



# **MANDRINI DOPPIO CONTATTO**

DK

## MANDRINI DOPPIO CONTATTO DK

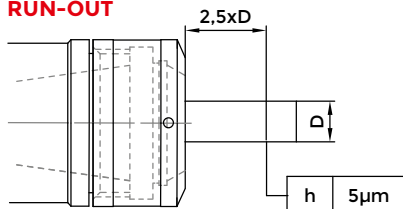
### I NUMEROSI VANTAGGI DEL MANDRINO DOPPIO CONTATTO DK

- Maggiore rigidità grazie all'azione simultanea del contatto conico e di quello a flangia
- Miglioramento della vita dell'utensile di taglio
- Maggiore stabilità grazie alla riduzione delle vibrazioni
- Maggiore resistenza alla flessione per aumentare i dati di taglio e, quindi, la produttività.

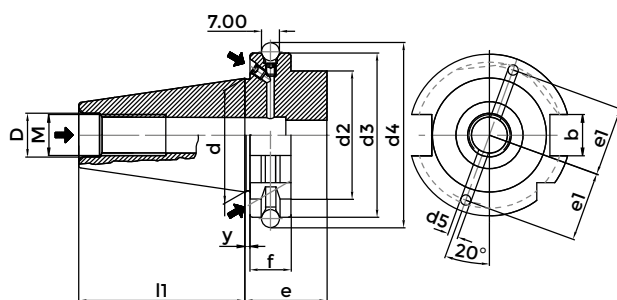
### LINEA ALTA PRECISIONE

- RUN OUT 5 MICRON a 2,5 il diametro garantito esclusivamente tramite pinze ER PRECISE.
- L'elevata precisione si ottiene o sul DIAMETRO NOMINALE o chiudendo l'utensile con diametro al massimo di 0,5mm inferiore al diametro nominale.
- Forza di serraggio maggiore del 20% (rispetto a portapinza ER standard).

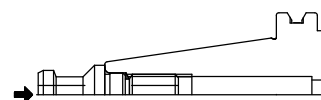
#### RUN-OUT



## DATI TECNICI CONI D'ATTACCO



**FORMA AD**



**FORMA B**

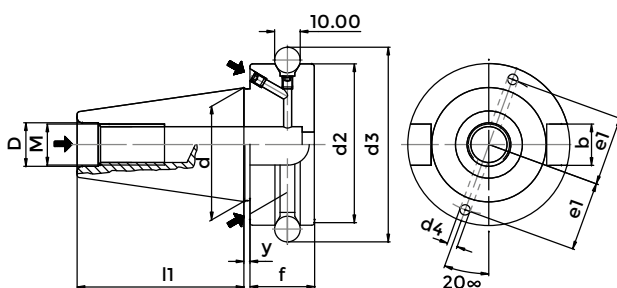


### DIN69871 - SK - FORMA AD

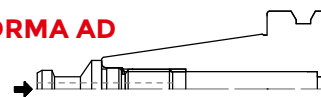
| ISO | d     | l1     | D  | M  | y   | d2 | f  | d3    | d4     | e    | b    |
|-----|-------|--------|----|----|-----|----|----|-------|--------|------|------|
| 30  | 31,75 | 47,8   | 13 | 12 | 1   | 45 | 18 | 50    | 59,3   | 32,8 | 16,1 |
| 40  | 44,45 | 68,4   | 17 | 16 | 1   | 50 | 18 | 63,55 | 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 - FORMA AD/B

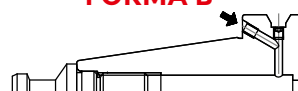
| ISO | d     | l1     | D  | M  | y   | d2 | f  | d3    | d4     | e    | b    | d5 | e1 |
|-----|-------|--------|----|----|-----|----|----|-------|--------|------|------|----|----|
| 40  | 44,45 | 68,4   | 17 | 16 | 1   | 50 | 18 | 63,55 | 72,3   | 32,8 | 16,1 | 4  | 27 |
| 50  | 69,85 | 101,75 |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



**FORMA AD**



**FORMA B**



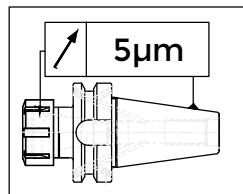
### JIS-B 6339 MAS 403/BT FORMA AD

| 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 |

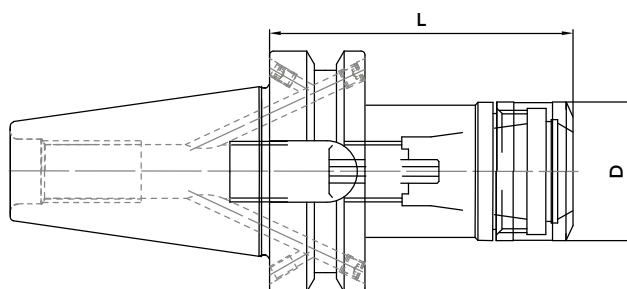
### JIS-B 6339 MAS 403/BT FORMA AD/B

| 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 |

## MANDRINI PORTAPINZA TIPO ER - ALTA PRECISIONE



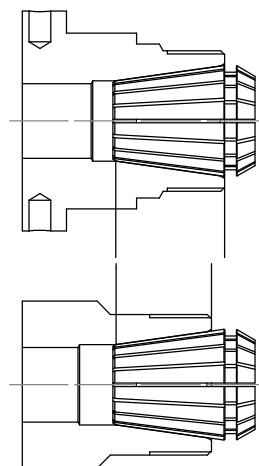
H= 0 > 100 mm - 5 µm  
H= 100 > 200 mm - 10 µm



### MAS BT AD+B DOPPIO CONTATTO - DIN 6499

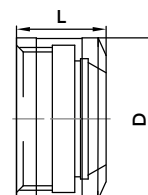
| COD.     | DESCRIZIONE       | ISO | L   | d  | ER | RANGE | G2,5<br>30000 |
|----------|-------------------|-----|-----|----|----|-------|---------------|
| *PP37231 | BT30H70ER16-HPDK  | 30  | 70  | 30 | 16 | 1÷12  | •             |
| PP37219  | BT40H70ER16-HPDK  | 40  | 70  | 30 | 16 | 1÷12  | •             |
| 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  | •             |

\*BT30 solo versione AD  
Tutti predisposti per pinze



**LINEA ALTA  
PRECISIONE**

**STANDARD**



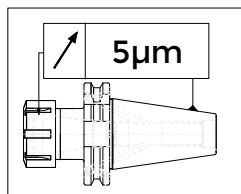
| COD.       | d  | L    | ER | RANGE |
|------------|----|------|----|-------|
| 812-203085 | 30 | 19,5 | 16 | 1÷12  |
| 812-203086 | 40 | 22   | 25 | 1÷20  |
| 812-203087 | 50 | 25   | 32 | 1÷25  |



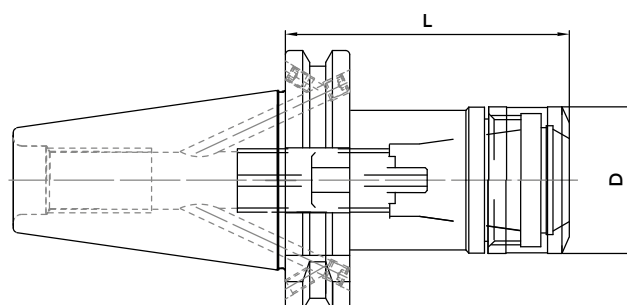
| COD.       | d  | ER | RANGE |
|------------|----|----|-------|
| 816-203069 | 30 | 16 | 1÷12  |
| 816-203070 | 40 | 25 | 1÷20  |
| 816-203071 | 50 | 32 | 1÷25  |

\*predisposti per pinze ER/ERHP/ERC

## MANDRINI PORTAPINZA TIPO ER - ALTA PRECISIONE



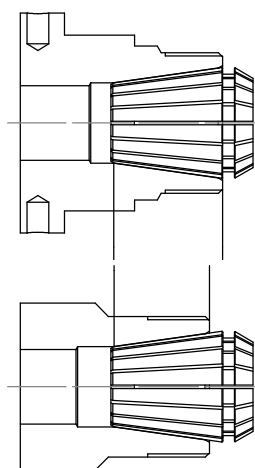
H= 0 > 100 mm - 5 µm  
H= 100 > 200 mm - 10 µm



### DIN69871 AD+B DOPPIO CONTATTO - DIN 6499

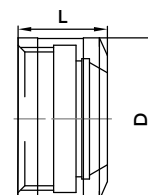
| COD.    | DESCRIZIONE       | ISO | L   | d  | ER | RANGE | G2,5<br>30000 |
|---------|-------------------|-----|-----|----|----|-------|---------------|
| PP37115 | TC40H70ER16-HPDK  | 40  | 70  | 30 | 16 | 1÷12  | •             |
| PP37116 | TC40H70ER25-HPDK  | 40  | 70  | 40 | 25 | 1÷20  | •             |
| 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  | •             |

Tutti predisposti per pinze



**LINEA ALTA  
PRECISIONE**

**STANDARD**

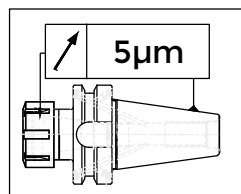


| COD.       | d  | L    | ER | RANGE |
|------------|----|------|----|-------|
| 812-203085 | 30 | 19,5 | 16 | 1÷12  |
| 812-203086 | 40 | 22   | 25 | 1÷20  |
| 812-203087 | 50 | 25   | 32 | 1÷25  |

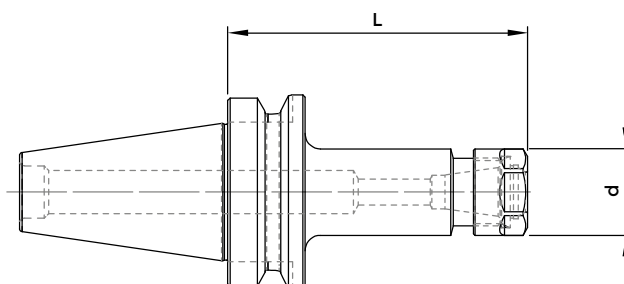


| COD.       | d  | ER | RANGE |
|------------|----|----|-------|
| 816-203069 | 30 | 16 | 1÷12  |
| 816-203070 | 40 | 25 | 1÷20  |
| 816-203071 | 50 | 32 | 1÷25  |

## MANDRINI PORTAPINZA A DOPPIO CONTATTO CON GHIERA ER TIPO ESAGONALE



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



### MAS 403/BT AD

| COD.  | DESCRIZIONE              | ISO | ER | RANGE | d  | L   | G6.3<br>8000 | GHIERA                                                                              | CHIAVE                                                                              | PINZA                                                                               |
|-------|--------------------------|-----|----|-------|----|-----|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|       |                          |     |    |       |    |     |              |  |  |  |
| 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                                                                                |

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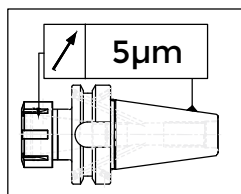
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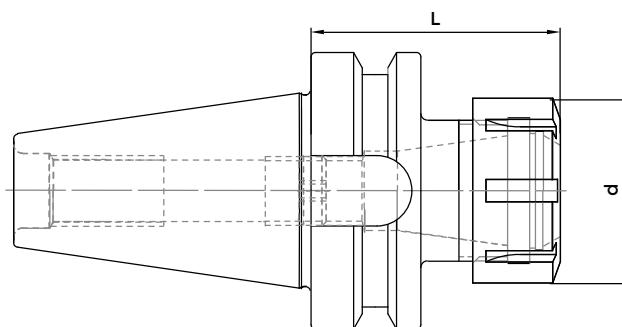
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## MANDRINI PORTAPINZA A DOPPIO CONTATTO TIPO ER



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



### MAS 403/BT AD

| COD.  | DESCRIZIONE           | ISO | ER | RANGE | d  | L   | G6.3<br>8000 | GHIERA                                                                              | CHIAVE                                                                              | PINZA                                                                               |
|-------|-----------------------|-----|----|-------|----|-----|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|       |                       |     |    |       |    |     |              |  |  |  |
| 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                                                                                |

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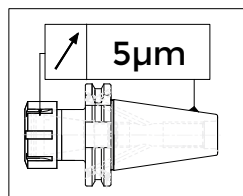


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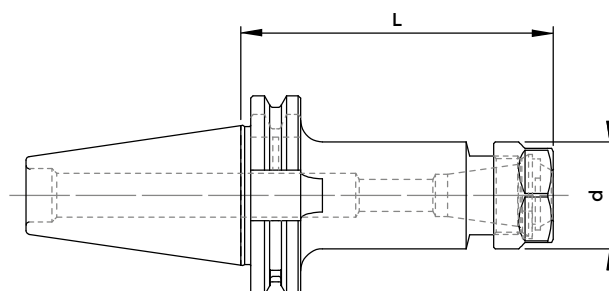




## MANDRINI PORTAPINZA A DOPPIO CONTATTO CON GHIERA ER TIPO ESAGONALE



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



### DIN 69871

| COD.  | DESCRIZIONE              | ISO | ER | RANGE | d  | L   | G6.3<br>8000 | GHIERA                                                                              | CHIAVE                                                                              | PINZA                                                                               |
|-------|--------------------------|-----|----|-------|----|-----|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|       |                          |     |    |       |    |     |              |  |  |  |
| 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                                                                                |

#### ACCESSORI



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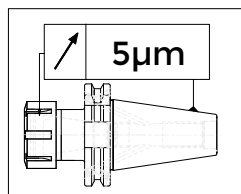


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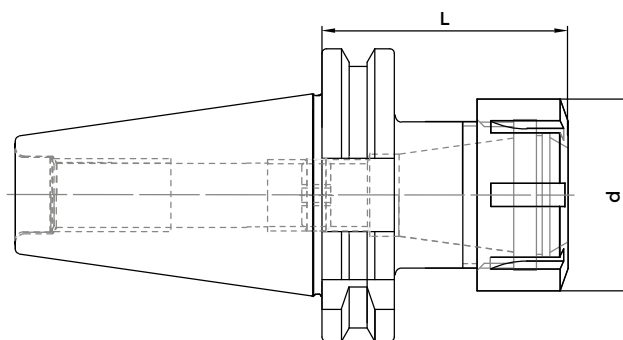




## MANDRINI PORTAPINZA A DOPPIO CONTATTO TIPO ER



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



### DIN 68971 AD

| COD.  | DESCRIZIONE           | ISO | ER | RANGE | d  | L   | G6.3<br>8000 | GHIERA                                                                              | CHIAVE                                                                              | PINZA                                                                               |
|-------|-----------------------|-----|----|-------|----|-----|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|       |                       |     |    |       |    |     |              |  |  |  |
| 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                                                                                |

#### ACCESSORI



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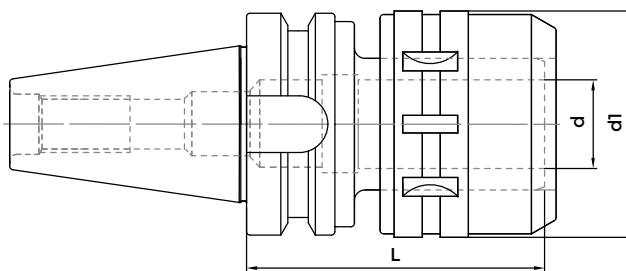
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## MANDRINI A FORTE SERRAGGIO



### MAS 403/BT A

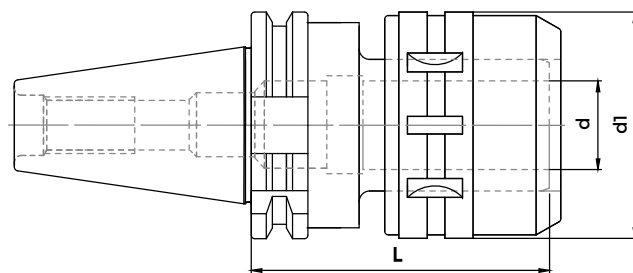
| COD.  | DESCRIZIONE           | ISO | d  | d1 | L   | G6.3<br>12000 | CHIAVE                                                                              | PINZA                                                                               |
|-------|-----------------------|-----|----|----|-----|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 10855 | BT 40 - PC 20 / H 105 | 40  | 20 | 54 | 105 | •             |  |  |
| 10858 | BT 40 - PC 32 / H 105 | 40  | 32 | 72 | 105 | •             | 2900                                                                                | 0809                                                                                |
|       |                       |     |    |    |     |               | 2910                                                                                | 0810                                                                                |

## KIT FORTE SERRAGGIO



| COD. | DESCRIZIONE               | ISO | MANDRINO                                                                            | CASSETTA                                                                            | CHIAVE                                                                                | PINZA                                                                                 |
|------|---------------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 7713 | KIT BT 40 - PC 20 / H 105 | 40  |  |  |  |  |
| 7716 | KIT BT 40 - PC 32 / H 105 | 40  | 10855                                                                               | 3695                                                                                | 2900                                                                                  | 0809 Ø 6 - 8 - 10 - 12 - 16                                                           |
|      |                           |     | 10858                                                                               | 3695                                                                                | 2910                                                                                  | 0810 Ø 6 - 8 - 10 - 12 - 16 - 20 - 25                                                 |

## MANDRINI A FORTE SERRAGGIO



### DIN 69871 AD

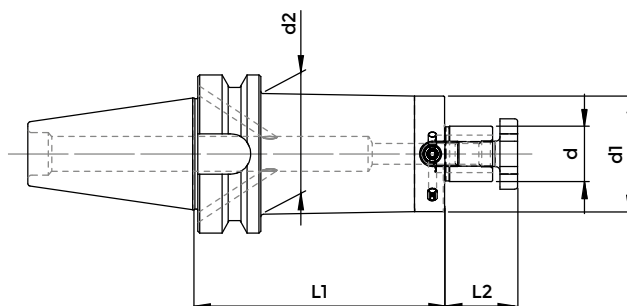
| COD.  | DESCRIZIONE           | ISO | d  | d1 | L   | G6.3<br>12000 | CHIAVE                                                                              | PINZA                                                                               |
|-------|-----------------------|-----|----|----|-----|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 10313 | TC 40 - PC 16 / H 65  | 40  | 16 | 42 | 65  | •             |  |  |
| 10316 | TC 40 - PC 20 / H 105 | 40  | 20 | 54 | 105 | •             | -                                                                                   | 0805                                                                                |
| 10319 | TC 40 - PC 32 / H 105 | 40  | 32 | 72 | 105 | •             | 2900                                                                                | 0809                                                                                |
| 10320 | TC 50 - PC 20 / H 85  | 50  | 20 | 50 | 85  | •             | 2910                                                                                | 0810                                                                                |
| 10322 | TC 50 - PC 32 / H 90  | 50  | 32 | 63 | 90  | •             | 2900                                                                                | 0809                                                                                |
|       |                       |     |    |    |     |               | 2910                                                                                | 0810                                                                                |

## KIT FORTE SERRAGGIO



| COD. | DESCRIZIONE               | ISO | MANDRINO                                                                            | CASSETTA                                                                            | CHIAVE                                                                                | PINZA                                                                                 |
|------|---------------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 7704 | KIT TC 40 - PC 20 / H 105 | 40  |  |  |  |  |
| 7707 | KIT TC 40 - PC 32 / H 105 | 40  | 10316                                                                               | 3695                                                                                | 2900                                                                                  | 0809 - Ø 6 - 8 - 10 - 12 - 16                                                         |
| 7708 | KIT TC 50 - PC 20 / H 105 | 50  | 10319                                                                               | 3695                                                                                | 2910                                                                                  | 0810 - Ø 6 - 8 - 10 - 12 - 16 - 20 - 25                                               |
| 7711 | KIT TC 50 - PC 32 / H 105 | 50  | 10320                                                                               | 3695                                                                                | 2900                                                                                  | 0809 - Ø 6 - 8 - 10 - 12 - 16                                                         |
|      |                           |     | 10322                                                                               | 3695                                                                                | 2910                                                                                  | 0810 - Ø 6 - 8 - 10 - 12 - 16 - 20 - 25                                               |

## MANDRINI PORTAFRESE A DOPPIO CONTATTO A TRASCINAMENTO FISSO



### MAS 403/BT AD

| COD.  | DESCRIZIONE                 | ISO | d  | L1  | L2 | d1 | d2 | G6.3<br>8000 | VITE<br>TESTA A<br>CROCE                                                            | TASSELLO                                                                            | VITE                                                                                | CHIAVE                                                                              |
|-------|-----------------------------|-----|----|-----|----|----|----|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|       |                             |     |    |     |    |    |    |              |  |  |  |  |
| 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                                                                                |

#### ACCESSORI

p. 674



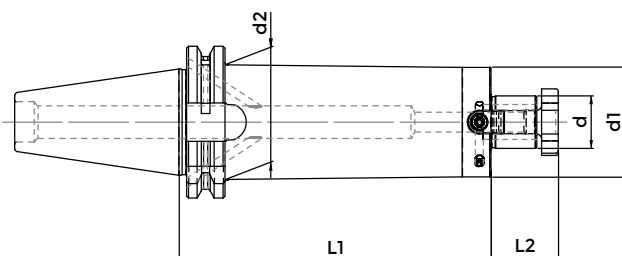
p. 676



p. 675



## MANDRINI PORTAFRESE A DOPPIO CONTATTO A TRASCINAMENTO FISSO



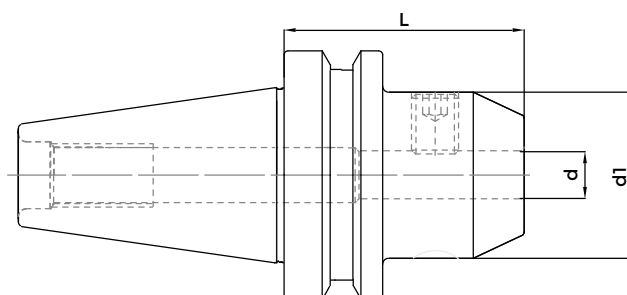
### DIN 69871 AD

| COD.  | DESCRIZIONE                 | ISO | d  | L1  | L2 | d1 | d2 | G6.3<br>8000 | VITE<br>TESTA A<br>CROCE                                                            | TASSELLO                                                                            | VITE                                                                                | CHIAVE                                                                              |
|-------|-----------------------------|-----|----|-----|----|----|----|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|       |                             |     |    |     |    |    |    |              |  |  |  |  |
| 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                                                                                |

### ACCESSORI



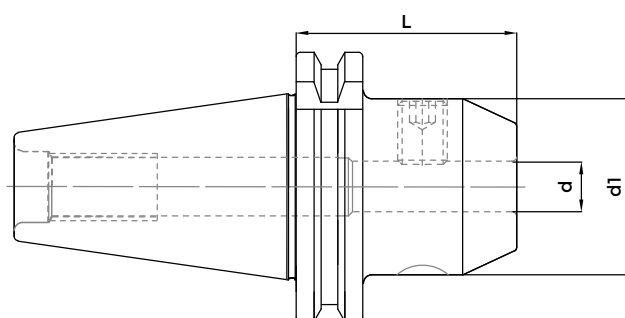
## MANDRINI PORTAFRESE A DOPPIO CONTATTO TIPO WELDON



### MAS 403/BT AD

| COD.  | DESCRIZIONE           | ISO | d  | L   | d1 | G6,3<br>12000 | GRANO                                                                               |
|-------|-----------------------|-----|----|-----|----|---------------|-------------------------------------------------------------------------------------|
|       |                       |     |    |     |    |               |  |
| 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                                                                                |

## MANDRINI PORTAFRESE A DOPPIO CONTATTO TIPO WELDON



### DIN 69871 AD

| COD.  | DESCRIZIONE           | ISO | d  | L   | d1 | G6,3<br>12000 | GRANO                                                                               |
|-------|-----------------------|-----|----|-----|----|---------------|-------------------------------------------------------------------------------------|
|       |                       |     |    |     |    |               |  |
| 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                                                                                |