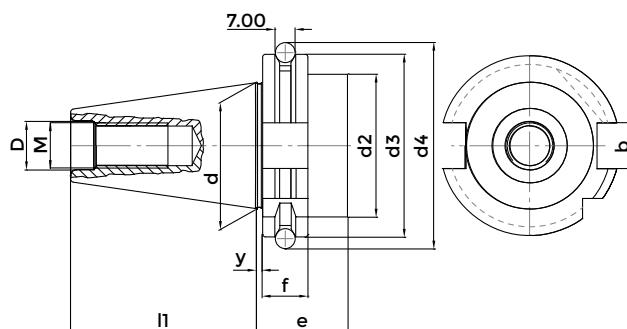




**SK CHUCKS**  
DIN 69871

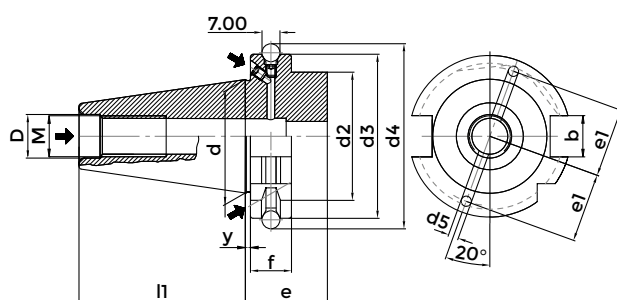
## TAPER SHANKS DATA SHEET



### 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 additive 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<sup>2</sup>
- Black oxidized
- Internal and external grinding finished.

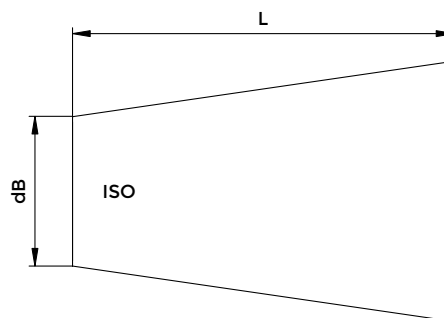
#### NEW HIGH-SPEED BALANCING TOOLHOLDERS

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

#### CONSTRUCTIVE FEATURES FOR HIGH-SPEED TOOLHOLDERS

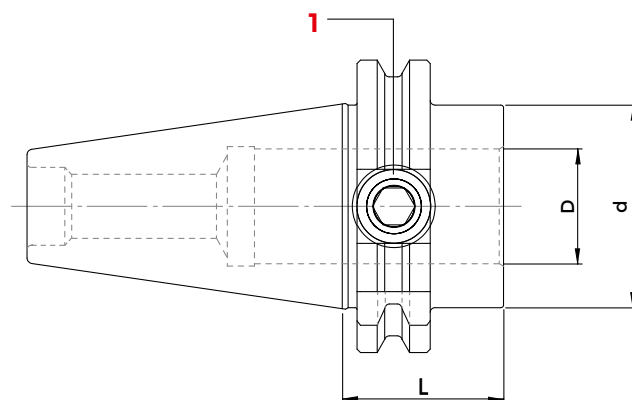
- Manufactured with casehardening Steel.
- Casehardened with depth 0,6 - 0,8 mm
- Hardened-Tempered
- Hardness HRC 58+-2, Strength 800-1000 N/mm<sup>2</sup>
- Black oxidized
- Internal and external grinding finish of the cone
- Grinding finish on the front side and on the thread of collet nuts.
- Tested 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 |

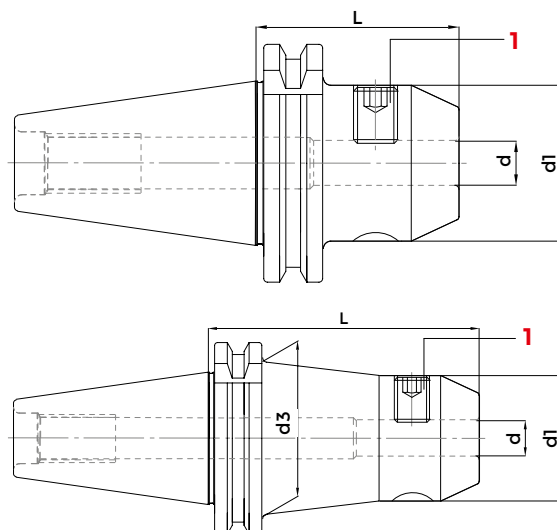
## SHORT TYPE END MILL HOLDERS



### DIN69871

| COD.<br>(AD) | COD.<br>(AD+B) | DESCRIPTION          | ISO | D  | L  | d  | G6,3<br>12000 | 1                                                                                   |                                                                                     |
|--------------|----------------|----------------------|-----|----|----|----|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              |                |                      |     |    |    |    |               | SCREW 1                                                                             | SCREW 2                                                                             |
|              |                |                      |     |    |    |    |               |  |  |
| 3079         | 8341           | TC 40 - WE 12 / H 35 | 40  | 12 | 35 | 44 | •             | 811-106005                                                                          | -                                                                                   |
| 263-11322    | 2231           | TC 40 - WE 16 / H 35 | 40  | 16 | 35 | 44 | •             | 0068                                                                                | -                                                                                   |
| 263-11323    | 2242           | TC 40 - WE 20 / H 35 | 40  | 20 | 35 | 44 | •             | 811-106032                                                                          | -                                                                                   |
| 263-11324    | 2243           | TC 40 - WE 25 / H 35 | 40  | 25 | 35 | 44 | •             | 811-106014                                                                          | -                                                                                   |
| 263-11325    | 4641           | TC 40 - WE 25 / H 60 | 40  | 25 | 60 | 49 | •             | 811-106014                                                                          | 811-106014                                                                          |
| 3083         | 4642           | TC 40 - WE 32 / H 40 | 40  | 32 | 40 | 44 | •             | 0074                                                                                | -                                                                                   |
| 263-11326    | 4643           | TC 40 - WE 32 / H 70 | 40  | 32 | 70 | 72 | •             | 811-106026                                                                          | 811-106009                                                                          |
| 263-11327    | 2234           | TC 50 - WE 16 / H 35 | 50  | 16 | 35 | 70 | •             | 811-106006                                                                          | -                                                                                   |
| 263-11328    | 2237           | TC 50 - WE 20 / H 35 | 50  | 20 | 35 | 70 | •             | 811-106007                                                                          | -                                                                                   |
| 263-11329    | 2251           | TC 50 - WE 25 / H 35 | 50  | 25 | 35 | 70 | •             | 811-106008                                                                          | -                                                                                   |
| 263-11330    | 2252           | TC 50 - WE 32 / H 35 | 50  | 32 | 35 | 80 | •             | 811-106009                                                                          | -                                                                                   |
| 3136         | 8345           | TC 50 - WE 40 / H 35 | 50  | 40 | 35 | 80 | •             | 0259                                                                                | -                                                                                   |

## WELDON END MILL HOLDERS

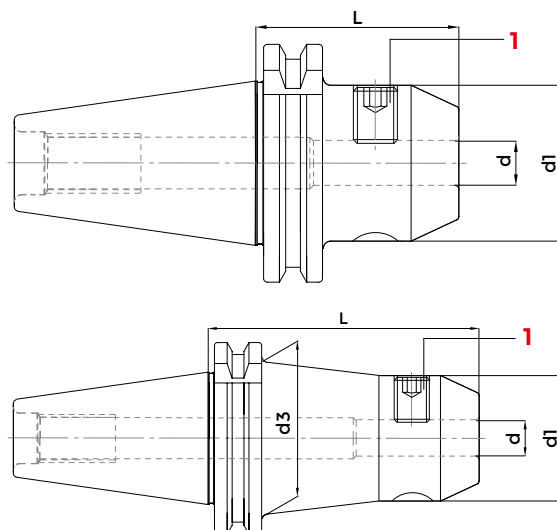


### DIN69871 AD - DIN 1835 B

| COD. (AD) | COD. (AD+B) | DESCRIPTION           | ISO | d  | L   | d1 | d3 | G6,3<br>12000 | 1<br>SCREW                                                                          |
|-----------|-------------|-----------------------|-----|----|-----|----|----|---------------|-------------------------------------------------------------------------------------|
|           |             |                       |     |    |     |    |    |               |  |
| 263-11201 | -           | TC 30 - WE 6 / H 45   | 30  | 6  | 45  | 25 | -  | •             | 811-106001                                                                          |
| 263-11202 | -           | TC 30 - WE 8 / H 45   | 30  | 8  | 45  | 28 | -  | •             | 811-106002                                                                          |
| 263-11203 | -           | TC 30 - WE 10 / H 50  | 30  | 10 | 50  | 35 | -  | •             | 811-106004                                                                          |
| 263-11204 | -           | TC 30 - WE 12 / H 50  | 30  | 12 | 50  | 42 | -  | •             | 811-106005                                                                          |
| 263-11205 | -           | TC 30 - WE 16 / H 70  | 30  | 16 | 70  | 48 | -  | •             | 811-106006                                                                          |
| 263-11206 | -           | TC 30 - WE 20 / H 70  | 30  | 20 | 70  | 52 | -  | •             | 811-106007                                                                          |
| 213-11326 | 4761        | TC 40 - WE 6 / H 50   | 40  | 6  | 50  | 25 | -  | •             | 811-106001                                                                          |
| 213-11344 | 5028        | TC 40 - WE 6 / H 100  | 40  | 6  | 100 | 25 | 35 | •             | 811-106001                                                                          |
| 5400      | 5416        | TC 40 - WE 6 / H 130  | 40  | 6  | 130 | 25 | 35 | •             | 811-106001                                                                          |
| 213-11362 | 5551        | TC 40 - WE 6 / H 160  | 40  | 6  | 160 | 25 | 35 | •             | 811-106001                                                                          |
| 263-11303 | 4144        | TC 40 - WE 6 / H 200  | 40  | 6  | 200 | 25 | 38 | •             | 811-106001                                                                          |
| 213-11327 | 4762        | TC 40 - WE 8 / H 50   | 40  | 8  | 50  | 28 | -  | •             | 811-106002                                                                          |
| 213-11345 | 5029        | TC 40 - WE 8 / H 100  | 40  | 8  | 100 | 28 | 38 | •             | 811-106002                                                                          |
| 5401      | 5417        | TC 40 - WE 8 / H 130  | 40  | 8  | 130 | 28 | 38 | •             | 811-106002                                                                          |
| 213-11363 | 5552        | TC 40 - WE 8 / H 160  | 40  | 8  | 160 | 28 | 38 | •             | 811-106002                                                                          |
| 263-11304 | 4146        | TC 40 - WE 8 / H 200  | 40  | 8  | 200 | 28 | 41 | •             | 811-106002                                                                          |
| 213-11328 | 4763        | TC 40 - WE 10 / H 50  | 40  | 10 | 50  | 35 | -  | •             | 811-106004                                                                          |
| 213-11346 | 5030        | TC 40 - WE 10 / H 100 | 40  | 10 | 100 | 35 | 40 | •             | 811-106004                                                                          |
| 5402      | 5418        | TC 40 - WE 10 / H 130 | 40  | 10 | 130 | 35 | 40 | •             | 811-106004                                                                          |
| 213-11371 | 5553        | TC 40 - WE 10 / H 160 | 40  | 10 | 160 | 35 | 40 | •             | 811-106004                                                                          |
| 263-11305 | 4148        | TC 40 - WE 10 / H 200 | 40  | 10 | 200 | 35 | 43 | •             | 811-106004                                                                          |
| 213-11329 | 4764        | TC 40 - WE 12 / H 50  | 40  | 12 | 50  | 42 | -  | •             | 811-106005                                                                          |
| 213-11347 | 5031        | TC 40 - WE 12 / H 100 | 40  | 12 | 100 | 42 | -  | •             | 811-106005                                                                          |
| 5403      | 5419        | TC 40 - WE 12 / H 130 | 40  | 12 | 130 | 42 | -  | •             | 811-106005                                                                          |
| 213-11372 | 5554        | TC 40 - WE 12 / H 160 | 40  | 12 | 160 | 42 | -  | •             | 811-106005                                                                          |
| 263-11306 | 4150        | TC 40 - WE 12 / H 200 | 40  | 12 | 200 | 42 | 48 | •             | 811-106005                                                                          |
| 213-11330 | 4765        | TC 40 - WE 14 / H 50  | 40  | 14 | 50  | 44 | -  | •             | 811-106005                                                                          |
| 213-11348 | 5032        | TC 40 - WE 14 / H 100 | 40  | 14 | 100 | 44 | -  | •             | 811-106005                                                                          |
| 4033      | 4155        | TC 40 - WE 14 / H 130 | 40  | 14 | 130 | 44 | -  | •             | 811-106005                                                                          |
| 4034      | 4157        | TC 40 - WE 14 / H 160 | 40  | 14 | 160 | 44 | -  | •             | 811-106005                                                                          |
| 213-11324 | 82 402 116  | TC 40 - WE 16 / H 63  | 40  | 16 | 63  | 48 | -  | •             | 811-106006                                                                          |
| 213-11349 | 5033        | TC 40 - WE 16 / H 100 | 40  | 16 | 100 | 48 | -  | •             | 811-106006                                                                          |
| 5404      | 5420        | TC 40 - WE 16 / H 130 | 40  | 16 | 130 | 48 | -  | •             | 811-106006                                                                          |
| 213-11360 | 5035        | TC 40 - WE 16 / H 160 | 40  | 16 | 160 | 48 | -  | •             | 811-106006                                                                          |
| 263-11308 | 4159        | TC 40 - WE 16 / H 200 | 40  | 16 | 200 | 48 | -  | •             | 811-106006                                                                          |
| 213-11331 | 4767        | TC 40 - WE 18 / H 63  | 40  | 18 | 63  | 50 | -  | •             | 811-106006                                                                          |
| 213-11370 | 5036        | TC 40 - WE 18 / H 100 | 40  | 18 | 100 | 50 | -  | •             | 811-106006                                                                          |

follows >>

## WELDON END MILL HOLDERS

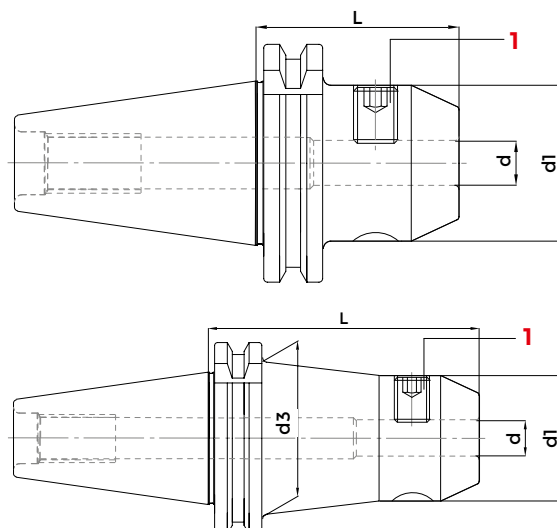


### DIN69871 AD - DIN 1835 B

| COD. (AD) | COD. (AD+B) | DESCRIPTION           | ISO | d  | L   | d1 | d3 | G6,3<br>12000 | 1<br>SCREW                                                                          |
|-----------|-------------|-----------------------|-----|----|-----|----|----|---------------|-------------------------------------------------------------------------------------|
|           |             |                       |     |    |     |    |    |               |  |
| 4037      | 4160        | TC 40 - WE 18 / H 130 | 40  | 18 | 130 | 50 | -  | •             | 811-106006                                                                          |
| 213-11325 | 4768        | TC 40 - WE 20 / H 63  | 40  | 20 | 63  | 52 | -  | •             | 811-106007                                                                          |
| 213-11350 | 5038        | TC 40 - WE 20 / H 100 | 40  | 20 | 100 | 52 | -  | •             | 811-106007                                                                          |
| 5011      | 5039        | TC 40 - WE 20 / H 130 | 40  | 20 | 130 | 52 | -  | •             | 811-106007                                                                          |
| 213-11361 | 5040        | TC 40 - WE 20 / H 160 | 40  | 20 | 160 | 50 | -  | •             | 811-106007                                                                          |
| 263-11310 | 4164        | TC 40 - WE 20 / H 200 | 40  | 20 | 200 | 50 | -  | •             | 811-106007                                                                          |
| 213-11323 | 4769        | TC 40 - WE 25 / H 100 | 40  | 25 | 100 | 50 | -  | •             | 811-106008                                                                          |
| 5013      | 5041        | TC 40 - WE 25 / H 130 | 40  | 25 | 130 | 50 | -  | •             | 811-106008                                                                          |
| 213-11396 | 5042        | TC 40 - WE 25 / H 160 | 40  | 25 | 160 | 65 | -  | •             | 811-106008                                                                          |
| 263-11311 | 4166        | TC 40 - WE 25 / H 200 | 40  | 25 | 200 | 65 | -  | •             | 811-106008                                                                          |
| 213-11332 | 4770        | TC 40 - WE 32 / H 100 | 40  | 32 | 100 | 65 | -  | •             | 811-106009                                                                          |
| 5015      | 5043        | TC 40 - WE 32 / H 130 | 40  | 32 | 130 | 65 | -  | •             | 811-106009                                                                          |
| 213-11397 | 5044        | TC 40 - WE 32 / H 160 | 40  | 32 | 160 | 72 | -  | •             | 811-106009                                                                          |
| 263-11312 | 4168        | TC 40 - WE 32 / H 200 | 40  | 32 | 200 | 72 | -  | •             | 811-106009                                                                          |
| 213-11393 | 4771        | TC 40 - WE 40 / H 115 | 40  | 40 | 115 | 80 | -  | •             | 811-106009                                                                          |
| 3722      | -           | TC 45 - WE 6 / H 63   | 45  | 6  | 63  | 25 | -  | •             | 811-106001                                                                          |
| 3723      | -           | TC 45 - WE 8 / H 63   | 45  | 8  | 63  | 28 | -  | •             | 811-106002                                                                          |
| 3724      | -           | TC 45 - WE 10 / H 63  | 45  | 10 | 63  | 35 | -  | •             | 811-106004                                                                          |
| 3725      | -           | TC 45 - WE 12 / H 63  | 45  | 12 | 63  | 42 | -  | •             | 811-106005                                                                          |
| 3726      | -           | TC 45 - WE 16 / H 63  | 45  | 16 | 63  | 48 | -  | •             | 811-106006                                                                          |
| 3727      | -           | TC 45 - WE 20 / H 63  | 45  | 20 | 63  | 52 | -  | •             | 811-106007                                                                          |
| 3728      | -           | TC 45 - WE 25 / H 100 | 45  | 25 | 100 | 65 | -  | •             | 811-106008                                                                          |
| 3729      | -           | TC 45 - WE 32 / H 100 | 45  | 32 | 100 | 72 | -  | •             | 811-106009                                                                          |
| 4515      | -           | TC 45 - WE 40 / H 100 | 45  | 40 | 100 | 80 | -  | •             | 811-106009                                                                          |
| 213-11333 | 4783        | TC 50 - WE 6 / H 63   | 50  | 6  | 63  | 25 | -  | •             | 811-106001                                                                          |
| 213-11351 | 5045        | TC 50 - WE 6 / H 100  | 50  | 6  | 100 | 25 | 35 | •             | 811-106001                                                                          |
| 5405      | 5426        | TC 50 - WE 6 / H 130  | 50  | 6  | 130 | 25 | 35 | •             | 811-106001                                                                          |
| 213-11364 | 5555        | TC 50 - WE 6 / H 160  | 50  | 6  | 160 | 25 | 35 | •             | 811-106001                                                                          |
| 263-11313 | 4173        | TC 50 - WE 6 / H 200  | 50  | 6  | 200 | 25 | 38 | •             | 811-106001                                                                          |
| 213-11334 | 4784        | TC 50 - WE 8 / H 63   | 50  | 8  | 63  | 28 | -  | •             | 811-106002                                                                          |
| 213-11352 | 5046        | TC 50 - WE 8 / H 100  | 50  | 8  | 100 | 28 | 38 | •             | 811-106002                                                                          |
| 5406      | 5427        | TC 50 - WE 8 / H 130  | 50  | 8  | 130 | 28 | 38 | •             | 811-106002                                                                          |
| 213-11365 | 5556        | TC 50 - WE 8 / H 160  | 50  | 8  | 160 | 28 | 38 | •             | 811-106002                                                                          |
| 263-11314 | 4175        | TC 50 - WE 8 / H 200  | 50  | 8  | 200 | 28 | 41 | •             | 811-106002                                                                          |
| 213-11335 | 4785        | TC 50 - WE 10 / H 63  | 50  | 10 | 63  | 35 | -  | •             | 811-106004                                                                          |
| 213-11353 | 5047        | TC 50 - WE 10 / H 100 | 50  | 10 | 100 | 35 | 42 | •             | 811-106004                                                                          |
| 5407      | 5428        | TC 50 - WE 10 / H 130 | 50  | 10 | 130 | 35 | 42 | •             | 811-106004                                                                          |

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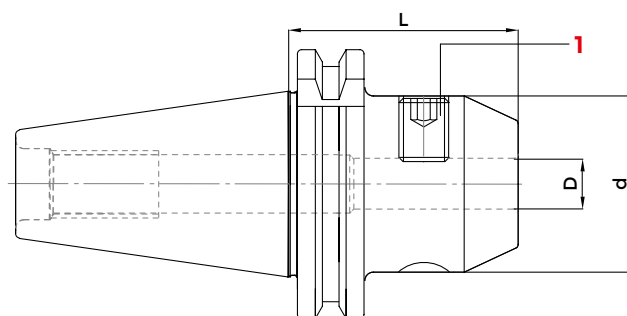
## WELDON END MILL HOLDERS



### DIN69871 AD - DIN 1835 B

| COD. (AD) | COD. (AD+B)     | DESCRIPTION           | ISO | d  | L   | d1  | d3 | G6,3<br>12000 | 1<br>SCREW                                                                          |
|-----------|-----------------|-----------------------|-----|----|-----|-----|----|---------------|-------------------------------------------------------------------------------------|
|           |                 |                       |     |    |     |     |    |               |  |
| 213-11366 | 5558            | TC 50 - WE 10 / H 160 | 50  | 10 | 160 | 35  | 42 | •             | 811-106004                                                                          |
| 263-11315 | 4177            | TC 50 - WE 10 / H 200 | 50  | 10 | 200 | 35  | 45 | •             | 811-106004                                                                          |
| 213-11336 | 4786            | TC 50 - WE 12 / H 63  | 50  | 12 | 63  | 42  | -  | •             | 811-106005                                                                          |
| 213-11354 | 5559            | TC 50 - WE 12 / H 100 | 50  | 12 | 100 | 42  | 48 | •             | 811-106005                                                                          |
| 5408      | 5429            | TC 50 - WE 12 / H 130 | 50  | 12 | 130 | 42  | 48 | •             | 811-106005                                                                          |
| 213-11367 | 5048            | TC 50 - WE 12 / H 160 | 50  | 12 | 160 | 42  | 48 | •             | 811-106005                                                                          |
| 263-11316 | 4179            | TC 50 - WE 12 / H 200 | 50  | 12 | 200 | 42  | 51 | •             | 811-106005                                                                          |
| 213-11337 | 4787            | TC 50 - WE 14 / H 63  | 50  | 14 | 63  | 44  | -  | •             | 811-106005                                                                          |
| 213-11355 | 5560            | TC 50 - WE 14 / H 100 | 50  | 14 | 100 | 44  | 50 | •             | 811-106005                                                                          |
| 4130      | 4182            | TC 50 - WE 14 / H 130 | 50  | 14 | 130 | 44  | 50 | •             | 811-106005                                                                          |
| 4132      | 4183            | TC 50 - WE 14 / H 160 | 50  | 14 | 160 | 44  | 54 | •             | 811-106005                                                                          |
| 213-11338 | 4788            | TC 50 - WE 16 / H 63  | 50  | 16 | 63  | 48  | -  | •             | 811-106006                                                                          |
| 213-11356 | 5561            | TC 50 - WE 16 / H 100 | 50  | 16 | 100 | 48  | 54 | •             | 811-106006                                                                          |
| 5409      | 5430            | TC 50 - WE 16 / H 130 | 50  | 16 | 130 | 48  | 54 | •             | 811-106006                                                                          |
| 213-11368 | 5050            | TC 50 - WE 16 / H 160 | 50  | 16 | 160 | 48  | 54 | •             | 811-106006                                                                          |
| 263-11318 | 4206            | TC 50 - WE 16 / H 200 | 50  | 16 | 200 | 48  | 57 | •             | 811-106006                                                                          |
| 213-11339 | 4789            | TC 50 - WE 18 / H 63  | 50  | 18 | 63  | 50  | -  | •             | 811-106006                                                                          |
| 213-11357 | 5562            | TC 50 - WE 18 / H 100 | 50  | 18 | 100 | 50  | 56 | •             | 811-106006                                                                          |
| 4137      | 4213            | TC 50 - WE 18 / H 130 | 50  | 18 | 130 | 50  | 56 | •             | 811-106006                                                                          |
| 4138      | 4215            | TC 50 - WE 18 / H 160 | 50  | 18 | 160 | 50  | 56 | •             | 811-106006                                                                          |
| 213-11340 | 4790            | TC 50 - WE 20 / H 63  | 50  | 20 | 63  | 52  | -  | •             | 811-106007                                                                          |
| 213-11358 | 5563            | TC 50 - WE 20 / H 100 | 50  | 20 | 100 | 52  | 59 | •             | 811-106007                                                                          |
| 5410      | 5431            | TC 50 - WE 20 / H 130 | 50  | 20 | 130 | 52  | 59 | •             | 811-106007                                                                          |
| 213-11369 | 5052            | TC 50 - WE 20 / H 160 | 50  | 20 | 160 | 52  | 59 | •             | 811-106007                                                                          |
| 263-11320 | 4242            | TC 50 - WE 20 / H 200 | 50  | 20 | 200 | 52  | 61 | •             | 811-106007                                                                          |
| 213-11341 | 4791            | TC 50 - WE 25 / H 80  | 50  | 25 | 80  | 65  | -  | •             | 811-106008                                                                          |
| 213-11359 | 5051            | TC 50 - WE 25 / H 100 | 50  | 25 | 100 | 65  | -  | •             | 811-106008                                                                          |
| 5414      | 5432            | TC 50 - WE 25 / H 130 | 50  | 25 | 130 | 65  | -  | •             | 811-106008                                                                          |
| 263-11301 | TC50H160WE25ADB | TC 50 - WE 25 / H 160 | 50  | 25 | 160 | 65  | 70 | •             | 811-106008                                                                          |
| 263-11321 | 4244            | TC 50 - WE 25 / H 200 | 50  | 25 | 200 | 65  | 72 | •             | 811-106008                                                                          |
| 213-11342 | 4792            | TC 50 - WE 32 / H 100 | 50  | 32 | 100 | 72  | -  | •             | 811-106009                                                                          |
| 5415      | 5433            | TC 50 - WE 32 / H 130 | 50  | 32 | 130 | 72  | -  | •             | 811-106009                                                                          |
| 263-11302 | 5055            | TC 50 - WE 32 / H 160 | 50  | 32 | 160 | 72  | -  | •             | 811-106009                                                                          |
| 263-11381 | 4245            | TC 50 - WE 32 / H 200 | 50  | 32 | 200 | 72  | -  | •             | 811-106009                                                                          |
| 213-11343 | 4793            | TC 50 - WE 40 / H 120 | 50  | 40 | 120 | 80  | -  | •             | 811-106009                                                                          |
| 5027      | 5056            | TC 50 - WE 40 / H 160 | 50  | 40 | 160 | 80  | -  | •             | 811-106009                                                                          |
| 263-11343 | 4247            | TC 50 - WE 50 / H 120 | 50  | 50 | 120 | 100 | -  | •             | 4978                                                                                |

## WELDON END MILL HOLDERS - HIGH SPEED LINE

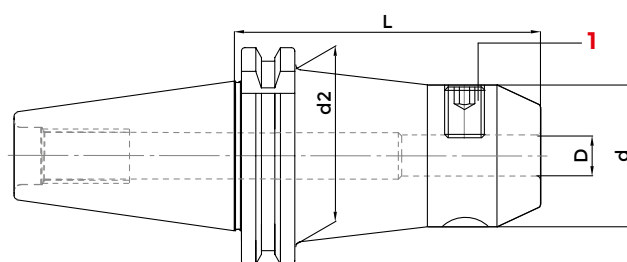


### DIN 69871 AD - DIN 1835 B

### HIGH SPEED LINE

| COD.      | DESCRIPTION  | ISO | D  | d   | L  | G6.3<br>20000 | 1<br>SCREW                                                                          |
|-----------|--------------|-----|----|-----|----|---------------|-------------------------------------------------------------------------------------|
|           |              |     |    |     |    |               |  |
| 213-91301 | TC40H50WE06  | 40  | 6  | 50  | 25 | •             | 811-106001                                                                          |
| 213-91302 | TC40H50WE08  | 40  | 8  | 50  | 28 | •             | 811-106002                                                                          |
| 213-91303 | TC40H50WE10  | 40  | 10 | 50  | 35 | •             | 811-106004                                                                          |
| WE91304   | TC40H50WE12  | 40  | 12 | 50  | 42 | •             | 811-106005                                                                          |
| 213-91306 | TC40H63WE16  | 40  | 16 | 63  | 48 | •             | 811-106006                                                                          |
| WE91308   | TC40H63WE20  | 40  | 20 | 63  | 52 | •             | 811-106007                                                                          |
| 213-91309 | TC40H100WE25 | 40  | 25 | 100 | 65 | •             | 811-106008                                                                          |
| 213-91310 | TC40H100WE32 | 40  | 32 | 100 | 72 | •             | 811-106009                                                                          |
| 213-91319 | TC50H63WE20  | 50  | 20 | 63  | 52 | •             | 811-106007                                                                          |
| 213-91320 | TC50H80WE25  | 50  | 25 | 80  | 65 | •             | 811-106008                                                                          |
| 213-91321 | TC50H100WE32 | 50  | 32 | 100 | 72 | •             | 811-106009                                                                          |

## WELDON END MILL HOLDERS - LONG SERIES - HIGH SPEED LINE



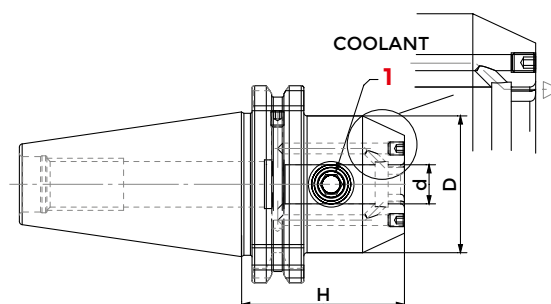
### DIN 69871 AD - DIN 1835 B

### HIGH SPEED LINE

| COD.      | DESCRIPTION  | ISO | D  | L   | d  | d2 | C2.5<br>25000 | 1<br>SCREW                                                                            |
|-----------|--------------|-----|----|-----|----|----|---------------|---------------------------------------------------------------------------------------|
|           |              |     |    |     |    |    |               |  |
| 213-91324 | TC40H100WE06 | 40  | 6  | 100 | 25 | 35 | •             | 811-106001                                                                            |
| 213-91325 | TC40H100WE08 | 40  | 8  | 100 | 28 | 38 | •             | 811-106002                                                                            |
| 213-91326 | TC40H100WE10 | 40  | 10 | 100 | 35 | 40 | •             | 811-106004                                                                            |
| WE91327   | TC40H100WE12 | 40  | 12 | 100 | 42 | -  | •             | 811-106005                                                                            |
| 213-91329 | TC40H100WE16 | 40  | 16 | 100 | 48 | -  | •             | 811-106006                                                                            |
| 213-91331 | TC40H100WE20 | 40  | 20 | 100 | 50 | -  | •             | 811-106007                                                                            |



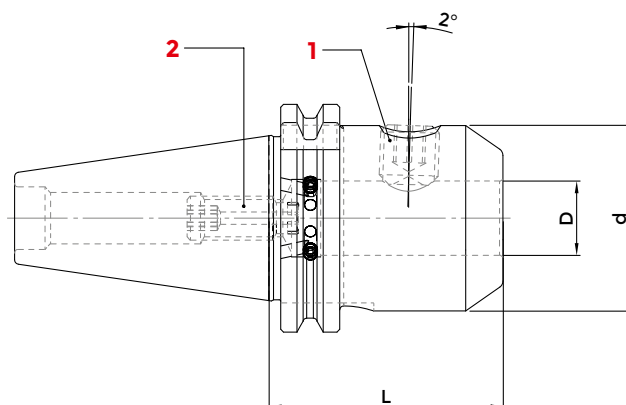
## WELDON END MILL HOLDERS - SHORT SERIES WITH COOLANT CHANNELS



### DIN69871 AD - DIN 1835 B

| COD.      | DESCRIPTION            | ISO | D  | H   | d  | G6,3<br>12000 | 1                                                                                   |
|-----------|------------------------|-----|----|-----|----|---------------|-------------------------------------------------------------------------------------|
|           |                        |     |    |     |    |               | SCREW                                                                               |
|           |                        |     |    |     |    |               |  |
| 213-61325 | TC 40 - WEC 6 / H 50   | 40  | 25 | 50  | 6  | •             | 811-106001                                                                          |
| 213-61326 | TC 40 - WEC 8 / H 50   | 40  | 28 | 50  | 8  | •             | 811-106002                                                                          |
| 213-61327 | TC 40 - WEC 10 / H 50  | 40  | 35 | 50  | 10 | •             | 811-106004                                                                          |
| 213-61328 | TC 40 - WEC 12 / H 50  | 40  | 42 | 50  | 12 | •             | 811-106005                                                                          |
| 213-61329 | TC 40 - WEC 14 / H 50  | 40  | 44 | 50  | 14 | •             | 811-106005                                                                          |
| 213-61330 | TC 40 - WEC 16 / H 63  | 40  | 48 | 63  | 16 | •             | 811-106006                                                                          |
| 213-61331 | TC 40 - WEC 18 / H 63  | 40  | 50 | 63  | 18 | •             | 811-106006                                                                          |
| 213-61332 | TC 40 - WEC 20 / H 63  | 40  | 52 | 63  | 20 | •             | 811-106007                                                                          |
| 213-61333 | TC 40 - WEC 25 / H 100 | 40  | 65 | 100 | 25 | •             | 811-106008                                                                          |
| 213-61334 | TC 40 - WEC 32 / H 100 | 40  | 72 | 100 | 32 | •             | 811-106009                                                                          |
| 213-61345 | TC 40 - WEC 40 / H 115 | 40  | 80 | 115 | 40 | •             | 811-106009                                                                          |
| 213-61335 | TC 50 - WEC 6 / H 63   | 50  | 25 | 63  | 6  | •             | 811-106001                                                                          |
| 7862      | TC 50 - WEC 8 / H 63   | 50  | 28 | 63  | 8  | •             | 811-106002                                                                          |
| 7863      | TC 50 - WEC 10 / H 63  | 50  | 35 | 63  | 10 | •             | 811-106004                                                                          |
| 7864      | TC 50 - WEC 12 / H 63  | 50  | 42 | 63  | 12 | •             | 811-106005                                                                          |
| 7865      | TC 50 - WEC 14 / H 63  | 50  | 44 | 63  | 14 | •             | 811-106005                                                                          |
| 7866      | TC 50 - WEC 16 / H 63  | 50  | 48 | 63  | 16 | •             | 811-106006                                                                          |
| 7867      | TC 50 - WEC 18 / H 63  | 50  | 50 | 63  | 18 | •             | 811-106006                                                                          |
| 213-61342 | TC 50 - WEC 20 / H 63  | 50  | 52 | 63  | 20 | •             | 811-106007                                                                          |
| 213-61343 | TC 50 - WEC 25 / H 80  | 50  | 65 | 80  | 25 | •             | 811-106008                                                                          |
| 213-61344 | TC 50 - WEC 32 / H 100 | 50  | 72 | 100 | 32 | •             | 811-106009                                                                          |
| 263-61345 | TC 50 - WEC 40 / H 120 | 50  | 80 | 120 | 40 | •             | 811-106009                                                                          |

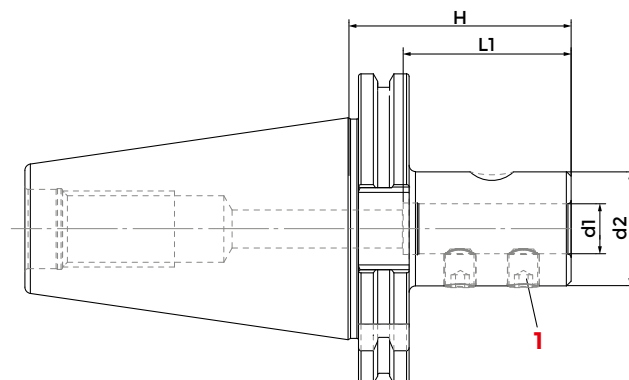
## WHISTLE NOTCH END MILL HOLDERS



### DIN69871 AD/B

| COD.      | DESCRIPTION           | ISO | D  | L   | d  | G6.3<br>12000 | 1                                                                                   | 2                                                                                   |
|-----------|-----------------------|-----|----|-----|----|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|           |                       |     |    |     |    |               | SCREW                                                                               | LOCKING<br>SCREW                                                                    |
|           |                       |     |    |     |    |               |  |  |
| 4795      | TC 40 - WN 6 / H 50   | 40  | 6  | 50  | 25 | •             | 811-106001                                                                          | 811-303043                                                                          |
| 4796      | TC 40 - WN 8 / H 50   | 40  | 8  | 50  | 28 | •             | 811-106002                                                                          | 811-303081                                                                          |
| 4797      | TC 40 - WN 10 / H 50  | 40  | 10 | 50  | 35 | •             | 811-106004                                                                          | 811-303082                                                                          |
| 4798      | TC 40 - WN 12 / H 50  | 40  | 12 | 50  | 42 | •             | 811-106005                                                                          | 811-303083                                                                          |
| 4799      | TC 40 - WN 14 / H 50  | 40  | 14 | 50  | 44 | •             | 811-106005                                                                          | 811-303083                                                                          |
| 213-31322 | TC 40 - WN 16 / H 63  | 40  | 16 | 63  | 48 | •             | 811-106006                                                                          | 811-303084                                                                          |
| 213-31323 | TC 40 - WN 18 / H 63  | 40  | 18 | 63  | 50 | •             | 811-106006                                                                          | 811-303084                                                                          |
| 213-31324 | TC 40 - WN 20 / H 63  | 40  | 20 | 63  | 52 | •             | 811-106007                                                                          | 811-303084                                                                          |
| 213-31325 | TC 40 - WN 25 / H 100 | 40  | 25 | 100 | 65 | •             | 811-106008                                                                          | 0212                                                                                |
| 213-31326 | TC 40 - WN 32 / H 100 | 40  | 32 | 100 | 72 | •             | 811-106009                                                                          | 0212                                                                                |
| 213-31327 | TC 40 - WN 40 / H 115 | 40  | 40 | 115 | 80 | •             | 811-106009                                                                          | 0212                                                                                |
| 4815      | TC 50 - WN 6 / H 63   | 50  | 6  | 63  | 25 | •             | 811-106001                                                                          | 811-303043                                                                          |
| 4816      | TC 50 - WN 8 / H 63   | 50  | 8  | 63  | 28 | •             | 811-106002                                                                          | 811-303081                                                                          |
| 4817      | TC 50 - WN 10 / H 63  | 50  | 10 | 63  | 35 | •             | 811-106004                                                                          | 811-303082                                                                          |
| 4818      | TC 50 - WN 12 / H 63  | 50  | 12 | 63  | 42 | •             | 811-106005                                                                          | 811-303083                                                                          |
| 4819      | TC 50 - WN 14 / H 63  | 50  | 14 | 63  | 44 | •             | 811-106005                                                                          | 811-303083                                                                          |
| 213-31333 | TC 50 - WN 16 / H 63  | 50  | 16 | 63  | 48 | •             | 811-106006                                                                          | 811-303084                                                                          |
| 213-31334 | TC 50 - WN 18 / H 63  | 50  | 18 | 63  | 50 | •             | 811-106006                                                                          | 811-303084                                                                          |
| 213-31335 | TC 50 - WN 20 / H 63  | 50  | 20 | 63  | 52 | •             | 811-106007                                                                          | 811-303084                                                                          |
| 213-31336 | TC 50 - WN 25 / H 80  | 50  | 25 | 80  | 65 | •             | 811-106008                                                                          | 0247                                                                                |
| 213-31337 | TC 50 - WN 32 / H 100 | 50  | 32 | 100 | 72 | •             | 811-106009                                                                          | 0247                                                                                |
| 213-31338 | TC 50 - WN 40 / H 120 | 50  | 40 | 120 | 80 | •             | 811-106009                                                                          | 0247                                                                                |

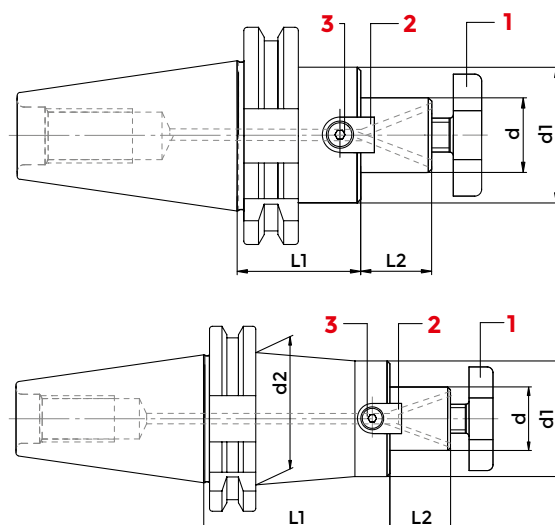
## INDEXABLE DRILL HOLDERS



### DIN69871 AD

| COD.      | DESCRIPTION     | ISO | D  | d  | H  | L  | G6,3<br>12000 | 1                                                                                   |
|-----------|-----------------|-----|----|----|----|----|---------------|-------------------------------------------------------------------------------------|
|           |                 |     |    |    |    |    |               | SCREW                                                                               |
|           |                 |     |    |    |    |    |               |  |
| 217-90980 | TC 40 - D. 16 P | 40  | 16 | 36 | 65 | 54 | •             | 811-402003                                                                          |
| 217-90981 | TC 40 - D. 20 P | 40  | 20 | 40 | 65 | 54 | •             | 811-402003                                                                          |
| 217-90982 | TC 40 - D. 25 P | 40  | 25 | 45 | 70 | 59 | •             | 811-402005                                                                          |
| 217-90983 | TC 40 - D. 32 P | 40  | 32 | 52 | 70 | 63 | •             | 811-402005                                                                          |
| 217-90950 | TC 50 - D. 16 P | 50  | 16 | 36 | 70 | 54 | •             | 811-402003                                                                          |
| 217-90984 | TC 50 - D. 20 P | 50  | 20 | 40 | 70 | 54 | •             | 811-402003                                                                          |
| 217-90985 | TC 50 - D. 25 P | 50  | 25 | 45 | 70 | 59 | •             | 811-402005                                                                          |
| 217-90986 | TC 50 - D. 32 P | 50  | 32 | 52 | 70 | 63 | •             | 811-402005                                                                          |
| 217-90987 | TC 50 - D. 40 P | 50  | 40 | 60 | 80 | 73 | •             | 811-402007                                                                          |

## FACE MILL HOLDERS - TENONS DRIVE

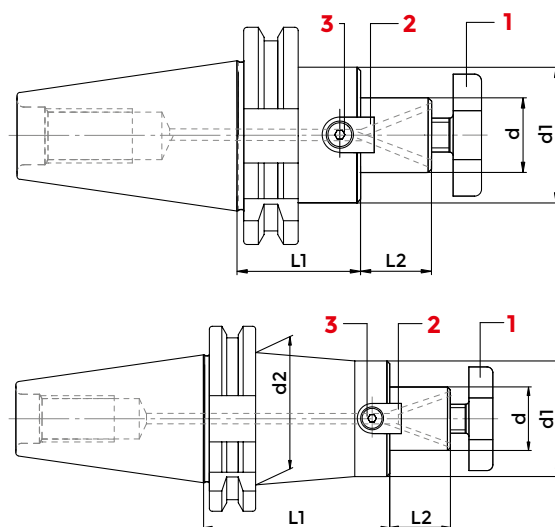


### DIN69871 AD/B - ISO 3937

| COD.<br>(AD) | COD.<br>(AD+B) | DESCRIPTION                 | ISO | d  | L1  | L2 | d1 | d2 | G6, 3<br>8000 | 1                                                                                   | 2                                                                                   | 3                                                                                                                                                                       |
|--------------|----------------|-----------------------------|-----|----|-----|----|----|----|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |                |                             |     |    |     |    |    |    |               | CROSS<br>SCREW                                                                      | TENON                                                                               | SCREW WRENCH                                                                                                                                                            |
|              |                |                             |     |    |     |    |    |    |               |  |  |   |
| 216-71201    | -              | TC 30 - D. 16 FISSO / H 35  | 30  | 16 | 35  | 17 | 38 | -  | •             | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                                                                                                                   |
| 216-71202    | -              | TC 30 - D. 22 FISSO / H 50  | 30  | 22 | 50  | 19 | 48 | -  | •             | 811-107004                                                                          | 814-202250                                                                          | 811-101011 816-130003                                                                                                                                                   |
| 216-71203    | -              | TC 30 - D. 27 FISSO / H 50  | 30  | 27 | 50  | 21 | 58 | -  | •             | 811-107005                                                                          | 814-202270                                                                          | 811-101018 816-130004                                                                                                                                                   |
| 4143         | -              | TC 30 - D. 32 FISSO / H 55  | 30  | 32 | 55  | 24 | 58 | -  | •             | 811-107006                                                                          | 814-202290                                                                          | 0207 816-130005                                                                                                                                                         |
| 216-71204    | 216-71301      | TC 40 - D. 16 FISSO / H 45  | 40  | 16 | 45  | 17 | 38 | -  | •             | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                                                                                                                   |
| 216-71255    | 216-71321      | TC 40 - D. 16 FISSO / H 100 | 40  | 16 | 100 | 17 | 38 | -  | •             | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                                                                                                                   |
| 266-71210    | 216-71372      | TC 40 - D. 16 FISSO / H 130 | 40  | 16 | 130 | 17 | 38 | -  | •             | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                                                                                                                   |
| 216-71256    | 216-71381      | TC 40 - D. 16 FISSO / H 160 | 40  | 16 | 160 | 17 | 38 | -  | •             | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                                                                                                                   |
| -            | 216-71388      | TC 40 - D. 16 FISSO / H 200 | 40  | 16 | 200 | 17 | 38 | -  | •             | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                                                                                                                   |
| 216-71205    | 216-71302      | TC 40 - D. 22 FISSO / H 45  | 40  | 22 | 45  | 19 | 48 | -  | •             | 811-107004                                                                          | 814-202250                                                                          | 811-101011 816-130003                                                                                                                                                   |
| 216-71259    | 216-71322      | TC 40 - D. 22 FISSO / H 100 | 40  | 22 | 100 | 19 | 48 | -  | •             | 811-107004                                                                          | 814-202250                                                                          | 811-101011 816-130003                                                                                                                                                   |
| 266-71211    | 216-71373      | TC 40 - D. 22 FISSO / H 130 | 40  | 22 | 130 | 19 | 46 | -  | •             | 811-107004                                                                          | 814-202250                                                                          | 811-101011 816-130003                                                                                                                                                   |
| 216-71260    | 216-71382      | TC 40 - D. 22 FISSO / H 160 | 40  | 22 | 160 | 19 | 46 | 48 | •             | 811-107004                                                                          | 814-202250                                                                          | 811-101011 816-130003                                                                                                                                                   |
| -            | 216-71389      | TC 40 - D. 22 FISSO / H 200 | 40  | 22 | 200 | 19 | 46 | 48 | •             | 811-107004                                                                          | 814-202250                                                                          | 811-101011 816-130003                                                                                                                                                   |
| 216-71206    | 216-71303      | TC 40 - D. 27 FISSO / H 50  | 40  | 27 | 50  | 21 | 58 | -  | •             | 811-107005                                                                          | 814-202270                                                                          | 811-101018 816-130004                                                                                                                                                   |
| 266-71273    | 216-71323      | TC 40 - D. 27 FISSO / H 100 | 40  | 27 | 100 | 21 | 48 | -  | •             | 811-107005                                                                          | 814-202270                                                                          | 811-101018 816-130004                                                                                                                                                   |
| 266-71213    | 216-71374      | TC 40 - D. 27 FISSO / H 130 | 40  | 27 | 130 | 21 | 48 | -  | •             | 811-107005                                                                          | 814-202270                                                                          | 811-101018 816-130004                                                                                                                                                   |
| 5541         | 216-71396      | TC 40 - D. 27 FISSO / H 160 | 40  | 27 | 160 | 21 | 58 | -  | •             | 811-107005                                                                          | 814-202270                                                                          | 811-101018 816-130004                                                                                                                                                   |
| -            | 216-71399      | TC 40 - D. 27 FISSO / H 200 | 40  | 27 | 200 | 21 | 58 | -  | •             | 811-107005                                                                          | 814-202270                                                                          | 811-101018 816-130004                                                                                                                                                   |
| 216-71207    | 216-71304      | T C 40 - D. 32 FISSO / H 55 | 40  | 32 | 55  | 24 | 78 | -  | •             | 811-107006                                                                          | 814-202290                                                                          | 0207 816-130005                                                                                                                                                         |
| 266-71274    | 216-71324      | TC 40 - D. 32 FISSO / H 100 | 40  | 32 | 100 | 24 | 58 | -  | •             | 811-107006                                                                          | 814-202290                                                                          | 0207 816-130005                                                                                                                                                         |
| 8368         | 216-71397      | TC 40 - D. 32 FISSO / H 160 | 40  | 32 | 160 | 24 | 78 | -  | •             | 811-107006                                                                          | 814-202290                                                                          | 0207 816-130005                                                                                                                                                         |
| 216-71208    | 216-71305      | TC 40 - D. 40 FISSO / H 55  | 40  | 40 | 55  | 27 | 88 | -  | •             | 811-107007                                                                          | 814-202710                                                                          | 811-101029 816-130006                                                                                                                                                   |
| 266-71275    | 8392           | TC 40 - D. 40 FISSO / H 100 | 40  | 40 | 100 | 27 | 70 | -  | •             | 811-107007                                                                          | 814-202710                                                                          | 811-101029 816-130006                                                                                                                                                   |
| 8369         | 216-71398      | TC 40 - D. 40 FISSO / H 160 | 40  | 40 | 160 | 27 | 80 | -  | •             | 811-107007                                                                          | 814-202710                                                                          | 811-101029 816-130006                                                                                                                                                   |
| 216-71214    | 216-71306      | TC 50 - D. 16 FISSO / H 45  | 50  | 16 | 45  | 17 | 38 | -  | •             | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                                                                                                                   |
| 266-71233    | 216-71312      | TC 50 - D. 16 FISSO / H 100 | 50  | 16 | 100 | 17 | 38 | -  | •             | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                                                                                                                   |
| 9405         | 216-71376      | TC 50 - D. 16 FISSO / H 130 | 50  | 16 | 130 | 17 | 38 | -  | •             | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                                                                                                                   |
| 266-71234    | 216-71383      | TC 50 - D. 16 FISSO / H 160 | 50  | 16 | 160 | 17 | 38 | -  | •             | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                                                                                                                   |
| -            | 216-71390      | TC 50 - D. 16 FISSO / H 200 | 50  | 16 | 200 | 17 | 38 | -  | •             | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                                                                                                                   |

follows >>

## FACE MILL HOLDERS - TENONS DRIVE



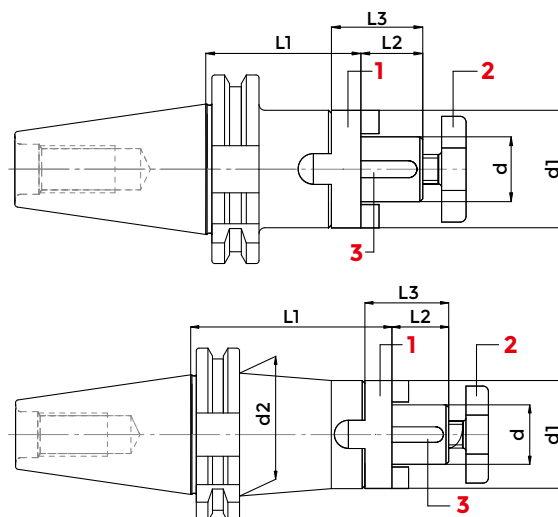
### DIN69871 AD/B - ISO 3937

| COD.<br>(AD) | COD.<br>(AD+B) | DESCRIPTION                         | ISO | d  | L1  | L2 | d1 | d2 | G6, 3<br>8000 | 1                                                                                   | 2                                                                                   | 3                                                                                   | WRENCH     |
|--------------|----------------|-------------------------------------|-----|----|-----|----|----|----|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|
|              |                |                                     |     |    |     |    |    |    |               | CROSS<br>SCREW                                                                      | TENON                                                                               | SCREW                                                                               |            |
|              |                |                                     |     |    |     |    |    |    |               |  |  |  |            |
| 216-71215    | 216-71307      | TC 50 - D. 22 FISSO / H 45          | 50  | 22 | 45  | 19 | 48 | -  | •             | 811-107004                                                                          | 814-202250                                                                          | 811-101011                                                                          | 816-130003 |
| 216-71267    | 216-71313      | TC 50 - D. 22 FISSO / H 100         | 50  | 22 | 100 | 19 | 46 | 48 | •             | 811-107004                                                                          | 814-202250                                                                          | 811-101011                                                                          | 816-130003 |
| 9004         | -              | TC 50 - D. 22 FISSO / H 100 FIS.63  | 50  | 22 | 100 | 19 | 50 | 60 | •             | 811-107004                                                                          | 814-202250                                                                          | 811-101011                                                                          | 816-130003 |
| 9406         | 216-71377      | TC 50 - D. 22 FISSO / H 130         | 50  | 22 | 130 | 19 | 46 | 60 | •             | 811-107004                                                                          | 814-202250                                                                          | 811-101011                                                                          | 816-130003 |
| 5545         | 216-71384      | TC 50 - D. 22 FISSO / H 160         | 50  | 22 | 160 | 19 | 46 | 48 | •             | 811-107004                                                                          | 814-202250                                                                          | 811-101011                                                                          | 816-130003 |
| 9005         | -              | TC 50 - D. 22 FISSO / H 160 FIS.63  | 50  | 22 | 160 | 19 | 50 | 60 | •             | 811-107004                                                                          | 814-202250                                                                          | 811-101011                                                                          | 816-130003 |
| -            | 216-71391      | TC 50 - D. 22 FISSO / H 200         | 50  | 22 | 200 | 19 | 46 | 48 | •             | 811-107004                                                                          | 814-202250                                                                          | 811-101011                                                                          | 816-130003 |
| -            | 8398           | TC 50 - D. 22 FISSO / H 250         | 50  | 22 | 250 | 19 | 48 | 60 | •             | 811-107004                                                                          | 814-202250                                                                          | 811-101011                                                                          | 816-130003 |
| -            | 8399           | TC 50 - D. 22 FISSO / H 300         | 50  | 22 | 300 | 19 | 48 | 60 | •             | 811-107004                                                                          | 814-202250                                                                          | 811-101011                                                                          | 816-130003 |
| 216-71216    | 216-71308      | TC 50 - D. 27 FISSO / H 45          | 50  | 27 | 45  | 21 | 58 | -  | •             | 811-107005                                                                          | 814-202270                                                                          | 811-101018                                                                          | 816-130004 |
| 216-71277    | 216-71314      | TC 50 - D. 27 FISSO / H 100         | 50  | 27 | 100 | 21 | 55 | 78 | •             | 811-107005                                                                          | 814-202270                                                                          | 811-101018                                                                          | 816-130004 |
| 9407         | 216-71378      | TC 50 - D. 27 FISSO / H 130         | 50  | 27 | 130 | 21 | 55 | 78 | •             | 811-107005                                                                          | 814-202270                                                                          | 811-101018                                                                          | 816-130004 |
| 216-71278    | 216-71385      | TC 50 - D. 27 FISSO / H 160         | 50  | 27 | 160 | 21 | 55 | 78 | •             | 811-107005                                                                          | 814-202270                                                                          | 811-101018                                                                          | 816-130004 |
| -            | 216-71392      | TC 50 - D. 27 FISSO / H 200         | 50  | 27 | 200 | 21 | 55 | 78 | •             | 811-107005                                                                          | 814-202270                                                                          | 811-101018                                                                          | 816-130004 |
| -            | 8402           | TC 50 - D. 27 FISSO / H 250         | 50  | 27 | 250 | 21 | 55 | 78 | •             | 811-107005                                                                          | 814-202270                                                                          | 811-101018                                                                          | 816-130004 |
| -            | 8403           | TC 50 - D. 27 FISSO / H 300         | 50  | 27 | 300 | 21 | 55 | 78 | •             | 811-107005                                                                          | 814-202270                                                                          | 811-101018                                                                          | 816-130004 |
| 216-71217    | 216-71309      | TC 50 - D. 32 FISSO / H 55          | 50  | 32 | 55  | 24 | 78 | -  | •             | 811-107006                                                                          | 814-202290                                                                          | 0207                                                                                | 816-130005 |
| 266-71256    | 216-71315      | TC 50 - D. 32 FISSO / H 100         | 50  | 32 | 100 | 24 | 66 | 78 | •             | 811-107006                                                                          | 814-202290                                                                          | 0207                                                                                | 816-130005 |
| 266-71286    | 216-71379      | TC 50 - D. 32 FISSO / H 130         | 50  | 32 | 130 | 24 | 66 | 78 | •             | 811-107006                                                                          | 814-202290                                                                          | 0207                                                                                | 816-130005 |
| 266-71257    | 216-71386      | TC 50 - D. 32 FISSO / H 160         | 50  | 32 | 160 | 24 | 66 | 78 | •             | 811-107006                                                                          | 814-202290                                                                          | 0207                                                                                | 816-130005 |
| -            | 216-71393      | TC 50 - D. 32 FISSO / H 200         | 50  | 32 | 200 | 24 | 66 | 78 | •             | 811-107006                                                                          | 814-202290                                                                          | 0207                                                                                | 816-130005 |
| -            | 8406           | TC 50 - D. 32 FISSO / H 250         | 50  | 32 | 250 | 24 | 66 | 78 | •             | 811-107006                                                                          | 814-202290                                                                          | 0207                                                                                | 816-130005 |
| -            | 8407           | TC 50 - D. 32 FISSO / H 300         | 50  | 32 | 300 | 24 | 66 | -  | •             | 811-107006                                                                          | 814-202290                                                                          | 0207                                                                                | 816-130005 |
| 216-71218    | 216-71310      | TC 50 - D. 40 FISSO / H 55          | 50  | 40 | 55  | 27 | 88 | -  | •             | 811-107007                                                                          | 814-202710                                                                          | 811-101029                                                                          | 816-130006 |
| 266-71276    | 216-71316      | TC 50 - D. 40 FISSO / H 100         | 50  | 40 | 100 | 27 | 70 | -  | •             | 811-107007                                                                          | 814-202710                                                                          | 811-101029                                                                          | 816-130006 |
| 216-71380    | -              | TC 50 - D. 40 FISSO / H 130 FIS. 63 | 50  | 40 | 130 | 27 | 70 | 78 | •             | 811-107007                                                                          | 814-202710                                                                          | 811-101029                                                                          | 816-130006 |
| 266-71287    | 216-71387      | TC 50 - D. 40 FISSO / H 160         | 50  | 40 | 160 | 27 | 70 | 78 | •             | 811-107007                                                                          | 814-202710                                                                          | 811-101029                                                                          | 816-130006 |
| -            | 216-71394      | TC 50 - D. 40 FISSO / H 200         | 50  | 40 | 200 | 27 | 70 | 78 | •             | 811-107007                                                                          | 814-202710                                                                          | 811-101029                                                                          | 816-130006 |

#### ACCESSORIES



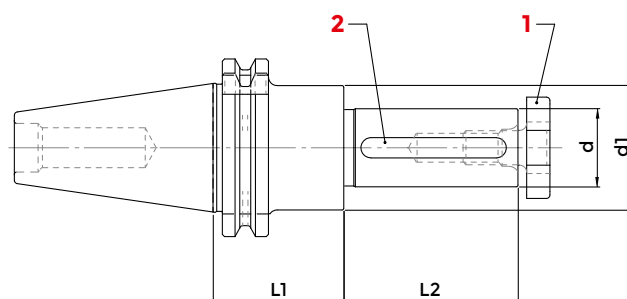
## COMBI-SHELL MILL HOLDERS



### DIN69871 A

| COD.      | DESCRIPTION           | ISO | d  | L1  | L2 | L3 | d1 | d2 | G6, 3<br>8000 | 1                                                                                   | 2                                                                                   | 3                                                                                                                                                                       |
|-----------|-----------------------|-----|----|-----|----|----|----|----|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |                       |     |    |     |    |    |    |    |               | COUPLING<br>RING                                                                    | CROSS<br>SCREW                                                                      | KEY<br>WRENCH                                                                                                                                                           |
|           |                       |     |    |     |    |    |    |    |               |  |  |   |
| 216-11232 | TC 30 - D.16 C/ H 50  | 30  | 16 | 50  | 17 | 27 | 32 | -  | •             | 814-30001                                                                           | 811-107003                                                                          | 814-201010 816-130002                                                                                                                                                   |
| 216-11234 | TC 30 - D.22 C/ H 50  | 30  | 22 | 50  | 19 | 31 | 40 | -  | •             | 814-30002                                                                           | 811-107004                                                                          | 814-201020 816-130003                                                                                                                                                   |
| 216-11201 | TC 40 - D.16 C/ H 55  | 40  | 16 | 55  | 17 | 27 | 32 | -  | •             | 814-30001                                                                           | 811-107003                                                                          | 814-201010 816-130002                                                                                                                                                   |
| 216-11213 | TC 40 - D.16 C/ H 100 | 40  | 16 | 100 | 17 | 27 | 32 | 44 | •             | 814-30001                                                                           | 811-107003                                                                          | 0015 816-130002                                                                                                                                                         |
| 8474      | TC 40 - D.16 C/ H 160 | 40  | 16 | 160 | 17 | 27 | 32 | 44 | •             | 814-30001                                                                           | 811-107003                                                                          | 0015 816-130002                                                                                                                                                         |
| 216-11202 | TC 40 - D.22 C/ H 55  | 40  | 22 | 55  | 19 | 31 | 40 | -  | •             | 814-30002                                                                           | 811-107004                                                                          | 814-201020 816-130003                                                                                                                                                   |
| 216-11214 | TC 40 - D.22 C/ H 100 | 40  | 22 | 100 | 19 | 31 | 40 | -  | •             | 814-30002                                                                           | 811-107004                                                                          | 814-201020 816-130003                                                                                                                                                   |
| 8475      | TC 40 - D.22 C/ H 160 | 40  | 22 | 160 | 19 | 31 | 40 | -  | •             | 814-30002                                                                           | 811-107004                                                                          | 814-201020 816-130003                                                                                                                                                   |
| 216-11203 | TC 40 - D.27 C/ H 55  | 40  | 27 | 55  | 21 | 33 | 48 | -  | •             | 814-30003                                                                           | 811-107005                                                                          | 814-201030 816-130004                                                                                                                                                   |
| 216-11215 | TC 40 - D.27 C/ H 100 | 40  | 27 | 100 | 21 | 33 | 48 | -  | •             | 814-30003                                                                           | 811-107005                                                                          | 814-201030 816-130004                                                                                                                                                   |
| 8476      | TC 40 - D.27 C/ H 160 | 40  | 27 | 160 | 21 | 33 | 48 | -  | •             | 814-30003                                                                           | 811-107005                                                                          | 814-201030 816-130004                                                                                                                                                   |
| 216-11204 | TC 40 - D.32 C/ H 60  | 40  | 32 | 60  | 24 | 32 | 58 | -  | •             | 814-30004                                                                           | 811-107006                                                                          | 814-201040 816-130005                                                                                                                                                   |
| 216-11216 | TC 40 - D.32 C/ H 100 | 40  | 32 | 100 | 24 | 32 | 58 | -  | •             | 814-30004                                                                           | 811-107006                                                                          | 814-201040 816-130005                                                                                                                                                   |
| 8477      | TC 40 - D.32 C/ H 160 | 40  | 32 | 160 | 24 | 32 | 58 | -  | •             | 814-30004                                                                           | 811-107006                                                                          | 814-201040 816-130005                                                                                                                                                   |
| 216-11205 | TC 40 - D.40 C/ H 60  | 40  | 40 | 60  | 27 | 40 | 70 | -  | •             | 814-30005                                                                           | 811-107007                                                                          | 814-201050 816-130006                                                                                                                                                   |
| 216-11217 | TC 40 - D.40 C/ H 100 | 40  | 40 | 100 | 27 | 40 | 70 | -  | •             | 814-30005                                                                           | 811-107007                                                                          | 814-201050 816-130006                                                                                                                                                   |
| 3836      | TC 45 - D.16 C/ H 60  | 45  | 16 | 60  | 17 | 16 | 32 | -  | •             | 814-30001                                                                           | 811-107003                                                                          | 814-201010 816-130002                                                                                                                                                   |
| 3837      | TC 45 - D.22 C/ H 65  | 45  | 22 | 65  | 19 | 11 | 40 | -  | •             | 814-30002                                                                           | 811-107004                                                                          | 814-201020 816-130003                                                                                                                                                   |
| 4105      | TC 45 - D.22 C/ H 100 | 45  | 22 | 100 | 19 | 22 | 40 | -  | •             | 814-30002                                                                           | 811-107004                                                                          | 814-201020 816-130003                                                                                                                                                   |
| 3838      | TC 45 - D.27 C/ H 65  | 45  | 27 | 65  | 21 | 27 | 48 | -  | •             | 814-30003                                                                           | 811-107005                                                                          | 814-201030 816-130004                                                                                                                                                   |
| 4106      | TC 45 - D.27 C/ H 100 | 45  | 27 | 100 | 21 | 27 | 48 | -  | •             | 814-30003                                                                           | 811-107005                                                                          | 814-201030 816-130004                                                                                                                                                   |
| 3839      | TC 45 - D.32 C/ H 65  | 45  | 32 | 65  | 24 | 32 | 58 | -  | •             | 814-30004                                                                           | 811-107006                                                                          | 814-201040 816-130005                                                                                                                                                   |
| 3840      | TC 45 - D.40 C/ H 70  | 45  | 40 | 70  | 27 | 40 | 70 | -  | •             | 814-30005                                                                           | 811-107007                                                                          | 814-201050 816-130006                                                                                                                                                   |
| 216-11206 | TC 50 - D.16 C/ H 55  | 50  | 16 | 55  | 17 | 16 | 32 | -  | •             | 814-30001                                                                           | 811-107003                                                                          | 814-201010 816-130002                                                                                                                                                   |
| 216-11218 | TC 50 - D.16 C/ H 100 | 50  | 16 | 100 | 17 | 16 | 32 | 50 | •             | 814-30001                                                                           | 811-107003                                                                          | 814-201010 816-130002                                                                                                                                                   |
| 216-11207 | TC 50 - D.22 C/ H 55  | 50  | 22 | 55  | 19 | 22 | 40 | -  | •             | 814-30002                                                                           | 811-107004                                                                          | 814-201020 816-130003                                                                                                                                                   |
| 216-11219 | TC 50 - D.22 C/ H 100 | 50  | 22 | 100 | 19 | 22 | 40 | 60 | •             | 814-30002                                                                           | 811-107004                                                                          | 814-201020 816-130003                                                                                                                                                   |
| 216-11208 | TC 50 - D.27 C/ H 55  | 50  | 27 | 55  | 21 | 27 | 48 | -  | •             | 814-30003                                                                           | 811-107005                                                                          | 814-201030 816-130004                                                                                                                                                   |
| 216-11220 | TC 50 - D.27 C/ H 100 | 50  | 27 | 100 | 21 | 27 | 48 | 60 | •             | 814-30003                                                                           | 811-107005                                                                          | 814-201030 816-130004                                                                                                                                                   |
| 216-11209 | TC 50 - D.32 C/ H 55  | 50  | 32 | 55  | 24 | 32 | 58 | -  | •             | 814-30004                                                                           | 811-107006                                                                          | 814-201040 816-130005                                                                                                                                                   |
| 216-11221 | TC 50 - D.32 C/ H 100 | 50  | 32 | 100 | 24 | 32 | 58 | -  | •             | 814-30004                                                                           | 811-107006                                                                          | 814-201040 816-130005                                                                                                                                                   |
| 216-11210 | TC 50 - D.40 C/ H 55  | 50  | 40 | 55  | 27 | 40 | 70 | -  | •             | 814-30005                                                                           | 811-107007                                                                          | 814-201050 816-130006                                                                                                                                                   |
| 216-11222 | TC 50 - D.40 C/ H 100 | 50  | 40 | 100 | 27 | 40 | 70 | -  | •             | 814-30005                                                                           | 811-107007                                                                          | 814-201050 816-130006                                                                                                                                                   |
| 4522      | TC 50 - D.50 C/ H 70  | 50  | 50 | 70  | 30 | 50 | 90 | -  | •             | 4095                                                                                | 811-107009                                                                          | 0137 816-130007                                                                                                                                                         |

## MILL HOLDERS WITH FEATHER KEY



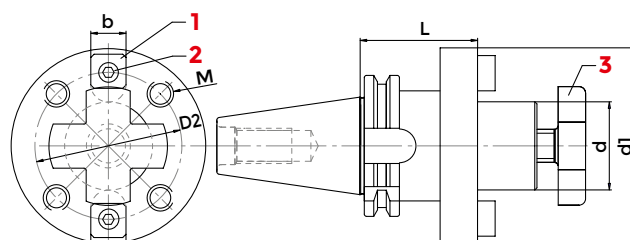
### DIN69871 A

| COD. | DESCRIPTION       | ISO | d  | L1 | L2 | d1 | G6, 3<br>8000 | 1              | 2    | 3          |
|------|-------------------|-----|----|----|----|----|---------------|----------------|------|------------|
|      |                   |     |    |    |    |    |               | CROSS<br>SCREW | KEY  | WRENCH     |
|      |                   |     |    |    |    |    |               |                |      |            |
| 8493 | TC 40 - D. 16 CHT | 40  | 16 | 45 | 30 | 28 | •             | 811-107003     | 0147 | 816-130002 |
| 8494 | TC 40 - D. 22 CHT | 40  | 22 | 45 | 40 | 36 | •             | 811-107004     | 0148 | 816-130003 |
| 8495 | TC 40 - D. 27 CHT | 40  | 27 | 45 | 60 | 43 | •             | 811-107005     | 0149 | 816-130004 |
| 8496 | TC 40 - D. 32 CHT | 40  | 32 | 45 | 60 | 48 | •             | 811-107006     | 0150 | 816-130005 |
| 8497 | TC 40 - D. 40 CHT | 40  | 40 | 45 | 60 | 56 | •             | 811-107007     | 0151 | 816-130006 |

#### ACCESSORIES



## FACE MILL HOLDER FOR FACE MILLING CUTTERS



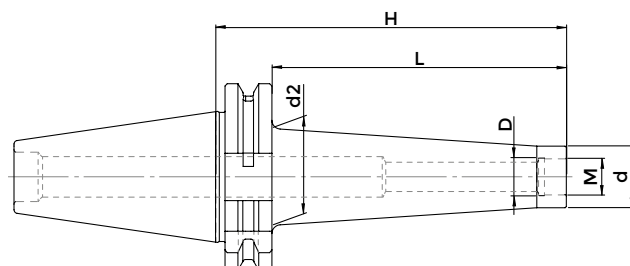
### DIN69871 A - DIN 6357

| COD.      | DESCRIPTION      | ISO | d  | L  | d1  | D2    | M    | b    | G6, 3<br>8000 | 1          | 2          | 3              |
|-----------|------------------|-----|----|----|-----|-------|------|------|---------------|------------|------------|----------------|
|           |                  |     |    |    |     |       |      |      |               | SCREW      | TENON      | CROSS<br>SCREW |
|           |                  |     |    |    |     |       |      |      |               |            |            |                |
| 216-21201 | TC 40 - D. 40 FM | 40  | 40 | 60 | 89  | 66,7  | M 12 | 15,9 | •             | 0207       | 814-202080 | 811-107007     |
| 216-21202 | TC 50 - D. 40 FM | 50  | 40 | 70 | 89  | 66,7  | M 12 | 15,9 | •             | 0207       | 814-202080 | 811-107007     |
| 216-21203 | TC 50 - D. 60 FM | 50  | 60 | 70 | 129 | 101,6 | M 16 | 25,4 | •             | 811-101064 | 814-202120 | -              |

#### ACCESSORIES



## END MILL HOLDERS FOR MILLING CUTTERS WITH THREADED SHANKS

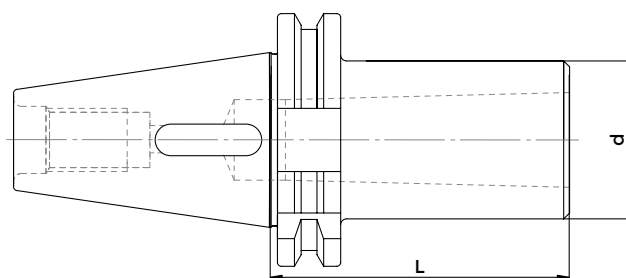


### DIN69871 AD - DIN 6358

| COD.      | DESCRIPTION          | ISO | M    | D    | d  | d2   | H   | L   | G6,3<br>12000 |
|-----------|----------------------|-----|------|------|----|------|-----|-----|---------------|
| 217-81320 | TC 40 - M 8 / H 55   | 40  | M 8  | 8,5  | 13 | 15   | 55  | 36  | •             |
| 217-81301 | TC 40 - M 8 / H 69   | 40  | M 8  | 8,5  | 13 | 23   | 69  | 50  | •             |
| 217-81302 | 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 | •             |
| 217-81321 | TC 40 - M 10 / H 55  | 40  | M 10 | 10,5 | 18 | 20   | 55  | 36  | •             |
| 217-81304 | TC 40 - M 10 / H 69  | 40  | M 10 | 10,5 | 18 | 23   | 69  | 50  | •             |
| 217-81305 | TC 40 - M 10 / H 94  | 40  | M 10 | 10,5 | 18 | 28   | 94  | 75  | •             |
| 217-81306 | TC 40 - M 10 / H 119 | 40  | M 10 | 10,5 | 18 | 32   | 119 | 100 | •             |
| 217-81322 | TC 40 - M 10 / H 145 | 40  | M 10 | 10,5 | 18 | 34   | 145 | 126 | •             |
| 217-81323 | TC 40 - M 12 / H 55  | 40  | M 12 | 12,5 | 21 | 24   | 55  | 36  | •             |
| 217-81307 | TC 40 - M 12 / H 69  | 40  | M 12 | 12,5 | 21 | 24   | 69  | 50  | •             |
| 217-81308 | TC 40 - M 12 / H 94  | 40  | M 12 | 12,5 | 21 | 31   | 94  | 75  | •             |
| 217-81309 | TC 40 - M 12 / H 119 | 40  | M 12 | 12,5 | 21 | 33   | 119 | 100 | •             |
| 217-81324 | 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 | •             |
| 217-81326 | TC 40 - M 16 / H 55  | 40  | M 16 | 17   | 29 | 32   | 55  | 36  | •             |
| 217-81310 | TC 40 - M 16 / H 69  | 40  | M 16 | 17   | 29 | 34   | 69  | 50  | •             |
| 217-81311 | TC 40 - M 16 / H 94  | 40  | M 16 | 17   | 29 | 34   | 94  | 75  | •             |
| 217-81312 | TC 40 - M 16 / H 119 | 40  | M 16 | 17   | 29 | 36   | 119 | 100 | •             |
| 217-81313 | TC 40 - M 16 / H 145 | 40  | M 16 | 17   | 29 | 40   | 145 | 126 | •             |
| 217-81327 | 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 | •             |
| 217-81314 | TC 50 - M 12 / H 69  | 50  | M 12 | 12,5 | 21 | 24   | 69  | 50  | •             |
| 217-81315 | 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 | •             |
| 217-81317 | TC 50 - M 16 / H 69  | 50  | M 16 | 17   | 29 | 34   | 69  | 50  | •             |
| 217-81318 | TC 50 - M 16 / H 119 | 50  | M 16 | 17   | 29 | 36   | 119 | 100 | •             |
| 217-81319 | 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 | •             |



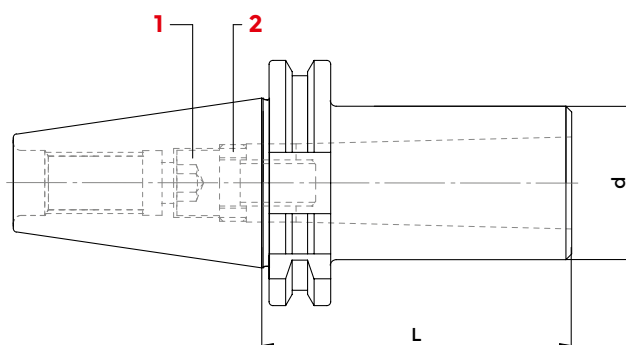
## INDEXABLE MORSE TAPER DRILL HOLDERS



### DIN69871 AD

| COD.      | DESCRIPTION        | ISO | CM | d  | L   |
|-----------|--------------------|-----|----|----|-----|
| 212-41214 | TC 30 - CM 1 PUNTE | 30  | 1  | 25 | 55  |
| 212-41215 | TC 30 - CM 2 PUNTE | 30  | 2  | 32 | 60  |
| 212-41216 | TC 30 - CM 3 PUNTE | 30  | 3  | 40 | 90  |
| 212-41201 | TC 40 - CM 1 PUNTE | 40  | 1  | 25 | 50  |
| 212-41202 | TC 40 - CM 2 PUNTE | 40  | 2  | 32 | 60  |
| 212-41203 | TC 40 - CM 3 PUNTE | 40  | 3  | 40 | 75  |
| 212-41204 | TC 40 - CM 4 PUNTE | 40  | 4  | 48 | 95  |
| 212-41205 | TC 50 - CM 1 PUNTE | 50  | 1  | 25 | 45  |
| 212-41206 | TC 50 - CM 2 PUNTE | 50  | 2  | 32 | 60  |
| 212-41207 | TC 50 - CM 3 PUNTE | 50  | 3  | 40 | 65  |
| 212-41208 | TC 50 - CM 4 PUNTE | 50  | 4  | 48 | 95  |
| 212-41209 | TC 50 - CM 5 PUNTE | 50  | 5  | 63 | 105 |

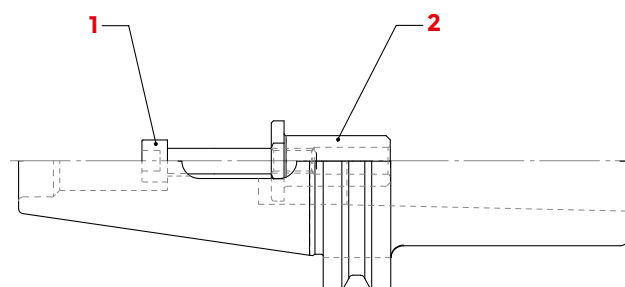
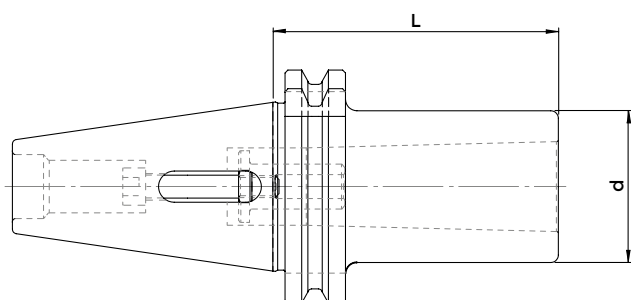
## END MILL HOLDERS FOR MORSE TAPER CUTTERS



### DIN69871 A - DIN 6357

| COD.      | DESCRIPTION       | ISO | MORSE | d  | L   | 1<br>SCREW                                                                            | 2<br>LEFT NUT                                                                         | 3<br>WRENCH                                                                           |
|-----------|-------------------|-----|-------|----|-----|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 3893      | TC 30- CM 3 FRESE | 30  | 3     | 40 | 80  |  |  |  |
| 5100      | TC 40- CM 1 FRESE | 40  | 1     | 25 | 50  | 7402                                                                                  | 811-302032                                                                            | 816-20206002                                                                          |
| 212-21202 | TC 40- CM 2 FRESE | 40  | 2     | 32 | 50  | 811-101029                                                                            | 811-302030                                                                            | 816-20204002                                                                          |
| 212-21203 | TC 40- CM 3 FRESE | 40  | 3     | 40 | 70  | 811-111007                                                                            | 811-302031                                                                            | 816-20205002                                                                          |
| 212-21204 | TC 40- CM 4 FRESE | 40  | 4     | 48 | 95  | 7403                                                                                  | 811-302032                                                                            | 816-20206002                                                                          |
| 3896      | TC 45- CM 4 FRESE | 45  | 4     | 48 | 110 | 7404                                                                                  | 811-302036                                                                            | 816-20207002                                                                          |
| 5101      | TC 50- CM 1 FRESE | 50  | 1     | 25 | 45  | 7407                                                                                  | 811-302036                                                                            | 816-20207002                                                                          |
| 212-21206 | TC 50- CM 2 FRESE | 50  | 2     | 32 | 50  | 811-101029                                                                            | 811-302030                                                                            | 816-20204002                                                                          |
| 212-21207 | TC 50- CM 3 FRESE | 50  | 3     | 40 | 65  | 811-111007                                                                            | 811-302031                                                                            | 816-20205002                                                                          |
| 212-21208 | TC 50- CM 4 FRESE | 50  | 4     | 48 | 95  | 7403                                                                                  | 811-302032                                                                            | 816-20206002                                                                          |
| 212-21209 | TC 50- CM 5 FRESE | 50  | 5     | 63 | 120 | 7407                                                                                  | 811-302036                                                                            | 816-20207002                                                                          |
|           |                   |     |       |    |     | 7408                                                                                  | 811-302034                                                                            | 816-20208002                                                                          |

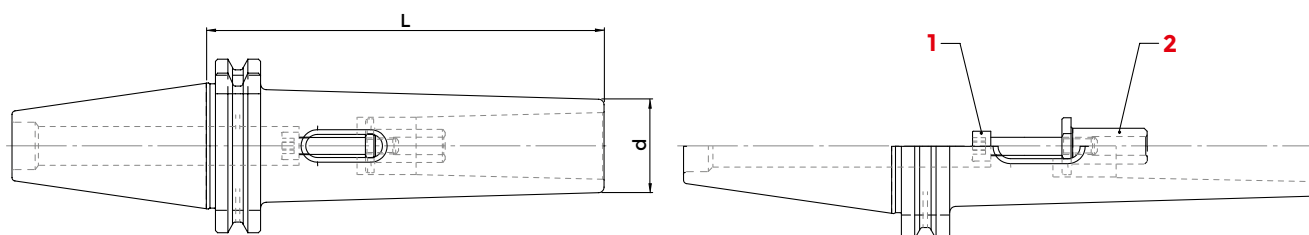
## COMBI MORSE TAPER HOLDERS FOR DRILLS AND MILLING CUTTERS



### DIN69871 AD - DIN 228-2 FORM C/D

| COD.      | DESCRIPTION       | ISO | MORSE | d  | L   | 1                                                                                   | 2                                                                                   |
|-----------|-------------------|-----|-------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|           |                   |     |       |    |     | SCREW                                                                               | REDUCER                                                                             |
|           |                   |     |       |    |     |  |  |
| 212-61201 | TC 40 - CM 1 P+ F | 40  | 1     | 25 | 50  | 7400                                                                                | -                                                                                   |
| 212-61202 | TC 40 - CM 2 P+ F | 40  | 2     | 32 | 60  | 7401                                                                                | -                                                                                   |
| 212-61203 | TC 40 - CM 3 P+ F | 40  | 3     | 40 | 75  | 7400                                                                                | 811-302006                                                                          |
| 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                                                                                |
| 212-61205 | TC 50 - CM 1 P+ F | 50  | 1     | 25 | 45  | 7400                                                                                | -                                                                                   |
| 212-61206 | TC 50 - CM 2 P+ F | 50  | 2     | 32 | 60  | 7405                                                                                | -                                                                                   |
| 212-61207 | TC 50 - CM 3 P+ F | 50  | 3     | 40 | 65  | 811-101070                                                                          | -                                                                                   |
| 212-61208 | TC 50 - CM 4 P+ F | 50  | 4     | 48 | 105 | 811-101070                                                                          | 811-302008                                                                          |

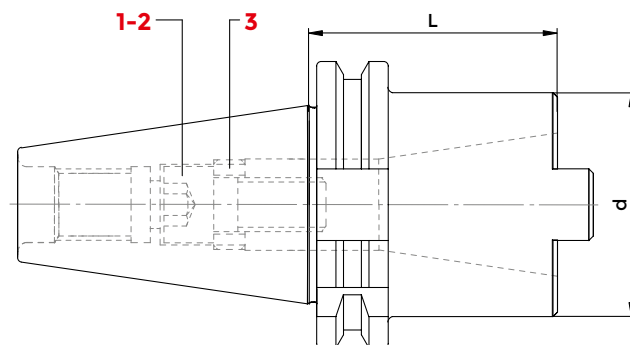
## COMBI MORSE TAPER HOLDERS FOR DRILLS AND MILLING CUTTERS - LONG SERIES



### DIN69871 AD - DIN 228-2 FORM C/D

| COD.<br>DRILLS | COD. DRILLS +<br>MILLING CUTTERS | DESCRIPTION  | ISO | MORSE | d  | L   | 1                                                                                   | 2                                                                                   |
|----------------|----------------------------------|--------------|-----|-------|----|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                |                                  |              |     |       |    |     | SCREW                                                                               | REDUCER                                                                             |
|                |                                  |              |     |       |    |     |  |  |
| 3778           | 212-61210                        | TC 40 - CM 1 | 40  | 1     | 18 | 120 | 7400                                                                                | -                                                                                   |
| 3779           | 212-61211                        | TC 40 - CM 2 | 40  | 2     | 25 | 120 | 7401                                                                                | -                                                                                   |
| 3780           | 212-61212                        | TC 40 - CM 3 | 40  | 3     | 33 | 140 | 7400                                                                                | 811-302006                                                                          |
| 4241           | -                                | TC 40 - CM 4 | 40  | 4     | 48 | 165 | -                                                                                   | -                                                                                   |
| 3745           | 212-61214                        | TC 50 - CM 1 | 50  | 1     | 18 | 120 | 7400                                                                                | -                                                                                   |
| 3746           | 212-61215                        | TC 50 - CM 2 | 50  | 2     | 25 | 140 | 7405                                                                                | -                                                                                   |
| 3747           | 212-61216                        | TC 50 - CM 3 | 50  | 3     | 33 | 150 | 811-101070                                                                          | -                                                                                   |
| 3748           | 212-61217                        | 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

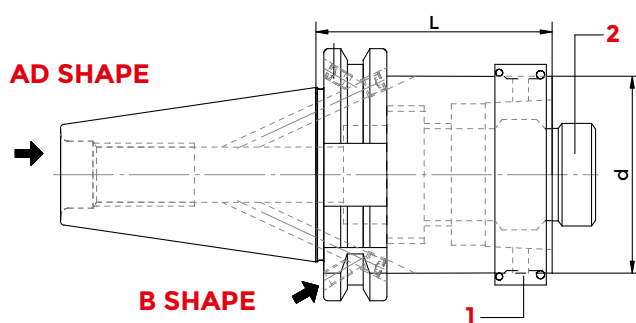


### DIN69871 A

| COD.      | DESCRIPTION                    | ISO | ISO | d   | L   | G6.3<br>8000 | 1                 | 2                     | 3          | WRENCH       |
|-----------|--------------------------------|-----|-----|-----|-----|--------------|-------------------|-----------------------|------------|--------------|
|           |                                |     |     |     |     |              | SCREW<br>DIN 2080 | SCREW BT<br>DIN 69871 | NUT        |              |
| 4203      | TC 40 - ISO 30 / TC 30 / BT 30 | 40  | 30  | 50  | 60  | •            | 811-101065        | 0177                  | 811-302032 | 816-20206002 |
| 212-11213 | TC 40 - ISO 40 / TC 40 / BT 40 | 40  | 40  | 68  | 100 | •            | 811-401147        | 811-401150            | 811-302036 | 816-20207002 |
| 212-11201 | TC 50 - ISO 40 / TC 40 / BT 40 | 50  | 40  | 68  | 70  | •            | 811-401147        | 811-401150            | 811-302036 | 816-20207002 |
| 212-11214 | TC 50 - ISO 50 / TC 50 / BT 50 | 50  | 50  | 100 | 120 | •            | 811-401151        | 811-401152            | 811-302047 | 816-202090   |

\* included in delivery

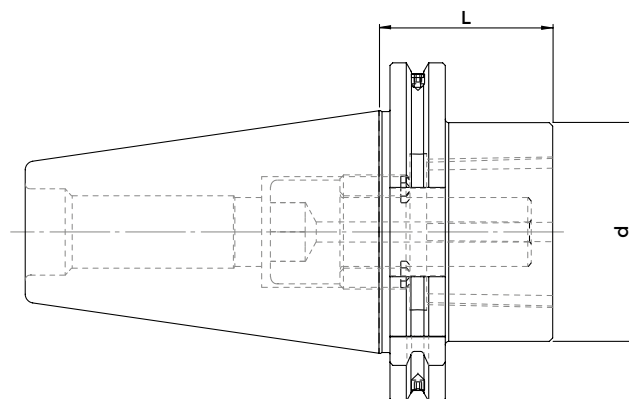
## ADAPTER FROM DIN69871(SK) TO DIN69893-1 (HSK A+C)



### DIN69871 AD/B

| COD.      | DESCRIPTION        | ISO | d  | L  | G6.3<br>8000 | 1               | 2                |
|-----------|--------------------|-----|----|----|--------------|-----------------|------------------|
|           |                    |     |    |    |              | LOCKING<br>RING | CLAMPING<br>UNIT |
| 212-91301 | TC 40 - HSK 50 A+C | 40  | 50 | 60 | •            | H50A-AN         | H50A-UBL         |
| 212-91302 | TC 40 - HSK 63 A+C | 40  | 63 | 80 | •            | H63A-AN         | H63A-UBL         |
| 212-91304 | TC 50 - HSK 63 A+C | 50  | 63 | 60 | •            | H63A-AN         | H63A-UBL         |

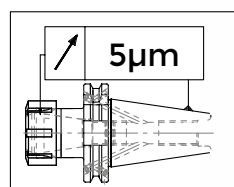
## ADAPTER FROM DIN69871(SK) TO ISO26623-1 (POLYGONAL)



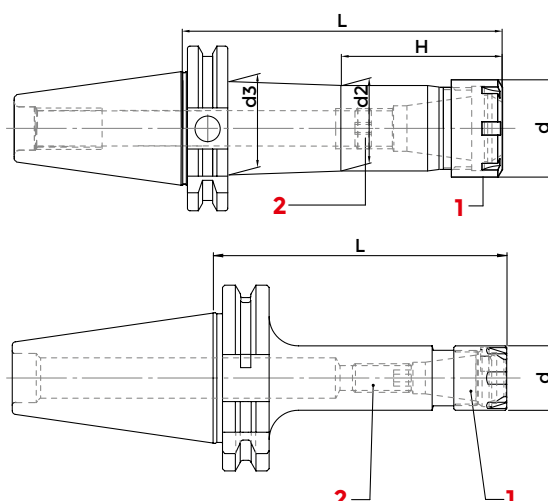
### DIN69871 AD/B

| COD.           | DESCRIPTION          | ISO | d  | L   | G6.3<br>8000 |
|----------------|----------------------|-----|----|-----|--------------|
| TC40H30C40ADB  | TC 40 - C 40 / H 30  | 40  | 40 | 30  | •            |
| TC40H60C40ADB  | TC 40 - C 40 / H 60  | 40  | 40 | 60  | •            |
| TC40H40C50ADB  | TC 40 - C 50 / H 40  | 40  | 50 | 40  | •            |
| TC40H85C63ADB  | TC 40 - C 63 / H 85  | 40  | 63 | 85  | •            |
| TC50H30C40ADB  | TC 50 - C 40 / H 30  | 50  | 40 | 30  | •            |
| TC50H60C40ADB  | TC 50 - C 40 / H 60  | 50  | 40 | 60  | •            |
| TC50H30C50ADB  | TC 50 - C 50 / H 30  | 50  | 50 | 30  | •            |
| TC50H70C50ADB  | TC 50 - C 50 / H 70  | 50  | 50 | 70  | •            |
| TC50H110C50ADB | TC 50 - C 50 / H 110 | 50  | 50 | 110 | •            |
| TC50H30C63ADB  | TC 50 - C 63 / H 30  | 50  | 63 | 30  | •            |
| TC50H50C63ADB  | TC 50 - C 63 / H 50  | 50  | 63 | 50  | •            |
| TC50H80C63ADB  | TC 50 - C 63 / H 80  | 50  | 63 | 80  | •            |
| TC50H70C80ADB  | TC 50 - C 80 / H 70  | 50  | 80 | 70  | •            |
| TC50H120C80ADB | 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.<br>(AD) | COD.<br>(AD+B) | DESCRIPTION                       | ISO | ER         | d  | d2 | d3 | H   | L   | G6.3<br>12000 | G6.3<br>15000 | 1 2        |            |            |        |
|--------------|----------------|-----------------------------------|-----|------------|----|----|----|-----|-----|---------------|---------------|------------|------------|------------|--------|
|              |                |                                   |     |            |    |    |    |     |     |               |               | NUT        | SCREW      | WRENCH     | COLLET |
| 214-91333    | 4720           | TC 40 - ER 11 GM / H 70 SLIM LINE | 40  | ER 11 1÷ 8 | 16 | 14 | 20 | 22  | 70  | -             | •             | 812-203012 | 811-102114 | 816-203008 | ER11   |
| 214-91334    | 4721           | TC 40 - ER 11 GM / H100 SLIM LINE | 40  | ER 11 1÷ 8 | 16 | 14 | 20 | 40  | 100 | -             | •             | 812-203012 | 811-102114 | 816-203008 | ER11   |
| 4057         | 4722           | TC 40 - ER 11 GM / H130 SLIM LINE | 40  | ER 11 1÷ 8 | 16 | 16 | -  | -   | 130 | -             | •             | 812-203012 | 811-102114 | 816-203008 | ER11   |
| 214-91335    | 4723           | TC 40 - ER 11 GM / H160 SLIM LINE | 40  | ER 11 1÷ 8 | 16 | 14 | 27 | 50  | 160 | -             | •             | 812-203012 | 811-102114 | 816-203008 | ER11   |
| 214-91336    | 4724           | TC 40 - ER 16 GM / H 70 SLIM LINE | 40  | ER 16 1÷12 | 22 | 20 | 25 | 27  | 70  | -             | •             | 812-203013 | 811-102038 | 816-203009 | ER16   |
| 214-91337    | 4748           | TC 40 - ER 16 GM / H100 SLIM LINE | 40  | ER 16 1÷12 | 22 | 20 | 26 | 47  | 100 | -             | •             | 812-203013 | 811-102038 | 816-203009 | ER16   |
| 264-31248    | 4749           | TC 40 - ER 16 GM / H130 SLIM LINE | 40  | ER 16 1÷12 | 22 | 22 | -  | -   | 130 | -             | •             | 812-203013 | 811-102038 | 816-203009 | ER16   |
| 214-91338    | 4021           | TC 40 - ER 16 GM / H160 SLIM LINE | 40  | ER 16 1÷12 | 22 | 20 | 26 | 97  | 160 | -             | •             | 812-203013 | 811-102038 | 816-203009 | ER16   |
| 3418         | 4026           | TC 40 - ER 16 GM / H200 SLIM LINE | 40  | ER 16 1÷12 | 22 | 22 | -  | -   | 200 | -             | •             | 812-203013 | 811-102038 | 816-203009 | ER16   |
| 214-91348    | 4000           | TC 40 - ER 20 GM / H 70 SLIM LINE | 40  | ER 20 1÷15 | 28 | 28 | -  | -   | 70  | -             | •             | 812-203014 | 811-106005 | 816-203010 | ER20   |
| 214-91349    | 4022           | TC 40 - ER 20 GM / H100 SLIM LINE | 40  | ER 20 1÷15 | 28 | 26 | 30 | 48  | 100 | -             | •             | 812-203014 | 811-106005 | 816-203010 | ER20   |
| 3434         | 4750           | TC 40 - ER 20 GM / H130 SLIM LINE | 40  | ER 20 1÷15 | 28 | 28 | -  | -   | 130 | -             | •             | 812-203014 | 811-106005 | 816-203010 | ER20   |
| 214-91350    | 4691           | TC 40 - ER 20 GM / H160 SLIM LINE | 40  | ER 20 1÷15 | 28 | 26 | 31 | 98  | 160 | -             | •             | 812-203014 | 811-106005 | 816-203010 | ER20   |
| 4017         | 4729           | TC 40 - ER 20 GM / H200 SLIM LINE | 40  | ER 20 1÷15 | 28 | 28 | -  | -   | 200 | -             | •             | 812-203014 | 811-106005 | 816-203010 | ER20   |
| 214-91339    | 4001           | TC 40 - ER 25 GM / H 70 SLIM LINE | 40  | ER 25 1÷20 | 35 | 35 | -  | -   | 70  | -             | •             | 812-203015 | 0190       | 816-203011 | ER25   |
| 214-91340    | 4751           | TC 40 - ER 25 GM / H100 SLIM LINE | 40  | ER 25 1÷20 | 35 | 35 | -  | -   | 100 | -             | •             | 812-203015 | 0190       | 816-203011 | ER25   |
| 3435         | 4730           | TC 40 - ER 25 GM / H130 SLIM LINE | 40  | ER 25 1÷20 | 35 | 35 | -  | -   | 130 | -             | •             | 812-203015 | 0190       | 816-203011 | ER25   |
| 214-91341    | 4752           | TC 40 - ER 25 GM / H160 SLIM LINE | 40  | ER 25 1÷20 | 35 | 35 | -  | -   | 160 | -             | •             | 812-203015 | 0190       | 816-203011 | ER25   |
| 3437         | 4753           | TC 40 - ER 25 GM / H200 SLIM LINE | 40  | ER 25 1÷20 | 35 | 35 | -  | -   | 200 | -             | •             | 812-203015 | 0190       | 816-203011 | ER25   |
| 214-91343    | 4046           | TC 50 - ER 16 GM / H100 SLIM LINE | 50  | ER 16 1÷12 | 22 | 22 | 26 | 47  | 100 | •             | -             | 812-203013 | 0190       | 816-203009 | ER16   |
| 3440         | 4756           | TC 50 - ER 16 GM / H130 SLIM LINE | 50  | ER 16 1÷12 | 22 | 22 | -  | -   | 130 | •             | -             | 812-203013 | 0190       | 816-203009 | ER16   |
| 214-91344    | 4693           | TC 50 - ER 16 GM / H160 SLIM LINE | 50  | ER 16 1÷12 | 22 | 22 | 28 | 97  | 160 | •             | -             | 812-203013 | 0190       | 816-203009 | ER16   |
| 4019         | 4757           | TC 50 - ER 16 GM / H200 SLIM LINE | 50  | ER 16 1÷12 | 22 | 22 | -  | -   | 200 | •             | -             | 812-203013 | 0190       | 816-203009 | ER16   |
| 214-91352    | 4047           | TC 50 - ER 20 GM / H100 SLIM LINE | 50  | ER 20 1÷15 | 28 | 28 | 32 | 48  | 100 | •             | -             | 812-203014 | 811-106005 | 816-203010 | ER20   |
| 3441         | 4758           | TC 50 - ER 20 GM / H130 SLIM LINE | 50  | ER 20 1÷15 | 28 | 28 | -  | -   | 130 | •             | -             | 812-203014 | 811-106005 | 816-203010 | ER20   |
| 214-91353    | 4760           | TC 50 - ER 20 GM / H160 SLIM LINE | 50  | ER 20 1÷15 | 28 | 28 | 32 | 98  | 160 | •             | -             | 812-203014 | 811-106005 | 816-203010 | ER20   |
| 3012         | 4070           | TC 50 - ER 20 GM / H200 SLIM LINE | 50  | ER 20 1÷15 | 28 | 28 | -  | -   | 200 | •             | -             | 812-203014 | 811-106005 | 816-203010 | ER20   |
| 214-91346    | 4071           | TC 50 - ER 25 GM / H100 SLIM LINE | 50  | ER 25 1÷20 | 35 | 35 | -  | -   | 100 | •             | -             | 812-203015 | 0190       | 816-203011 | ER25   |
| 3024         | 4483           | TC 50 - ER 25 GM / H130 SLIM LINE | 50  | ER 25 1÷20 | 35 | 35 | -  | -   | 130 | •             | -             | 812-203015 | 0190       | 816-203011 | ER25   |
| 214-91347    | 4759           | TC 50 - ER 25 GM / H160 SLIM LINE | 50  | ER 25 1÷20 | 35 | 35 | 40 | 103 | 160 | •             | -             | 812-203015 | 0190       | 816-203011 | ER25   |
| 3025         | 4484           | TC 50 - ER 25 GM / H200 SLIM LINE | 50  | ER 25 1÷20 | 35 | 35 | -  | -   | 200 | •             | -             | 812-203015 | 0190       | 816-203011 | ER25   |

#### ACCESSORIES

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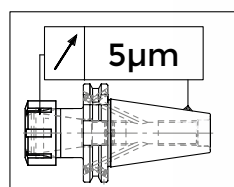
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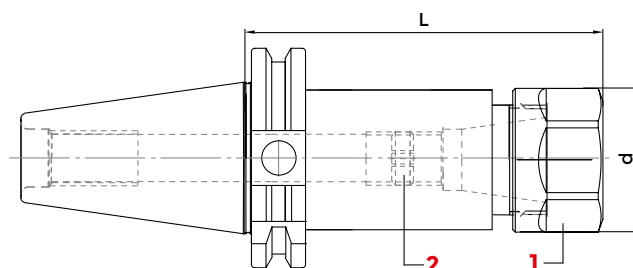
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## ER COLLET CHUCK WITH HEXAGONAL NUT



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



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

| COD.<br>(AD) | COD.<br>(AD+B) | DESCRIPTION              | ISO | ER         | d  | L   | G6,3<br>8000 | 1 2                                                                                 |                                                                                     |                                                                                     |                                                                                     |
|--------------|----------------|--------------------------|-----|------------|----|-----|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              |                |                          |     |            |    |     |              | NUT                                                                                 | SCREW                                                                               | WRENCH                                                                              | COLLET                                                                              |
|              |                |                          |     |            |    |     |              |  |  |  |  |
| 8048         | -              | TC 30 - ER 16 GE / H 55  | 30  | ER 16 1÷12 | 28 | 55  | •            | 812-203009                                                                          | 811-102030                                                                          | 816-203012                                                                          | ER16                                                                                |
| 8049         | -              | TC 30 - ER 16 GE / H 100 | 30  | ER 16 1÷12 | 28 | 100 | •            | 812-203009                                                                          | 811-102030                                                                          | 816-203012                                                                          | ER16                                                                                |
| 8050         | -              | TC 30 - ER 20 GE / H 55  | 30  | ER 20 1÷15 | 34 | 55  | •            | 812-203010                                                                          | 811-102030                                                                          | 816-203013                                                                          | ER20                                                                                |
| 8051         | -              | TC 30 - ER 20 GE / H 100 | 30  | ER 20 1÷15 | 34 | 100 | •            | 812-203010                                                                          | 811-102030                                                                          | 816-203013                                                                          | ER20                                                                                |
| 3336         | 4725           | TC 40 - ER 11 GE / H 70  | 40  | ER 11 1÷ 8 | 19 | 70  | •            | 812-203008                                                                          | 811-102114                                                                          | 2905                                                                                | ER11                                                                                |
| 3337         | 4726           | TC 40 - ER 11 GE / H 100 | 40  | ER 11 1÷ 8 | 19 | 100 | •            | 812-203008                                                                          | 811-102114                                                                          | 2905                                                                                | ER11                                                                                |
| 3338         | 4727           | TC 40 - ER 11 GE / H 130 | 40  | ER 11 1÷ 8 | 19 | 130 | •            | 812-203008                                                                          | 811-102114                                                                          | 2905                                                                                | ER11                                                                                |
| 3339         | 4728           | TC 40 - ER 11 GE / H 160 | 40  | ER 11 1÷ 8 | 19 | 160 | •            | 812-203008                                                                          | 811-102114                                                                          | 2905                                                                                | ER11                                                                                |
| 214-31241EXA | 8068           | TC 40 - ER 16 GE / H 70  | 40  | ER 16 1÷12 | 28 | 70  | •            | 812-203009                                                                          | 811-102038                                                                          | 816-203012                                                                          | ER16                                                                                |
| 214-31242EXA | 8069           | TC 40 - ER 16 GE / H 100 | 40  | ER 16 1÷12 | 28 | 100 | •            | 812-203009                                                                          | 811-102038                                                                          | 816-203012                                                                          | ER16                                                                                |
| 8054         | 8070           | TC 40 - ER 16 GE / H 130 | 40  | ER 16 1÷12 | 28 | 130 | •            | 812-203009                                                                          | 811-102038                                                                          | 816-203012                                                                          | ER16                                                                                |
| 8055         | 8071           | TC 40 - ER 16 GE / H 160 | 40  | ER 16 1÷12 | 28 | 160 | •            | 812-203009                                                                          | 811-102038                                                                          | 816-203012                                                                          | ER16                                                                                |
| 8056         | 8072           | TC 40 - ER 16 GE / H 200 | 40  | ER 16 1÷12 | 28 | 200 | •            | 812-203009                                                                          | 811-102038                                                                          | 816-203012                                                                          | ER16                                                                                |
| 214-31238EXA | 8073           | TC 40 - ER 20 GE / H 70  | 40  | ER 20 1÷15 | 34 | 70  | •            | 812-203010                                                                          | 811-106005                                                                          | 816-203013                                                                          | ER20                                                                                |
| 8058         | 8074           | TC 40 - ER 20 GE / H 100 | 40  | ER 20 1÷15 | 34 | 100 | •            | 812-203010                                                                          | 811-106005                                                                          | 816-203013                                                                          | ER20                                                                                |
| 8059         | 8075           | TC 40 - ER 20 GE / H 130 | 40  | ER 20 1÷15 | 34 | 130 | •            | 812-203010                                                                          | 811-106005                                                                          | 816-203013                                                                          | ER20                                                                                |
| 8060         | 8076           | TC 40 - ER 20 GE / H 160 | 40  | ER 20 1÷15 | 34 | 160 | •            | 812-203010                                                                          | 811-106005                                                                          | 816-203013                                                                          | ER20                                                                                |
| 8061         | 8077           | TC 40 - ER 20 GE / H 200 | 40  | ER 20 1÷15 | 34 | 200 | •            | 812-203010                                                                          | 811-106005                                                                          | 816-203013                                                                          | ER20                                                                                |
| 8062         | 8078           | TC 50 - ER 16 GE / H 100 | 50  | ER 16 1÷12 | 28 | 100 | •            | 812-203009                                                                          | 811-102038                                                                          | 816-203012                                                                          | ER16                                                                                |
| 8063         | 8079           | TC 50 - ER 16 GE / H 160 | 50  | ER 16 1÷12 | 28 | 160 | •            | 812-203009                                                                          | 811-102038                                                                          | 816-203012                                                                          | ER16                                                                                |
| 8064         | 8080           | TC 50 - ER 16 GE / H 200 | 50  | ER 16 1÷12 | 28 | 200 | •            | 812-203009                                                                          | 811-102038                                                                          | 816-203012                                                                          | ER16                                                                                |
| 8065         | 8081           | TC 50 - ER 20 GE / H 100 | 50  | ER 20 1÷15 | 34 | 100 | •            | 812-203010                                                                          | 811-106005                                                                          | 816-203013                                                                          | ER20                                                                                |
| 8066         | 8082           | TC 50 - ER 20 GE / H 160 | 50  | ER 20 1÷15 | 34 | 160 | •            | 812-203010                                                                          | 811-106005                                                                          | 816-203013                                                                          | ER20                                                                                |
| 8067         | 8083           | TC 50 - ER 20 GE / H 200 | 50  | ER 20 1÷15 | 34 | 200 | •            | 812-203010                                                                          | 811-106005                                                                          | 816-203013                                                                          | ER20                                                                                |

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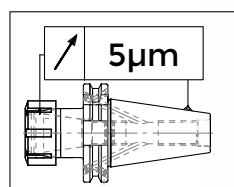
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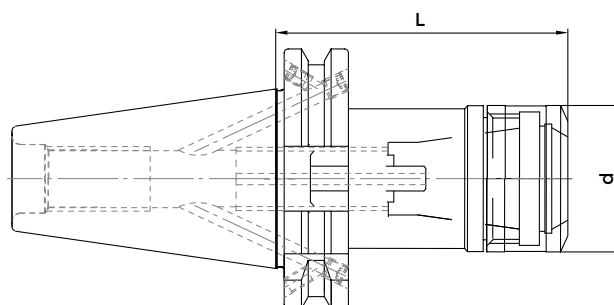
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## ER COLLET CHUCKS - HIGH PRECISION

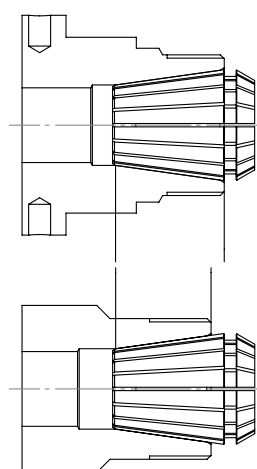


H= 0 > 100 mm - 5 µm  
H= 100 > 200 mm - 10 µm



### DIN 69871 AD/B

| COD.      | DESCRIPTION     | ISO | L   | d  | ER | G2.5<br>30000 | NUT        | WRENCH     |
|-----------|-----------------|-----|-----|----|----|---------------|------------|------------|
| 214-91355 | TC40H70ER16-HP  | 40  | 70  | 30 | 16 | •             | 812-203085 | 816-203069 |
| 214-91356 | TC40H70ER25-HP  | 40  | 70  | 40 | 25 | •             | 812-203086 | 816-203070 |
| 214-91357 | TC40H70ER32-HP  | 40  | 70  | 50 | 32 | •             | 812-203087 | 816-203071 |
| 214-91359 | TC40H100ER16-HP | 40  | 100 | 30 | 16 | •             | 812-203087 | 816-203071 |
| 214-91360 | TC40H100ER25-HP | 40  | 100 | 40 | 25 | •             | 812-203085 | 816-203069 |
| 214-91362 | TC40H100ER32-HP | 40  | 100 | 50 | 32 | •             | 812-203086 | 816-203070 |
| 214-91363 | TC50H100ER16-HP | 50  | 100 | 30 | 16 | •             | 812-203087 | 816-203071 |
| 214-91364 | TC50H100ER25-HP | 50  | 100 | 40 | 25 | •             | 812-203085 | 816-203069 |
| 214-91367 | TC50H70ER32-HP  | 50  | 70  | 50 | 32 | •             | 812-203086 | 816-203070 |
| 214-91365 | 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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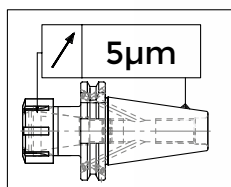


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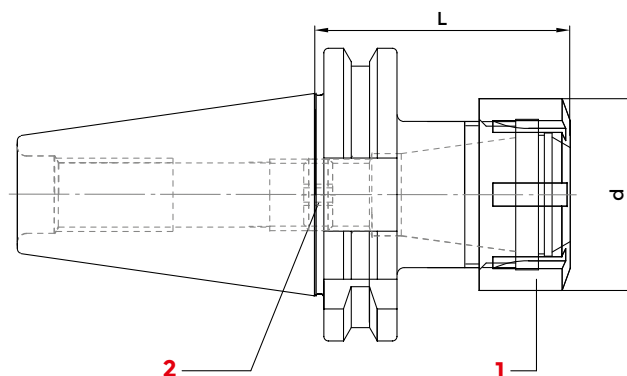




## ER COLLET CHUCKS



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

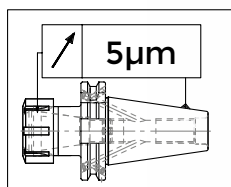


### DIN 69871 AD/B - DIN6499/ISO15488

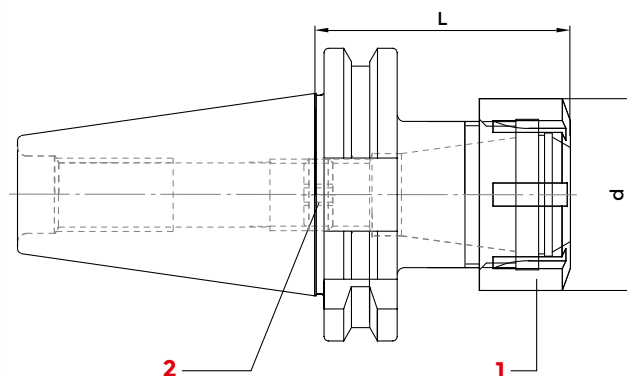
| COD.<br>(AD) | COD.<br>(AD+B) | DESCRIPTION           | ISO | ER         | d  | L   | G6,3<br>12000 | G6,3<br>15000 | 1 2                                                                                 |                                                                                     |                                                                                     |                                                                                     |
|--------------|----------------|-----------------------|-----|------------|----|-----|---------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              |                |                       |     |            |    |     |               |               | NUT                                                                                 | SCREW                                                                               | WRENCH                                                                              | COLLET                                                                              |
|              |                |                       |     |            |    |     |               |               |  |  |  |  |
| 214-31211    | -              | TC 30 - ER 16 / H 55  | 30  | ER 16 1÷12 | 32 | 55  | -             | •             | 812-203005 811-102030                                                               | 816-203000                                                                          |                                                                                     | ER16                                                                                |
| 214-31213    | -              | TC 30 - ER 16 / H 100 | 30  | ER 16 1÷12 | 32 | 100 | -             | •             | 812-203005 811-102030                                                               | 816-203000                                                                          |                                                                                     | ER16                                                                                |
| 264-31236    | -              | TC 30 - ER 20 / H 55  | 30  | ER 20 1÷15 | 35 | 55  | -             | •             | 812-203006 811-102030                                                               | 816-203005                                                                          |                                                                                     | ER20                                                                                |
| 3374         | -              | TC 30 - ER 20 / H 100 | 30  | ER 20 1÷15 | 35 | 100 | -             | •             | 812-203006 811-102030                                                               | 816-203005                                                                          |                                                                                     | ER20                                                                                |
| 214-31212    | -              | TC 30 - ER 25 / H 55  | 30  | ER 25 1÷20 | 42 | 55  | -             | •             | 812-203001 0190                                                                     | 816-203001                                                                          |                                                                                     | ER25                                                                                |
| 3375         | -              | TC 30 - ER 25 / H 100 | 30  | ER 25 1÷20 | 42 | 100 | -             | •             | 812-203001 0190                                                                     | 816-203001                                                                          |                                                                                     | ER25                                                                                |
| 214-31228    | -              | TC 30 - ER 32 / H 60  | 30  | ER 32 2÷25 | 50 | 60  | -             | •             | 812-203002 811-303118                                                               | 816-203002                                                                          |                                                                                     | ER32                                                                                |
| 3376         | -              | TC 30 - ER 32 / H 100 | 30  | ER 32 2÷25 | 50 | 100 | -             | •             | 812-203002 811-303118                                                               | 816-203002                                                                          |                                                                                     | ER32                                                                                |
| 3336         | 4725           | TC 40 - ER 11 / H 70  | 40  | ER 11 1÷8  | 19 | 100 | -             | •             | 1157 GE                                                                             | 811-102114                                                                          | 2905 CE                                                                             | ER11                                                                                |
| 3337         | 4726           | TC 40 - ER 11 / H 100 | 40  | ER 11 1÷8  | 19 | 70  | -             | •             | 1157 GE                                                                             | 811-102114                                                                          | 2905 CE                                                                             | ER11                                                                                |
| 3338         | 4727           | TC 40 - ER 11 / H 130 | 40  | ER 11 1÷8  | 19 | 100 | -             | •             | 1157 GE                                                                             | 811-102114                                                                          | 2905 CE                                                                             | ER11                                                                                |
| 3339         | 4728           | TC 40 - ER 11 / H 160 | 40  | ER 11 1÷8  | 19 | 130 | -             | •             | 1157 GE                                                                             | 811-102114                                                                          | 2905 CE                                                                             | ER11                                                                                |
| 214-31241    | 214-31362      | TC 40 - ER 16 / H 70  | 40  | ER 16 1÷12 | 32 | 160 | -             | •             | 812-203005 811-102038                                                               | 816-203000                                                                          |                                                                                     | ER16                                                                                |
| 214-31242    | 214-31363      | TC 40 - ER 16 / H 100 | 40  | ER 16 1÷12 | 32 | 100 | -             | •             | 812-203005 811-102038                                                               | 816-203000                                                                          |                                                                                     | ER16                                                                                |
| 214-31385    | 4754           | TC 40 - ER 16 / H 130 | 40  | ER 16 1÷12 | 32 | 130 | -             | •             | 812-203005 811-102038                                                               | 816-203000                                                                          |                                                                                     | ER16                                                                                |
| 214-31359    | 4702           | TC 40 - ER 16 / H 160 | 40  | ER 16 1÷12 | 32 | 160 | -             | •             | 812-203005 811-102038                                                               | 816-203000                                                                          |                                                                                     | ER16                                                                                |
| 214-31369    | 4755           | TC 40 - ER 16 / H 200 | 40  | ER 16 1÷12 | 32 | 200 | -             | •             | 812-203005 811-102038                                                               | 816-203000                                                                          |                                                                                     | ER16                                                                                |
| 214-31238    | 214-31383      | TC 40 - ER 20 / H 70  | 40  | ER 20 1÷15 | 35 | 70  | -             | •             | 812-203006 811-106005                                                               | 816-203005                                                                          |                                                                                     | ER20                                                                                |
| 214-31257    | 214-31384      | TC 40 - ER 20 / H 100 | 40  | ER 20 1÷15 | 35 | 100 | -             | •             | 812-203006 811-106005                                                               | 816-203005                                                                          |                                                                                     | ER20                                                                                |
| 214-31386    | 4830           | TC 40 - ER 20 / H 130 | 40  | ER 20 1÷15 | 35 | 130 | -             | •             | 812-203006 811-106005                                                               | 816-203005                                                                          |                                                                                     | ER20                                                                                |
| 3100         | 4705           | TC 40 - ER 20 / H 160 | 40  | ER 20 1÷15 | 35 | 160 | -             | •             | 812-203006 811-106005                                                               | 816-203005                                                                          |                                                                                     | ER20                                                                                |
| 3104         | 4831           | TC 40 - ER 20 / H 200 | 40  | ER 20 1÷15 | 35 | 200 | -             | •             | 812-203006 811-106005                                                               | 816-203005                                                                          |                                                                                     | ER20                                                                                |
| 214-31201    | 214-31329      | TC 40 - ER 25 / H 70  | 40  | ER 25 1÷20 | 42 | 70  | -             | •             | 812-203001 0190                                                                     | 816-203001                                                                          |                                                                                     | ER25                                                                                |
| 214-31232    | 214-31347      | TC 40 - ER 25 / H 100 | 40  | ER 25 1÷20 | 42 | 100 | -             | •             | 812-203001 0190                                                                     | 816-203001                                                                          |                                                                                     | ER25                                                                                |
| 214-31387    | 4708           | TC 40 - ER 25 / H 130 | 40  | ER 25 1÷20 | 42 | 130 | -             | •             | 812-203001 0190                                                                     | 816-203001                                                                          |                                                                                     | ER25                                                                                |
| 214-31345    | 4709           | TC 40 - ER 25 / H 160 | 40  | ER 25 1÷20 | 42 | 160 | -             | •             | 812-203001 0190                                                                     | 816-203001                                                                          |                                                                                     | ER25                                                                                |
| 214-31370    | 4832           | TC 40 - ER 25 / H 200 | 40  | ER 25 1÷20 | 42 | 200 | -             | •             | 812-203001 0190                                                                     | 816-203001                                                                          |                                                                                     | ER25                                                                                |
| 214-31202    | 214-31331      | TC 40 - ER 32 / H 70  | 40  | ER 32 2÷25 | 50 | 70  | -             | •             | 812-203002 811-303118                                                               | 816-203002                                                                          |                                                                                     | ER32                                                                                |
| 214-31230    | 214-31348      | TC 40 - ER 32 / H 100 | 40  | ER 32 2÷25 | 50 | 100 | -             | •             | 812-203002 811-303118                                                               | 816-203002                                                                          |                                                                                     | ER32                                                                                |
| 214-31389    | 4712           | TC 40 - ER 32 / H 130 | 40  | ER 32 2÷25 | 50 | 130 | -             | •             | 812-203002 811-303118                                                               | 816-203002                                                                          |                                                                                     | ER32                                                                                |
| 214-31346    | 4713           | TC 40 - ER 32 / H 160 | 40  | ER 32 2÷25 | 50 | 160 | -             | •             | 812-203002 811-303118                                                               | 816-203002                                                                          |                                                                                     | ER32                                                                                |
| 214-31371    | 4076           | TC 40 - ER 32 / H 200 | 40  | ER 32 2÷25 | 50 | 200 | -             | •             | 812-203002 811-303118                                                               | 816-203002                                                                          |                                                                                     | ER32                                                                                |
| 214-31215    | 214-31333      | TC 40 - ER 40 / H 70  | 40  | ER 40 3÷32 | 63 | 70  | -             | •             | 812-203003 0195                                                                     | 816-203003                                                                          |                                                                                     | ER40                                                                                |
| 214-31286    | 214-31364      | TC 40 - ER 40 / H 100 | 40  | ER 40 3÷32 | 63 | 100 | -             | •             | 812-203003 0195                                                                     | 816-203003                                                                          |                                                                                     | ER40                                                                                |
| 214-31390    | 4716           | TC 40 - ER 40 / H 130 | 40  | ER 40 3÷32 | 63 | 130 | -             | •             | 812-203003 0195                                                                     | 816-203003                                                                          |                                                                                     | ER40                                                                                |
| 214-31366    | 4717           | TC 40 - ER 40 / H 160 | 40  | ER 40 3÷32 | 63 | 160 | -             | •             | 812-203003 0195                                                                     | 816-203003                                                                          |                                                                                     | ER40                                                                                |

follows >>

## ER COLLET CHUCKS



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



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

| COD.<br>(AD) | COD.<br>(AD+B) | DESCRIPTION           | ISO | ER         | d  | L   | G6,3<br>12000 | G6,3<br>15000 | 1 2                   |            |        |        |
|--------------|----------------|-----------------------|-----|------------|----|-----|---------------|---------------|-----------------------|------------|--------|--------|
|              |                |                       |     |            |    |     |               |               | NUT                   | SCREW      | WRENCH | COLLET |
| 3103         | 4718           | TC 40 - ER 40 / H 200 | 40  | ER 40 3÷32 | 63 | 200 | -             | •             | 812-203003 0195       | 816-203003 |        | ER40   |
| 154          | 4719           | TC 40 - ER 50 / H 85  | 40  | ER 50 6÷36 | 78 | 85  | -             | •             | 812-203007 0195       | 816-203004 |        | ER50   |
| 3353         | -              | TC 45 - ER 32 / H 70  | 45  | ER 32 2÷25 | 50 | 70  | -             | •             | 812-203002 811-303118 | 816-203002 |        | ER32   |
| 3106         | -              | TC 45 - ER 32 / H 100 | 45  | ER 32 2÷25 | 50 | 100 | -             | •             | 812-203002 811-303118 | 816-203002 |        | ER32   |
| 3354         | -              | TC 45 - ER 32 / H 130 | 45  | ER 32 2÷25 | 50 | 130 | -             | •             | 812-203002 811-303118 | 816-203002 |        | ER32   |
| 184          | -              | TC 45 - ER 32 / H 160 | 45  | ER 32 2÷25 | 50 | 160 | -             | •             | 812-203002 811-303118 | 816-203002 |        | ER32   |
| 3355         | -              | TC 45 - ER 40 / H 80  | 45  | ER 40 3÷32 | 63 | 80  | -             | •             | 812-203003 0195       | 816-203003 |        | ER40   |
| 5130         | 5134           | TC 50 - ER 16 / H 70  | 50  | ER 16 1÷12 | 32 | 70  | •             | -             | 812-203005 811-102038 | 816-203000 |        | ER20   |
| 214-31365    | 4731           | TC 50 - ER 16 / H 100 | 50  | ER 16 1÷12 | 32 | 100 | •             | -             | 812-203005 811-102038 | 816-203000 |        | ER20   |
| 214-31367    | 4732           | TC 50 - ER 16 / H 160 | 50  | ER 16 1÷12 | 32 | 160 | •             | -             | 812-203005 811-102038 | 816-203000 |        | ER20   |
| 214-31373    | 4806           | TC 50 - ER 16 / H 200 | 50  | ER 16 1÷12 | 32 | 200 | •             | -             | 812-203005 811-102038 | 816-203000 |        | ER20   |
| 264-31234    | -              | TC 50 - ER 20 / H 70  | 50  | ER 20 1÷15 | 35 | 70  | •             | -             | 812-203006 811-106005 | 816-203005 |        | ER20   |
| 214-31380    | 4733           | TC 50 - ER 20 / H 100 | 50  | ER 20 1÷15 | 35 | 100 | •             | -             | 812-203006 811-106005 | 816-203005 |        | ER20   |
| 3111         | 4734           | TC 50 - ER 20 / H 160 | 50  | ER 20 1÷15 | 35 | 160 | •             | -             | 812-203006 811-106005 | 816-203005 |        | ER20   |
| 3112         | 4807           | TC 50 - ER 20 / H 200 | 50  | ER 20 1÷15 | 35 | 200 | •             | -             | 812-203006 811-106005 | 816-203005 |        | ER20   |
| 214-31250    | 214-31341      | TC 50 - ER 25 / H 70  | 50  | ER 25 1÷20 | 42 | 70  | •             | -             | 812-203001 0190       | 816-203001 |        | ER25   |
| 214-31342    | 4736           | TC 50 - ER 25 / H 100 | 50  | ER 25 1÷20 | 42 | 100 | •             | -             | 812-203001 0190       | 816-203001 |        | ER25   |
| 214-31368    | 4737           | TC 50 - ER 25 / H 160 | 50  | ER 25 1÷20 | 42 | 160 | •             | -             | 812-203001 0190       | 816-203001 |        | ER25   |
| 214-31374    | 4808           | TC 50 - ER 25 / H 200 | 50  | ER 25 1÷20 | 42 | 200 | •             | -             | 812-203001 0190       | 816-203001 |        | ER25   |
| 214-31203    | 214-31335      | TC 50 - ER 32 / H 70  | 50  | ER 32 2÷25 | 50 | 70  | •             | -             | 812-203002 811-303118 | 816-203002 |        | ER32   |
| 214-31336    | 4739           | TC 50 - ER 32 / H 100 | 50  | ER 32 2÷25 | 50 | 100 | •             | -             | 812-203002 811-303118 | 816-203002 |        | ER32   |
| 3362         | 4740           | TC 50 - ER 32 / H 130 | 50  | ER 32 2÷25 | 50 | 130 | •             | -             | 812-203002 811-303118 | 816-203002 |        | ER32   |
| 214-31337    | 4741           | TC 50 - ER 32 / H 160 | 50  | ER 32 2÷25 | 50 | 160 | •             | -             | 812-203002 811-303118 | 816-203002 |        | ER32   |
| 214-31375    | 4742           | TC 50 - ER 32 / H 200 | 50  | ER 32 2÷25 | 50 | 200 | •             | -             | 812-203002 811-303118 | 816-203002 |        | ER32   |
| 3382         | 4809           | TC 50 - ER 32 / H 250 | 50  | ER 32 2÷25 | 50 | 250 | •             | -             | 812-203002 811-303118 | 816-203002 |        | ER32   |
| 214-31204    | 214-31338      | TC 50 - ER 40 / H 80  | 50  | ER 40 3÷32 | 63 | 80  | •             | -             | 812-203003 0195       | 816-203003 |        | ER40   |
| 214-31339    | 4744           | TC 50 - ER 40 / H 100 | 50  | ER 40 3÷32 | 63 | 100 | •             | -             | 812-203003 0195       | 816-203003 |        | ER40   |
| 3366         | 4745           | TC 50 - ER 40 / H 130 | 50  | ER 40 3÷32 | 63 | 130 | •             | -             | 812-203003 0195       | 816-203003 |        | ER40   |
| 214-31340    | 4746           | TC 50 - ER 40 / H 160 | 50  | ER 40 3÷32 | 63 | 160 | •             | -             | 812-203003 0195       | 816-203003 |        | ER40   |
| 214-31376    | 4747           | TC 50 - ER 40 / H 200 | 50  | ER 40 3÷32 | 63 | 200 | •             | -             | 812-203003 0195       | 816-203003 |        | ER40   |
| 3369         | 4810           | TC 50 - ER 50 / H 100 | 50  | ER 50 6÷36 | 78 | 100 | •             | -             | 812-203007 0195       | 816-203004 |        | ER50   |
| 8044         | 8045           | TC 50 - ER 50 / H 160 | 50  | ER 50 6÷36 | 78 | 160 | •             | -             | 812-203007 0195       | 816-203004 |        | ER50   |

#### ACCESSORIES

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



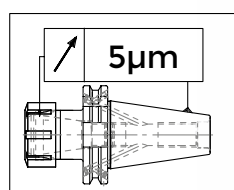
| COD. | DESCRIPTION                  | ISO | 1                                                                                 | 2                                                                                 | WRENCH                                                                              | COLLET                                                                              |
|------|------------------------------|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|      |                              |     | CHUCK                                                                             | CASE                                                                              |                                                                                     |                                                                                     |
|      |                              |     |  |  |  |  |
| 7772 | KIT Rid TC 40 / H 70 - ER 25 | 40  | 214-31201                                                                         | 7022                                                                              | 816-203001                                                                          | ER25D: Ø 4 - 6 - 8 -10 -12 -16                                                      |
| 7773 | KIT Rid TC 40 / H 70 - ER 32 | 40  | 214-31202                                                                         | 7023                                                                              | 816-203002                                                                          | ER32D: Ø 4 - 6 - 8 -10 -12 -16 - 20                                                 |
| 7774 | KIT Rid TC 40 / H 70 - ER 40 | 40  | 214-31215                                                                         | 7024                                                                              | 816-203003                                                                          | ER40D: Ø 4 - 6 - 8 -10 -12 -16 - 20 -25                                             |
| 7775 | KIT Rid TC 50 / H 70 - ER 32 | 50  | 214-31203                                                                         | 7023                                                                              | 816-203002                                                                          | ER32D: Ø 4 - 6 - 8 -10 -12 -16 - 20                                                 |
| 7776 | KIT Rid TC 50 / H 80 - ER 40 | 50  | 214-31204                                                                         | 7024                                                                              | 816-203003                                                                          | ER40D: Ø 4 - 6 - 8 -10 -12 -16 - 20 -25                                             |

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

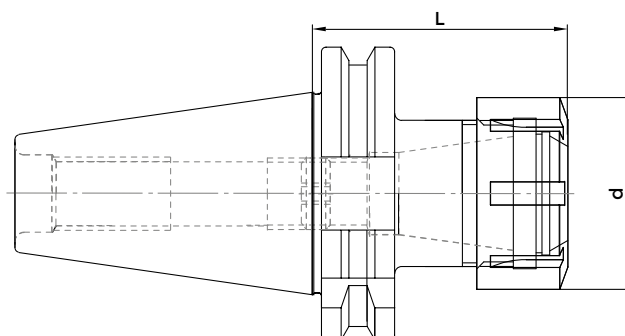


| COD. | DESCRIPTION             | ISO | 1                                                                                   | 2                                                                                   | WRENCH                                                                                | COLLET                                                                                |
|------|-------------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|      |                         |     | CHUCK                                                                               | CASE                                                                                |                                                                                       |                                                                                       |
|      |                         |     |  |  |  |  |
| 7779 | KIT TC 40 / H 70 - ER25 | 40  | 214-31201                                                                           | 7022                                                                                | 816-203001                                                                            | ER25D: Ø 2 ÷ 16 (15 Pinze)                                                            |
| 7780 | KIT TC 40 / H 70 - ER32 | 40  | 214-31202                                                                           | 7023                                                                                | 816-203002                                                                            | ER32D: Ø 3 ÷ 20 (18 Pinze)                                                            |
| 7781 | KIT TC 40 / H 70 - ER40 | 40  | 214-31215                                                                           | 7024                                                                                | 816-203003                                                                            | ER40D: Ø 4 ÷ 26 (23 Pinze)                                                            |
| 7782 | KIT TC 50 / H 70 - ER32 | 50  | 214-31203                                                                           | 7023                                                                                | 816-203002                                                                            | ER32D: Ø 3 ÷ 20 (18 Pinze)                                                            |
| 7783 | KIT TC 50 / H 80 - ER40 | 50  | 214-31204                                                                           | 7024                                                                                | 816-203003                                                                            | ER40D: 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<br>30000 |
|-----------|--------------|-----|----|----|-----|---------------|
| 214-91301 | TC40H70ER16  | 40  | 16 | 32 | 70  | •             |
| 214-91324 | TC40H70ER20  | 40  | 20 | 35 | 70  | •             |
| 214-91302 | TC40H70ER25  | 40  | 25 | 42 | 70  | •             |
| 214-91303 | TC40H70ER32  | 40  | 32 | 50 | 70  | •             |
| 214-91304 | TC40H70ER40  | 40  | 40 | 63 | 70  | •             |
| 214-91306 | TC50H70ER32  | 50  | 32 | 50 | 70  | •             |
| 214-91308 | TC40H100ER16 | 40  | 16 | 32 | 100 | •             |
| 214-91325 | TC40H100ER20 | 40  | 20 | 35 | 100 | •             |
| 214-91309 | TC40H100ER25 | 40  | 25 | 42 | 100 | •             |
| 214-91310 | TC40H100ER32 | 40  | 32 | 50 | 100 | •             |
| 214-91312 | TC50H100ER16 | 50  | 16 | 32 | 100 | •             |
| 214-91313 | TC50H100ER25 | 50  | 25 | 42 | 100 | •             |
| 214-91314 | TC50H100ER32 | 50  | 32 | 50 | 100 | •             |
| 214-91316 | TC40H160ER16 | 40  | 16 | 32 | 160 | •             |
| 214-91317 | TC40H160ER25 | 40  | 25 | 42 | 160 | •             |
| 214-91318 | TC40H160ER32 | 40  | 32 | 50 | 160 | •             |

#### ACCESSORIES



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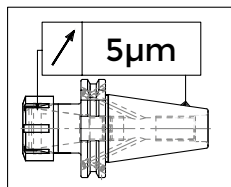
p. 615



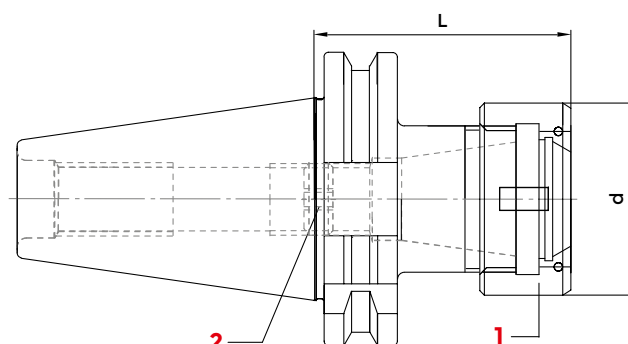
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## DIN6388 (EOC) COLLET CHUCKS



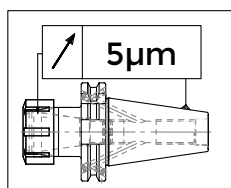
H= 0 > 100 mm - 5 µm  
H= 100 > 200 mm - 10 µm



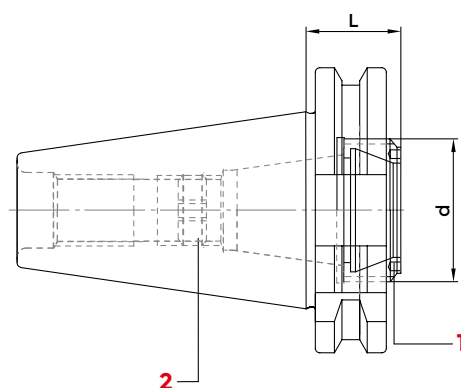
### DIN 69871 AD/B - DIN6388

| COD. | DESCRIPTION        | ISO | EOC         | d  | L   | G6.3<br>12000 | G6.3<br>15000 | 1     | 2                |
|------|--------------------|-----|-------------|----|-----|---------------|---------------|-------|------------------|
|      |                    |     |             |    |     |               |               | NUT   | WRENCH COLLET    |
| 8693 | TC 40-EOC 16/ H70  | 40  | EOC 16 2÷16 | 43 | 70  | -             | •             | GOC16 | 816-203032 EOC16 |
| 8696 | TC 40-EOC 25/ H70  | 40  | EOC 25 2÷25 | 60 | 70  | -             | •             | GOC25 | 816-203034 EOC25 |
| 8699 | TC 40-EOC 32/ H80  | 40  | EOC32 3÷32  | 72 | 80  | -             | •             | GOC32 | 816-203036 EOC32 |
| 8703 | TC 50-EOC 25/ H100 | 50  | EOC 25 2÷25 | 60 | 100 | •             | -             | GOC25 | 816-203034 EOC25 |
| 8705 | TC 50-EOC 32/ H80  | 50  | EOC 32 3÷32 | 72 | 80  | •             | -             | GOC32 | 816-203036 EOC32 |
| 8706 | TC 50-EOC 32/ H130 | 50  | EOC 32 3÷32 | 72 | 130 | •             | -             | GOC32 | 816-203036 EOC32 |

## ER SHORT COLLET CHUCK WITH INNER NUT



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



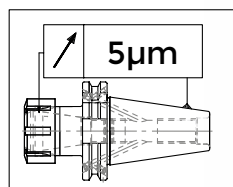
### DIN 69871 AD - DIN 69871 A

| COD.      | DESCRIPTION     | ISO | L  | ER         | G6.3<br>12000 | G6.3<br>15000 | 1          | 2             |
|-----------|-----------------|-----|----|------------|---------------|---------------|------------|---------------|
|           |                 |     |    |            |               |               | NUT        | WRENCH COLLET |
| 214-31377 | TC 40 - ER25 GA | 40  | 21 | ER 25 1÷20 | -             | •             | 812-203057 | CHER25EX ER25 |
| 264-31215 | TC 40 - ER32 GA | 40  | 21 | ER 32 2÷25 | -             | •             | 812-203032 | CHER32EX ER32 |
| 214-31378 | TC 50 - ER32 GA | 50  | 21 | ER 32 2÷25 | •             | -             | 812-203032 | CHER32EX ER32 |

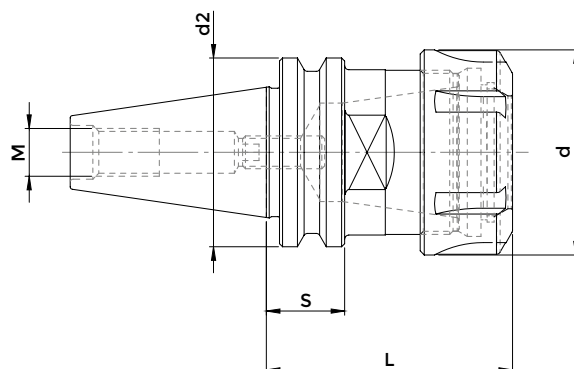
#### ACCESSORIES



## 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

| COD.      | DESCRIPTION              | ISO | ER         | d  | d2    | L  | S    | M    | G2,5<br>30000 | 1          | 2          | 3      | 4              |
|-----------|--------------------------|-----|------------|----|-------|----|------|------|---------------|------------|------------|--------|----------------|
|           |                          |     |            |    |       |    |      |      |               | NUT        | WRENCH     | COLLET | LOCKING<br>NUT |
| 2545      | ISO 30 AV - ER 32 / H 60 | 30  | ER 32 2÷25 | 50 | 46,00 | 60 | 15,9 | M 12 | •             | 812-203002 | 816-203002 | ER32   | 0559           |
| 2546      | ISO 30 AV - ER 40 / H 65 | 30  | ER 40 3÷32 | 63 | 46,00 | 65 | 15,9 | M 12 | •             | 812-203003 | 816-203003 | ER40   | 0561           |
| 2373      | ISO 30 AV - ER 25 / H 65 | 30  | ER 25 1÷20 | 42 | 50,00 | 65 | 15,9 | M 12 | •             | 812-203001 | 816-203001 | ER25   | -              |
| 264-31238 | ISO 30 AV - ER 32 / H 50 | 30  | ER 32 2÷25 | 50 | 50,00 | 50 | 15,9 | M 14 | •             | 812-203002 | 816-203002 | ER32   | 0559           |
| 264-31239 | ISO 30 AV - ER 32 / H 68 | 30  | ER 32 2÷25 | 50 | 50,00 | 68 | 15,9 | M 15 | •             | 812-203002 | 816-203002 | ER32   | 0559           |
| 2562      | ISO 30 AV - ER 40 / H 57 | 30  | ER 40 3÷32 | 63 | 50,00 | 57 | 15,9 | M 16 | •             | 812-203003 | 816-203003 | ER40   | 0561           |
| 2563      | ISO 30 AV - ER 40 / H 68 | 30  | ER 40 3÷32 | 63 | 50,00 | 68 | 15,9 | M 17 | •             | 812-203003 | 816-203003 | ER40   | 0561           |
| 2522      | ISO 30 AV - ER 32 / H 63 | 30  | ER 32 2÷25 | 50 | 58,00 | 63 | 15,9 | M 18 | •             | 812-203002 | 816-203002 | ER32   | 0559           |
| 2567      | ISO 40 AV - ER 32 / H 63 | 40  | ER 32 2÷25 | 50 | 58,00 | 63 | 15,9 | M 16 | •             | 812-203002 | 816-203002 | ER32   | 0559           |
| 2568      | ISO 40 AV - ER 32 / H 68 | 40  | ER 32 2÷25 | 50 | 63,55 | 68 | 15,9 | M 18 | •             | 812-203002 | 816-203002 | ER32   | 0559           |
| 2521      | ISO 40 AV - ER 40 / H 72 | 40  | ER 40 3÷32 | 63 | 63,55 | 68 | 15,9 | M 19 | •             | 812-203003 | 816-203003 | ER40   | 0561           |

#### LEFT SPIN

| COD.   | DESCRIPTION              | ISO | ER         | d  | d2    | L  | S    | M    | G2,5<br>30000 | 1          | 2          | 3      | 4              |
|--------|--------------------------|-----|------------|----|-------|----|------|------|---------------|------------|------------|--------|----------------|
|        |                          |     |            |    |       |    |      |      |               | NUT        | WRENCH     | COLLET | LOCKING<br>NUT |
| 2545SX | ISO 30 AV - ER 32 / H 60 | 30  | ER 32 2÷25 | 50 | 46,00 | 60 | 15,9 | M 12 | •             | 812-203035 | 816-203002 | ER32   | 0560           |
| 2546SX | ISO 30 AV - ER 40 / H 65 | 30  | ER 40 3÷32 | 63 | 46,00 | 65 | 15,9 | M 12 | •             | 812-203034 | 816-203003 | ER40   | 0580           |
| 2519SX | ISO 30 AV - ER 32 / H 50 | 30  | ER 32 2÷25 | 50 | 50,00 | 50 | 15,9 | M 12 | •             | 812-203035 | 816-203002 | ER32   | 0560           |
| 2520SX | ISO 30 AV - ER 32 / H 68 | 30  | ER 32 2÷25 | 50 | 50,00 | 68 | 15,9 | M 12 | •             | 812-203035 | 816-203002 | ER32   | 0560           |
| 2562SX | ISO 30 AV - ER 40 / H 57 | 30  | ER 40 3÷32 | 63 | 50,00 | 57 | 15,9 | M 12 | •             | 812-203034 | 816-203003 | ER40   | 0580           |
| 2563SX | ISO 30 AV - ER 40 / H 68 | 30  | ER 40 3÷32 | 63 | 50,00 | 68 | 15,9 | M 12 | •             | 812-203034 | 816-203003 | ER40   | 0580           |
| 2522SX | ISO 30 AV - ER 32 / H 63 | 30  | ER 32 2÷25 | 50 | 58,00 | 63 | 15,9 | M 12 | •             | 812-203035 | 816-203002 | ER32   | 0560           |

#### ACCESSORIES

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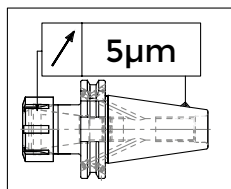
p. 615



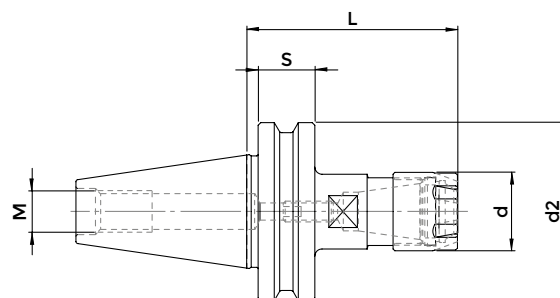
p. 636



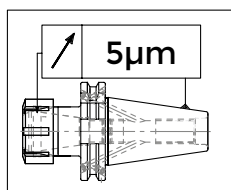
## ER COLLET CHUCKS - FLANGE W/OUT LUGS



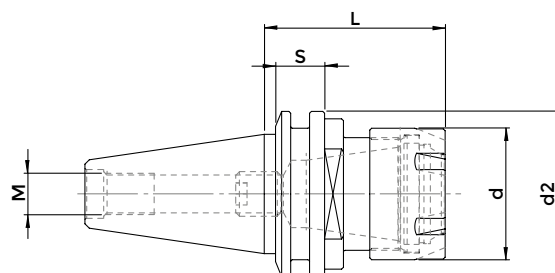
H= 0 > 100 mm - 5 µm  
 H= 100 > 200 mm - 10 µm



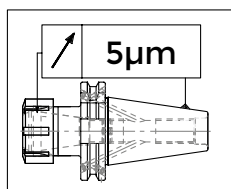
| COD.          | DESCRIPTION              | ISO | ER         | d  | d2 | L  | S    | M    | G2,5<br>30000 | NUT                                                                                 | WRENCH                                                                              | COLLET                                                                              |
|---------------|--------------------------|-----|------------|----|----|----|------|------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ISO20H49ER16M | ISO 20 AV - ER 16 / H 49 | 20  | ER 16 1÷12 | 22 | 30 | 49 | 15,9 | M 8  | •             |  |  |  |
| 264-31237     | ISO 30 AV - ER 16 / H 60 | 30  | ER 16 1÷12 | 22 | 50 | 60 | 15,9 | M 12 | •             | 1229                                                                                | 816-203009                                                                          | ER16                                                                                |
| 4171          | ISO 30 AV - ER 20 / H 53 | 30  | ER 20 1÷15 | 28 | 50 | 53 | 15,9 | M 12 | •             | 1230                                                                                | 816-203010                                                                          | ER20                                                                                |



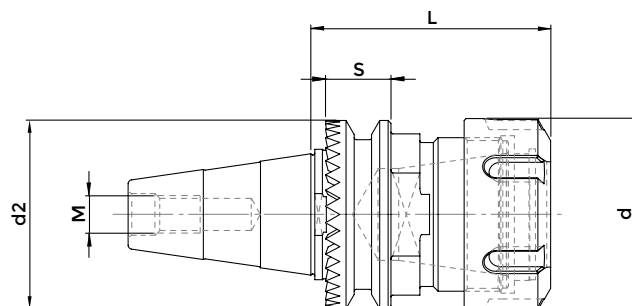
H= 0 > 100 mm - 5 µm  
 H= 100 > 200 mm - 10 µm



| COD. | DESCRIPTION               | ISO | ER         | d  | d2 | L  | S  | M    | G2,5<br>30000 | NUT                                                                                   | WRENCH                                                                                | COLLET                                                                                |
|------|---------------------------|-----|------------|----|----|----|----|------|---------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 3523 | ISO 30 CORTINI - ER 25 GM | 30  | ER 25 1÷20 | 35 | 44 | 48 | 13 | M 12 | •             |  |  |  |
|      |                           |     |            |    |    |    |    |      |               | 1231                                                                                  | 816-203011                                                                            | ER25                                                                                  |



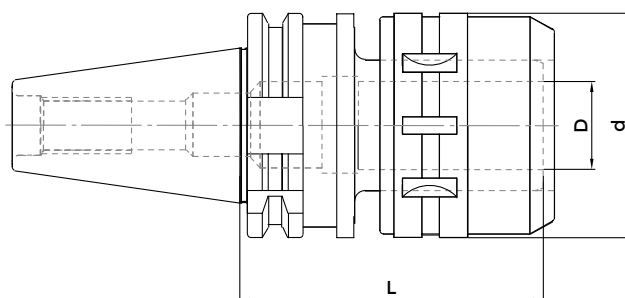
H= 0 > 100 mm - 5 µm  
 H= 100 > 200 mm - 10 µm



| COD. | DESCRIPTION         | ISO | ER          | d  | d2 | L  | S  | M    | G2,5<br>30000 | NUT                                                                                   | WRENCH                                                                                | COLLET                                                                                |
|------|---------------------|-----|-------------|----|----|----|----|------|---------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 2116 | ISO 30 SCM - ER 32  | 30  | ER 32 2÷25  | 50 | 49 | 55 | 17 | M 10 | •             |  |  |  |
| 2117 | ISO 30 SCM - ER 40  | 30  | ER 40 3÷32  | 63 | 49 | 74 | 17 | M 10 | •             | 812-203003                                                                            | 816-203003                                                                            | ER40                                                                                  |
| 2118 | ISO 30 SCM - EOC 25 | 30  | EOC 25 2÷25 | 60 | 49 | 70 | 17 | M 10 | •             | GOC25                                                                                 | 816-203034                                                                            | EOC25                                                                                 |



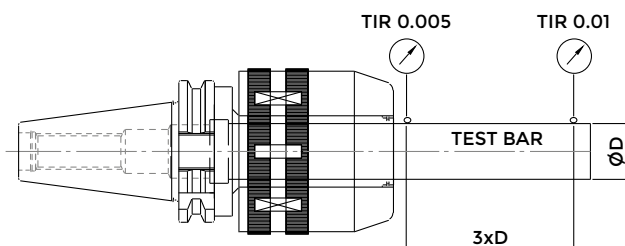
## MILLING CHUCKS



### DIN 69871 AD

| COD.<br>(AD) | COD.<br>(AD+B) | DESCRIPTION           | ISO | d  | D  | L   | G6.3<br>12000 | COLLET |
|--------------|----------------|-----------------------|-----|----|----|-----|---------------|--------|
| 9626         | -              | TC 40 - PC 16 / H 65  | 40  | 34 | 16 | 65  | •             | OGX16  |
| 214-01308    | 214-01310      | TC 40 - PC 20 / H 90  | 40  | 54 | 20 | 90  | •             | OGX20  |
| 214-01301    | -              | TC 40 - PC 20 / H 105 | 40  | 54 | 20 | 105 | •             | OGX20  |
| -            | 214-01311      | TC 40 - PC 32 / H 95  | 40  | 63 | 32 | 95  | •             | OGX32  |
| 214-01302    | -              | TC 40 - PC 32 / H 105 | 40  | 72 | 32 | 105 | •             | OGX32  |
| -            | 214-01312      | TC 50 - PC 20 / H 85  | 50  | 50 | 20 | 85  | •             | OGX20  |
| 214-01304    | -              | TC 50 - PC 20 / H 105 | 50  | 54 | 20 | 105 | •             | OGX20  |
| -            | 9637           | TC 50 - PC 20 / H 135 | 50  | 50 | 20 | 135 | •             | OGX20  |
| -            | 214-01313      | TC 50 - PC 32 / H 90  | 50  | 63 | 32 | 90  | •             | OGX32  |
| 214-01305    | 5227           | TC 50 - PC 32 / H 105 | 50  | 72 | 32 | 105 | •             | OGX32  |
| 214-01306    | -              | TC 50 - PC 32 / H 135 | 50  | 72 | 32 | 135 | •             | OGX32  |

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



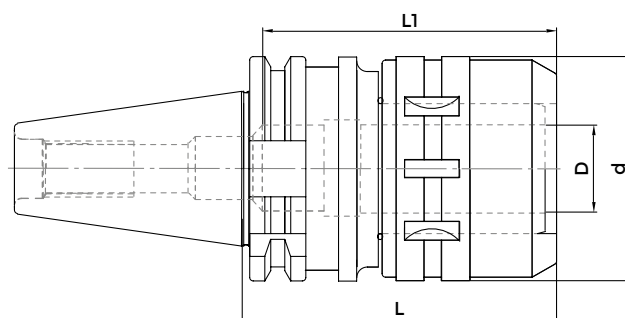
### ACCESSORIES



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## MILLING CHUCKS - HIGH SPEED LINE



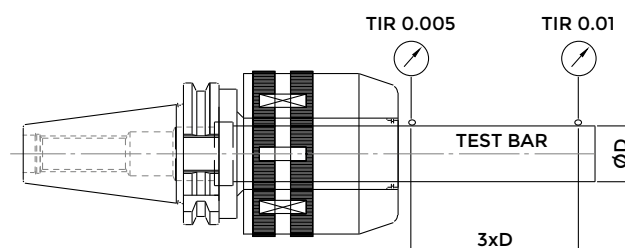
### DIN 69871 A

### HIGH SPEED LINE

| COD.      | DESCRIPTION   | ISO | D  | d  | L   | L1  | G6.3<br>20000 | COLLET |
|-----------|---------------|-----|----|----|-----|-----|---------------|--------|
| 214-01202 | TC40H105C20HS | 40  | 20 | 54 | 105 | 70  | •             | OGX20  |
| 214-01203 | TC40H105C32HS | 40  | 32 | 74 | 105 | 100 | •             | OGX32  |
| 214-01205 | TC50H105C32HS | 50  | 32 | 74 | 105 | 100 | •             | OGX32  |



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



### ACCESSORIES



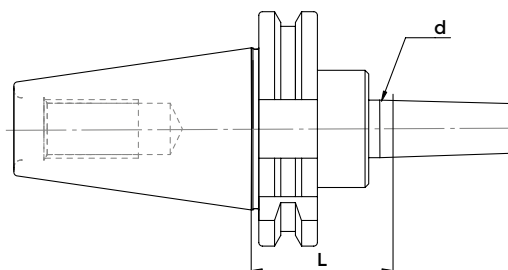
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## MILLING KIT: CHUCK, WRENCH, COLLET



| COD.         | DESCRIPTION               | ISO | CHUCK                                                                             | CASE                                                                              | WRENCH                                                                              | COLLET                                                                              |
|--------------|---------------------------|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              |                           |     |  |  |  |  |
| KITTC40C20   | KIT TC 40 - PC 20 / H 90  | 40  | 214-01308                                                                         | 3695                                                                              | 2900                                                                                | OGX20 Ø 6 - 8 - 10 - 12 - 16                                                        |
| KITTC40C20DK | KIT TC 40 - PC 20 / H 105 | 40  | 214-01301                                                                         | 3695                                                                              | 2900                                                                                | OGX20 Ø 6 - 8 - 10 - 12 - 16                                                        |
| KITTC40C32   | KIT TC 40 - PC 32 / H 105 | 40  | 214-01302                                                                         | 3695                                                                              | 816-203036                                                                          | OGX32 Ø 6 - 8 - 10 - 12 - 16 - 20 - 25                                              |
| KITTC50C20   | KIT TC 50 - PC 20 / H 105 | 50  | 214-01304                                                                         | 3695                                                                              | 2900                                                                                | OGX20 Ø 6 - 8 - 10 - 12 - 16                                                        |
| KITTC50C32   | KIT TC 50 - PC 32 / H 105 | 50  | 214-01305                                                                         | 3695                                                                              | 816-203036                                                                          | OGX32 Ø 6 - 8 - 10 - 12 - 16 - 20 - 25                                              |

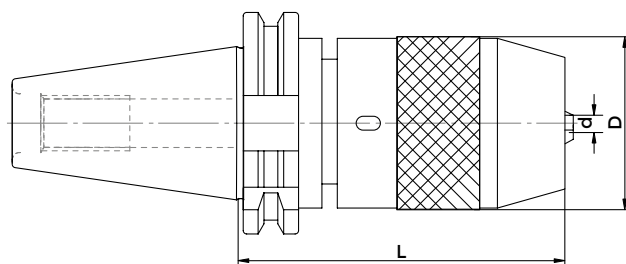
## DRILL CHUCKS ADAPTERS



## DIN 69871 AD - DIN 238

| COD.      | DESCRIPTION  | ISO | L  | d      | G6.3<br>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 | •            |
| 216-31201 | TC 40 - B 16 | 40  | 40 | 15,733 | •            |
| 216-31202 | TC 40 - B 18 | 40  | 40 | 17,780 | •            |
| 216-31203 | TC 50 - B 16 | 50  | 40 | 15,733 | •            |
| 216-31204 | TC 50 - B 18 | 50  | 40 | 17,780 | •            |

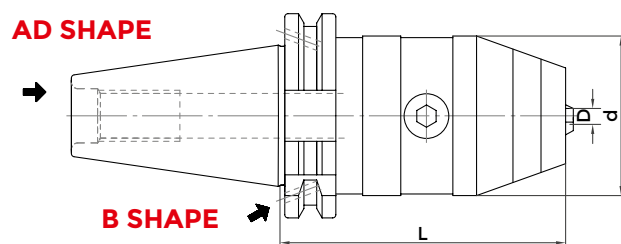
## DRILL CHUCKS - RIGHT SPIN



### DIN 69871 A

| COD.      | DESCRIPTION   | ISO | DRILL RANGE | L   | d  | G6,3<br>8000 | CLAMPS                                                                              | CROSS                                                                               | WRENCH                                                                              |
|-----------|---------------|-----|-------------|-----|----|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|           |               |     |             |     |    |              |  |  |  |
| 8583      | TC 30 - DC 13 | 30  | 0,5 ÷ 13    | 100 | 50 | •            | 832-012020                                                                          | 9021                                                                                | 816-111024                                                                          |
| 252-11211 | TC 40 - DC 13 | 40  | 0,5 ÷ 13    | 90  | 50 | •            | 832-012020                                                                          | 9021                                                                                | 816-111024                                                                          |
| 252-11212 | TC 40 - DC 16 | 40  | 3 ÷ 16      | 115 | 57 | •            | 832-012021                                                                          | 9023                                                                                | 816-111025                                                                          |
| 252-11213 | TC 50 - DC 13 | 50  | 0,5 ÷ 13    | 100 | 50 | •            | 832-012020                                                                          | 9021                                                                                | 816-111024                                                                          |
| 252-11214 | TC 50 - DC 16 | 50  | 3 ÷ 16      | 105 | 57 | •            | 832-012021                                                                          | 9023                                                                                | 816-111025                                                                          |

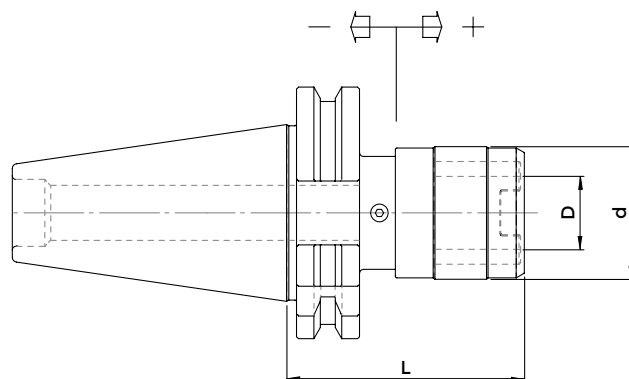
## DRILL CHUCKS - LEFT AND RIGHT SPIN



### DIN 69871 ADB

| COD.<br>(AD) | COD.<br>(AD+B) | DESCRIPTION    | ISO | DRILL RANGE | L  | d  | G6,3<br>8000 | WRENCH                                                                                |
|--------------|----------------|----------------|-----|-------------|----|----|--------------|---------------------------------------------------------------------------------------|
|              |                |                |     |             |    |    |              |  |
| 252-11301    | 8589           | TC 40 - DCU 13 | 40  | 0,5 ÷ 13    | 90 | 50 | •            | 816-152001                                                                            |
| 252-11302    | 8590           | TC 40 - DCU 16 | 40  | 3 ÷ 16      | 95 | 50 | •            | 816-152001                                                                            |
| 252-11303    | 8591           | TC 50 - DCU 13 | 50  | 0,5 ÷ 13    | 90 | 50 | •            | 816-152001                                                                            |
| 252-11304    | 8592           | TC 50 - DCU 16 | 50  | 3 ÷ 16      | 95 | 50 | •            | 816-152001                                                                            |

## TENSION/COMPRESSION QUICK CHANGE TAPPING HEADS

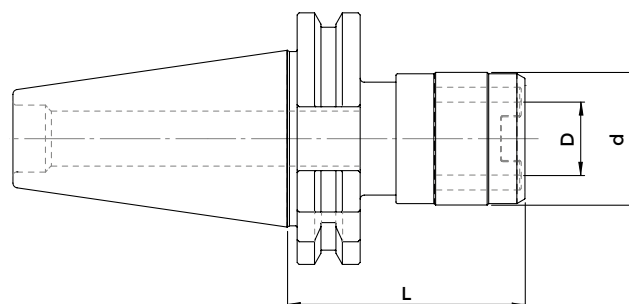


### DIN 69871 A

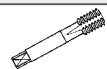
| COD.  | DESCRIPTION  | ISO | D  | d  | L   | G6,3<br>8000 | RANGE         | TAP SIZE RANGE    |
|-------|--------------|-----|----|----|-----|--------------|---------------|-------------------|
| M3008 | TC 30 - B. 1 | 30  | 19 | 38 | 60  | •            | - 7,5 + 7,5   | M 3 ÷ M 12 (*18)  |
| 2996  | TC 30 - B. 2 | 30  | 31 | 55 | 100 | •            | - 12,5 + 12,5 | M 6 ÷ M 20 (*30)  |
| M3010 | TC 40 - B. 1 | 40  | 19 | 38 | 60  | •            | - 7,5 + 7,5   | M 3 ÷ M 12 (*18)  |
| M3110 | TC 40 - B. 2 | 40  | 31 | 55 | 100 | •            | - 12,5 + 12,5 | M 6 ÷ M 20 (*30)  |
| M3210 | 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)  |
| M3030 | TC 50 - B. 1 | 50  | 19 | 38 | 62  | •            | - 7,5 + 7,5   | M 3 ÷ M 12 (*18)  |
| M3130 | TC 50 - B. 2 | 50  | 31 | 55 | 83  | •            | - 12,5 + 12,5 | M 6 ÷ M 20 (*30)  |
| M3230 | TC 50 - B. 3 | 50  | 48 | 79 | 133 | •            | - 20,0 + 20,0 | M 14 ÷ M 33 (*48) |

\* Adapters with screws

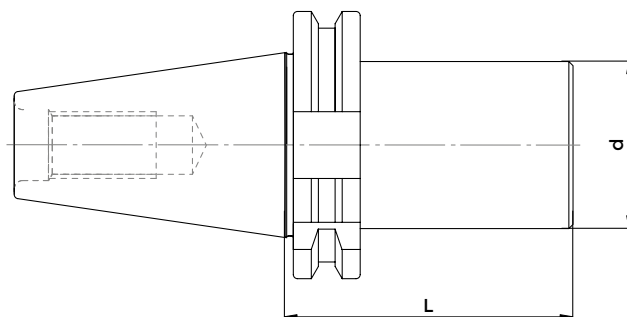
## SOLID TAPPING HEADS



### DIN 69871 A

| COD.  | DESCRIPTION        | ISO | D  | d  | L   | G6,3<br>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)                                                                    |
| M5020 | TC 40 - B. 1 FISSO | 40  | 19 | 33 | 59  | •            | M 3 ÷ M 12 (*18)                                                                    |
| M5040 | 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   |
|-----------|------------------|-----|----|-----|
| 217-41204 | 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 |
| 217-41206 | 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 |
| 217-41207 | TC 50 - D. 80 ST | 50  | 80 | 160 |
| 8573      | TC 50 - D. 80 ST | 50  | 80 | 200 |
| 217-41209 | TC 50 - D. 80 ST | 50  | 80 | 300 |