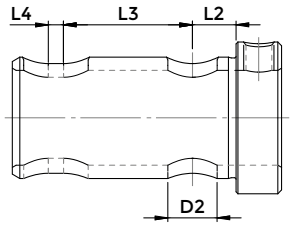


FIG. 2



OK.4

COD.	DESCRIPTION	d	D	L	L1	L2	L3	L4	D2	D3	d2	FIG.	SCREW 1	SCREW 2
8971	OK.4 - 40 x 10	40	10	80	95	-	-	-	-	-	48	1	0183	0375
8972	OK.4 - 40 x 12	40	12	80	95	-	-	-	-	-	48	1	0377	4972
8973	OK.4 - 40 x 16	40	16	80	95	-	-	-	-	-	48	1	0377	0060
8974	OK.4 - 40 x 20	40	20	80	95	-	-	-	-	-	48	1	4972	0385
8975	OK.4 - 40 x 25	40	25	68	80	11,5	42	15	16	13	48	2	4971	-
8976	OK.4 - 40 x 32	40	32	68	80	11,5	42	15	16	13	48	2	0021	-

REDUCTION SLEEVES FOR OKUMA MACTURN 250 / MULTUS ETC.



FIG. 1

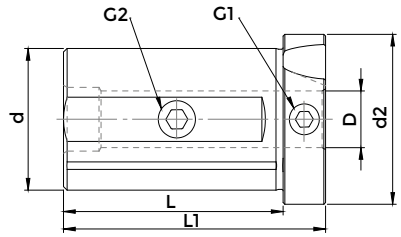
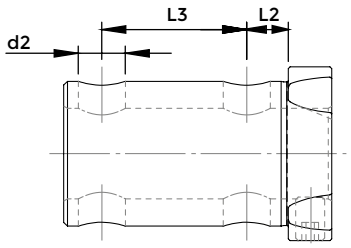


FIG. 2

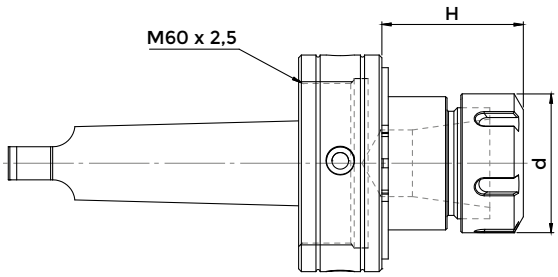


OK.7

COD.	DESCRIPTION	d	D	L	L1	L2	L3	D2	d2	FIG.	SCREW 1	SCREW 2
8910	OK.7 - 40 x 10	40	10	62	74	-	-	-	48	1	0382	0375
8911	OK.7 - 40 x 12	40	12	62	74	-	-	-	48	1	0382	0375
8912	OK.7 - 40 x 16	40	16	62	74	-	-	-	48	1	0382	0060
8913	OK.7 - 40 x 20	40	20	62	74	-	-	-	48	1	0375	0060
8914	OK.7 - 40 x 25	40	25	62	74	11,5	40	13	48	2	0375	-
8915	OK.7 - 40 x 32	40	32	62	74	11,5	40	13	48	2	0021	-

FAMUP RAG TYPE SHANK ER COLLET CHUCKS





RAG

COD.	DESCRIPTION	ER	H	d	NUT 1	NUT 2	WRENCH	COLLET
4277	CM4 FAMUP RAG - ER 32	ER 32 2÷25	52	50	2420	4996	3670	0988
4280	CM4 FAMUP RAG - ER 40	ER 40 3÷32	55	63	2420	4997	3671	0821

EQUIPMENT CASES WITH REDUCED SET OF ER COLLETS



COD.	DESCRIPTION	CHUCK	CASE	WRENCH	COLLET
7531	KIT Rid CM 4 RAG - ER 32	4277	7023	3670	0988: Ø 4 - 6 - 8 10 -12 -16 - 20
7721	KIT Rid CM 4 RAG - ER 40	4280	7024	3671	0821: Ø 4 - 6 - 8 10 -12 -16 - 20 -25

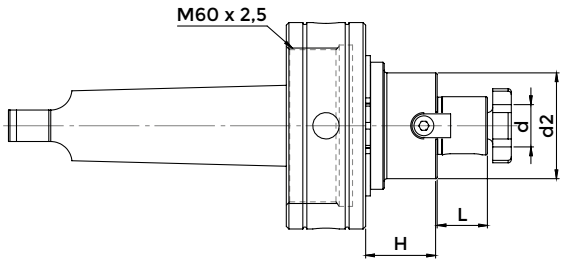
EQUIPMENT CASES WITH COMPLETE SET OF ER COLLETS



COD.	DESCRIPTION	CHUCK	CASE	WRENCH	COLLET
7515	KIT CM 4 RAG - ER 32	4277	7023	3670	0988: Ø 3 ÷ 20 (18 Pinze)
7722	KIT CM 4 RAG - ER 40	4280	7024	3671	0821: Ø 4 ÷ 26 (23 Pinze)

FAMUP RAG TYPE SHANK SHELL MILL HOLDERS



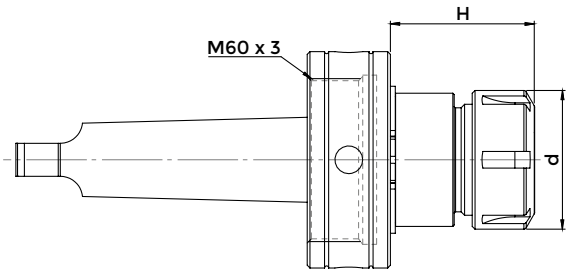


RAG

COD.	DESCRIPTION	d	H	L	d2	NUT	CROSS SCREW	KEY	WRENCH
2414	CM 4 RAG - D. 16 FISSO	16	27	17	32	2420	4985	0041	4562
2415	CM 4 RAG - D. 22 FISSO	22	27	19	40	2420	4986	0044	4563
2416	CM 4 RAG - D. 27 FISSO	27	27	21	48	2420	4987	0045	4564
2417	CM 4 RAG - D. 32 FISSO	32	27	24	58	2420	4988	0047	4565

BIMAK TYPE SHANK ER COLLET CHUCKS





BIMAK

COD.	DESCRIPTION	ER	H	d	NUT 1	NUT 2	WRENCH	COLLET
4281	CM 4 BIMAK - ER 32	ER 32 2÷25	52	50	2423	4996	3670	0988
4354	CM 4 BIMAK - ER 40	ER 40 3÷32	55	63	2423	4997	3671	0821

EQUIPMENT CASES WITH REDUCED SET OF ER COLLETS



COD.	DESCRIPTION	CHUCK	CASE	WRENCH	COLLET
7723	KIT Rid CM 4 BIMAK-ER 32	4281	7023	3670	0988: Ø 4 - 6 - 8 10 -12 -16 - 20
7724	KIT Rid CM 4 BIMAK-ER 40	4354	7024	3671	0821: Ø 4 - 6 - 8 10 -12 -16 - 20 -25

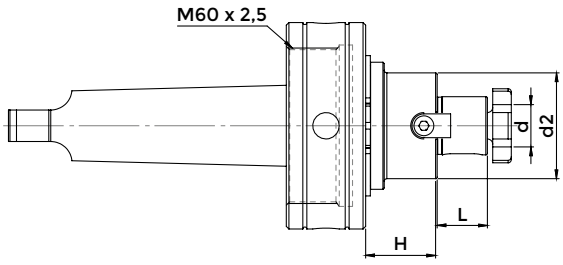
EQUIPMENT CASES WITH COMPLETE SET OF ER COLLETS



COD.	DESCRIPTION	CHUCK	CASE	WRENCH	COLLET
7725	KIT CM 4 BIMAK-ER 32	4281	7023	3670	0988: Ø 3 ÷ 20 (18 Pinze)
7726	KIT CM 4 BIMAK-ER 40	4354	7024	3671	0821: Ø 4 ÷ 26 (23 Pinze)

BIMAK TYPE SHANK SHELL MILL HOLDERS



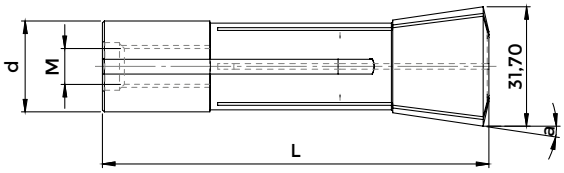


BIMAK

COD.	DESCRIPTION	d	H	L	d2	NUT	CROSS SCREW	KEY	WRENCH
2260	CM 4 BIMAK - D. 16 FISSO	16	27	17	32	2423	4985	0041	4562
2261	CM 4 BIMAK - D. 22 FISSO	22	27	19	40	2423	4986	0044	4563
2262	CM 4 BIMAK - D. 27 FISSO	27	27	21	48	2423	4987	0045	4564
2263	CM 4 BIMAK - D. 32 FISSO	32	27	24	58	2423	4988	0047	4565

BRIDGEPORT R8 COLLET



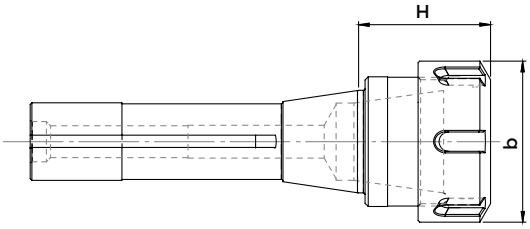


BRIDGEPORT - R8

COD.	DESCRIPTION	ER	d	d2	L	a	M	EINHEITS
0716	PINZA R8	2,0 ÷ 22	24,12	32	106	8° 35'	7/16 - 20"	369E

ER COLLET CHUCKS





BRIDGEPORT - R8

COD.	DESCRIPTION	ER	H	d	NUT	WRENCH	COLLET
2973	PORTAPINZA R8 - ER 32	ER 32 2÷25	40	50	4996	3670	0988
2974	PORTAPINZA R8 - ER 40	ER 40 3÷32	73	63	4997	3671	0821

EQUIPMENT CASES WITH REDUCED SET OF ER COLLETS



COD.	DESCRIPTION	CHUCK	CASE	WRENCH	COLLET
7668	KIT Rid R 8 ER 32	2973	7023	3670	0988: Ø 4 - 6 - 8 10 -12 -16 - 20

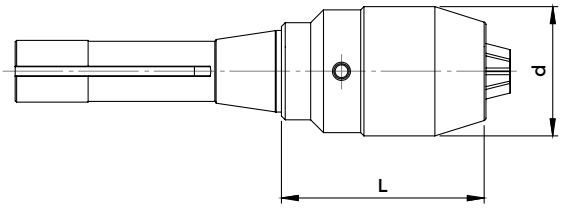
EQUIPMENT CASES WITH COMPLETE SET OF ER COLLETS



COD.	DESCRIPTION	CHUCK	CASE	WRENCH	COLLET
7669	KIT R 8 ER 32	2973	7023	3670	0988: Ø 3 ÷ 20 (18 Pinze)

DRILL CHUCKS - RIGHT SPIN





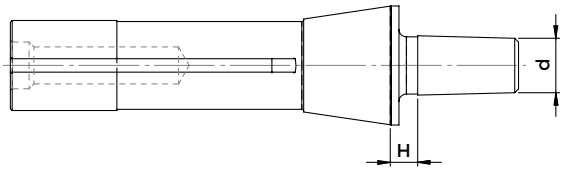
BRIDGEPORT - R8

COD.	DESCRIPTION	Ø PUNTA	d	H	WRENCH
					
3000	R 8 - DC 13	0,5 ÷ 13	50	81	2370

Suitable wrench included in delivery

SHANKS FOR DRILL CHUCKS DIN 238 / ISO 239 TYPE



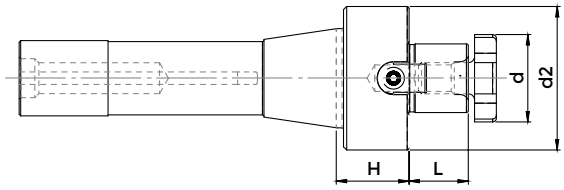


BRIDGEPORT - R8

COD.	DESCRIPTION	d	H	DIN 238
1089	R 8 - B 16	15,733	10	B 16

FACE MILL HOLDERS



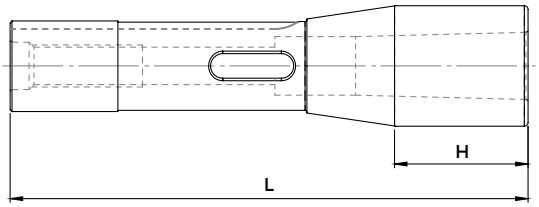


BRIDGEPORT - R8

COD.	DESCRIPTION	d	H	L	d2	CROSS SCREW	WRENCH
2978	PORTAFRESA R8 - D. 16	16	19	17	38	4985	4562
2979	PORTAFRESA R8 - D. 22	22	23	19	46	4986	4563
2980	PORTAFRESA R8 - D. 27	27	23	21	48	4987	4564
2981	PORTAFRESA R8 - D. 32	32	24	24	58	4988	4565

ADAPTERS TO MORSE TAPER



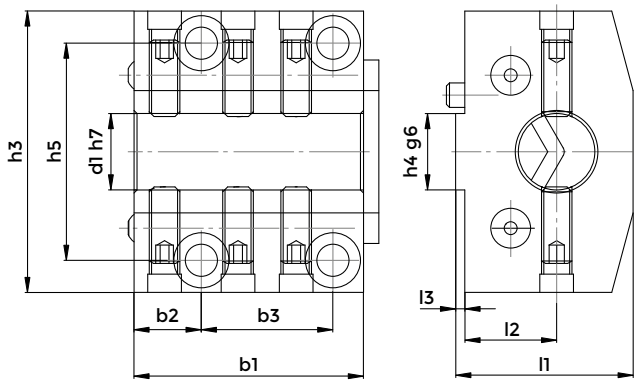


BRIDGEPORT - R8

COD.	DESCRIPTION	CM	L	H
2975	RIDUZIONE R8 - CM 1 PUNTE	1	114	22
2976	RIDUZIONE R8 - CM 2 PUNTE	2	127	35
2977	RIDUZIONE R8 - CM 3 PUNTE	3	153	48
2993	RIDUZIONE R8 - CM 4 PUNTE	4	240	61

LONGITUDINAL MOUNTING TOOLHOLDERS BORING BAR FOR TURRETS





DIN 69880 - PU1

COD.	D	h3	h4	h5	b1	b2	b3	l1	l2	l3
PU1-20-25	25	74	20	57	60	17.5	34	48	25	3
PU1-20-32	32	74	20	57	60	17.5	34	48	25	3
PU1-20-40	40	74	20	57	60	17.5	34	60	32	3
PU1-25-20	20	92	25	71	75	22	43	58	30	3
PU1-25-25	25	92	25	71	75	22	43	58	30	3
PU1-25-32	32	92	25	71	75	22	43	58	30	3
PU1-25-40	40	92	25	71	75	22	43	58	30	3
PU1-25-50	50	92	25	71	75	22	43	73	38	3
PU1-32-25	25	115	32	90	95	26	57	73	35	3
PU1-32-32	32	115	32	90	95	26	57	73	35	3
PU1-32-40	40	115	32	90	95	26	57	73	35	3
PU1-32-50	50	115	32	90	95	26	57	73	35	3
PU1-32-60	60	115	32	90	95	26	57	83	40	3

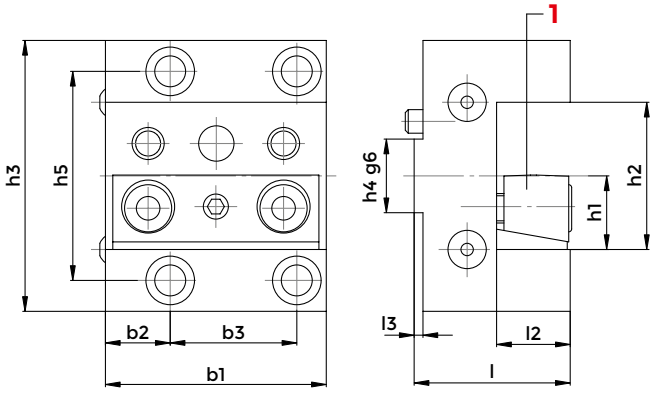
ACCESSORIES



p. 703

LONGITUDINAL MOUNTING SQUARE TOOL HOLDERS FOR TURRETS



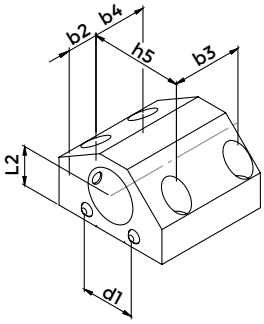


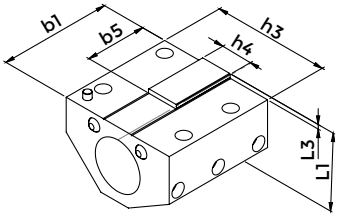
DIN 69880 - PU2

COD.	h1	h2	h3	h4	h5	b1	b2	b3	l1	L2	l3	1 LOCKING WEDGE
PU2-20-20	20	40	74	20	57	60	17.5	34	43	20	3	832-007160
PU2-25-25	25	50	92	25	71	75	22	43	53	25	3	832-007010
PU2-32-32	32	64	115	32	90	95	26	57	63	32	3	832-007170

TOOLHOLDERS FOR BIGLIA B 1000 LATHES



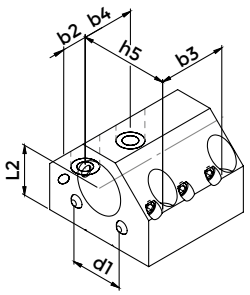


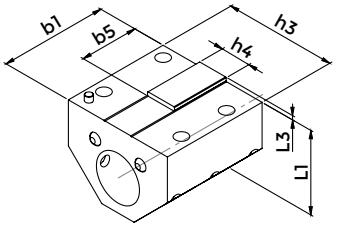


COD.	DESCRIPTION	d	h3	h4	h5	b1	b2	b3	b4	b5	L1	L2	L3
5799	BIGLIA 10.57.20.01	32	92	25	72	88	23	55	42	48	61,5	30	3,5
5800	BIGLIA 10.57.20.02	40	92	25	72	88	23	55	42	48	61,5	30	3,5

TOOLHOLDERS FOR BIGLIA B 56 AND B500 LATHES



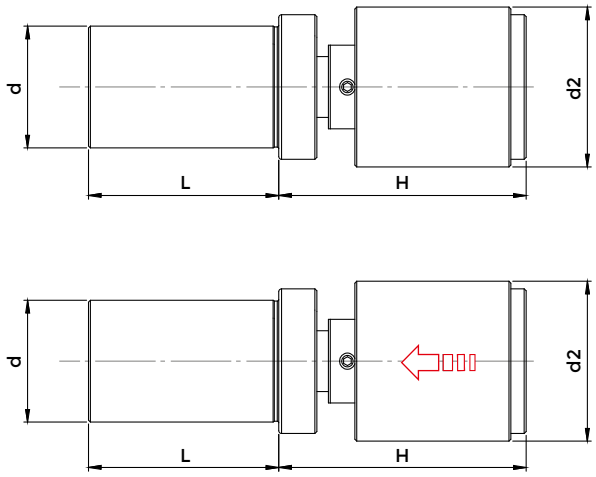




COD.	DESCRIPTION	d	h3	h4	h5	b1	b2	b3	b4	b5	L1	L2	L3
5830	BIGLIA 10.57.20.14	32	92	25	72	88	23	55	42	48	71,5	40	3,5
5831	BIGLIA 10.57.20.16	40	92	25	72	88	23	55	42	48	71,5	40	3,5

STRAIGHT SHANK ROTARY BAR-STOP





ADJUSTABLE

COD.	d	L	H	d2
1520	16	32	36 - 62	20
1447	20	50	62 -100	34
1448	22	50	62 -100	34
1449	25	50	62 -100	34
1459	25	50	62 -100	42
1460	25	50	62 -100	56
1450	25,4	50	62 -100	34
1730	30	50	62 -100	42
1735	30	50	62 -100	56
1732	32	50	62 -100	42
1773	32	50	62 -100	56
1736	40	70	62 -100	42
1797	40	70	62 -100	56

DAMPED

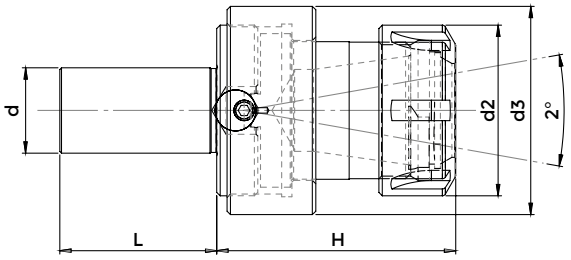
COD.	d	L	H	d2
2629	20	35	62 - 90	34
2630	20	50	62 -100	34
2635	25	50	62 -100	34
2421	25	50	62 -100	42
2447	25	50	62 -100	56
1537	30	50	62 -100	42
1552	30	50	62 -100	56
1560	31,75	50	62 -100	42
1025	32	50	62 -100	42
1063	32	50	62 -100	56
1061	40	70	62 -100	42
1073	40	70	62 -100	56

CHARACTERISTICS:

unlike normal rotary bar stop, inside damped model, besides radial bearing and thrust bearing, there is a set of spring wa-shers in order to absorb well any bar shoves.

STRAIGHT SHANK FLOATING REAMER HOLDERS WITH ER COLLET





DIN 1835 A

COD.	DESCRIPTION	ER	d	d2	d3	H	L	NUT	WRENCH	COLLET
1152	d 16 RM - ER 16	ER 16 1÷12	16	32	40	50	46	4993	3698	0364
1173	d 16 RM - ER 20	ER 20 1÷15	16	35	40	55	46	4994	3699	0787
1176	d 19,05 RM - ER 16	ER 16 1÷12	19,05	32	40	50	46	4993	3698	0364
1340	d 19,05 RM - ER 20	ER 20 1÷15	19,05	35	40	55	46	4994	3699	0787
1227	d 20 RM - ER 16	ER 16 1÷12	20	32	40	50	46	4993	3698	0364
1573	d 20 RM - ER 20	ER 20 1÷15	20	35	40	55	46	4994	3699	0787
1237	d 20 RM - ER 25	ER 25 1÷20	20	42	61	58	46	4995	3669	0996
1241	d 25 RM - ER 20	ER 20 1÷15	25	35	40	55	46	4994	3699	0787
1242	d 25 RM - ER 25	ER 25 1÷20	25	42	61	58	46	4995	3669	0996
1341	d 25 RM - ER 32	ER 32 2÷25	25	50	61	70	46	4996	3670	0988
1342	d 25,4 RM - ER 32	ER 32 2÷25	25,4	50	61	70	46	4996	3670	0988
1895	d 32 RM - ER 32	ER 32 2÷25	32	50	61	70	50	4996	3670	0988

ACCESSORIES

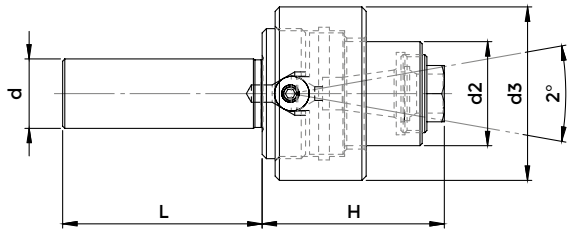

p. 633


p. 615


p. 636

STRAIGHT SHANK FLOATING REAMER HOLDERS WITH ER COLLET





DIN 1835 A

COD.	DESCRIPTION	ER	d	d2	d3	H	L	NUT	WRENCH	COLLET
1141	d 16 RM - ER 11	ER 11 1÷ 8	16	24	40	42	46	2601	3169	5573
1213	d 20 RM - ER 11	ER 11 1÷ 8	20	24	40	42	46	2601	3169	5573

ACCESSORIES

p. 635



p. 615

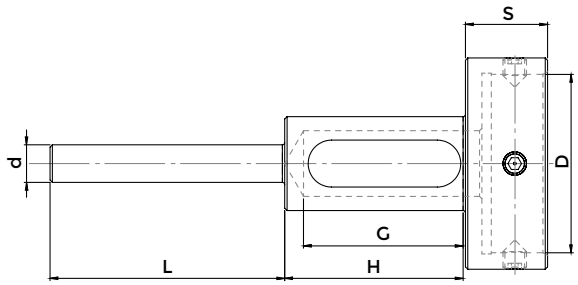


p. 635



FIXED THREADING DIE HOLDERS



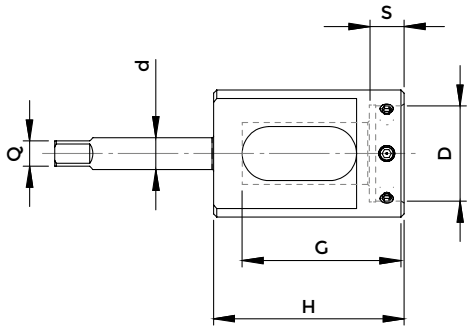


FRONT FIXING - LATERAL FIXING

COD.	DESCRIPTION	D	S	d	H	L	G
1093	P/FILIERA FISSO con bloccaggio universale - D.16x5	16	5	8	40	40	34
1075	P/FILIERA FISSO con bloccaggio universale - D.20x5	20	5	8	43	45	40
1095	P/FILIERA FISSO con bloccaggio universale - D.20x7	20	7	8	43	45	38
1103	P/FILIERA FISSO con bloccaggio universale - D.25x9	25	9	8	50	45	45
1105	P/FILIERA FISSO con bloccaggio universale - D.30x11	30	11	8	50	45	45
1125	P/FILIERA FISSO con bloccaggio universale - D.38x10	38	10	8	56	50	51
1107	P/FILIERA FISSO con bloccaggio universale - D.38x14	38	14	8	56	50	52

FIXED THREADING DIE HOLDERS

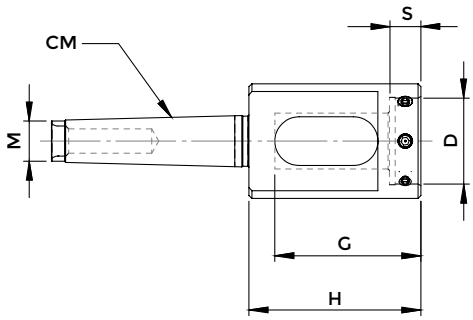




OVERSIZE

COD.	DESCRIPTION	D	S	d	Q	H	G
2540	P/FILIERA MAGGIORATO - D.20x7	20	7	9	7	60	49
2536	P/FILIERA MAGGIORATO - D.25x9	25	9	9	7	60	51
2537	P/FILIERA MAGGIORATO - D.30x11	30	11	10	8	60	51
2538	P/FILIERA MAGGIORATO - D.38x10	38	10	10	8	60	54
2544	P/FILIERA MAGGIORATO - D.38x14	38	14	12	9	60	54
2539	P/FILIERA MAGGIORATO - D.45x14	45	14	12	9	66	59
2558	P/FILIERA MAGGIORATO - D.45x18	45	18	14	11	66	59





MORSE TAPER SHANK

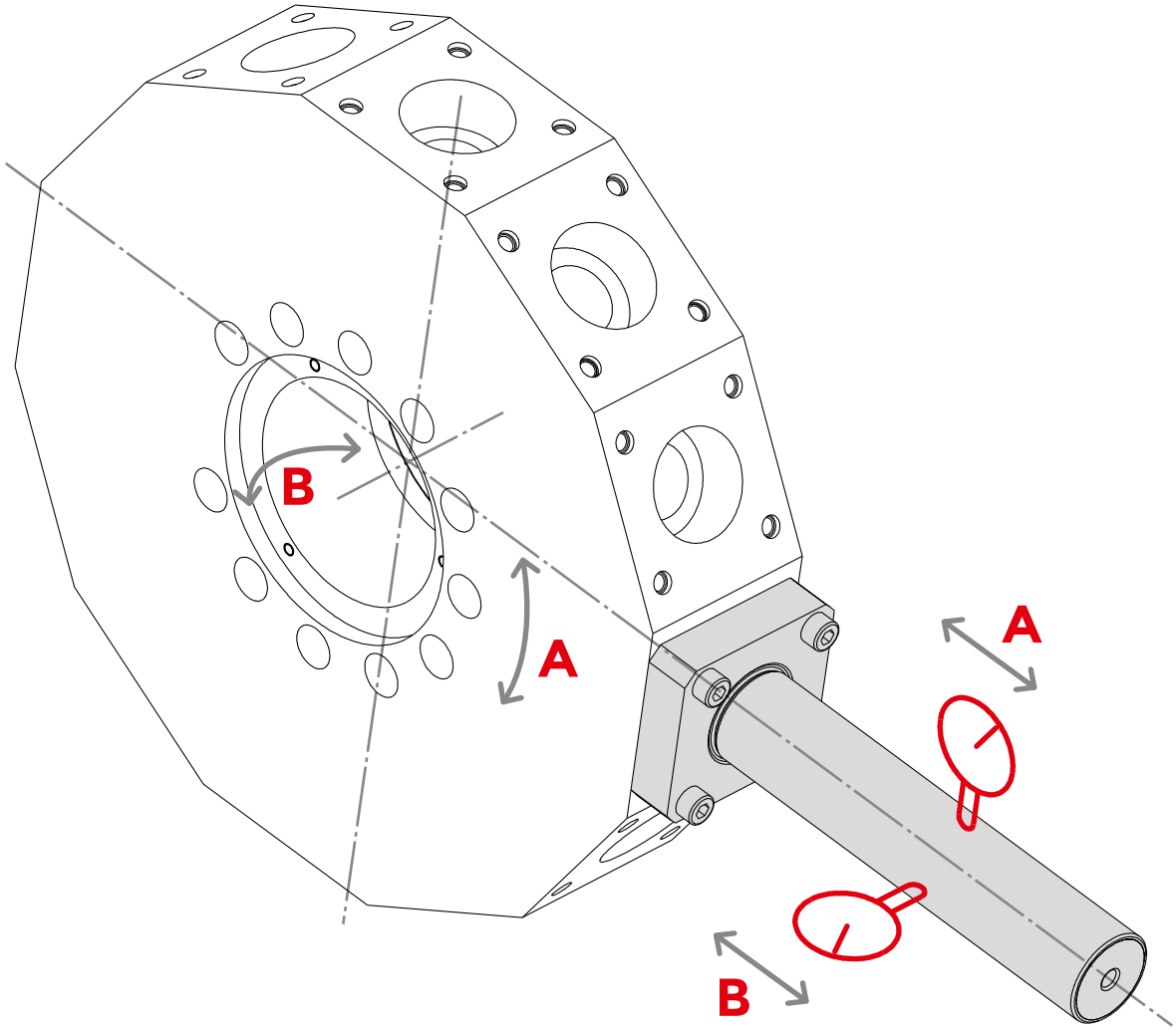
COD.	DESCRIPTION	D	S	CM	M	H	G
2727	P/FILIERA con attacco CM.2 A - D.16x5	16	5	2	M 10	60	51
2728	P/FILIERA con attacco CM.2 A - D.20x7	20	7	2	M 10	60	49
2729	P/FILIERA con attacco CM.2 A - D.20x7	25	9	2	M 10	60	51
2731	P/FILIERA con attacco CM.2 A - D.30x11	30	11	2	M 10	60	51
2735	P/FILIERA con attacco CM.2 A - D.38x10	38	10	2	M 10	60	54
2767	P/FILIERA con attacco CM.2 A - D.38x14	38	14	2	M 10	60	54
2776	P/FILIERA con attacco CM.2 A - D.45x14	45	14	2	M 10	66	59
2786	P/FILIERA con attacco CM.2 A - D.45x18	45	18	2	M 10	66	59

READY, ALWAYS.



CONTROL PINS

CONTROL PINS



- Control pin for CNC lathes turret with test certificate included
- Radial run-out, shank precision, contact face and control cylinder within 0,003 micron
- Application: after having set it up in any turret station like a normal tool holder, you can check its orthogonality by moving the dial indicator along the X axis of the machine

TECHNICAL FEATURES

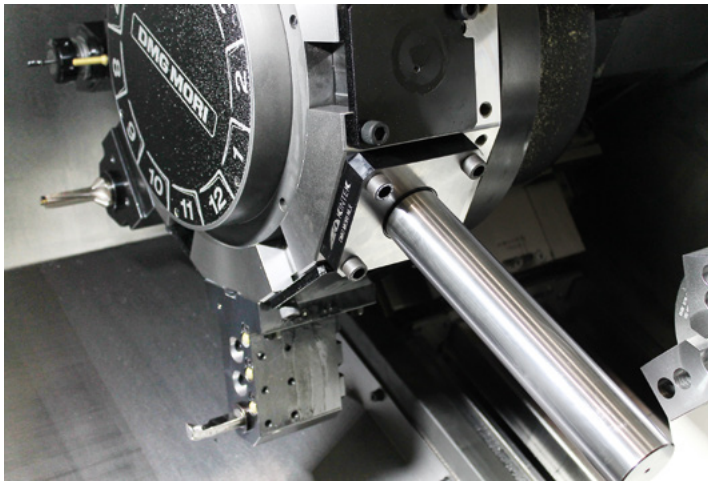
CONE TOLERANCE:
According to the class AT3.

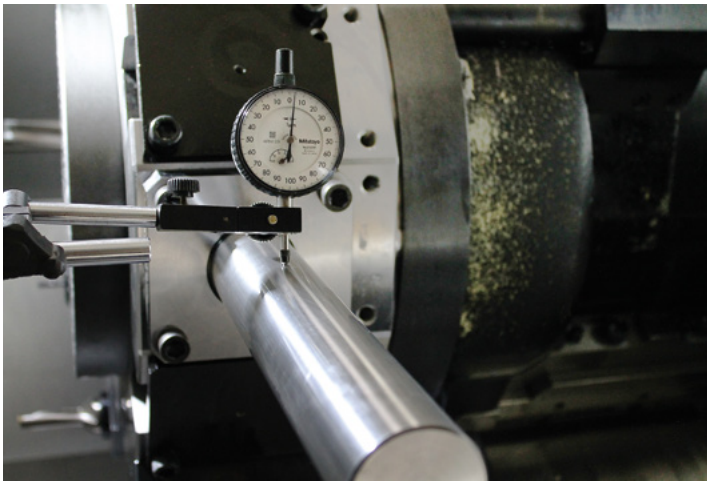
PIN TOLERANCE:

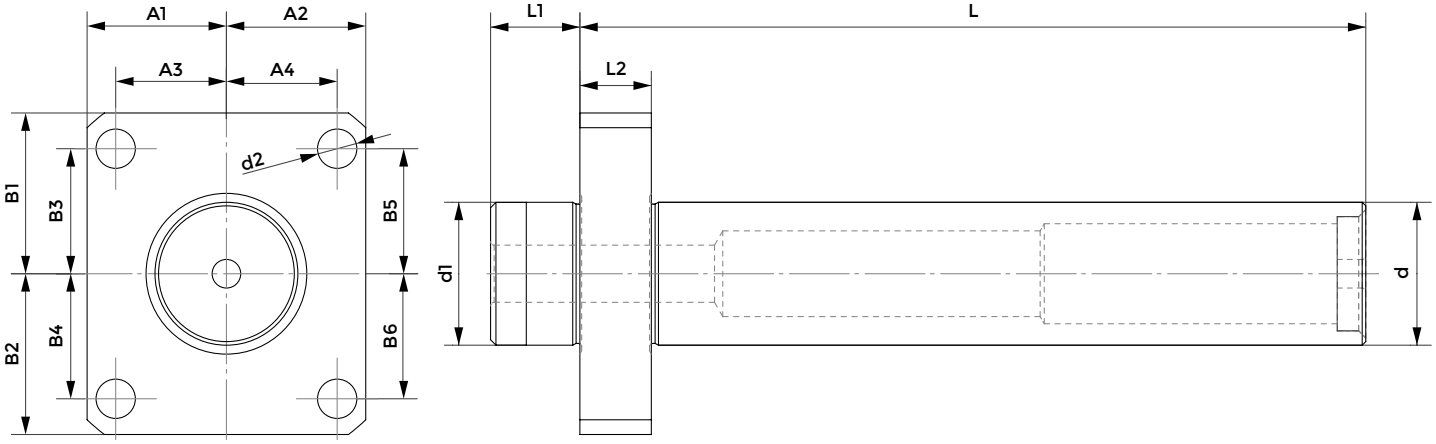
DIAMETER	RUNOUT ACCURACY	CILINDRICITY
+/- 0.05	0.005	0.003

CONSTRUCTIVE FEATURES:
- Manufactured with casehardening steel
- Casehardened with depth 0,6 - 0,8 mm
- Hardened - Tempered - Black oxide
- Hardness HRC 58, Strenght 800-1000 N/mm^2
- External grinding finish
- Tested 100% with vertified measuring instruments

CONTROL PINS







DGM MORI CTX310ECO-BMT / NZ1500 / NZ2000

COD.	d	L	d1	d2	L1	L2	A1	A2	A3	A4	B1	B2	B3	B4	B5	B6
137-00193	40	220	40	11	25	20	39	39	31	31	45	45	35	35	35	35

DGM MORI NLX1500-NLX2000 / NLX2500-NLX3000 / NL2000 (S)MC-2500 (S)MC / NL3000MC (12 STATIONS)

COD.	d	L	d1	d2	L1	L2	A1	A2	A3	A4	B1	B2	B3	B4	B5	B6
137-00194	50	300	60	13	30	25	54	54	42	42	59	59	47	47	47	47

Supplied in suitcase with test certificate

OKUMA LB2000 EX (M, MY) / LB2500 EX (M) / LB3000 EX (M, MY) / LB3000 EX (MW, MYW)

COD.	d	L	d1	d2	L1	L2	A1	A2	A3	A4	B1	B2	B3	B4	B5	B6
137-00195	50	300	60	13	30	25	47,5	47,5	36,5	36,5	50	50	26	39	39	26

OKUMA LB4000 EX (M, MY)

COD.	d	L	d1	d2	L1	L2	A1	A2	A3	A4	B1	B2	B3	B4	B5	B6
137-00196	50	300	60	13	30	25	50	50	39	39	55	55	40	40	40	40

DOOSAN LYNX 220LM

COD.	d	L	d1	d2	L1	L2	A1	A2	A3	A4	B1	B2	B3	B4	B5	B6
137-00197	40	220	45	9	25	20	37,5	37,5	29	29	40	40	29	29	29	29

DOOSAN PUMA230-240M-MS-280LM-1500-2000-2500M/MS/S/SY2100 SERIE-TT1500-TT1800MS/SY TL2000-2500LM-MX1600/2100TS / LYNX 300M

COD.	d	L	d1	d2	L1	L2	A1	A2	A3	A4	B1	B2	B3	B4	B5	B6
137-00198	40	220	55	11	30	20	42,5	42,5	32	32	50	50	32	32	32	32

DOOSAN PUMA300M/MS-V400M-TT2000SY-TT2500SY / TT2500MS-2600/3100 SERIE MX2000ST-MX2500T/ST/LST-VT450/TM / INVERTURN 3000M

COD.	d	L	d1	d2	L1	L2	A1	A2	A3	A4	B1	B2	B3	B4	B5	B6
137-00199	50	300	65	13	30	25	47,5	47,5	36,5	36,5	55	55	35	35	35	35

DOOSAN PUMA400-480M/LM/XLM-VT 750M/TM

COD.	d	L	d1	d2	L1	L2	A1	A2	A3	A4	B1	B2	B3	B4	B5	B6
137-00200	50	300	75	13	30	25	56	56	45	45	57,5	57,5	45	45	45	45

MAZAK QTS200M

COD.	d	L	d1	d2	L1	L2	A1	A2	A3	A4	B1	B2	B3	B4	B5	B6
137-00201	40	225	68	9	25	25	42	42	34	34	55	75	45	65	45	65

MAZAK QTS300M

COD.	d	L	d1	d2	L1	L2	A1	A2	A3	A4	B1	B2	B3	B4	B5	B6
137-00202	50	325	80	11	27	25	50	50	36	36	74,5	100	60	85	60	85

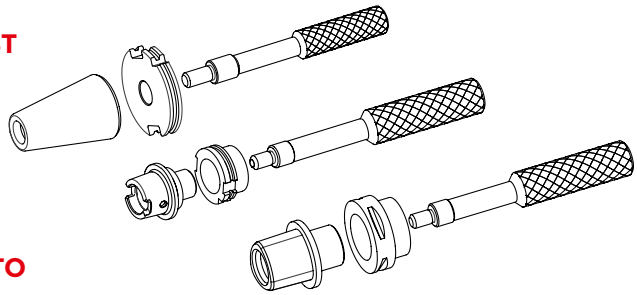
BIGLIA B301/445/470/501(Y-S)/510/545/550/565/650/658/1200/446/465/745/765-B750/1250 16 ST BV210/315

COD.	d	L	d1	d2	L1	L2	A1	A2	A3	A4	B1	B2	B3	B4	B5	B6
137-00209	40	220	55	11	30	20	42	42	31,5	31,5	45	45	32,5	32,5	32,5	32,5

Supplied in suitcase with test certificate

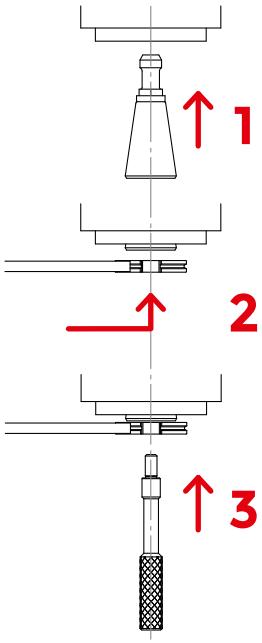
POSITIONING CONTROL OF THE TOOL CHANGER ARM





COD.	CONE
KIT.PRUEFD-TC40	TC40
KIT.PRUEFD-TC50	TC50
KIT.PRUEFD-BT30	BT30
KIT.PRUEFD-BT40	BT40
KIT.PRUEFD-BT50	BT50
KIT.PRUEFD-HSK40	HSK40A
KIT.PRUEFD-HSK63	HSK63A
KIT.PRUEFD-H100	HSK100A
KIT.PRUEFD-C4	C40
KIT.PRUEFD-C5	C50
KIT.PRUEFD-C6	C63
KIT.PRUEFD-C8	C80

1. After assembling the usual pull stud, insert the cone into the spindle manually
2. Set up the flange into the tool changer arm and go closer to the spindle
3. After positioning, try to insert the double-diameter control pin between the two pieces. Adjust the arm accordingly until you get the perfect coaxiality so that the control bar enters the flange and the cone holes with no interference



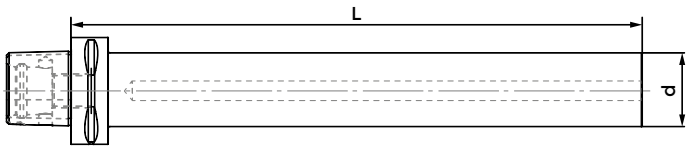
KIT CONTROL PIN+POSITIONING CONTROL OF THE TOOL CHANGER ARM



COD.	CONE	PIN
KIT-TC40-CP-PR	TC40	TC40H300D40BC
KIT-BT40-CP-PR	BT40	BT40H300D40BC
KIT-HSK63-CP-PR	HSK63	HSK63AH346D40BC
KIT-C63-CP-PR	C63	C63H346D40BC

CONTROL PINS



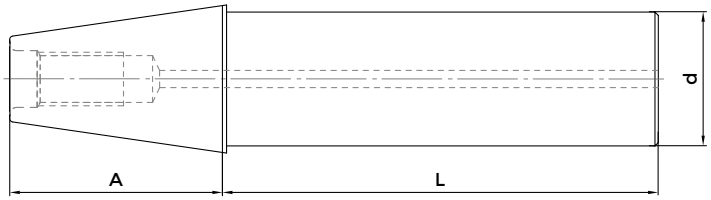


DIN26623-1

COD.	CAPTO	d	L
C40H180D25BC	C40	25	180
C40H300D35BC	C40	35	300
C50H180D35BC	C50	35	180
C50H300D35BC	C50	35	300
C63H180D40BC	C63	40	180
C63H346D40BC	C63	40	346
C80H346D40BC	C80	40	346

Supplied in suitcase with test certificate





DIN69871A - DIN2080 - MAS403BT

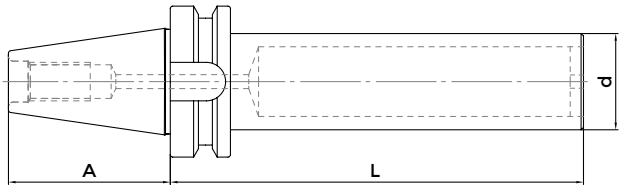
COD.	DESCRIPTION	ISO	d	L	A
217-71506	TC30/BT30H200D30BC	30	30	200	48,4
217-71515	BT40H200D40BC	40	40	200	65,4
217-71507	BT40H300D40BC	40	40	300	65,4
217-71228	TC40H200D40BC	40	40	200	68,4
217-71201	TC40H300D40BC	40	40	300	68,4
217-71224	TC45H300D50	45	45	300	82,7
217-71230	TC50BT50H200D50BC	50	50	200	101,75
217-71202	TC50/BT50H350D50BC	50	50	350	101,75
217-71209	TC60/BT60H300D63BC	60	63	300	161,8

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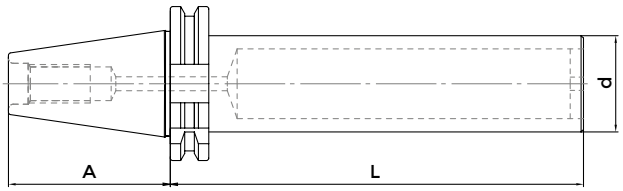
CONTROL PINS



BT



TC

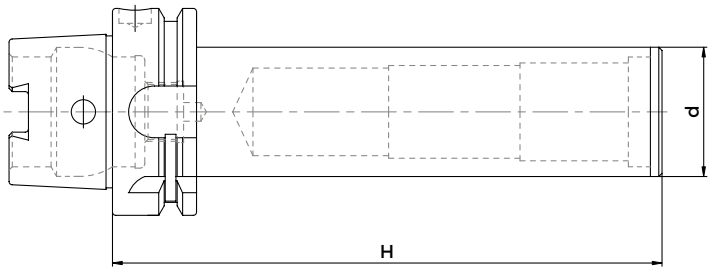


DIN 69871A - MAS403BT (DOUBLE CONTACT)

COD.	DESCRIPTION	ISO	d	L	A
217-77201	BT40H200D40BCDK	40	40	200	66,4
217-77204	BT40H300D40BCDK	40	40	300	66,4
217-77205	BT50H350D50BCDK	50	50	350	103,3
217-77103	TC40H200D40BCDK	40	40	200	69,4
217-77101	TC40H300D40BCDK	40	40	300	69,4
217-77102	TC50H350D50BCDK	50	50	350	103,25

Supplied in suitcase with test certificate





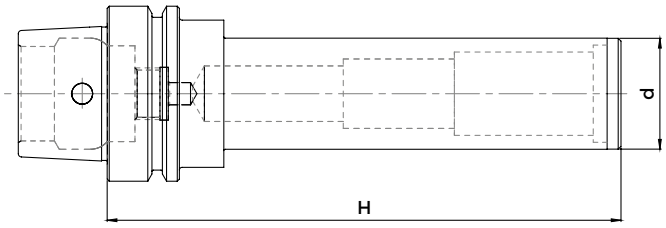
DIN69893A

COD.	DESCRIPTION	HSK	d	H
217-71720	HSK32AH176D25C	32	25	176
217-71721	HSK40AH180D25BC	40	25	180
217-71702	HSK40AH300D32C	40	32	300
217-71722	HSK50AH236D32C	50	32	236
217-71703	HSK50AH300D40C	50	40	300
217-71735	HSK63AH180D40C	63	40	180
217-71724	HSK63AH346D40C	63	40	346
217-71704	HSK63AH380D40C	63	40	380
217-71911	HSK63CH160D40C	63	40	160
217-71736	HSK100AH180D40C	100	40	180
217-71705	HSK100AH350D40C	100	40	350
217-71729	HSK125AH350D50BC	125	50	350

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CONTROL PINS



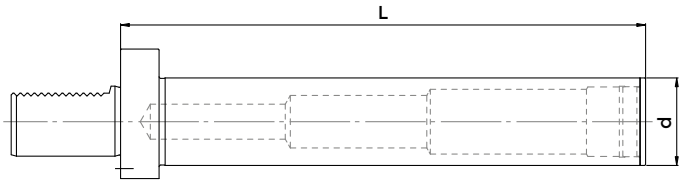


DIN 69893+6 F

COD.	DESCRIPTION	HSK	d	H
217-77402	HSK63FH380D40C	63	40	380

Supplied in suitcase with test certificate





DIN 69880

COD.	DESCRIPTION	VDI	d	L
118-52501	VDI25L220D30BC	25	30	220
118-53002	VDI30L230D40BC	30	40	230
118-54003	VDI40L300D50BC	40	50	300
118-55002	VDI50L300D50BC	50	50	300
118-56002	VDI60L300D60BC	60	60	300

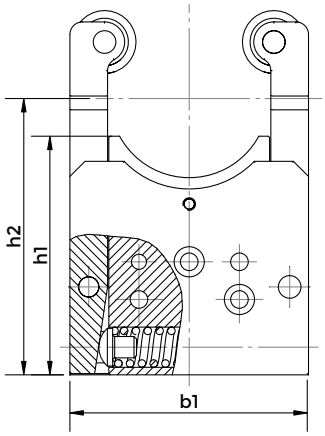
Supplied in suitcase with test certificate

CLAMPING FINGERS FOR TOOL MAGAZINES

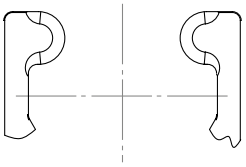




TYPE 1



TYPE 2



COD.	Type	b1	h1	h2	type	Max Kg Vertical	Max kg Upper Position	Max kg Lover Position	Max Tool's lenght (mm)	Spring Type	Spring Code
											
832-018030	HSK63A	95	95	110	1	14,6	7,8	4,1	250	A	MOLLA16X76CM
832-018470	HSK63A	95	95	110	1	21	11,2	5,9	250	B	MOLLA16X76CP
832-018020	HSK100A	135	118	139	2	40	20,5	11	400	A	MOLLA20X102CM
832-018480	HSK100A	135	118	139	2	80	50	27	400	B	MOLLA20X102CP
832-007940	C6	95	91	110	1	15,6	8,3	4,4	250	A	MOLLA16X76CM
832-018490	C6	95	91	110	1	22,3	11,9	6,3	250	B	MOLLA16X76CP
832-018050	C8	105	85	110	1	18,2	10,5	5,1	250	A	MOLLA16X89CM
832-018500	C8	105	85	110	1	29	16,7	8,2	250	B	MOLLA16X89CP
832-007980	KM63	95	100	110	2	14,4	7,7	4	250	A	MOLLA16X76CM
832-018510	KM63	95	100	110	2	20,5	10,9	5,8	250	B	MOLLA16X76CP
832-018520	SK40	95	95	110	1	14,6	7,8	4,1	250	A	MOLLA16X76CM
832-018530	SK40	95	95	110	1	21	11,2	5,9	250	B	MOLLA16X76CP
832-018360	SK50	135	118	139	2	25	13	7	400	C	MOLLA20X102CL
832-018210	SK50	135	118	139	2	40	27	15	400	A	MOLLA20X102CM
832-018540	BT40	95	95	110	1	14,6	7,8	4,1	250	A	MOLLA16X76CM
832-018550	BT40	95	95	110	1	21	11,2	5,9	250	B	MOLLA16X76CP
832-018370	BT50	135	118	139	2	25	13	7	400	C	MOLLA20X102CL
832-018200	BT50	135	118	139	2	61	31	17	400	A	MOLLA20X102CM

NOTES:
A : Medium Load Spring
B : Heavy Load Spring
C : Light Load Spring

CLAMPING FINGERS FOR TOOL MAGAZINES

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Via della Cooperazione, 7
40129 Bologna (BO)
Tel. 051/4172011
Fax 051/4172020

C.F. e P.IVA 02085090377
R.E.A. di Bologna N. 249651
Reg. Imprese di Bologna
N. 02085090377