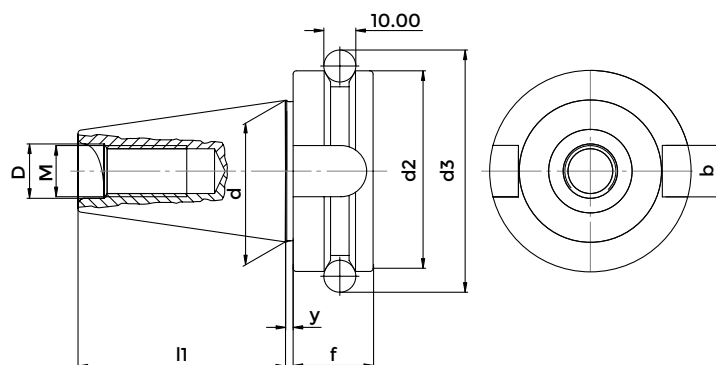




**BT CHUCKS**  
JIS-B 6339

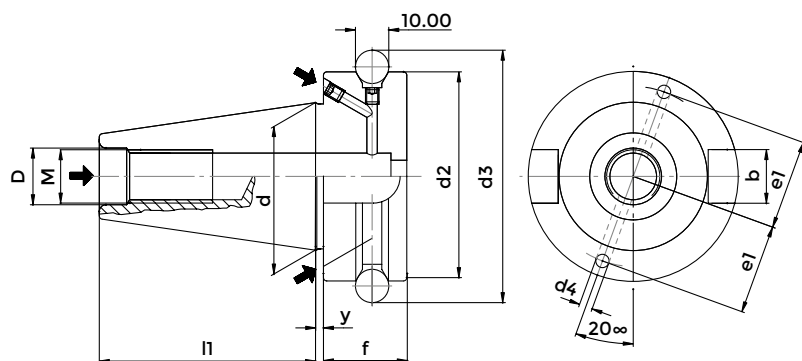
## TAPER SHANKS DATA SHEET



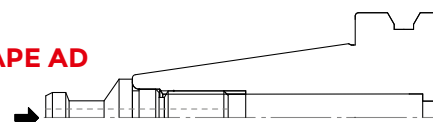
### JIS-B 6339 - MAS 403/BT SHAPE A

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

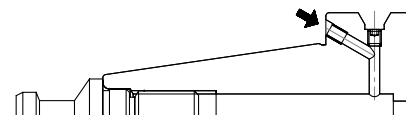
## TAPER SHANKS DATA SHEET



**SHAPE AD**



**SHAPE B**



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

| ISO | d     | l1    | D  | M   | y | d2  | f  | d3     | d4 | e1 | b    |
|-----|-------|-------|----|-----|---|-----|----|--------|----|----|------|
| 40  | 44,45 | 65,4  | 17 | M16 | 2 | 63  | 25 | 75,68  | 4  | 27 | 16,1 |
| 50  | 69,85 | 101,8 | 25 | M24 | 3 | 100 | 35 | 110,02 | 5  | 42 | 25,7 |

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

## TECHNICAL FEATURES KINTEK DIN TOOLHOLDERS

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

All Kintek Toolholders are manufactured according to DIN norm.

#### COLLET CHUCK RUNOUT ACCURACY

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

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

#### SHELL END MILL ADAPTOR RUNOUT ACCURACY

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

#### WELDON END MILL HOLDER RUNOUT ACCURACY

According to the norm DIN6359-1 Weldon end mill holders have to meet the following requirements:

**BORE:** H5 tolerance

**RUNOUT ACCURACY:** <0.01 (per ISO 40)

Our end mill adaptors ensure the prescribed holes' tolerance and have a runout accuracy which is normally 0.005.

#### BALANCING

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

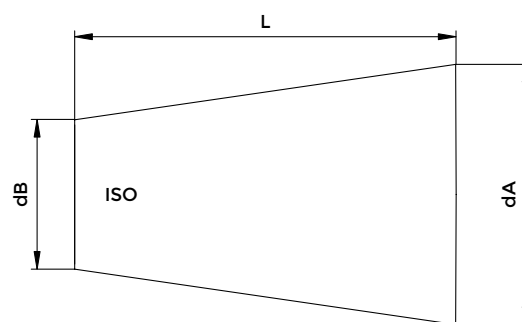
The new high-speed toolholders are balanced in the Grade G 2,5 at 25000 rpm.

#### 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

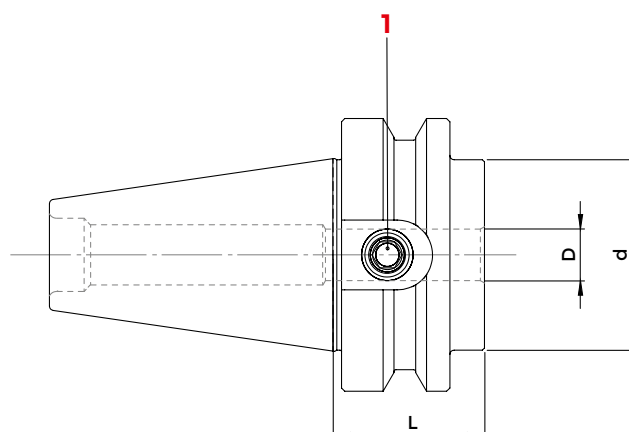
#### CONE TOLERANCE

According to the class AT3



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

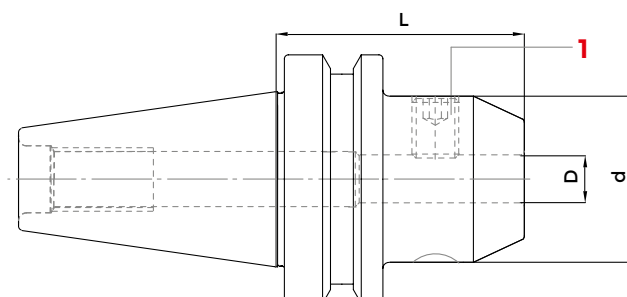
## SHORT TYPE WELDON END MILL HOLDERS



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

| COD.<br>(AD) | COD.<br>(AD+B) | DESCRIPTION          | ISO | D  | L  | d    | G6,3<br>12000 | G6,3<br>15000 | 1                                                                                   | 1                                                                                   |
|--------------|----------------|----------------------|-----|----|----|------|---------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              |                |                      |     |    |    |      |               |               | SCREW 1                                                                             | SCREW 2                                                                             |
|              |                |                      |     |    |    |      |               |               |  |  |
| 263-115630   | -              | BT 30 - WE 12 / H35  | 30  | 12 | 35 | 42   | •             | -             | 811-106013                                                                          | -                                                                                   |
| 0976         | -              | BT 30 - WE 16 / H35  | 30  | 16 | 35 | 42   | •             | -             | 811-106026                                                                          | -                                                                                   |
| 263-115650   | -              | BT 30 - WE 20 / H35  | 30  | 20 | 35 | 43   | •             | -             | 811-106024                                                                          | -                                                                                   |
| 263-115660   | -              | BT 30 - WE 25 / H35  | 30  | 25 | 35 | 45,5 | •             | -             | 811-106026                                                                          | -                                                                                   |
| 3053         | -              | BT 40 - WE 12 / H 35 | 40  | 12 | 35 | 44   | -             | •             | 811-106005                                                                          | -                                                                                   |
| 213-11493    | 5122           | BT 40 - WE 16 / H 35 | 40  | 16 | 35 | 44   | -             | •             | 0068                                                                                | -                                                                                   |
| 213-11494    | 5123           | BT 40 - WE 20 / H 35 | 40  | 20 | 35 | 44   | -             | •             | 811-106027                                                                          | -                                                                                   |
| 213-11495    | -              | BT 40 - WE 25 / H 35 | 40  | 25 | 35 | 44   | -             | •             | 811-106026                                                                          | -                                                                                   |
| 213-11496    | 4554           | BT 40 - WE 25 / H 60 | 40  | 25 | 60 | 49   | -             | •             | 811-106026                                                                          | 811-106014                                                                          |
| 3069         | -              | BT 40 - WE 32 / H 40 | 40  | 32 | 40 | 44   | -             | •             | 0074                                                                                | -                                                                                   |
| 213-11497    | 4556           | BT 40 - WE 32 / H 70 | 40  | 32 | 70 | 72   | -             | •             | 811-106026                                                                          | 4977                                                                                |
| 213-11498    | -              | BT 50 - WE 16 / H 44 | 50  | 16 | 44 | 70   | •             | -             | 811-106006                                                                          | -                                                                                   |
| 213-11499    | 5126           | BT 50 - WE 20 / H 44 | 50  | 20 | 44 | 70   | •             | -             | 811-106007                                                                          | -                                                                                   |
| 263-11401    | 5127           | BT 50 - WE 25 / H 44 | 50  | 25 | 44 | 70   | •             | -             | 811-106008                                                                          | -                                                                                   |
| 263-11402    | 5128           | BT 50 - WE 32 / H 44 | 50  | 32 | 44 | 70   | •             | -             | 811-106009                                                                          | -                                                                                   |
| 8468         | 8473           | BT 50 - WE 40 / H 44 | 50  | 40 | 44 | 70   | •             | -             | 0259                                                                                | -                                                                                   |

## WELDON END MILL HOLDERS

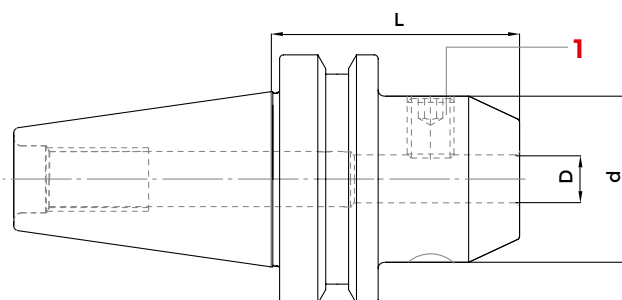


### JIS-B 6339 MAS 403/BT SHAPE AD/B - DIN 1835 B

| COD.<br>(AD) | COD.<br>(AD+B) | DESCRIPTION           | ISO | D  | L   | d  | G6,3<br>12000 | G6,3<br>15000 | 1<br>SCREW                                                                          |
|--------------|----------------|-----------------------|-----|----|-----|----|---------------|---------------|-------------------------------------------------------------------------------------|
|              |                |                       |     |    |     |    |               |               |  |
| 263-11501    | -              | BT 30 - WE 6 / H 50   | 30  | 6  | 50  | 25 | -             | •             | 811-106001                                                                          |
| 263-11502    | -              | BT 30 - WE 8 / H 50   | 30  | 8  | 50  | 28 | -             | •             | 811-106002                                                                          |
| 263-11503    | -              | BT 30 - WE 10 / H 50  | 30  | 10 | 50  | 35 | -             | •             | 811-106004                                                                          |
| 263-11504    | -              | BT 30 - WE 12 / H 55  | 30  | 12 | 55  | 42 | -             | •             | 811-106005                                                                          |
| 263-11505    | -              | BT 30 - WE 16 / H 63  | 30  | 16 | 63  | 48 | -             | •             | 811-106006                                                                          |
| 263-11506    | -              | BT 30 - WE 20 / H 70  | 30  | 20 | 70  | 52 | -             | •             | 811-106007                                                                          |
| 213-11413    | 4909           | BT 40 - WE 6 / H 50   | 40  | 6  | 50  | 25 | -             | •             | 811-106001                                                                          |
| 213-11434    | 5863           | BT 40 - WE 6 / H 100  | 40  | 6  | 100 | 25 | -             | •             | 811-106001                                                                          |
| 8004         | 8021           | BT 40 - WE 6 / H 130  | 40  | 6  | 130 | 25 | -             | •             | 811-106001                                                                          |
| 213-11442    | 5864           | BT 40 - WE 6 / H 160  | 40  | 6  | 160 | 25 | -             | •             | 811-106001                                                                          |
| 4253         | 4391           | BT 40 - WE 6 / H 200  | 40  | 6  | 200 | 25 | -             | •             | 811-106001                                                                          |
| 213-11414    | 4910           | BT 40 - WE 8 / H 50   | 40  | 8  | 50  | 28 | -             | •             | 811-106002                                                                          |
| 213-11435    | 5865           | BT 40 - WE 8 / H 100  | 40  | 8  | 100 | 28 | -             | •             | 811-106002                                                                          |
| 8005         | 8022           | BT 40 - WE 8 / H 130  | 40  | 8  | 130 | 28 | -             | •             | 811-106002                                                                          |
| 213-11443    | 5866           | BT 40 - WE 8 / H 160  | 40  | 8  | 160 | 28 | -             | •             | 811-106002                                                                          |
| 4254         | 4396           | BT 40 - WE 8 / H 200  | 40  | 8  | 200 | 28 | -             | •             | 811-106002                                                                          |
| 213-11415    | 4911           | BT 40 - WE 10 / H 63  | 40  | 10 | 63  | 35 | -             | •             | 811-106004                                                                          |
| 213-11436    | 5867           | BT 40 - WE 10 / H 100 | 40  | 10 | 100 | 35 | -             | •             | 811-106004                                                                          |
| 8006         | 8023           | BT 40 - WE 10 / H 130 | 40  | 10 | 130 | 35 | -             | •             | 811-106004                                                                          |
| 213-11444    | 5868           | BT 40 - WE 10 / H 160 | 40  | 10 | 160 | 35 | -             | •             | 811-106004                                                                          |
| 4255         | 4397           | BT 40 - WE 10 / H 200 | 40  | 10 | 200 | 35 | -             | •             | 811-106004                                                                          |
| 213-11416    | 4912           | BT 40 - WE 12 / H 63  | 40  | 12 | 63  | 42 | -             | •             | 811-106005                                                                          |
| 213-11437    | 5869           | BT 40 - WE 12 / H 100 | 40  | 12 | 100 | 42 | -             | •             | 811-106005                                                                          |
| 8007         | 8024           | BT 40 - WE 12 / H 130 | 40  | 12 | 130 | 42 | -             | •             | 811-106005                                                                          |
| 213-11445    | 5870           | BT 40 - WE 12 / H 160 | 40  | 12 | 160 | 42 | -             | •             | 811-106005                                                                          |
| 4262         | 4401           | BT 40 - WE 12 / H 200 | 40  | 12 | 200 | 42 | -             | •             | 811-106005                                                                          |
| 213-11417    | 4913           | BT 40 - WE 14 / H 63  | 40  | 14 | 63  | 44 | -             | •             | 811-106005                                                                          |
| 213-11438    | 5871           | BT 40 - WE 14 / H 100 | 40  | 14 | 100 | 44 | -             | •             | 811-106005                                                                          |
| 8008         | 8025           | BT 40 - WE 14 / H 130 | 40  | 14 | 130 | 44 | -             | •             | 811-106005                                                                          |
| 4268         | 4432           | BT 40 - WE 14 / H 160 | 40  | 14 | 160 | 44 | -             | •             | 811-106005                                                                          |
| -            | 4433           | BT 40 - WE 14 / H 200 | 40  | 14 | 200 | 44 | -             | •             | 811-106006                                                                          |
| 213-11418    | 4914           | BT 40 - WE 16 / H 63  | 40  | 16 | 63  | 48 | -             | •             | 811-106006                                                                          |
| 213-11439    | 5872           | BT 40 - WE 16 / H 100 | 40  | 16 | 100 | 48 | -             | •             | 811-106006                                                                          |
| 8009         | 8026           | BT 40 - WE 16 / H 130 | 40  | 16 | 130 | 48 | -             | •             | 811-106006                                                                          |
| 213-11446    | 5873           | BT 40 - WE 16 / H 160 | 40  | 16 | 160 | 48 | -             | •             | 811-106006                                                                          |
| 4270         | 4434           | BT 40 - WE 16 / H 200 | 40  | 16 | 200 | 48 | -             | •             | 811-106006                                                                          |

follows >>

## WELDON END MILL HOLDERS

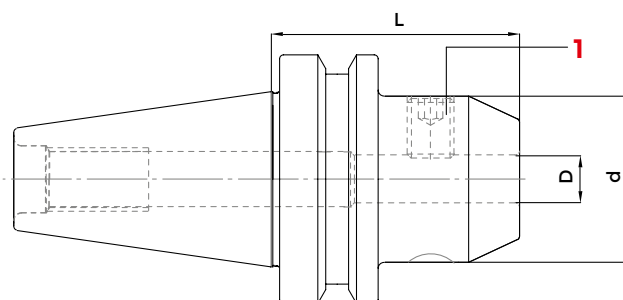


### JIS-B 6339 MAS 403/BT SHAPE AD/B - DIN 1835 B

| COD.<br>(AD) | COD.<br>(AD+B) | DESCRIPTION           | ISO | D  | L   | d  | G6,3<br>12000 | G6,3<br>15000 | 1<br>SCREW                                                                          |
|--------------|----------------|-----------------------|-----|----|-----|----|---------------|---------------|-------------------------------------------------------------------------------------|
|              |                |                       |     |    |     |    |               |               |  |
| 213-11419    | 4915           | BT 40 - WE 18 / H 63  | 40  | 18 | 63  | 50 | -             | •             | 811-106006                                                                          |
| 213-11440    | 5874           | BT 40 - WE 18 / H 100 | 40  | 18 | 100 | 50 | -             | •             | 811-106006                                                                          |
| 4272         | -              | BT 40 - WE 18 / H 200 | 40  | 18 | 200 | 50 | -             | •             | 811-106006                                                                          |
| 213-11420    | 4916           | BT 40 - WE 20 / H 63  | 40  | 20 | 63  | 52 | -             | •             | 811-106007                                                                          |
| 213-11441    | 5875           | BT 40 - WE 20 / H 100 | 40  | 20 | 100 | 52 | -             | •             | 811-106007                                                                          |
| 5067         | 4437           | BT 40 - WE 20 / H 130 | 40  | 20 | 130 | 52 | -             | •             | 811-106007                                                                          |
| 213-11447    | 5876           | BT 40 - WE 20 / H 160 | 40  | 20 | 160 | 52 | -             | •             | 811-106007                                                                          |
| 4274         | 4446           | BT 40 - WE 20 / H 200 | 40  | 20 | 200 | 52 | -             | •             | 811-106007                                                                          |
| 213-11421    | 4917           | BT 40 - WE 25 / H 90  | 40  | 25 | 90  | 65 | -             | •             | 811-106008                                                                          |
| 5069         | 4939           | BT 40 - WE 25 / H 130 | 40  | 25 | 130 | 65 | -             | •             | 811-106008                                                                          |
| 213-11468    | 4448           | BT 40 - WE 25 / H 160 | 40  | 25 | 160 | 65 | -             | •             | 811-106008                                                                          |
| 4358         | 4479           | BT 40 - WE 25 / H 200 | 40  | 25 | 200 | 65 | -             | •             | 811-106008                                                                          |
| 213-11422    | 4918           | BT 40 - WE 32 / H 100 | 40  | 32 | 100 | 72 | -             | •             | 811-106009                                                                          |
| 5071         | 4480           | BT 40 - WE 32 / H 130 | 40  | 32 | 130 | 72 | -             | •             | 811-106009                                                                          |
| 213-11469    | 4481           | BT 40 - WE 32 / H 160 | 40  | 32 | 160 | 72 | -             | •             | 811-106009                                                                          |
| 4359         | 4482           | BT 40 - WE 32 / H 200 | 40  | 32 | 200 | 72 | -             | •             | 811-106009                                                                          |
| 213-11465    | 4919           | BT 40 - WE 40 / H 105 | 40  | 40 | 105 | 80 | -             | •             | 811-106009                                                                          |
| 213-11423    | 4920           | BT 50 - WE 6 / H 63   | 50  | 6  | 63  | 25 | •             | -             | 811-106001                                                                          |
| 213-11448    | 5877           | BT 50 - WE 6 / H 100  | 50  | 6  | 100 | 25 | •             | -             | 811-106001                                                                          |
| 8011         | 8028           | BT 50 - WE 6 / H 130  | 50  | 6  | 130 | 25 | •             | -             | 811-106001                                                                          |
| 5568         | 5878           | BT 50 - WE 6 / H 160  | 50  | 6  | 160 | 25 | •             | -             | 811-106001                                                                          |
| 213-11484    | 4485           | BT 50 - WE 6 / H 200  | 50  | 6  | 200 | 25 | •             | -             | 811-106001                                                                          |
| 213-11424    | 4921           | BT 50 - WE 8 / H 63   | 50  | 8  | 63  | 28 | •             | -             | 811-106002                                                                          |
| 213-11449    | 5879           | BT 50 - WE 8 / H 100  | 50  | 8  | 100 | 28 | •             | -             | 811-106002                                                                          |
| 8012         | 8029           | BT 50 - WE 8 / H 130  | 50  | 8  | 130 | 28 | •             | -             | 811-106002                                                                          |
| 213-11458    | 5880           | BT 50 - WE 8 / H 160  | 50  | 8  | 160 | 28 | •             | -             | 811-106002                                                                          |
| 213-11485    | 4497           | BT 50 - WE 8 / H 200  | 50  | 8  | 200 | 28 | •             | -             | 811-106002                                                                          |
| 213-11425    | 4922           | BT 50 - WE 10 / H 70  | 50  | 10 | 70  | 35 | •             | -             | 811-106004                                                                          |
| 213-11450    | 5907           | BT 50 - WE 10 / H 100 | 50  | 10 | 100 | 35 | •             | -             | 811-106004                                                                          |
| 8013         | 8030           | BT 50 - WE 10 / H 130 | 50  | 10 | 130 | 35 | •             | -             | 811-106004                                                                          |
| 213-11459    | 5908           | BT 50 - WE 10 / H 160 | 50  | 10 | 160 | 35 | •             | -             | 811-106004                                                                          |
| 213-11486    | 4498           | BT 50 - WE 10 / H 200 | 50  | 10 | 200 | 35 | •             | -             | 811-106004                                                                          |
| 213-11426    | 4923           | BT 50 - WE 12 / H 80  | 50  | 12 | 80  | 42 | •             | -             | 811-106005                                                                          |
| 213-11451    | 5912           | BT 50 - WE 12 / H 100 | 50  | 12 | 100 | 42 | •             | -             | 811-106005                                                                          |
| 8014         | 8031           | BT 50 - WE 12 / H 130 | 50  | 12 | 130 | 42 | •             | -             | 811-106005                                                                          |
| 213-11460    | 5909           | BT 50 - WE 12 / H 160 | 50  | 12 | 160 | 42 | •             | -             | 811-106005                                                                          |

follows >>

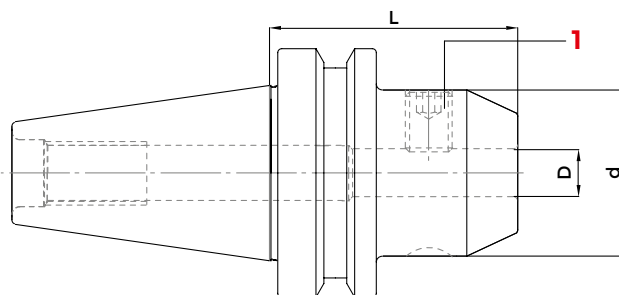
## WELDON END MILL HOLDERS



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

| COD.<br>(AD) | COD.<br>(AD+B)  | DESCRIPTION           | ISO | D  | L   | d   | G6,3<br>12000 | G6,3<br>15000 | 1<br>SCREW                                                                          |
|--------------|-----------------|-----------------------|-----|----|-----|-----|---------------|---------------|-------------------------------------------------------------------------------------|
|              |                 |                       |     |    |     |     |               |               |  |
| 213-11487    | 4499            | BT 50 - WE 12 / H 200 | 50  | 12 | 200 | 42  | •             | -             | 811-106005                                                                          |
| 213-11427    | 4924            | BT 50 - WE 14 / H 80  | 50  | 14 | 80  | 44  | •             | -             | 811-106005                                                                          |
| 4371         | 4500            | BT 50 - WE 14 / H 100 | 50  | 14 | 100 | 44  | •             | -             | 811-106005                                                                          |
| 8015         | 8032            | BT 50 - WE 14 / H 130 | 50  | 14 | 130 | 44  | •             | -             | 811-106005                                                                          |
| 4375         | -               | BT 50 - WE 14 / H 160 | 50  | 14 | 160 | 44  | •             | -             | 811-106005                                                                          |
| 4376         | -               | BT 50 - WE 14 / H 200 | 50  | 14 | 200 | 44  | •             | -             | 811-106005                                                                          |
| 213-11428    | 4925            | BT 50 - WE 16 / H 80  | 50  | 16 | 80  | 48  | •             | -             | 811-106006                                                                          |
| 213-11453    | 5913            | BT 50 - WE 16 / H 100 | 50  | 16 | 100 | 48  | •             | -             | 811-106006                                                                          |
| 8016         | 8033            | BT 50 - WE 16 / H 130 | 50  | 16 | 130 | 48  | •             | -             | 811-106006                                                                          |
| 213-11461    | 5910            | BT 50 - WE 16 / H 160 | 50  | 16 | 160 | 48  | •             | -             | 811-106006                                                                          |
| 213-11489    | 4523            | BT 50 - WE 16 / H 200 | 50  | 16 | 200 | 48  | •             | -             | 811-106006                                                                          |
| 213-11429    | 4926            | BT 50 - WE 18 / H 80  | 50  | 18 | 80  | 50  | •             | -             | 811-106006                                                                          |
| 4381         | 4524            | BT 50 - WE 18 / H 100 | 50  | 18 | 100 | 50  | •             | -             | 811-106006                                                                          |
| 8017         | -               | BT 50 - WE 18 / H 130 | 50  | 18 | 130 | 50  | •             | -             | 811-106006                                                                          |
| 4382         | 4525            | BT 50 - WE 18 / H 160 | 50  | 18 | 160 | 50  | •             | -             | 811-106006                                                                          |
| 213-11430    | 4927            | BT 50 - WE 20 / H 80  | 50  | 20 | 80  | 52  | •             | -             | 811-106007                                                                          |
| 213-11455    | 5914            | BT 50 - WE 20 / H 100 | 50  | 20 | 100 | 52  | •             | -             | 811-106007                                                                          |
| 8018         | 8035            | BT 50 - WE 20 / H 130 | 50  | 20 | 130 | 52  | •             | -             | 811-106007                                                                          |
| 213-11462    | 5911            | BT 50 - WE 20 / H 160 | 50  | 20 | 160 | 52  | •             | -             | 811-106007                                                                          |
| 213-11491    | 4527            | BT 50 - WE 20 / H 200 | 50  | 20 | 200 | 52  | •             | -             | 811-106007                                                                          |
| 213-11431    | 4928            | BT 50 - WE 25 / H 100 | 50  | 25 | 100 | 65  | •             | -             | 811-106008                                                                          |
| 8019         | 8036            | BT 50 - WE 25 / H 130 | 50  | 25 | 130 | 65  | •             | -             | 811-106008                                                                          |
| 213-11472    | BT50H160WE25ADB | BT 50 - WE 25 / H 160 | 50  | 25 | 160 | 65  | •             | -             | 811-106008                                                                          |
| 213-11492    | 4528            | BT 50 - WE 25 / H 200 | 50  | 25 | 200 | 65  | •             | -             | 811-106008                                                                          |
| 213-11432    | 4929            | BT 50 - WE 32 / H 105 | 50  | 32 | 105 | 72  | •             | -             | 811-106009                                                                          |
| 8020         | 8037            | BT 50 - WE 32 / H 130 | 50  | 32 | 130 | 72  | •             | -             | 811-106009                                                                          |
| 213-11473    | 5916            | BT 50 - WE 32 / H 160 | 50  | 32 | 160 | 72  | •             | -             | 811-106009                                                                          |
| 213-11463    | 4529            | BT 50 - WE 32 / H 200 | 50  | 32 | 200 | 72  | •             | -             | 811-106009                                                                          |
| 213-11433    | 4930            | BT 50 - WE 40 / H 120 | 50  | 40 | 120 | 80  | •             | -             | 811-106009                                                                          |
| 5085         | 5917            | BT 50 - WE 40 / H 160 | 50  | 40 | 160 | 80  | •             | -             | 811-106009                                                                          |
| 213-11594    | 4530            | BT 50 - WE 40 / H 200 | 50  | 40 | 200 | 80  | •             | -             | 811-106009                                                                          |
| 263-11425    | 4552            | BT 50 - WE 50 / H 125 | 50  | 50 | 125 | 100 | •             | -             | 4978                                                                                |

## WELDON END MILL HOLDERS - HIGH SPEED LINE

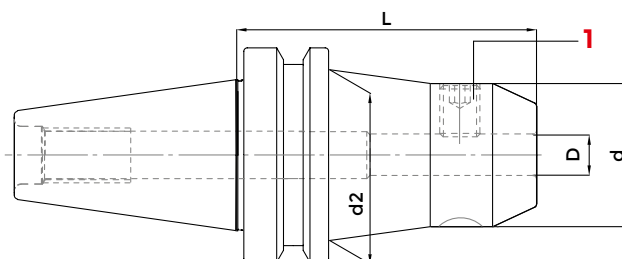


### JIS-B 6339 MAS 403/BT A - DIN 1835 B

### HIGH SPEED LINE

| COD.      | DESCRIPTION  | ISO | D  | L   | d  | G2.5<br>25000 | 1<br>SCREW |
|-----------|--------------|-----|----|-----|----|---------------|------------|
| 213-91401 | BT40H50WE06  | 40  | 6  | 50  | 25 | •             | 811-106001 |
| 213-91402 | BT40H50WE08  | 40  | 8  | 50  | 28 | •             | 811-106002 |
| 213-91403 | BT40H63WE10  | 40  | 10 | 63  | 35 | •             | 811-106004 |
| WE91404   | BT40H63WE12  | 40  | 12 | 63  | 42 | •             | 811-106005 |
| 213-91406 | BT40H63WE16  | 40  | 16 | 63  | 48 | •             | 811-106006 |
| WE91408   | BT40H63WE20  | 40  | 20 | 63  | 52 | •             | 811-106007 |
| 213-91409 | BT40H90WE25  | 40  | 25 | 90  | 65 | •             | 811-106008 |
| 213-91410 | BT40H100WE32 | 40  | 32 | 100 | 72 | •             | 811-106009 |

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

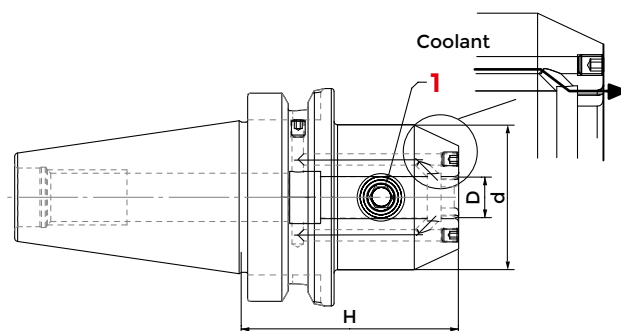


### JIS-B 6339 MAS 403/BT A - DIN 1835 B

### HIGH SPEED LINE

| COD.      | DESCRIPTION  | ISO | D  | L   | d  | d2 | G2.5<br>25000 | 1<br>SCREW |
|-----------|--------------|-----|----|-----|----|----|---------------|------------|
| 213-91424 | BT40H100WE06 | 40  | 6  | 100 | 25 | 35 | •             | 811-106001 |
| 213-91425 | BT40H100WE08 | 40  | 8  | 100 | 28 | 38 | •             | 811-106002 |
| 213-91426 | BT40H100WE10 | 40  | 10 | 100 | 35 | 40 | •             | 811-106004 |
| WE91427   | BT40H100WE12 | 40  | 12 | 100 | 42 | -  | •             | 811-106005 |
| 213-91429 | BT40H100WE16 | 40  | 16 | 100 | 48 | -  | •             | 811-106006 |
| 213-91431 | BT40H100WE20 | 40  | 20 | 100 | 52 | -  | •             | 811-106007 |

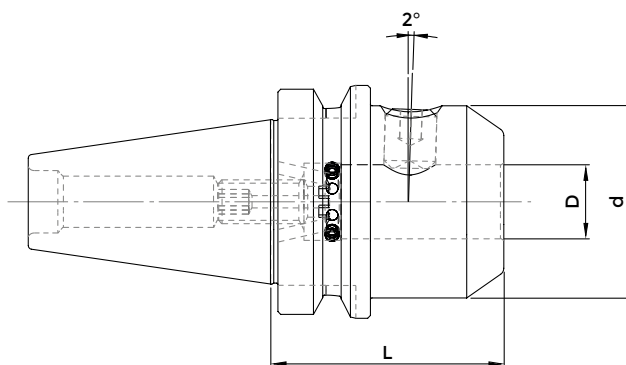
## WELDON END MILL HOLDERS - SHORT SERIES WITH COOLANT CHANNELS



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

| COD.      | DESCRIPTION            | ISO | D  | H   | d  | G6,3<br>12000 | G6,3<br>15000 | 1                                                                                   |
|-----------|------------------------|-----|----|-----|----|---------------|---------------|-------------------------------------------------------------------------------------|
|           |                        |     |    |     |    |               |               | SCREW                                                                               |
|           |                        |     |    |     |    |               |               |  |
| 213-61423 | BT 40 - WEC 6 / H 50   | 40  | 6  | 50  | 25 | -             | •             | 811-106001                                                                          |
| 213-61424 | BT 40 - WEC 8 / H 50   | 40  | 8  | 50  | 28 | -             | •             | 811-106002                                                                          |
| 213-61425 | BT 40 - WEC 10 / H 63  | 40  | 10 | 63  | 35 | -             | •             | 811-106004                                                                          |
| 213-61426 | BT 40 - WEC 12 / H 63  | 40  | 12 | 63  | 42 | -             | •             | 811-106005                                                                          |
| 213-61427 | BT 40 - WEC 14 / H 63  | 40  | 14 | 63  | 44 | -             | •             | 811-106005                                                                          |
| 213-61428 | BT 40 - WEC 16 / H 63  | 40  | 16 | 63  | 48 | -             | •             | 811-106006                                                                          |
| 213-61429 | BT 40 - WEC 18 / H 63  | 40  | 18 | 63  | 50 | -             | •             | 811-106006                                                                          |
| 213-61430 | BT 40 - WEC 20 / H 63  | 40  | 20 | 63  | 52 | -             | •             | 811-106007                                                                          |
| 213-61431 | BT 40 - WEC 25 / H 90  | 40  | 25 | 90  | 65 | -             | •             | 811-106008                                                                          |
| 213-61432 | BT 40 - WEC 32 / H 100 | 40  | 32 | 100 | 72 | -             | •             | 811-106009                                                                          |
| 213-61433 | BT 40 - WEC 40 / H 105 | 40  | 40 | 105 | 80 | -             | •             | 811-106009                                                                          |
| 213-61437 | BT 50 - WEC 12 / H 80  | 50  | 12 | 80  | 42 | •             | -             | 811-106005                                                                          |
| 213-61439 | BT 50 - WEC 16 / H 80  | 50  | 16 | 80  | 48 | •             | -             | 811-106006                                                                          |
| 213-61441 | BT 50 - WEC 20 / H 80  | 50  | 20 | 80  | 52 | •             | -             | 811-106007                                                                          |
| 213-61442 | BT 50 - WEC 25 / H 100 | 50  | 25 | 100 | 65 | •             | -             | 811-106008                                                                          |
| 213-61443 | BT 50 - WEC 32 / H 105 | 50  | 32 | 105 | 72 | •             | -             | 811-106009                                                                          |
| 213-61444 | BT 50 - WEC 40 / H 120 | 50  | 40 | 120 | 80 | •             | -             | 811-106009                                                                          |

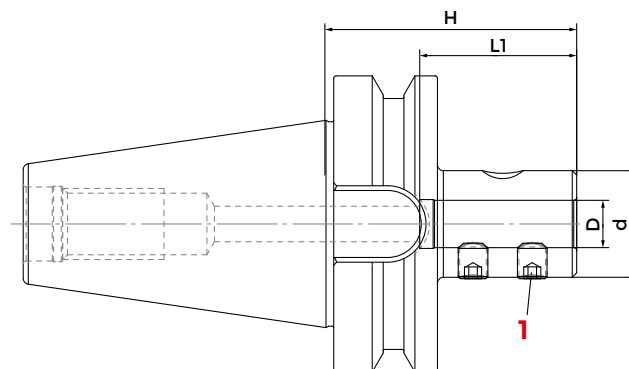
## WHISTLE NOTCH END MILL HOLDERS



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

| COD.      | DESCRIPTION           | ISO | D  | L   | d  | G6.3<br>12000 | 1          |
|-----------|-----------------------|-----|----|-----|----|---------------|------------|
|           |                       |     |    |     |    |               | SCREW      |
|           |                       |     |    |     |    |               |            |
| 4666      | BT 40 - WN 6 / H 50   | 40  | 6  | 50  | 25 | •             | 811-106001 |
| 4667      | BT 40 - WN 8 / H 50   | 40  | 8  | 50  | 28 | •             | 811-106002 |
| 4668      | BT 40 - WN 10 / H 63  | 40  | 10 | 63  | 35 | •             | 811-106004 |
| 4669      | BT 40 - WN 12 / H 63  | 40  | 12 | 63  | 42 | •             | 811-106005 |
| 4670      | BT 40 - WN 14 / H 63  | 40  | 14 | 63  | 44 | •             | 811-106005 |
| 213-31417 | BT 40 - WN 16 / H 63  | 40  | 16 | 63  | 48 | •             | 811-106006 |
| 4672      | BT 40 - WN 18 / H 63  | 40  | 18 | 63  | 50 | •             | 811-106006 |
| 213-31419 | BT 40 - WN 20 / H 63  | 40  | 20 | 63  | 52 | •             | 811-106007 |
| 213-31420 | BT 40 - WN 25 / H 90  | 40  | 25 | 90  | 65 | •             | 811-106008 |
| 213-31421 | BT 40 - WN 32 / H 100 | 40  | 32 | 100 | 72 | •             | 811-106009 |
| 213-31422 | BT 40 - WN 40 / H 105 | 40  | 40 | 105 | 80 | •             | 811-106009 |

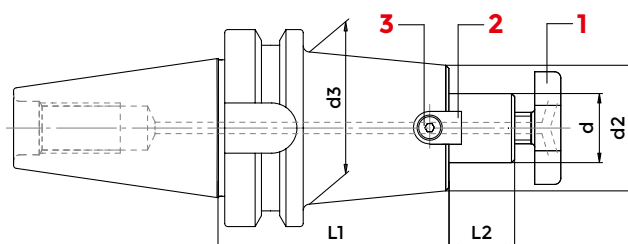
## INDEXABLE DRILL HOLDERS



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

| COD.      | DESCRIPTION     | ISO | D  | d  | H   | L1 | G6.3<br>12000 | 1                                                                                   |
|-----------|-----------------|-----|----|----|-----|----|---------------|-------------------------------------------------------------------------------------|
|           |                 |     |    |    |     |    |               | SCREW                                                                               |
|           |                 |     |    |    |     |    |               |  |
| 8574      | BT 40 - D. 16 P | 40  | 16 | 36 | 75  | 54 | •             | 811-402003                                                                          |
| 217-90989 | BT 40 - D. 20 P | 40  | 20 | 40 | 75  | 54 | •             | 811-402003                                                                          |
| 217-90990 | BT 40 - D. 25 P | 40  | 25 | 45 | 80  | 59 | •             | 811-402005                                                                          |
| 217-90991 | BT 40 - D. 32 P | 40  | 32 | 52 | 85  | 63 | •             | 811-402005                                                                          |
| 8721      | BT 50 - D. 16 P | 50  | 16 | 36 | 80  | 54 | •             | 811-402003                                                                          |
| 217-90993 | BT 50 - D. 20 P | 50  | 20 | 40 | 80  | 54 | •             | 811-402003                                                                          |
| 217-90994 | BT 50 - D. 25 P | 50  | 25 | 45 | 90  | 59 | •             | 811-402005                                                                          |
| 217-90995 | BT 50 - D. 32 P | 50  | 32 | 52 | 90  | 63 | •             | 811-402005                                                                          |
| 217-90996 | BT 50 - D. 40 P | 50  | 40 | 60 | 100 | 73 | •             | 811-402007                                                                          |

## FACE MILL HOLDERS - TENONS DRIVE

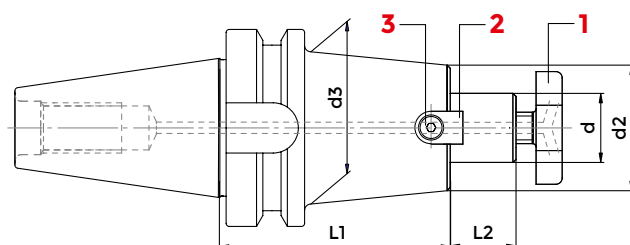


### JIS-B 6339 MAS 403/BT SHAPE AD/B - ISO 3937

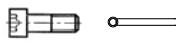
| COD.<br>(AD) | COD.<br>(AD+B) | DESCRIPTION                        | ISO | d  | L1  | L2 | d2 | d3 | G6,3<br>8000 | 1                                                                                   | 2                                                                                   | 3                                                                                   |
|--------------|----------------|------------------------------------|-----|----|-----|----|----|----|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              |                |                                    |     |    |     |    |    |    |              | CROSS<br>SCREW                                                                      | TENON                                                                               | SCREW WRENCH                                                                        |
|              |                |                                    |     |    |     |    |    |    |              |  |  |  |
| 216-71501    | -              | BT 30 - D. 16 FISSO / H 35         | 30  | 16 | 35  | 17 | 38 | -  | •            | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                               |
| 216-71502    | -              | BT 30 - D. 22 FISSO / H 40         | 30  | 22 | 40  | 19 | 48 | -  | •            | 811-107004                                                                          | 814-202250                                                                          | 811-101011 816-130003                                                               |
| 216-71503    | -              | BT 30 - D. 27 FISSO / H 40         | 30  | 27 | 40  | 21 | 58 | -  | •            | 811-107005                                                                          | 814-202270                                                                          | 7414 816-130004                                                                     |
| 216-71507    | 216-71401      | BT 40 - D. 16 FISSO / H 45         | 40  | 16 | 45  | 17 | 38 | -  | •            | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                               |
| 216-71522    | 216-71411      | BT 40 - D. 16 FISSO / H 100        | 40  | 16 | 100 | 17 | 38 | -  | •            | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                               |
| 9420         | 216-71428      | BT 40 - D. 16 FISSO / H 130        | 40  | 16 | 130 | 17 | 38 | -  | •            | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                               |
| 216-71523    | 216-71437      | BT 40 - D. 16 FISSO / H 160        | 40  | 16 | 160 | 17 | 38 | -  | •            | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                               |
| 216-71508    | 216-71402      | BT 40 - D. 22 FISSO / H 45         | 40  | 22 | 45  | 19 | 48 | -  | •            | 811-107004                                                                          | 814-202250                                                                          | 811-101011 816-130003                                                               |
| 216-71526    | 216-71412      | BT 40 - D. 22 FISSO / H 100        | 40  | 22 | 100 | 19 | 46 | 48 | •            | 811-107004                                                                          | 814-202250                                                                          | 811-101011 816-130003                                                               |
| 216-71530    | -              | BT 40 - D. 22 FISSO / H 100 FIS.63 | 40  | 22 | 100 | 19 | 50 | 59 | •            | 811-107004                                                                          | 814-202250                                                                          | 811-101011 816-130003                                                               |
| 9421         | 216-71429      | BT 40 - D. 22 FISSO / H 130        | 40  | 22 | 130 | 19 | 46 | 48 | •            | 811-107004                                                                          | 814-202250                                                                          | 811-101011 816-130003                                                               |
| 216-71527    | 216-71438      | BT 40 - D. 22 FISSO / H 160        | 40  | 22 | 160 | 19 | 46 | 48 | •            | 811-107004                                                                          | 814-202250                                                                          | 811-101011 816-130003                                                               |
| 216-71509    | 216-71403      | BT 40 - D. 27 FISSO / H 45         | 40  | 27 | 45  | 21 | 58 | -  | •            | 811-107005                                                                          | 814-202270                                                                          | 7414 816-130004                                                                     |
| 216-71599    | 216-71413      | BT 40 - D. 27 FISSO / H 100        | 40  | 27 | 100 | 21 | 48 | -  | •            | 811-107005                                                                          | 814-202160                                                                          | 811-101017 816-130004                                                               |
| 9422         | 216-71430      | BT 40 - D. 27 FISSO / H 130        | 40  | 27 | 130 | 21 | 55 | -  | •            | 811-107005                                                                          | 814-202270                                                                          | 7414 816-130004                                                                     |
| 5591         | 216-71452      | BT 40 - D. 27 FISSO / H 160        | 40  | 27 | 160 | 21 | 55 | -  | •            | 811-107005                                                                          | 814-202270                                                                          | 7414 816-130004                                                                     |
| 216-71510    | 216-71404      | BT 40 - D. 32 FISSO / H 50         | 40  | 32 | 50  | 24 | 78 | -  | •            | 811-107006                                                                          | 814-202630                                                                          | 811-101029 816-130005                                                               |
| 266-71501    | 5888           | BT 40 - D. 32 FISSO / H 100        | 40  | 32 | 100 | 24 | 58 | -  | •            | 811-107006                                                                          | 814-202170                                                                          | 811-101027 816-130005                                                               |
| 8419         | 216-71453      | BT 40 - D. 32 FISSO / H 160        | 40  | 32 | 160 | 24 | 66 | -  | •            | 811-107006                                                                          | 814-202290                                                                          | 0207 816-130005                                                                     |
| 216-71511    | 216-71405      | BT 40 - D. 40 FISSO / H 55         | 40  | 40 | 55  | 27 | 88 | -  | •            | 811-107006                                                                          | 814-202290                                                                          | 0207 816-130005                                                                     |
| 266-71502    | 8445           | BT 40 - D. 40 FISSO / H 100        | 40  | 40 | 100 | 27 | 70 | -  | •            | 811-107007                                                                          | 814-202710                                                                          | 811-101029 816-130006                                                               |
| -            | 9025           | BT 40 - D. 40 FISSO / H 130        | 40  | 40 | 130 | 27 | 88 | 60 | •            | 811-107007                                                                          | 814-202180                                                                          | 0207 816-130006                                                                     |
| 8421         | 216-71454      | BT 40 - D. 40 FISSO / H 160        | 40  | 40 | 160 | 27 | 88 | -  | •            | 811-107007                                                                          | 814-202710                                                                          | 811-101029 816-130006                                                               |
| 216-71517    | 216-71406      | BT 50 - D. 16 FISSO / H 60         | 50  | 16 | 60  | 17 | 38 | -  | •            | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                               |
| 216-71589    | 216-71415      | BT 50 - D. 16 FISSO / H 100        | 50  | 16 | 100 | 17 | 38 | -  | •            | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                               |
| 9425         | 216-71432      | BT 50 - D. 16 FISSO / H 130        | 50  | 16 | 130 | 17 | 38 | -  | •            | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                               |
| 216-71591    | 216-71439      | BT 50 - D. 16 FISSO / H 160        | 50  | 16 | 160 | 17 | 38 | -  | •            | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                               |
| 216-71593    | 216-71446      | BT 50 - D. 16 FISSO / H 200        | 50  | 16 | 200 | 17 | 38 | -  | •            | 811-107003                                                                          | 814-202280                                                                          | 811-101004 816-130002                                                               |
| 216-71518    | 216-71407      | BT 50 - D. 22 FISSO / H 60         | 50  | 22 | 60  | 19 | 48 | -  | •            | 811-107004                                                                          | 814-202250                                                                          | 811-101011 816-130003                                                               |
| 216-71534    | 216-71416      | BT 50 - D. 22 FISSO / H 100        | 50  | 22 | 100 | 19 | 46 | 49 | •            | 811-107004                                                                          | 814-202250                                                                          | 811-101011 816-130003                                                               |
| 9492         | -              | BT 50 - D. 22 FISSO / H 100 FIS.63 | 50  | 22 | 100 | 19 | 50 | 60 | •            | 811-107004                                                                          | 814-202250                                                                          | 811-101011 816-130003                                                               |

follows >>

## FACE MILL HOLDERS - TENONS DRIVE



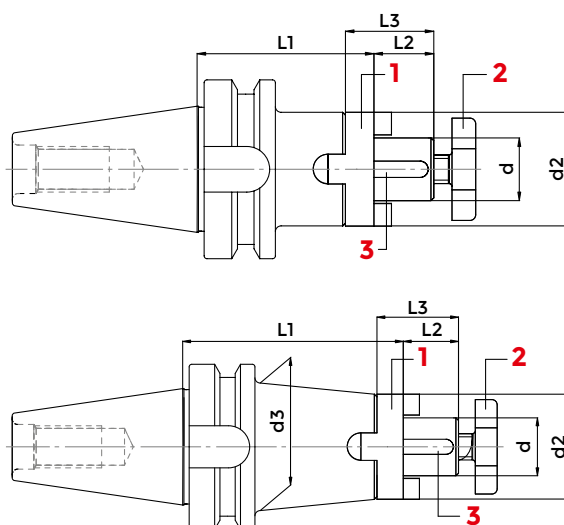
### JIS-B 6339 MAS 403/BT SHAPE AD/B - ISO 3937

| COD.<br>(AD) | COD.<br>(AD+B) | DESCRIPTION                        | ISO | d  | L1  | L2 | d2 | d3 | G6,3<br>8000 | 1                                                                                   | 2                                                                                   | 3                                                                                   |
|--------------|----------------|------------------------------------|-----|----|-----|----|----|----|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              |                |                                    |     |    |     |    |    |    |              | CROSS<br>SCREW                                                                      | TENON                                                                               | SCREW WRENCH                                                                        |
|              |                |                                    |     |    |     |    |    |    |              |  |  |  |
| 9426         | 216-71433      | BT 50 - D. 22 FISSO / H 130        | 50  | 22 | 130 | 19 | 46 | 56 | •            | 811-107004                                                                          | 814-202250                                                                          | 811-101011 816-130003                                                               |
| 216-71535    | 216-71440      | BT 50 - D. 22 FISSO / H 160        | 50  | 22 | 160 | 19 | 46 | 49 | •            | 811-107004                                                                          | 814-202250                                                                          | 811-101011 816-130003                                                               |
| 216-71540    | -              | BT 50 - D. 22 FISSO / H 160 FIS.63 | 50  | 22 | 160 | 19 | 50 | 60 | •            | 811-107004                                                                          | 814-202250                                                                          | 811-101011 816-130003                                                               |
| 216-71541    | -              | BT 50 - D. 22 FISSO / H 200 FIS.63 | 50  | 22 | 200 | 19 | 50 | 60 | •            | 811-107004                                                                          | 814-202250                                                                          | 811-101011 816-130003                                                               |
| 216-71519    | 216-71408      | BT 50 - D. 27 FISSO / H 60         | 50  | 27 | 60  | 21 | 58 | -  | •            | 811-107005                                                                          | 814-202270                                                                          | 7414 816-130004                                                                     |
| 216-71544    | 216-71417      | BT 50 - D. 27 FISSO / H 100        | 50  | 27 | 100 | 21 | 55 | 78 | •            | 811-107005                                                                          | 814-202270                                                                          | 7414 816-130004                                                                     |
| 9427         | 216-71434      | BT 50 - D. 27 FISSO / H 130        | 50  | 27 | 130 | 21 | 55 | 78 | •            | 811-107005                                                                          | 814-202270                                                                          | 7414 816-130004                                                                     |
| 216-71545    | 216-71441      | BT 50 - D. 27 FISSO / H 160        | 50  | 27 | 160 | 21 | 55 | 78 | •            | 811-107005                                                                          | 814-202270                                                                          | 7414 816-130004                                                                     |
| 216-71520    | 216-71409      | BT 50 - D. 32 FISSO / H 60         | 50  | 32 | 60  | 24 | 78 | -  | •            | 811-107006                                                                          | 814-202630                                                                          | 811-101029 816-130005                                                               |
| 216-71590    | 216-71418      | BT 50 - D. 32 FISSO / H 100        | 50  | 32 | 100 | 24 | 66 | 78 | •            | 811-107006                                                                          | 814-202290                                                                          | 811-101029 816-130005                                                               |
| 9428         | 216-71435      | BT 50 - D. 32 FISSO / H 130        | 50  | 32 | 130 | 24 | 66 | 78 | •            | 811-107006                                                                          | 814-202290                                                                          | 811-101029 816-130005                                                               |
| 216-71592    | 216-71442      | BT 50 - D. 32 FISSO / H 160        | 50  | 32 | 160 | 24 | 66 | 78 | •            | 811-107006                                                                          | 814-202290                                                                          | 811-101029 816-130005                                                               |
| 216-71521    | 216-71410      | BT 50 - D. 40 FISSO / H 60         | 50  | 40 | 60  | 27 | 88 | -  | •            | 811-107007                                                                          | 814-202710                                                                          | 811-101029 816-130006                                                               |
| 266-71503    | 216-71419      | BT 50 - D. 40 FISSO / H 100        | 50  | 40 | 100 | 27 | 70 | 78 | •            | 811-107007                                                                          | 814-202180                                                                          | 0207 816-130006                                                                     |
| -            | 216-71436      | BT 50 - D. 40 FISSO / H 130        | 50  | 40 | 130 | 27 | 70 | -  | •            | 811-107007                                                                          | 814-202180                                                                          | 0207 816-130006                                                                     |
| 8434         | 216-71443      | BT 50 - D. 40 FISSO / H 160        | 50  | 40 | 160 | 27 | 70 | 78 | •            | 811-107007                                                                          | 814-202180                                                                          | 0207 816-130006                                                                     |

#### ACCESSORIES



## COMBI-SHELL MILL HOLDERS



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

| COD.      | DESCRIPTION            | ISO | d  | L1  | L2 | L3 | d2 | d3 | G6,3<br>8000 | 1                                                                                   | 2                                                                                   | 3                                                                                   | WRENCH                                                                              |
|-----------|------------------------|-----|----|-----|----|----|----|----|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|           |                        |     |    |     |    |    |    |    |              | COUPLING<br>RING                                                                    | CROSS<br>SCREW                                                                      | KEY                                                                                 |                                                                                     |
|           |                        |     |    |     |    |    |    |    |              |  |  |  |  |
| 216-11527 | BT 30 - D.16 C / H 50  | 30  | 16 | 50  | 17 | 27 | 32 | -  | •            | 814-30001                                                                           | 811-107003                                                                          | 814-201010                                                                          | 816-130002                                                                          |
| 0953      | BT 30 - D.16 C / H 100 | 30  | 16 | 100 | 17 | 27 | 32 | -  | •            | 814-30001                                                                           | 811-107003                                                                          | 814-201010                                                                          | 816-130002                                                                          |
| 216-11528 | BT 30 - D.22 C / H 50  | 30  | 22 | 50  | 19 | 31 | 40 | -  | •            | 814-30002                                                                           | 811-107004                                                                          | 814-201020                                                                          | 816-130003                                                                          |
| 216-11537 | BT 30 - D.22 C / H 100 | 30  | 22 | 100 | 19 | 31 | 40 | -  | •            | 814-30002                                                                           | 811-107004                                                                          | 0016                                                                                | 816-130003                                                                          |
| 3943      | BT 30 - D.27 C / H 55  | 30  | 27 | 55  | 21 | 33 | 48 | -  | •            | 814-30003                                                                           | 811-107005                                                                          | 814-201030                                                                          | 816-130004                                                                          |
| 216-11501 | BT 40 - D.16 C / H 55  | 40  | 16 | 55  | 17 | 27 | 32 | -  | •            | 814-30001                                                                           | 811-107003                                                                          | 814-201010                                                                          | 816-130002                                                                          |
| 216-11517 | BT 40 - D.16 C / H 100 | 40  | 16 | 100 | 17 | 27 | 32 | 44 | •            | 814-30001                                                                           | 811-107003                                                                          | 814-201010                                                                          | 816-130002                                                                          |
| 8483      | BT 40 - D.16 C / H 160 | 40  | 16 | 160 | 17 | 27 | 32 | 44 | •            | 814-30001                                                                           | 811-107003                                                                          | 814-201010                                                                          | 816-130002                                                                          |
| 216-11502 | BT 40 - D.22 C / H 55  | 40  | 22 | 55  | 19 | 31 | 40 | -  | •            | 814-30002                                                                           | 811-107004                                                                          | 814-201020                                                                          | 816-130003                                                                          |
| 216-11518 | BT 40 - D.22 C / H 100 | 40  | 22 | 100 | 19 | 31 | 40 | -  | •            | 814-30002                                                                           | 811-107004                                                                          | 814-201020                                                                          | 816-130003                                                                          |
| 8484      | BT 40 - D.22 C / H 160 | 40  | 22 | 160 | 19 | 31 | 40 | 47 | •            | 814-30002                                                                           | 811-107004                                                                          | 814-201020                                                                          | 816-130003                                                                          |
| 216-11503 | BT 40 - D.27 C / H 55  | 40  | 27 | 55  | 21 | 33 | 48 | -  | •            | 814-30003                                                                           | 811-107005                                                                          | 814-201030                                                                          | 816-130004                                                                          |
| 216-11519 | BT 40 - D.27 C / H 100 | 40  | 27 | 100 | 21 | 33 | 48 | -  | •            | 814-30003                                                                           | 811-107005                                                                          | 814-201030                                                                          | 816-130004                                                                          |
| 8485      | BT 40 - D.27 C / H 160 | 40  | 27 | 160 | 21 | 33 | 48 | 55 | •            | 814-30003                                                                           | 811-107005                                                                          | 814-201030                                                                          | 816-130004                                                                          |
| 216-11504 | BT 40 - D.32 C / H 60  | 40  | 32 | 60  | 24 | 38 | 58 | -  | •            | 814-30004                                                                           | 811-107006                                                                          | 814-201040                                                                          | 816-130005                                                                          |
| 216-11520 | BT 40 - D.32 C / H 100 | 40  | 32 | 100 | 24 | 38 | 58 | -  | •            | 814-30004                                                                           | 811-107006                                                                          | 814-201040                                                                          | 816-130005                                                                          |
| 8486      | BT 40 - D.32 C / H 160 | 40  | 32 | 160 | 24 | 38 | 58 | -  | •            | 814-30004                                                                           | 811-107006                                                                          | 814-201040                                                                          | 816-130005                                                                          |
| 216-11505 | BT 40 - D.40 C / H 60  | 40  | 40 | 60  | 27 | 41 | 70 | -  | •            | 814-30005                                                                           | 811-107007                                                                          | 814-201050                                                                          | 816-130006                                                                          |
| 216-11521 | BT 40 - D.40 C / H 100 | 40  | 40 | 100 | 27 | 41 | 70 | -  | •            | 814-30005                                                                           | 811-107007                                                                          | 814-201050                                                                          | 816-130006                                                                          |
| 216-11507 | BT 50 - D.16 C / H 70  | 50  | 16 | 70  | 17 | 27 | 32 | -  | •            | 814-30001                                                                           | 811-107003                                                                          | 814-201010                                                                          | 816-130002                                                                          |
| 4117      | BT 50 - D.16 C / H 100 | 50  | 16 | 100 | 17 | 27 | 32 | 44 | •            | 814-30001                                                                           | 811-107003                                                                          | 814-201010                                                                          | 816-130002                                                                          |
| 216-11508 | BT 50 - D.22 C / H 70  | 50  | 22 | 70  | 19 | 31 | 40 | -  | •            | 814-30002                                                                           | 811-107004                                                                          | 814-201020                                                                          | 816-130003                                                                          |
| 216-11523 | BT 50 - D.22 C / H 100 | 50  | 22 | 100 | 19 | 31 | 40 | 50 | •            | 814-30002                                                                           | 811-107004                                                                          | 814-201020                                                                          | 816-130003                                                                          |
| 216-11509 | BT 50 - D.27 C / H 70  | 50  | 27 | 70  | 21 | 33 | 48 | -  | •            | 814-30003                                                                           | 811-107005                                                                          | 814-201030                                                                          | 816-130004                                                                          |
| 216-11524 | BT 50 - D.27 C / H 100 | 50  | 27 | 100 | 21 | 33 | 48 | 60 | •            | 814-30003                                                                           | 811-107005                                                                          | 814-201030                                                                          | 816-130004                                                                          |
| 216-11510 | BT 50 - D.32 C / H 70  | 50  | 32 | 70  | 24 | 38 | 58 | -  | •            | 814-30004                                                                           | 811-107006                                                                          | 814-201040                                                                          | 816-130005                                                                          |
| 216-11525 | BT 50 - D.32 C / H 100 | 50  | 32 | 100 | 24 | 38 | 58 | -  | •            | 814-30004                                                                           | 811-107006                                                                          | 814-201040                                                                          | 816-130005                                                                          |
| 3816      | BT 50 - D.40 C / H 70  | 50  | 40 | 70  | 27 | 41 | 70 | -  | •            | 814-30005                                                                           | 811-107007                                                                          | 814-201050                                                                          | 816-130006                                                                          |
| 4121      | BT 50 - D.40 C / H 100 | 50  | 40 | 100 | 27 | 41 | 70 | -  | •            | 814-30005                                                                           | 811-107007                                                                          | 814-201050                                                                          | 816-130006                                                                          |

#### ACCESSORIES

p. 675



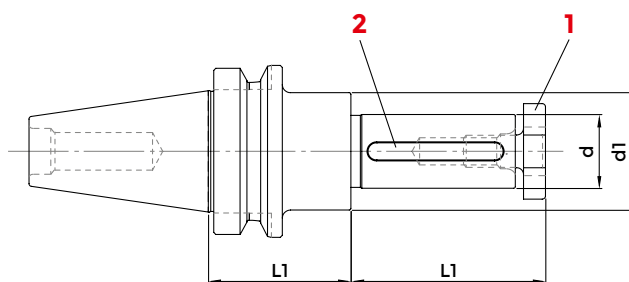
p. 674



p. 675



## MILL HOLDERS WITH FEATHER KEY



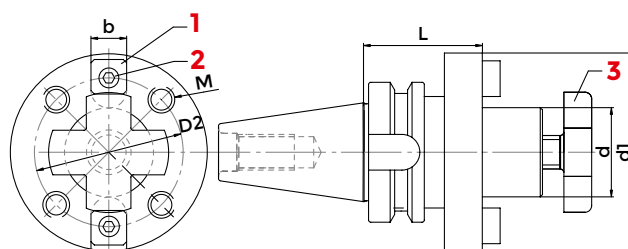
### JIS-B 6339 MAS 403/BT SHAPE A - DIN 6358

| COD. | DESCRIPTION       | ISO | d  | L1 | L2 | d1 | G6.3<br>8000 | 1              | 2    |            |
|------|-------------------|-----|----|----|----|----|--------------|----------------|------|------------|
|      |                   |     |    |    |    |    |              | CROSS<br>SCREW | KEY  | WRENCH     |
|      |                   |     |    |    |    |    |              |                |      |            |
| 8503 | BT 40 - D. 16 CHT | 40  | 16 | 52 | 30 | 28 | •            | 811-107003     | 0147 | 816-130002 |
| 8504 | BT 40 - D. 22 CHT | 40  | 22 | 52 | 40 | 36 | •            | 811-107004     | 0148 | 816-130003 |
| 8505 | BT 40 - D. 27 CHT | 40  | 27 | 52 | 60 | 43 | •            | 811-107005     | 0149 | 816-130004 |
| 8506 | BT 40 - D. 32 CHT | 40  | 32 | 52 | 60 | 48 | •            | 811-107006     | 0150 | 816-130005 |
| 8507 | BT 40 - D. 40 CHT | 40  | 40 | 52 | 60 | 56 | •            | 811-107007     | 0151 | 816-130006 |

#### ACCESSORIES



## FACE MILL HOLDER FOR FACE MILLING CUTTERS



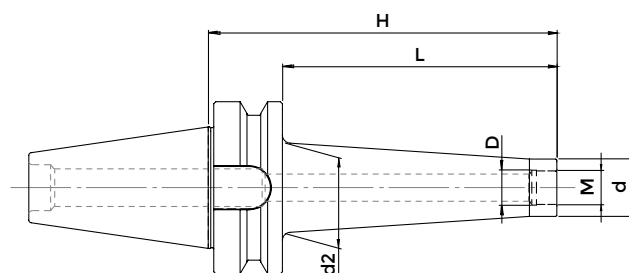
### JIS-B 6339 MAS 403/BT A - DIN 6357

| COD.      | DESCRIPTION      | ISO | d  | L  | d1  | D2    | M    | b    | G6.3<br>8000 | 1          | 2          | 3          |
|-----------|------------------|-----|----|----|-----|-------|------|------|--------------|------------|------------|------------|
|           |                  |     |    |    |     |       |      |      |              | SCREW      | TENON      | KEY        |
|           |                  |     |    |    |     |       |      |      |              |            |            |            |
| 4186      | BT 40 - D. 40 FM | 40  | 40 | 60 | 89  | 66,7  | M 12 | 15,9 | •            | 0207       | 814-202080 | 811-107007 |
| 216-21502 | BT 50 - D. 40 FM | 50  | 40 | 70 | 89  | 66,7  | M 12 | 15,9 | •            | 0207       | 814-202080 | 811-107007 |
| 216-21503 | BT 50 - D. 60 FM | 50  | 60 | 80 | 129 | 101,6 | M16  | 25,4 | •            | 811-101064 | 814-202120 | -          |

#### ACCESSORIES



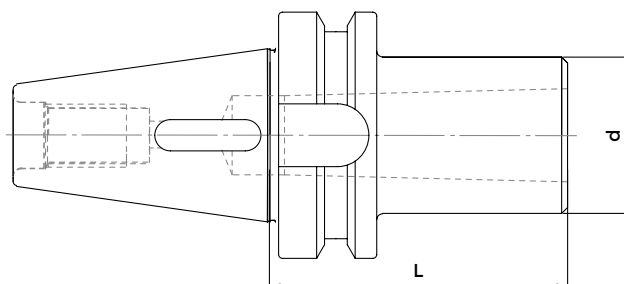
## END MILL HOLDERS FOR MILLING CUTTERS WITH THREADED SHANKS



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

| COD.      | DESCRIPTION          | ISO | M    | D    | d  | d2   | H   | L   | G6.3<br>12000 |
|-----------|----------------------|-----|------|------|----|------|-----|-----|---------------|
| 217-81420 | BT 40 - M 8 / H 55   | 40  | M 8  | 8,5  | 13 | 15   | 55  | 28  | •             |
| 7828      | BT 40 - M 8 / H 77   | 40  | M 8  | 8,5  | 13 | 23   | 77  | 50  | •             |
| 217-81402 | BT 40 - M 8 / H 102  | 40  | M 8  | 8,5  | 13 | 23   | 102 | 75  | •             |
| 7830      | BT 40 - M 8 / H 127  | 40  | M 8  | 8,5  | 13 | 25   | 127 | 100 | •             |
| 217-81421 | BT 40 - M 10 / H 55  | 40  | M 10 | 10,5 | 18 | 20   | 55  | 28  | •             |
| 217-81404 | BT 40 - M 10 / H 77  | 40  | M 10 | 10,5 | 18 | 23   | 77  | 50  | •             |
| 7833      | BT 40 - M 10 / H 102 | 40  | M 10 | 10,5 | 18 | 28   | 102 | 75  | •             |
| 217-81406 | BT 40 - M 10 / H 127 | 40  | M 10 | 10,5 | 18 | 32   | 127 | 100 | •             |
| 217-81422 | BT 40 - M 12 / H 55  | 40  | M 12 | 12,5 | 21 | 24   | 55  | 28  | •             |
| 217-81407 | BT 40 - M 12 / H 77  | 40  | M 12 | 12,5 | 21 | 24   | 77  | 50  | •             |
| 217-81408 | BT 40 - M 12 / H 102 | 40  | M 12 | 12,5 | 21 | 31   | 102 | 75  | •             |
| 217-81409 | BT 40 - M 12 / H 127 | 40  | M 12 | 12,5 | 21 | 33   | 127 | 100 | •             |
| 217-81423 | BT 40 - M 16 / H 55  | 40  | M 16 | 17,0 | 29 | 32   | 55  | 28  | •             |
| 217-81410 | BT 40 - M 16 / H 77  | 40  | M 16 | 17,0 | 29 | 34   | 77  | 50  | •             |
| 217-81411 | BT 40 - M 16 / H 102 | 40  | M 16 | 17,0 | 29 | 34   | 102 | 75  | •             |
| 217-81412 | BT 40 - M 16 / H 127 | 40  | M 16 | 17,0 | 29 | 36   | 127 | 100 | •             |
| 217-81413 | BT 40 - M 16 / H 152 | 40  | M 16 | 17,0 | 29 | 40   | 152 | 125 | •             |
| 217-81414 | BT 50 - M 12 / H 88  | 50  | M 12 | 12,5 | 21 | 24   | 88  | 50  | •             |
| 7845      | BT 50 - M 12 / H 138 | 50  | M 12 | 12,5 | 21 | 33   | 138 | 100 | •             |
| 7846      | BT 50 - M 12 / H 188 | 50  | M 12 | 12,5 | 21 | 40   | 188 | 150 | •             |
| 8719      | BT 50 - M 12 / H 254 | 50  | M 12 | 12,5 | 21 | 42   | 254 | 216 | •             |
| 217-81417 | BT 50 - M 16 / H 88  | 50  | M 16 | 17,0 | 29 | 34   | 88  | 50  | •             |
| 217-81418 | BT 50 - M 16 / H 138 | 50  | M 16 | 17,0 | 29 | 36   | 138 | 100 | •             |
| 217-81419 | BT 50 - M 16 / H 188 | 50  | M 16 | 17,0 | 29 | 42,5 | 188 | 150 | •             |
| 8720      | BT 50 - M 16 / H 254 | 50  | M 16 | 17,0 | 29 | 44   | 254 | 216 | •             |

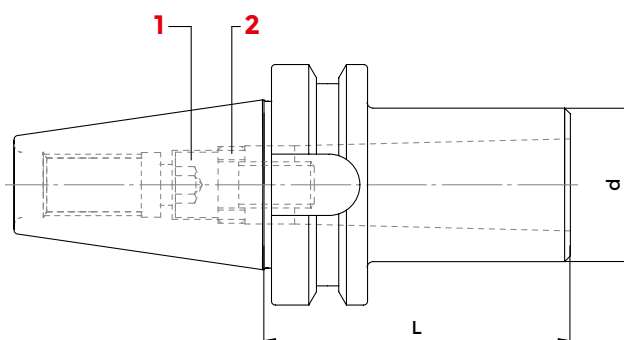
## INDEXABLE MORSE TAPER DRILL HOLDERS



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

| COD.      | DESCRIPTION        | ISO | MORSE | d  | L   | G6.3<br>8000 |
|-----------|--------------------|-----|-------|----|-----|--------------|
| 8346      | BT 30 - CM 1 PUNTE | 30  | 1     | 25 | 50  | •            |
| 3796      | BT 30 - CM 2 PUNTE | 30  | 2     | 32 | 60  | •            |
| 3883      | BT 30 - CM 3 PUNTE | 30  | 3     | 40 | 80  | •            |
| 212-41501 | BT 40 - CM 1 PUNTE | 40  | 1     | 25 | 50  | •            |
| 212-41502 | BT 40 - CM 2 PUNTE | 40  | 2     | 32 | 60  | •            |
| 212-41503 | BT 40 - CM 3 PUNTE | 40  | 3     | 40 | 75  | •            |
| 212-41504 | BT 40 - CM 4 PUNTE | 40  | 4     | 48 | 95  | •            |
| 212-41519 | BT 50 - CM 1 PUNTE | 50  | 1     | 25 | 45  | •            |
| 212-41505 | BT 50 - CM 2 PUNTE | 50  | 2     | 32 | 60  | •            |
| 212-41506 | BT 50 - CM 3 PUNTE | 50  | 3     | 40 | 65  | •            |
| 212-41507 | BT 50 - CM 4 PUNTE | 50  | 4     | 48 | 95  | •            |
| 212-41508 | BT 50 - CM 5 PUNTE | 50  | 5     | 63 | 105 | •            |

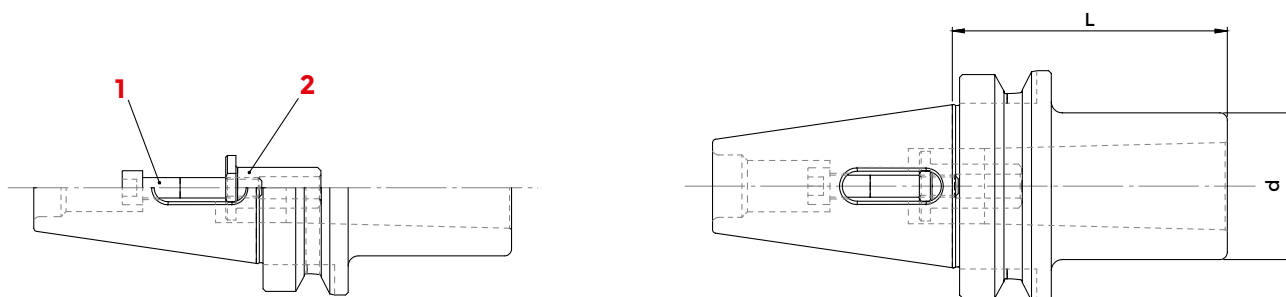
## END MILL HOLDERS FOR MORSE TAPER CUTTERS



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

| COD.      | DESCRIPTION        | ISO | MORSE | d  | L   | G6.3<br>8000 | 1                                                                                     | 2                                                                                     | WRENCH                                                                                |
|-----------|--------------------|-----|-------|----|-----|--------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|           |                    |     |       |    |     |              | SCREW                                                                                 | LEFT NUT                                                                              |                                                                                       |
| 3884      | BT 30 - CM 3 FRESE | 30  | 3     | 40 | 80  | •            |  |  |  |
| 212-21502 | BT 40 - CM 2 FRESE | 40  | 2     | 32 | 50  | •            | 7402                                                                                  | 811-302032                                                                            | 816-20206002                                                                          |
| 212-21503 | BT 40 - CM 3 FRESE | 40  | 3     | 40 | 75  | •            | 811-111007                                                                            | 811-302031                                                                            | 816-20205002                                                                          |
| 212-21504 | BT 40 - CM 4 FRESE | 40  | 4     | 48 | 95  | •            | 7403                                                                                  | 811-302032                                                                            | 816-20206002                                                                          |
| 3801      | BT 50 - CM 2 FRESE | 50  | 2     | 32 | 50  | •            | 7404                                                                                  | 811-302036                                                                            | 816-20207002                                                                          |
| 212-21506 | BT 50 - CM 3 FRESE | 50  | 3     | 40 | 65  | •            | 811-111007                                                                            | 811-302031                                                                            | 816-20205002                                                                          |
| 212-21507 | BT 50 - CM 4 FRESE | 50  | 4     | 48 | 95  | •            | 7403                                                                                  | 811-302032                                                                            | 816-20206002                                                                          |
| 3891      | BT 50 - CM 5 FRESE | 50  | 5     | 63 | 120 | •            | 7407                                                                                  | 811-302036                                                                            | 816-20207002                                                                          |
|           |                    |     |       |    |     |              | 7408                                                                                  | 811-302034                                                                            | 816-20208002                                                                          |

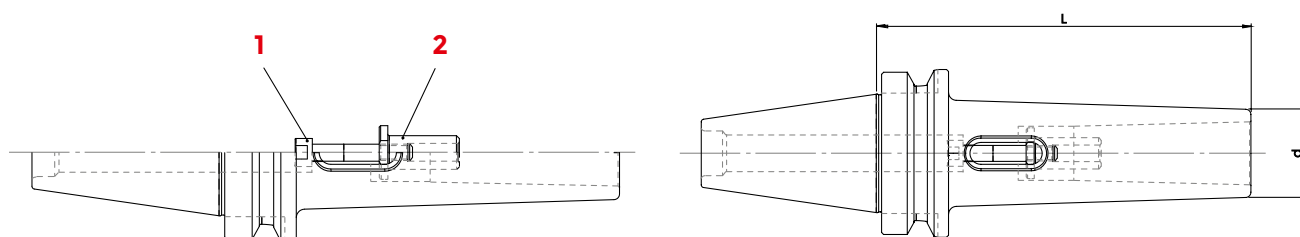
## COMBI MORSE TAPER HOLDERS FOR DRILLS AND MILLING CUTTERS



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

| COD.      | DESCRIPTION       | ISO | MORSE | d  | L  | G6.3<br>8000 | 1                                                                                   | 2                                                                                   |
|-----------|-------------------|-----|-------|----|----|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|           |                   |     |       |    |    |              | SCREW                                                                               | REDUCER                                                                             |
|           |                   |     |       |    |    |              |  |  |
| 212-61518 | BT 40 - CM 1 P+ F | 40  | 1     | 25 | 50 | •            | 7400                                                                                | -                                                                                   |
| 212-61519 | BT 40 - CM 2 P+ F | 40  | 2     | 32 | 60 | •            | 7401                                                                                | -                                                                                   |
| 212-61520 | BT 40 - CM 3 P+ F | 40  | 3     | 40 | 75 | •            | 7400                                                                                | 811-302006                                                                          |
| 3790      | BT 50 - CM 1 P+ F | 50  | 1     | 25 | 45 | •            | 7400                                                                                | -                                                                                   |
| 212-61523 | BT 50 - CM 2 P+ F | 50  | 2     | 32 | 60 | •            | 7405                                                                                | -                                                                                   |
| 212-61524 | BT 50 - CM 3 P+ F | 50  | 3     | 40 | 65 | •            | 811-101070                                                                          | -                                                                                   |
| 212-61525 | BT 50 - CM 4 P+ F | 50  | 4     | 48 | 95 | •            | 7409                                                                                | -                                                                                   |

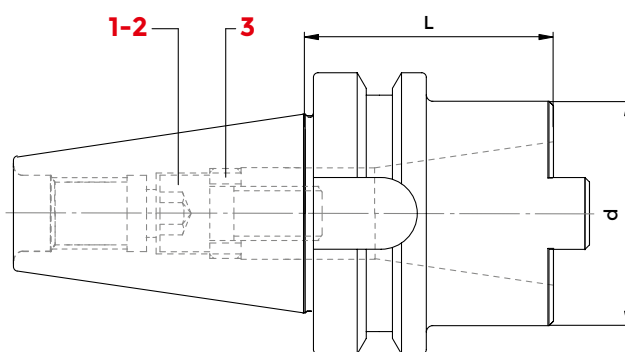
## COMBI MORSE TAPER HOLDERS FOR DRILLS AND MILLING CUTTERS



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

| COD.<br>DRILLS | COD.DRILLS +<br>MILLING CUTTERS | DESCRIPTION  | ISO | MORSE | d  | L   | G6.3<br>8000 | 1                                                                                     | 2                                                                                     |
|----------------|---------------------------------|--------------|-----|-------|----|-----|--------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                |                                 |              |     |       |    |     |              | SCREW                                                                                 | REDUCER                                                                               |
|                |                                 |              |     |       |    |     |              |  |  |
| 8348           | 4258                            | BT 40 - CM 1 | 40  | 1     | 18 | 115 | •            | 7400                                                                                  | -                                                                                     |
| 8350           | 212-61502                       | BT 40 - CM 2 | 40  | 2     | 25 | 120 | •            | 7401                                                                                  | -                                                                                     |
| 8351           | 212-61503                       | BT 40 - CM 3 | 40  | 3     | 33 | 140 | •            | 7400                                                                                  | 811-302006                                                                            |
| 4261           | -                               | BT 40 - CM 4 | 40  | 4     | 40 | 165 | •            | -                                                                                     | -                                                                                     |
| 8353           | 212-61505                       | BT 50 - CM 1 | 50  | 1     | 18 | 120 | •            | 7400                                                                                  | -                                                                                     |
| 8355           | 212-61506                       | BT 50 - CM 2 | 50  | 2     | 25 | 140 | •            | 7405                                                                                  | -                                                                                     |
| 8357           | 212-61507                       | BT 50 - CM 3 | 50  | 3     | 33 | 150 | •            | 811-101070                                                                            | -                                                                                     |
| 8358           | 212-61508                       | BT 50 - CM 4 | 50  | 4     | 40 | 180 | •            | 7409                                                                                  | -                                                                                     |
| 8359           | -                               | BT 50 - CM 5 | 50  | 5     | 55 | 220 | •            | -                                                                                     | -                                                                                     |

## ADAPTER FROM BT TO NT/SK/BT

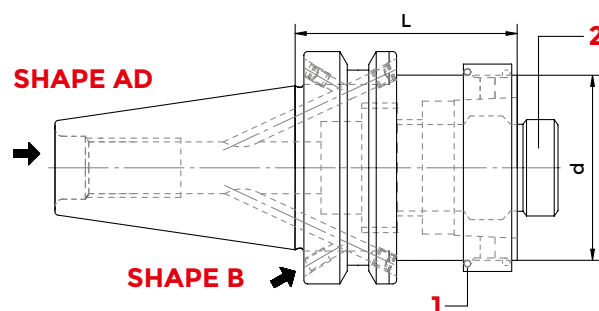


### JIS-B 6339 MAS 403/BT SHAPE A - MAS403BT

| COD.      | DESCRIPTION                    | ISO | d   | L   | G6,3<br>8000 | 1                                                                                  | 2                                                                                   | 3                                                                                   | WRENCH       |
|-----------|--------------------------------|-----|-----|-----|--------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|
|           |                                |     |     |     |              | SCREW<br>DIN 2080                                                                  | SCREW BT<br>DIN 69871                                                               | NUT                                                                                 |              |
|           |                                |     |     |     |              |  |  |  |              |
| 212-11504 | BT 40 - ISO 30 / TC 30 / BT 30 | 30  | 50  | 70  | •            | *811-101065                                                                        | *0177                                                                               | *811-302032                                                                         | 816-20206002 |
| 212-11508 | BT 40 - ISO 40 / TC 40 / BT 40 | 40  | 68  | 100 | •            | *811-401147                                                                        | *811-401150                                                                         | *811-302036                                                                         | 816-20207002 |
| 212-11507 | BT 50 - ISO 40 / TC 40 / BT 40 | 40  | 78  | 70  | •            | *811-401147                                                                        | *811-401150                                                                         | *811-302036                                                                         | 816-20207002 |
| 212-11509 | BT 50 - ISO 50 / TC 50 / BT 50 | 50  | 100 | 120 | •            | *811-401151                                                                        | *811-401152                                                                         | *811-302047                                                                         | 816-202090   |

\*included in delivery

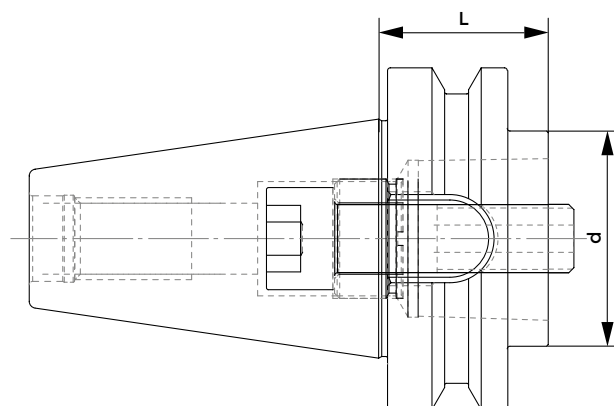
## ADAPTER FROM BT TO DIN69893-1 (HSK A+C)



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

| COD.      | DESCRIPTION        | ISO | d  | L  | G6,3<br>8000 | 1            | 2             |
|-----------|--------------------|-----|----|----|--------------|--------------|---------------|
|           |                    |     |    |    |              | LOCKING RING | CLAMPING UNIT |
| 212-91402 | BT 40 - HSK 63 A+C | 40  | 63 | 80 | •            | H63A-AN      | H63A-UBL      |
| 212-91404 | BT 50 - HSK 63 A+C | 50  | 63 | 70 | •            | H63A-AN      | H63A-UBL      |

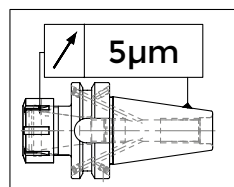
## ADAPTER FROM BT TO ISO26623-1 (POLYGONAL)



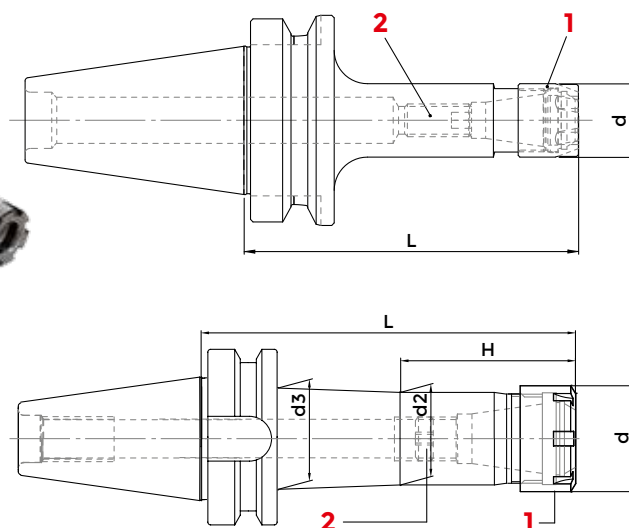
### JIS-B 6339 MAS 403/BT SHAPE AD/B - MAS403BT

| COD.          | DESCRIPTION         | ISO | d  | L  | G6.3<br>8000 |
|---------------|---------------------|-----|----|----|--------------|
| BT40H75C63ADB | BT 40 - C 63 / H 75 | 40  | 63 | 75 | •            |
| BT50H70C40ADB | BT 50 - C 40 / H 70 | 50  | 40 | 70 | •            |
| BT50H90C63ADB | BT 50 - C 63 / H 90 | 50  | 63 | 90 | •            |

## ER COLLET CHUCK WITH MINI NUT



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

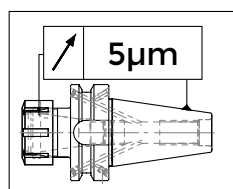


### JIS-B 6339 MAS 403/BT AD/B - DIN 6358

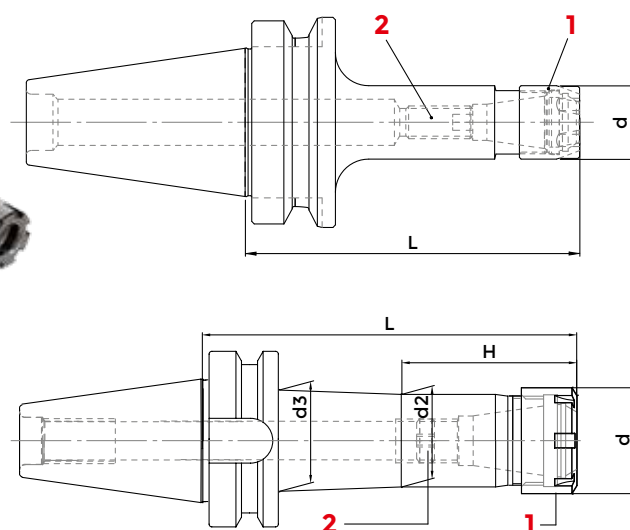
| COD.<br>(AD) | COD.<br>(AD+B) | DESCRIPTION                       | ISO | ER        | d  | d2 | d3 | L   | H   | G6,3<br>12000 | G6,3<br>15000 | 1 2        |            |            |        |
|--------------|----------------|-----------------------------------|-----|-----------|----|----|----|-----|-----|---------------|---------------|------------|------------|------------|--------|
|              |                |                                   |     |           |    |    |    |     |     |               |               | NUT        | SCREW      | WRENCH     | COLLET |
| 214-91448    | -              | BT 30 - ER 11 GM /H 70 SLIM LINE  | 30  | ER 111÷8  | 16 | 16 | 19 | 70  | 20  | -             | •             | 812-203012 | 811-102114 | 816-203008 | ER11   |
| 9655         | -              | BT 30 - ER 11 GM /H 100 SLIM LINE | 30  | ER 111÷8  | 16 | 14 | 20 | 100 | 20  | -             | •             | 812-203012 | 811-102114 | 816-203008 | ER11   |
| 214-31596    | -              | BT 30 - ER 16 GM /H 80 SLIM LINE  | 30  | ER 161÷12 | 22 | 22 | -  | 80  | -   | -             | •             | 812-203013 | 811-102114 | 816-203009 | ER16   |
| 3454         | -              | BT 30 - ER 16 GM /H 120 SLIM LINE | 30  | ER 161÷12 | 22 | 22 | -  | 120 | -   | -             | •             | 812-203013 | 811-102114 | 816-203009 | ER16   |
| 214-91433    | 4855           | BT 40 - ER 11 GM /H 70 SLIM LINE  | 40  | ER 111÷8  | 16 | 14 | 20 | 70  | 20  | -             | •             | 812-203012 | 811-102114 | 816-203008 | ER11   |
| 214-91434    | 4856           | BT 40 - ER 11 GM /H 100 SLIM LINE | 40  | ER 111÷8  | 16 | 14 | 20 | 100 | 40  | -             | •             | 812-203012 | 811-102114 | 816-203008 | ER11   |
| 3272         | 4857           | BT 40 - ER 11 GM /H 130 SLIM LINE | 40  | ER 111÷8  | 16 | 16 | -  | 130 | -   | -             | •             | 812-203012 | 811-102114 | 816-203008 | ER11   |
| 214-91435    | 4858           | BT 40 - ER 11 GM /H 160 SLIM LINE | 40  | ER 111÷8  | 16 | 14 | 27 | 160 | 50  | -             | •             | 812-203012 | 811-102114 | 816-203008 | ER11   |
| 214-91436    | 4859           | BT 40 - ER 16 GM /H 70 SLIM LINE  | 40  | ER 161÷12 | 22 | 22 | 25 | 70  | 27  | -             | •             | 812-203013 | 811-102030 | 816-203009 | ER16   |
| 214-91437    | 4860           | BT 40 - ER 16 GM /H 100 SLIM LINE | 40  | ER 161÷12 | 22 | 22 | 26 | 100 | 47  | -             | •             | 812-203013 | 811-102030 | 816-203009 | ER16   |
| 3457         | 4861           | BT 40 - ER 16 GM /H 130 SLIM LINE | 40  | ER 161÷12 | 22 | 22 | -  | 130 | -   | -             | •             | 812-203013 | 811-102030 | 816-203009 | ER16   |
| 214-91438    | 4862           | BT 40 - ER 16 GM /H 160 SLIM LINE | 40  | ER 161÷12 | 22 | 22 | 26 | 160 | 97  | -             | •             | 812-203013 | 811-102030 | 816-203009 | ER16   |
| 4781         | 4812           | BT 40 - ER 16 GM /H 200 SLIM LINE | 40  | ER 161÷12 | 22 | 22 | -  | 200 | -   | -             | •             | 812-203013 | 811-102030 | 816-203009 | ER16   |
| 214-91450    | 4501           | BT 40 - ER 20 GM /H 70 SLIM LINE  | 40  | ER 201÷15 | 28 | 27 | -  | 70  | -   | -             | •             | 812-203014 | 4973       | 816-203010 | ER20   |
| 214-91451    | 4863           | BT 40 - ER 20 GM /H 100 SLIM LINE | 40  | ER 201÷15 | 28 | 27 | 30 | 100 | 48  | -             | •             | 812-203014 | 4973       | 816-203010 | ER20   |
| 3458         | 4864           | BT 40 - ER 20 GM /H 130 SLIM LINE | 40  | ER 201÷15 | 28 | 27 | -  | 130 | -   | -             | •             | 812-203014 | 4973       | 816-203010 | ER20   |
| 214-91452    | 4865           | BT 40 - ER 20 GM /H 160 SLIM LINE | 40  | ER 201÷15 | 28 | 27 | 31 | 160 | 98  | -             | •             | 812-203014 | 4973       | 816-203010 | ER20   |
| 4782         | 4813           | BT 40 - ER 20 GM /H 200 SLIM LINE | 40  | ER 201÷15 | 28 | 27 | -  | 200 | -   | -             | •             | 812-203014 | 4973       | 816-203010 | ER20   |
| 214-91439    | 4656           | BT 40 - ER 25 GM /H 70 SLIM LINE  | 40  | ER 251÷20 | 35 | 33 | -  | 70  | -   | -             | •             | 812-203015 | 0190       | 816-203011 | ER25   |
| 214-91440    | 4866           | BT 40 - ER 25 GM /H 100 SLIM LINE | 40  | ER 251÷20 | 35 | 33 | -  | 100 | -   | -             | •             | 812-203015 | 0190       | 816-203011 | ER25   |
| 4690         | 4867           | BT 40 - ER 25 GM /H 130 SLIM LINE | 40  | ER 251÷20 | 35 | 33 | -  | 130 | -   | -             | •             | 812-203015 | 0190       | 816-203011 | ER25   |
| 214-91441    | 4868           | BT 40 - ER 25 GM /H 160 SLIM LINE | 40  | ER 251÷20 | 35 | 33 | 33 | 160 | 103 | -             | •             | 812-203015 | 0190       | 816-203011 | ER25   |
| 3460         | 4814           | BT 40 - ER 25 GM /H 200 SLIM LINE | 40  | ER 251÷20 | 35 | 33 | -  | 200 | -   | -             | •             | 812-203015 | 0190       | 816-203011 | ER25   |
| 214-91443    | -              | BT 50 - ER 16 GM /H 100 SLIM LINE | 50  | ER 161÷12 | 22 | 22 | 26 | 100 | 47  | •             | -             | 812-203013 | 811-102030 | 816-203009 | ER16   |
| 3463         | 4869           | BT 50 - ER 16 GM /H 130 SLIM LINE | 50  | ER 161÷12 | 22 | 22 | -  | 130 | -   | •             | -             | 812-203013 | 811-102030 | 816-203009 | ER16   |

follows >>

## ER COLLET CHUCK WITH MINI NUT



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



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

| COD.<br>(AD) | COD.<br>(AD+B) | DESCRIPTION                       | ISO | ER        | d  | d2 | d3 | L   | H   | G6,3<br>12000 | G6,3<br>15000 | 1 2        |            |            |        |
|--------------|----------------|-----------------------------------|-----|-----------|----|----|----|-----|-----|---------------|---------------|------------|------------|------------|--------|
|              |                |                                   |     |           |    |    |    |     |     |               |               | NUT        | SCREW      | WRENCH     | COLLET |
| 214-91444    | 4833           | BT 50 - ER 16 GM /H 160 SLIM LINE | 50  | ER 161÷12 | 22 | 22 | 28 | 160 | 97  | •             | -             | 812-203013 | 811-102030 | 816-203009 | ER16   |
| 3495         | 4834           | BT 50 - ER 16 GM /H 200 SLIM LINE | 50  | ER 161÷12 | 22 | 22 | -  | 200 | -   | •             | -             | 812-203013 | 811-102030 | 816-203009 | ER16   |
| 3464         | 4870           | BT 50 - ER 20 GM /H 130 SLIM LINE | 50  | ER 201÷15 | 28 | 27 | -  | 130 | -   | •             | -             | 812-203014 | 4973       | 816-203010 | ER20   |
| 214-91455    | 4657           | BT 50 - ER 20 GM /H 160 SLIM LINE | 50  | ER 201÷15 | 28 | 27 | -  | 160 | -   | •             | -             | 812-203014 | 4973       | 816-203010 | ER20   |
| 3048         | 4658           | BT 50 - ER 20 GM /H 200 SLIM LINE | 50  | ER 201÷15 | 28 | 27 | -  | 200 | -   | •             | -             | 812-203014 | 4973       | 816-203010 | ER20   |
| 3051         | 4659           | BT 50 - ER 25 GM /H 130 SLIM LINE | 50  | ER 251÷20 | 35 | 34 | -  | 130 | -   | •             | -             | 812-203015 | 0190       | 816-203011 | ER25   |
| 214-91447    | 4871           | BT 50 - ER 25 GM /H 160 SLIM LINE | 50  | ER 251÷20 | 35 | 34 | 40 | 160 | 108 | •             | -             | 812-203015 | 0190       | 816-203011 | ER25   |
| 3061         | 4660           | BT 50 - ER 25 GM /H 200 SLIM LINE | 50  | ER 251÷20 | 35 | 34 | -  | 200 | -   | •             | -             | 812-203015 | 0190       | 816-203011 | ER25   |

#### ACCESSORIES

p. 632



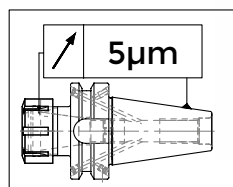
p. 615



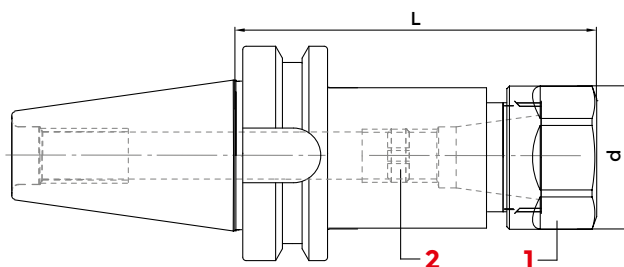
p. 635



## ER COLLET CHUCK WITH HEXAGONAL NUT



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



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

| COD.<br>(AD) | COD.<br>(AD+B) | DESCRIPTION              | ISO | ER         | d  | L   | G6,3<br>15000 | 1                                                                                     | 2                                                                                     | WRENCH                                                                                | COLLET                                                                                |
|--------------|----------------|--------------------------|-----|------------|----|-----|---------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|              |                |                          |     |            |    |     |               | NUT                                                                                   | SCREW                                                                                 |                                                                                       |                                                                                       |
| 214-31511EXA | -              | BT 30 - ER 16 GE / H 55  | 30  | ER 16 1÷12 | 28 | 55  | •             |    |    |    |    |
| 214-31520EXA | -              | BT 30 - ER 16 GE / H 100 | 30  | ER 16 1÷12 | 28 | 100 | •             |   |   |   |   |
| 8086         | -              | BT 30 - ER 20 GE / H 55  | 30  | ER 20 1÷15 | 34 | 55  | •             |  |  |  |  |
| 8087         | -              | BT 30 - ER 20 GE / H 100 | 30  | ER 20 1÷15 | 34 | 100 | •             |  |  |  |  |
| 3447         | 4843           | BT 40 - ER 11 GE / H 70  | 40  | ER 11 1÷ 8 | 19 | 70  | •             |  |  |  |  |
| 3448         | 4844           | BT 40 - ER 11 GE / H 100 | 40  | ER 11 1÷ 8 | 19 | 100 | •             |  |  |  |  |
| 3449         | 4845           | BT 40 - ER 11 GE / H 130 | 40  | ER 11 1÷ 8 | 19 | 130 | •             |  |  |  |  |
| 3450         | 4846           | BT 40 - ER 11 GE / H 160 | 40  | ER 11 1÷ 8 | 19 | 160 | •             |  |  |  |  |
| 214-31539EXA | 8104           | BT 40 - ER 16 GE / H 70  | 40  | ER 16 1÷12 | 28 | 70  | •             |  |  |  |  |
| 214-31527EXA | 8105           | BT 40 - ER 16 GE / H 100 | 40  | ER 16 1÷12 | 28 | 100 | •             |  |  |  |  |
| 8090         | 8106           | BT 40 - ER 16 GE / H 130 | 40  | ER 16 1÷12 | 28 | 130 | •             |  |  |  |  |
| 214-31442EXA | 8107           | BT 40 - ER 16 GE / H 160 | 40  | ER 16 1÷12 | 28 | 160 | •             |  |  |  |  |
| 8092         | -              | BT 40 - ER 16 GE / H 200 | 40  | ER 16 1÷12 | 28 | 200 | •             |  |  |  |  |
| 8093         | 8109           | BT 40 - ER 20 GE / H 70  | 40  | ER 20 1÷15 | 34 | 70  | •             |  |  |  |  |
| 8094         | 8110           | BT 40 - ER 20 GE / H 100 | 40  | ER 20 1÷15 | 34 | 100 | •             |  |  |  |  |
| 8095         | 8111           | BT 40 - ER 20 GE / H 130 | 40  | ER 20 1÷15 | 34 | 130 | •             |  |  |  |  |
| 8096         | 8112           | BT 40 - ER 20 GE / H 160 | 40  | ER 20 1÷15 | 34 | 160 | •             |  |  |  |  |
| 8097         | -              | BT 40 - ER 20 GE / H 200 | 40  | ER 20 1÷15 | 34 | 200 | •             |  |  |  |  |

#### ACCESSORIES

p. 633



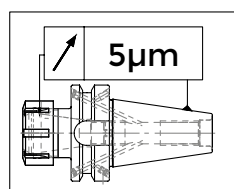
p. 615



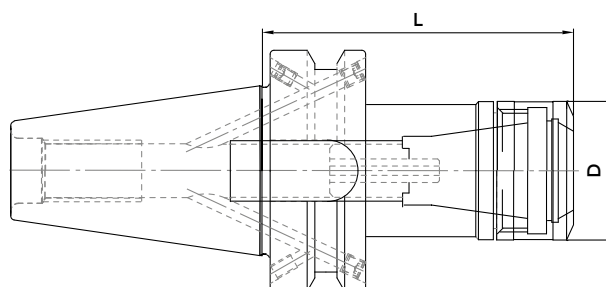
p. 636



## ER COLLET CHUCKS - HIGH PRECISION



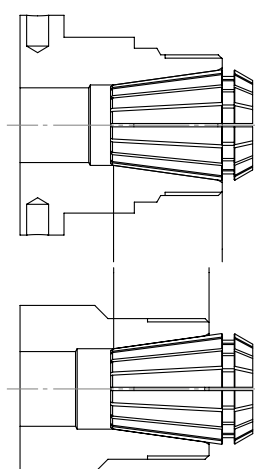
H= 0 > 100 mm - 5 µm  
H= 100 > 200 mm - 10 µm



### MAS BT AD+B - DIN 6499

| COD.       | DESCRIPTION     | ISO | L   | D  | ER | G2.5<br>30000 | NUT        | WRENCH     |
|------------|-----------------|-----|-----|----|----|---------------|------------|------------|
| 214-91473* | BT30H70ER16-HP  | 30  | 70  | 30 | 16 | •             | 812-203085 | 816-203069 |
| 214-91474* | BT30H70ER25-HP  | 30  | 70  | 40 | 25 | •             | 812-203086 | 816-203070 |
| 214-91475* | BT30H70ER32-HP  | 30  | 70  | 50 | 32 | •             | 812-203087 | 816-203071 |
| 214-91462  | BT40H70ER16-HP  | 40  | 70  | 30 | 16 | •             | 812-203085 | 816-203069 |
| 214-91463  | BT40H70ER25-HP  | 40  | 70  | 40 | 25 | •             | 812-203086 | 816-203070 |
| 214-91464  | BT40H70ER32-HP  | 40  | 70  | 50 | 32 | •             | 812-203087 | 816-203071 |
| PP91467    | BT40H100ER16-HP | 40  | 100 | 30 | 16 | •             | 812-203085 | 816-203069 |
| PP91469    | BT40H100ER25-HP | 40  | 100 | 40 | 25 | •             | 812-203086 | 816-203070 |
| 214-91470  | BT40H100ER32-HP | 40  | 100 | 50 | 32 | •             | 812-203087 | 816-203071 |
| 214-91465  | BT50H80ER16-HP  | 50  | 80  | 30 | 16 | •             | 812-203085 | 816-203069 |
| 214-91471  | BT50H100ER16-HP | 50  | 100 | 30 | 16 | •             | 812-203085 | 816-203069 |
| 214-91472  | BT50H100ER32-HP | 50  | 100 | 50 | 32 | •             | 812-203087 | 816-203071 |

\* for BT30, AD shape only



**HIGH  
PRECISION LINE**

**STANDARD**



**Kit:**  
• 1 holder  
• 10 collets

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

#### ACCESSORIES

p. 153



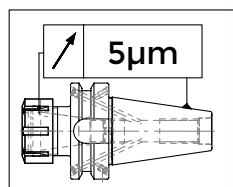
p. 615



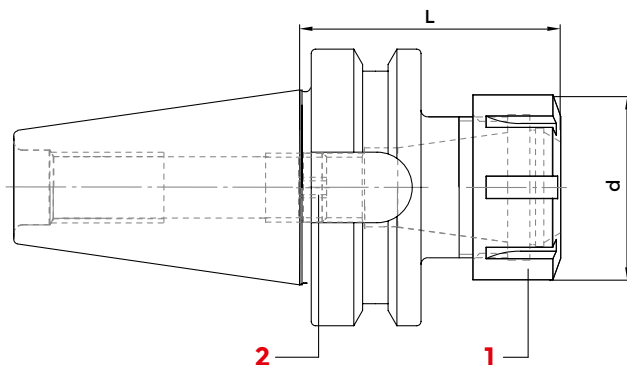
p. 153



## ER COLLET CHUCKS



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

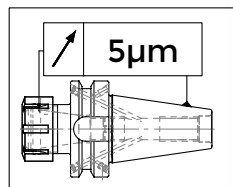


### JIS-B 6339 MAS 403/BT AD - DIN 6499/ISO15488

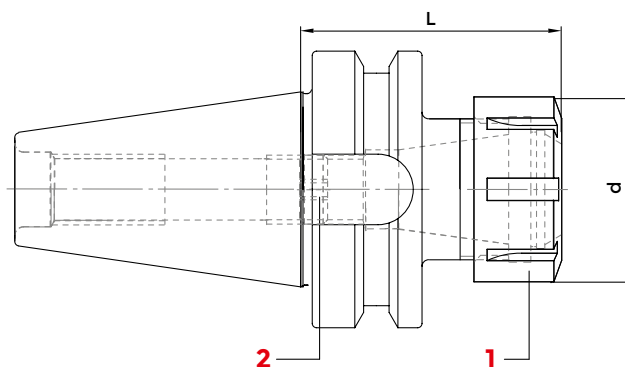
|              |                 |                      |     |            |    |     |               |               | 12                                                                                  |                                                                                     |                                                                                     |                                                                                     |
|--------------|-----------------|----------------------|-----|------------|----|-----|---------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| COD.<br>(AD) | COD.<br>(AD+B)  | DESCRIPTION          | ISO | ER         | d  | L   | G6,3<br>12000 | G6,3<br>15000 | NUT                                                                                 | SCREW                                                                               | WRENCH                                                                              | COLLET                                                                              |
|              |                 |                      |     |            |    |     |               |               |  |  |  |  |
| 214-31511    | -               | BT 30 - ER16 / H 55  | 30  | ER 16 1÷12 | 32 | 55  | -             | •             | 812-203005                                                                          | 811-102030                                                                          | 816-203000                                                                          | ER16                                                                                |
| 214-31520    | -               | BT 30 - ER16 / H 100 | 30  | ER 16 1÷12 | 32 | 100 | -             | •             | 812-203005                                                                          | 811-102030                                                                          | 816-203000                                                                          | ER16                                                                                |
| 214-31585    | -               | BT 30 - ER20 / H 55  | 30  | ER 20 1÷15 | 35 | 55  | -             | •             | 812-203006                                                                          | 811-102030                                                                          | 816-203005                                                                          | ER20                                                                                |
| 214-31573    | -               | BT 30 - ER20 / H 100 | 30  | ER 20 1÷15 | 35 | 100 | -             | •             | 812-203006                                                                          | 811-102030                                                                          | 816-203005                                                                          | ER20                                                                                |
| 214-31512    | -               | BT 30 - ER25 / H 55  | 30  | ER 25 1÷20 | 42 | 55  | -             | •             | 812-203001                                                                          | 0190                                                                                | 816-203001                                                                          | ER25                                                                                |
| 214-31538    | -               | BT 30 - ER25 / H 100 | 30  | ER 25 1÷20 | 42 | 100 | -             | •             | 812-203001                                                                          | 0190                                                                                | 816-203001                                                                          | ER25                                                                                |
| 214-31525    | -               | BT 30 - ER32 / H 60  | 30  | ER 32 2÷25 | 50 | 60  | -             | •             | 812-203002                                                                          | 0190                                                                                | 816-203002                                                                          | ER32                                                                                |
| 3252         | -               | BT 30 - ER32 / H 100 | 30  | ER 32 2÷25 | 50 | 100 | -             | •             | 812-203002                                                                          | 0190                                                                                | 816-203002                                                                          | ER32                                                                                |
| 214-31539    | 214-31447       | BT 40 - ER16 / H 70  | 40  | ER 16 1÷12 | 32 | 70  | -             | •             | 812-203005                                                                          | 811-102038                                                                          | 816-203000                                                                          | ER16                                                                                |
| 214-31527    | 214-31448       | BT 40 - ER16 / H 100 | 40  | ER 16 1÷12 | 32 | 100 | -             | •             | 812-203005                                                                          | 811-102038                                                                          | 816-203000                                                                          | ER16                                                                                |
| 214-31477    | 4847            | BT 40 - ER16 / H 130 | 40  | ER 16 1÷12 | 32 | 130 | -             | •             | 812-203005                                                                          | 811-102038                                                                          | 816-203000                                                                          | ER16                                                                                |
| 214-31442    | 4874            | BT 40 - ER16 / H 160 | 40  | ER 16 1÷12 | 32 | 160 | -             | •             | 812-203005                                                                          | 811-102038                                                                          | 816-203000                                                                          | ER16                                                                                |
| 214-31454    | 4852            | BT 40 - ER16 / H 200 | 40  | ER 16 1÷12 | 32 | 200 | -             | •             | 812-203005                                                                          | 811-102038                                                                          | 816-203000                                                                          | ER16                                                                                |
| 214-31555    | 214-31474       | BT 40 - ER20 / H 70  | 40  | ER 20 1÷15 | 35 | 70  | -             | •             | 812-203006                                                                          | 4973                                                                                | 816-203005                                                                          | ER20                                                                                |
| 214-31556    | 214-31475       | BT 40 - ER20 / H 100 | 40  | ER 20 1÷15 | 35 | 100 | -             | •             | 812-203006                                                                          | 4973                                                                                | 816-203005                                                                          | ER20                                                                                |
| 214-31478    | 4853            | BT 40 - ER20 / H 130 | 40  | ER 20 1÷15 | 35 | 130 | -             | •             | 812-203006                                                                          | 4973                                                                                | 816-203005                                                                          | ER20                                                                                |
| 3114         | 4877            | BT 40 - ER20 / H 160 | 40  | ER 20 1÷15 | 35 | 160 | -             | •             | 812-203006                                                                          | 4973                                                                                | 816-203005                                                                          | ER20                                                                                |
| 3499         | 4854            | BT 40 - ER20 / H 200 | 40  | ER 20 1÷15 | 35 | 200 | -             | •             | 812-203006                                                                          | 4973                                                                                | 816-203005                                                                          | ER20                                                                                |
| 214-31501    | 214-31422       | BT 40 - ER25 / H 70  | 40  | ER 25 1÷20 | 42 | 70  | -             | •             | 812-203001                                                                          | 0190                                                                                | 816-203001                                                                          | ER25                                                                                |
| 214-31542    | 214-31439       | BT 40 - ER25 / H 100 | 40  | ER 25 1÷20 | 42 | 100 | -             | •             | 812-203001                                                                          | 0190                                                                                | 816-203001                                                                          | ER25                                                                                |
| 214-31479    | 4880            | BT 40 - ER25 / H 130 | 40  | ER 25 1÷20 | 42 | 130 | -             | •             | 812-203001                                                                          | 0190                                                                                | 816-203001                                                                          | ER25                                                                                |
| 214-31432    | BT40H160ER25ADB | BT 40 - ER25 / H 160 | 40  | ER 25 1÷20 | 42 | 160 | -             | •             | 812-203001                                                                          | 0190                                                                                | 816-203001                                                                          | ER25                                                                                |
| 214-31455    | 4811            | BT 40 - ER25 / H 200 | 40  | ER 25 1÷20 | 42 | 200 | -             | •             | 812-203001                                                                          | 0190                                                                                | 816-203001                                                                          | ER25                                                                                |
| 214-31502    | 214-31423       | BT 40 - ER32 / H 70  | 40  | ER 32 2÷25 | 50 | 70  | -             | •             | 812-203002                                                                          | 811-303118                                                                          | 816-203002                                                                          | ER32                                                                                |
| 214-31545    | 214-31440       | BT 40 - ER32 / H 100 | 40  | ER 32 2÷25 | 50 | 100 | -             | •             | 812-203002                                                                          | 811-303118                                                                          | 816-203002                                                                          | ER32                                                                                |
| 214-31480    | 4884            | BT 40 - ER32 / H 130 | 40  | ER 32 2÷25 | 50 | 130 | -             | •             | 812-203002                                                                          | 811-303118                                                                          | 816-203002                                                                          | ER32                                                                                |
| 214-31433    | 4885            | BT 40 - ER32 / H 160 | 40  | ER 32 2÷25 | 50 | 160 | -             | •             | 812-203002                                                                          | 811-303118                                                                          | 816-203002                                                                          | ER32                                                                                |
| 214-31456    | 4886            | BT 40 - ER32 / H 200 | 40  | ER 32 2÷25 | 50 | 200 | -             | •             | 812-203002                                                                          | 811-303118                                                                          | 816-203002                                                                          | ER32                                                                                |
| 214-31515    | 214-31424       | BT 40 - ER40 / H 70  | 40  | ER 40 3÷32 | 63 | 70  | -             | •             | 812-203003                                                                          | 0195                                                                                | 816-203003                                                                          | ER40                                                                                |
| 214-31583    | 214-31449       | BT 40 - ER40 / H 100 | 40  | ER 40 3÷32 | 63 | 100 | -             | •             | 812-203003                                                                          | 0195                                                                                | 816-203003                                                                          | ER40                                                                                |

follows >>

## ER COLLET CHUCKS



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



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

| COD.<br>(AD)       | COD.<br>(AD+B) | DESCRIPTION          | ISO | ER         | d  | L   | G6,3<br>12000 | G6,3<br>15000 | 1                                                                                   | 2                                                                                   | WRENCH                                                                              | COLLET                                                                              |
|--------------------|----------------|----------------------|-----|------------|----|-----|---------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                    |                |                      |     |            |    |     |               |               | NUT                                                                                 | SCREW                                                                               |                                                                                     |                                                                                     |
|                    |                |                      |     |            |    |     |               |               |  |  |  |  |
| 214-31481          | 4889           | BT 40 - ER40 / H 130 | 40  | ER 40 3÷32 | 63 | 130 | -             | •             | 812-203003                                                                          | 0195                                                                                | 816-203003                                                                          | ER40                                                                                |
| 214-31451          | 4890           | BT 40 - ER40 / H 160 | 40  | ER 40 3÷32 | 63 | 160 | -             | •             | 812-203003                                                                          | 0195                                                                                | 816-203003                                                                          | ER40                                                                                |
| 214-31457          | 4891           | BT 40 - ER40 / H 200 | 40  | ER 40 3÷32 | 63 | 200 | -             | •             | 812-203003                                                                          | 0195                                                                                | 816-203003                                                                          | ER40                                                                                |
| 3265               | 4931           | BT 40 - ER50 / H 85  | 40  | ER 50 6÷36 | 78 | 85  | -             | •             | 812-203007                                                                          | 0195                                                                                | 816-203004                                                                          | ER50                                                                                |
| 9008               | -              | BT 50 - ER16 / H 80  | 50  | ER 16 1÷12 | 32 | 80  | •             | -             | 812-203005                                                                          | 811-102038                                                                          | 816-203000                                                                          | ER16                                                                                |
| 214-31450          | 4892           | BT 50 - ER16 / H 100 | 50  | ER 16 1÷12 | 32 | 100 | •             | -             | 812-203005                                                                          | 811-102038                                                                          | 816-203000                                                                          | ER16                                                                                |
| 214-31452          | 4893           | BT 50 - ER16 / H 160 | 50  | ER 16 1÷12 | 32 | 160 | •             | -             | 812-203005                                                                          | 811-102038                                                                          | 816-203000                                                                          | ER16                                                                                |
| 214-31458          | 4957           | BT 50 - ER16 / H 200 | 50  | ER 16 1÷12 | 32 | 200 | •             | -             | 812-203005                                                                          | 811-102038                                                                          | 816-203000                                                                          | ER16                                                                                |
| 3119               | 4894           | BT 50 - ER20 / H 100 | 50  | ER 20 1÷15 | 35 | 100 | •             | -             | 812-203006                                                                          | 4973                                                                                | 816-203005                                                                          | ER20                                                                                |
| 3120               | 4895           | BT 50 - ER20 / H 160 | 50  | ER 20 1÷15 | 35 | 160 | •             | -             | 812-203006                                                                          | 4973                                                                                | 816-203005                                                                          | ER20                                                                                |
| 214-31549          | 214-31429      | BT 50 - ER25 / H 80  | 50  | ER 25 1÷20 | 42 | 80  | •             | -             | 812-203001                                                                          | 0190                                                                                | 816-203001                                                                          | ER25                                                                                |
| 214-31438          | 4897           | BT 50 - ER25 / H 100 | 50  | ER 25 1÷20 | 42 | 100 | •             | -             | 812-203001                                                                          | 0190                                                                                | 816-203001                                                                          | ER25                                                                                |
| 214-31453          | 4898           | BT 50 - ER25 / H 160 | 50  | ER 25 1÷20 | 42 | 160 | •             | -             | 812-203001                                                                          | 0190                                                                                | 816-203001                                                                          | ER25                                                                                |
| 214-31459          | 4959           | BT 50 - ER25 / H 200 | 50  | ER 25 1÷20 | 42 | 200 | •             | -             | 812-203001                                                                          | 0190                                                                                | 816-203001                                                                          | ER25                                                                                |
| 214-31503          | 214-31430      | BT 50 - ER32 / H 80  | 50  | ER 32 2÷25 | 50 | 80  | •             | -             | 812-203002                                                                          | 811-303118                                                                          | 816-203002                                                                          | ER32                                                                                |
| 214-31434          | 4900           | BT 50 - ER32 / H 100 | 50  | ER 32 2÷25 | 50 | 100 | •             | -             | 812-203002                                                                          | 811-303118                                                                          | 816-203002                                                                          | ER32                                                                                |
| BT50H130ER32AD4901 |                | BT 50 - ER32 / H 130 | 50  | ER 32 2÷25 | 50 | 130 | •             | -             | 812-203002                                                                          | 811-303118                                                                          | 816-203002                                                                          | ER32                                                                                |
| 214-31435          | 4902           | BT 50 - ER32 / H 160 | 50  | ER 32 2÷25 | 50 | 160 | •             | -             | 812-203002                                                                          | 811-303118                                                                          | 816-203002                                                                          | ER32                                                                                |
| 214-31460          | 4903           | BT 50 - ER32 / H 200 | 50  | ER 32 2÷25 | 50 | 200 | •             | -             | 812-203002                                                                          | 811-303118                                                                          | 816-203002                                                                          | ER32                                                                                |
| 3400               | 4961           | BT 50 - ER32 / H 250 | 50  | ER 32 2÷25 | 50 | 250 | •             | -             | 812-203002                                                                          | 811-303118                                                                          | 816-203002                                                                          | ER32                                                                                |
| 214-31504          | 214-31431      | BT 50 - ER40 / H 80  | 50  | ER 40 3÷32 | 63 | 80  | •             | -             | 812-203003                                                                          | 0195                                                                                | 816-203003                                                                          | ER40                                                                                |
| 214-31436          | 4905           | BT 50 - ER40 / H 100 | 50  | ER 40 3÷32 | 63 | 100 | •             | -             | 812-203003                                                                          | 0195                                                                                | 816-203003                                                                          | ER40                                                                                |
| 214-31510          | 4906           | BT 50 - ER40 / H 130 | 50  | ER 40 3÷32 | 63 | 130 | •             | -             | 812-203003                                                                          | 0195                                                                                | 816-203003                                                                          | ER40                                                                                |
| 214-31437          | 4907           | BT 50 - ER40 / H 160 | 50  | ER 40 3÷32 | 63 | 160 | •             | -             | 812-203003                                                                          | 0195                                                                                | 816-203003                                                                          | ER40                                                                                |
| 214-31461          | 4908           | BT 50 - ER40 / H 200 | 50  | ER 40 3÷32 | 63 | 200 | •             | -             | 812-203003                                                                          | 0195                                                                                | 816-203003                                                                          | ER40                                                                                |
| 3473               | 4999           | BT 50 - ER50 / H 100 | 50  | ER 50 6÷36 | 78 | 100 | •             | -             | 812-203007                                                                          | 0195                                                                                | 816-203004                                                                          | ER50                                                                                |
| 8046               | 8047           | BT 50 - ER50 / H 160 | 50  | ER 50 6÷36 | 78 | 160 | •             | -             | 812-203007                                                                          | 0195                                                                                | 816-203004                                                                          | ER50                                                                                |

#### ACCESSORIES

p. 633



p. 615



p. 636



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



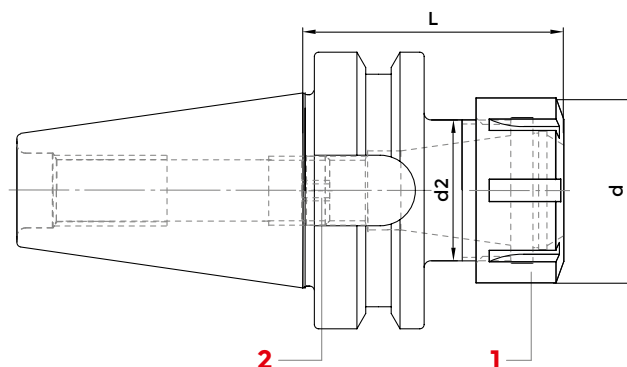
| COD. | DESCRIPTION                  | ISO | CHUCK                                                                             | CASE                                                                              | WRENCH                                                                              | COLLET                                                                              |
|------|------------------------------|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|      |                              |     |  |  |  |  |
| 7784 | KIT Rid BT 30 / H 55 - ER 25 | 30  | 214-31512                                                                         | 7022                                                                              | 816-203001                                                                          | ER25: Ø 4 - 6 - 8 -10 -12 -16                                                       |
| 7785 | KIT Rid BT 30 / H 60 - ER 32 | 30  | 214-31525                                                                         | 7023                                                                              | 816-203002                                                                          | ER32: Ø 4 - 6 - 8 -10 -12 -16 - 20                                                  |
| 7786 | KIT Rid BT 40 / H 70 - ER 25 | 40  | 214-31501                                                                         | 7022                                                                              | 816-203001                                                                          | ER25: Ø 4 - 6 - 8 -10 -12 -16                                                       |
| 7787 | KIT Rid BT 40 / H 70 - ER 32 | 40  | 214-31502                                                                         | 7023                                                                              | 816-203002                                                                          | ER32: Ø 4 - 6 - 8 -10 -12 -16 - 20                                                  |
| 7788 | KIT Rid BT 40 / H 70 - ER 40 | 40  | 214-31515                                                                         | 7024                                                                              | 816-203003                                                                          | ER40: Ø 4 - 6 - 8 -10 -12 -16 - 20 -25                                              |
| 7789 | KIT Rid BT 50 / H 80 - ER 32 | 50  | 214-31503                                                                         | 7023                                                                              | 816-203002                                                                          | ER32: Ø 4 - 6 - 8 -10 -12 -16 - 20                                                  |
| 7790 | KIT Rid BT 50 / H 80 - ER 40 | 50  | 214-31504                                                                         | 7024                                                                              | 816-203003                                                                          | ER40: Ø 4 - 6 - 8 -10 -12 -16 - 20 -25                                              |

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



| COD. | DESCRIPTION              | ISO | CHUCK                                                                               | CASE                                                                                | WRENCH                                                                                | COLLET                                                                                |
|------|--------------------------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|      |                          |     |  |  |  |  |
| 7791 | KIT BT 30 / H 55 - ER 25 | 30  | 214-31512                                                                           | 7022                                                                                | 816-203001                                                                            | ER25: Ø 2 ÷ 16 (15 Pinze)                                                             |
| 7792 | KIT BT 30 / H 60 - ER 32 | 30  | 214-31525                                                                           | 7023                                                                                | 816-203002                                                                            | ER32: Ø 3 ÷ 20 (18 Pinze)                                                             |
| 7793 | KIT BT 40 / H 70 - ER 25 | 40  | 214-31501                                                                           | 7022                                                                                | 816-203001                                                                            | ER25: Ø 2 ÷ 16 (15 Pinze)                                                             |
| 7794 | KIT BT 40 / H 70 - ER 32 | 40  | 214-31502                                                                           | 7023                                                                                | 816-203002                                                                            | ER32: Ø 3 ÷ 20 (18 Pinze)                                                             |
| 7795 | KIT BT 40 / H 70 - ER 40 | 40  | 214-31515                                                                           | 7024                                                                                | 816-203003                                                                            | ER40: Ø 4 ÷ 26 (23 Pinze)                                                             |
| 7796 | KIT BT 50 / H 80 - ER 32 | 50  | 214-31503                                                                           | 7023                                                                                | 816-203002                                                                            | ER32: Ø 3 ÷ 20 (18 Pinze)                                                             |
| 7797 | KIT BT 50 / H 80 - ER 40 | 50  | 214-31504                                                                           | 7024                                                                                | 816-203003                                                                            | ER40: Ø 4 ÷ 26 (23 Pinze)                                                             |

## ER COLLET CHUCKS - HIGH SPEED LINE



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

### HIGH SPEED LINE

| COD.      | DESCRIPTION  | ISO | ER | d  | d2   | L   | G2,5<br>30000 | 2                                                                                   |
|-----------|--------------|-----|----|----|------|-----|---------------|-------------------------------------------------------------------------------------|
|           |              |     |    |    |      |     |               | SCREW                                                                               |
|           |              |     |    |    |      |     |               |  |
| 214-91458 | BT30H60ER16  | 30  | 16 | 32 | 22   | 60  | •             | 811-102030                                                                          |
| 214-91459 | BT30H60ER20  | 30  | 20 | 35 | 25   | 60  | •             | 811-102030                                                                          |
| 214-91460 | BT30H60ER25  | 30  | 25 | 42 | 32   | 60  | •             | 0190                                                                                |
| 214-91461 | BT30H60ER32  | 30  | 32 | 50 | 40   | 60  | •             | 0190                                                                                |
| 214-91401 | BT40H70ER16  | 40  | 16 | 32 | 22   | 70  | •             | 811-102030                                                                          |
| 214-91408 | BT40H100ER16 | 40  | 16 | 32 | 31.5 | 100 | •             | 811-102030                                                                          |
| 214-91402 | BT40H70ER25  | 40  | 25 | 42 | 32   | 70  | •             | 0190                                                                                |
| 214-91409 | BT40H100ER25 | 40  | 25 | 42 | 41.5 | 100 | •             | 0190                                                                                |
| 214-91403 | BT40H70ER32  | 40  | 32 | 50 | 40   | 70  | •             | 0190                                                                                |
| 214-91410 | BT40H100ER32 | 40  | 32 | 50 | 49.5 | 100 | •             | 0190                                                                                |
| 214-91406 | BT50H80ER32  | 50  | 32 | 50 | 40   | 80  | •             | 0190                                                                                |

#### ACCESSORIES



p. 633



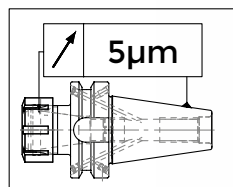
p. 615



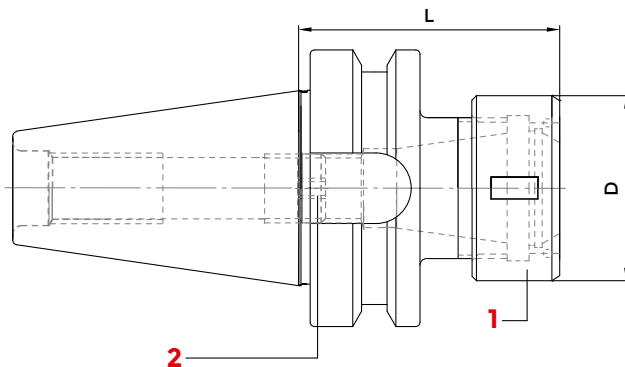
p. 636



## DIN6388 (EOC) COLLET CHUCKS



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



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

| COD. | DESCRIPTION            | ISO | EOC         | d  | L   | G6.3<br>12000 | G6.3<br>15000 | 1     | 2          |        |
|------|------------------------|-----|-------------|----|-----|---------------|---------------|-------|------------|--------|
|      |                        |     |             |    |     |               |               | NUT   | WRENCH     | COLLET |
| 8726 | BT 40 - EOC 16 / H 70  | 40  | EOC 16 2÷16 | 43 | 70  | -             | •             |       |            |        |
| 8729 | BT 40 - EOC 25 / H 70  | 40  | EOC 25 2÷25 | 60 | 70  | -             | •             | GOC25 | 816-203034 | EOC25  |
| 8732 | BT 40 - EOC 32 / H 80  | 40  | EOC 32 3÷32 | 72 | 80  | -             | •             | GOC32 | 816-203036 | EOC32  |
| 8735 | BT 50 - EOC 25 / H 85  | 50  | EOC 25 2÷25 | 60 | 85  | •             | -             | GOC25 | 816-203034 | EOC25  |
| 8738 | BT 50 - EOC 32 / H 95  | 50  | EOC 32 3÷32 | 72 | 95  | •             | -             | GOC32 | 816-203036 | EOC32  |
| 8739 | BT 50 - EOC 32 / H 130 | 50  | EOC 32 3÷32 | 72 | 130 | •             | -             | GOC32 | 816-203036 | EOC32  |

### ACCESSORIES



p. 687



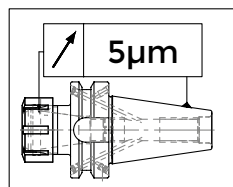
p. 686



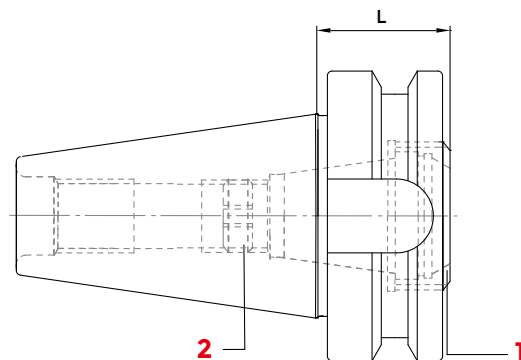
p. 637



## ER SHORT COLLET CHUCK WITH INNER NUT



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



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

| COD.      | DESCRIPTION      | ISO | L  | ER         | G6.3<br>12000 | G6.3<br>15000 | 1          | 2        |        |
|-----------|------------------|-----|----|------------|---------------|---------------|------------|----------|--------|
|           |                  |     |    |            |               |               | NUT        | WRENCH   | COLLET |
| 214-31462 | BT 40 - ER 25 GA | 40  | 29 | ER 25 1÷20 | -             | •             |            |          |        |
| 214-31571 | BT 40 - ER 32 GA | 40  | 29 | ER 32 2÷25 | -             | •             | 812-203032 | CHER32EX | ER32   |
| 214-31463 | BT 50 - ER 32 GA | 50  | 40 | ER 32 2÷25 | •             | -             | 812-203032 | CHER32EX | ER32   |

#### ACCESSORIES

p. 634



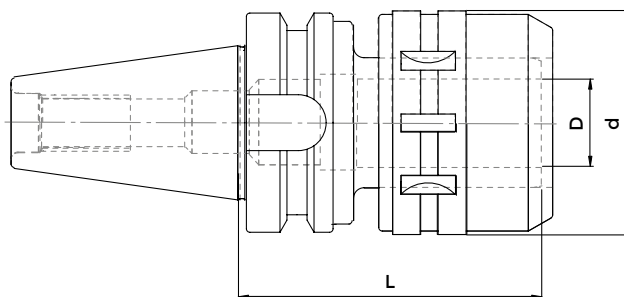
p. 615



p. 634



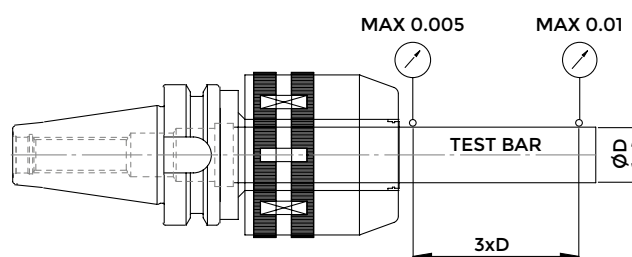
## MILLING CHUCK



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

| COD.<br>(AD) | COD.<br>(AD+B) | DESCRIPTION           | ISO | D  | L   | d  | G6.3<br>12000 | COLLET                                                                              |
|--------------|----------------|-----------------------|-----|----|-----|----|---------------|-------------------------------------------------------------------------------------|
|              |                |                       |     |    |     |    |               |  |
| 214-01508    | 214-01601      | BT 40 - PC 20 / H 80  | 40  | 20 | 80  | 54 | •             | OGX20                                                                               |
| 214-01501    | -              | BT 40 - PC 20 / H 105 | 40  | 20 | 105 | 54 | •             | OGX20                                                                               |
| -            | 214-01602      | BT 40 - PC 32 / H 85  | 40  | 32 | 85  | 63 | •             | OGX32                                                                               |
| 214-01502    | -              | BT 40 - PC 32 / H 105 | 40  | 32 | 105 | 72 | •             | OGX32                                                                               |
| 5133         | 9650           | BT 40 - PC 32 / H 135 | 40  | 32 | 135 | 63 | •             | OGX32                                                                               |
| 214-01504    | 9651           | BT 50 - PC 20 / H 105 | 50  | 20 | 105 | 54 | •             | OGX20                                                                               |
| -            | 9652           | BT 50 - PC 20 / H 135 | 50  | 20 | 135 | 50 | •             | OGX20                                                                               |
| 214-01505    | 9653           | BT 50 - PC 32 / H 105 | 50  | 32 | 105 | 72 | •             | OGX32                                                                               |
| 214-01506    | 9654           | BT 50 - PC 32 / H 135 | 50  | 32 | 135 | 72 | •             | OGX32                                                                               |

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



#### ACCESSORIES



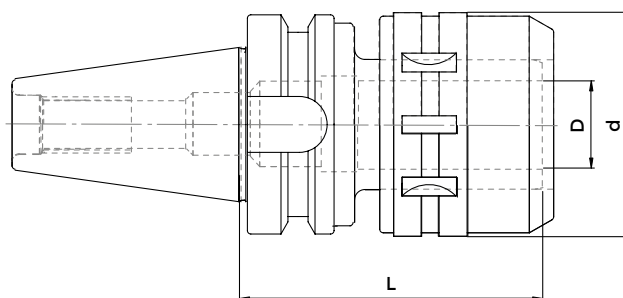
p. 688

## MILLING CHUCK KIT



| COD.         | DESCRIPTION               | ISO | CHUCK                                                                             | CASE                                                                              | WRENCH                                                                              | COLLET                                                                              |
|--------------|---------------------------|-----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              |                           |     |  |  |  |  |
| KITBT40C20   | KIT BT 40 - PC 20 / H 80  | 40  | 214-01508                                                                         | 3695                                                                              | 2900                                                                                | 0809 Ø 6 - 8 - 10 - 12 - 16                                                         |
| KITBT40C20DK | KIT BT 40 - PC 20 / H 105 | 40  | 214-01501                                                                         | 3695                                                                              | 2900                                                                                | 0809 Ø 6 - 8 - 10 - 12 - 16                                                         |
| KITBT40C32DK | KIT BT 40 - PC 32 / H 105 | 40  | 214-01502                                                                         | 3695                                                                              | 816-203036                                                                          | 0810 Ø 6 - 8 - 10 - 12 - 16 - 20 - 25                                               |
| KITBT50C20   | KIT BT 50 - PC 20 / H 105 | 50  | 214-01504                                                                         | 3695                                                                              | 2900                                                                                | 0809 Ø 6 - 8 - 10 - 12 - 16                                                         |
| KITBT50C32   | KIT BT 50 - PC 32 / H 105 | 50  | 214-01505                                                                         | 3695                                                                              | 816-203036                                                                          | 0810 Ø 6 - 8 - 10 - 12 - 16 - 20 - 25                                               |

## MILLING CHUCK - HIGH SPEED LINE



### JIS-B 6339 MAS 403/BT

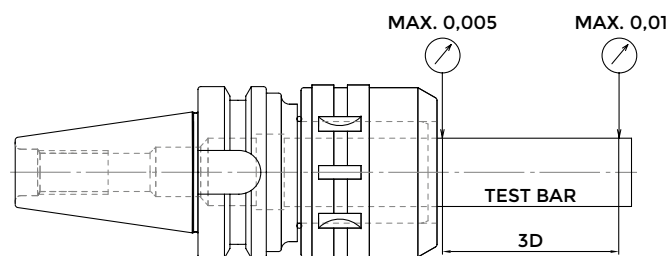
### HIGH SPEED LINE

| COD.      | DESCRIPTION   | ISO | D  | d  | L   | G6.3<br>20000 |
|-----------|---------------|-----|----|----|-----|---------------|
| 214-01510 | BT40H80C20HS  | 40  | 20 | 54 | 80  | •             |
| 214-01511 | BT40H105C20HS | 40  | 20 | 54 | 105 | •             |
| 214-01513 | BT50H105C20HS | 50  | 20 | 54 | 105 | •             |
| 214-01514 | BT50H105C32HS | 50  | 32 | 74 | 105 | •             |

### ACCESSORIES



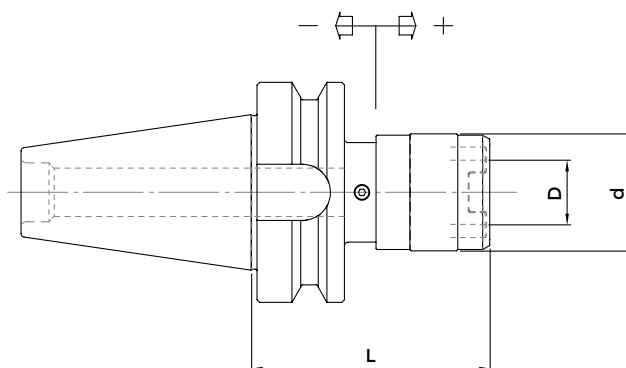
## MILLING CHUCK KIT - HIGH SPEED LINE



### HIGH SPEED LINE

| COD.           | DESCRIPTION                                              |
|----------------|----------------------------------------------------------|
| KIT BT40 C20HS | Nº1 BT40 L90 C20 + nº5 collets K20: Ø6,8,10,12,16        |
| KIT BT40 C32HS | Nº1 BT40 L105 C32 + nº7 collets K32: Ø6,8,10,12,16,20,25 |

## TENSION/COMPRESSION QUICK CHANGE TAPPING HEADS

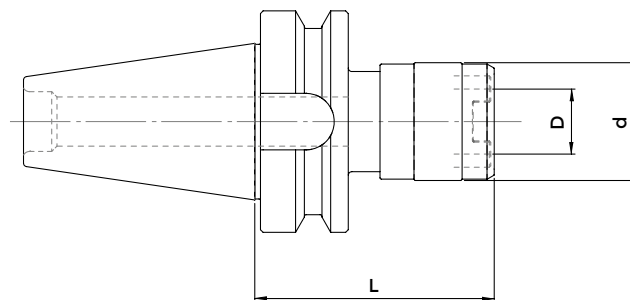


### JIS-B 6339 MAS 403/BT A

| COD.  | DESCRIPTION  | ISO | D  | d  | L   | RANGE        | TAP SIZE RANGE        |
|-------|--------------|-----|----|----|-----|--------------|-----------------------|
| 2863  | BT 30 - B. 1 | 30  | 19 | 38 | 63  | -7,5 + 7,5   | M 3 ÷ M 12 (* M 18 )  |
| 2865  | BT 30 - B. 2 | 30  | 31 | 55 | 96  | -12,5 + 12,5 | M 6 ÷ M 20 (* M 30 )  |
| M3310 | BT 40 - B. 1 | 40  | 19 | 38 | 68  | -7,5 + 7,5   | M 3 ÷ M 12 (* M 18 )  |
| M3410 | BT 40 - B. 2 | 40  | 31 | 55 | 93  | -12,5 + 12,5 | M 6 ÷ M 20 (* M 30 )  |
| 3526  | BT 40 - B. 3 | 40  | 48 | 79 | 164 | -20,0 + 20,0 | M 14 ÷ M 33 (* M 48 ) |
| M3320 | BT 50 - B. 1 | 50  | 19 | 38 | 80  | -7,5 + 7,5   | M 3 ÷ M 12 (* M 18 )  |
| M3430 | BT 50 - B. 2 | 50  | 31 | 55 | 102 | -12,5 + 12,5 | M 6 ÷ M 20 (* M 30 )  |
| M3530 | BT 50 - B. 3 | 50  | 48 | 79 | 133 | -20,0 + 20,0 | M 14 ÷ M 33 (* M 48 ) |

\* Adapters with screws

## SOLID TAPPING HEADS

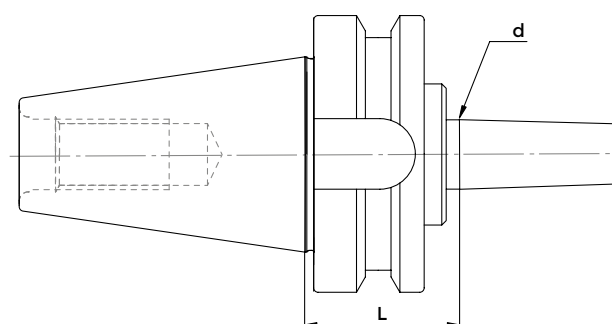


### JIS-B 6339 MAS 403/BT A

| COD.  | DESCRIPTION        | ISO | D  | d  | L   | TAP SIZE RANGE        |
|-------|--------------------|-----|----|----|-----|-----------------------|
| M6010 | BT 40 - B. 1 FISSO | 40  | 19 | 33 | 67  | M 3 ÷ M 12 (* M 18 )  |
| M6020 | BT 40 - B. 2 FISSO | 40  | 31 | 50 | 90  | M 6 ÷ M 20 (* M 30 )  |
| 5711  | BT 40 - B. 3 FISSO | 40  | 48 | 72 | 117 | M 14 ÷ M 33 (* M 48 ) |

\* Adapters with screws

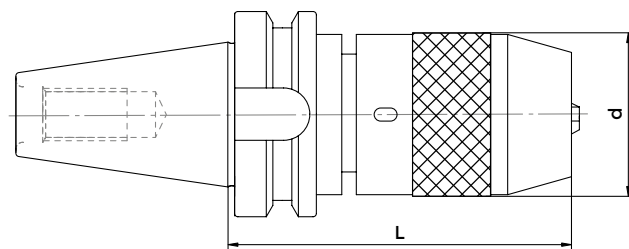
## DRILL CHUCKS ADAPTERS



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

| COD.      | DESCRIPTION  | ISO | L  | d      | G6.3<br>8000 |
|-----------|--------------|-----|----|--------|--------------|
| 3994      | BT 30 - B 16 | 30  | 40 | 15,733 | •            |
| 3865      | BT 40 - B 12 | 40  | 40 | 12,065 | •            |
| 216-31502 | BT 40 - B 16 | 40  | 40 | 15,733 | •            |
| 3995      | BT 40 - B 18 | 40  | 40 | 17,78  | •            |
| 3996      | BT 50 - B 16 | 50  | 45 | 15,733 | •            |
| 3997      | BT 50 - B 18 | 50  | 45 | 17,78  | •            |

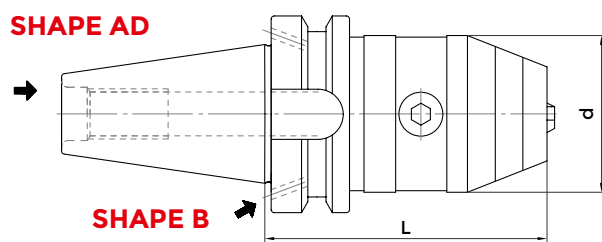
## DRILL CHUCKS - RIGHT SPIN



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

| COD.      | DESCRIPTION   | ISO | DRILL RANGE | L   | d  | G6.3 8000 | CLAMPS                                                                              | SCREW                                                                               | WRENCH                                                                              |
|-----------|---------------|-----|-------------|-----|----|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|           |               |     |             |     |    |           |  |  |  |
| 8593      | BT 30 - DC 13 | 30  | 0,5 ÷ 13    | 90  | 50 | •         | 832-012020                                                                          | 9021                                                                                | 816-111024                                                                          |
| 252-11501 | BT 40 - DC 13 | 40  | 0,5 ÷ 13    | 90  | 50 | •         | 832-012020                                                                          | 9021                                                                                | 816-111024                                                                          |
| 252-11502 | BT 40 - DC 16 | 40  | 3 ÷ 16      | 120 | 57 | •         | 832-012021                                                                          | 9023                                                                                | 816-111025                                                                          |
| 252-11503 | BT 50 - DC 13 | 50  | 0,5 ÷ 13    | 110 | 50 | •         | 832-012020                                                                          | 9021                                                                                | 816-111024                                                                          |
| 252-11504 | BT 50 - DC 16 | 50  | 3 ÷ 16      | 110 | 57 | •         | 832-012021                                                                          | 9023                                                                                | 816-111025                                                                          |

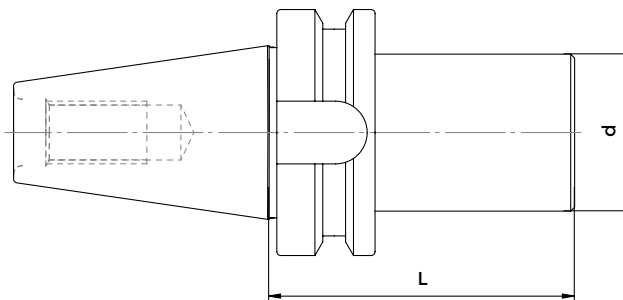
## DRILL CHUCKS LEFT AND RIGHT SPIN



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

| COD. (AD) | COD. (AD+B) | DESCRIPTION    | ISO | DRILL RANGE | L   | d  | G6.3 8000 | SCREW                                                                                 |
|-----------|-------------|----------------|-----|-------------|-----|----|-----------|---------------------------------------------------------------------------------------|
|           |             |                |     |             |     |    |           |  |
| 252-11400 | -           | BT 30 - DCU 13 | 30  | 0,5 ÷ 13    | 100 | 50 | •         | 816-152001                                                                            |
| 252-11410 | 8599        | BT 40 - DCU 13 | 40  | 0,5 ÷ 13    | 98  | 50 | •         | 816-152001                                                                            |
| 252-11411 | 8600        | BT 40 - DCU 16 | 40  | 3 ÷ 16      | 103 | 50 | •         | 816-152001                                                                            |
| 252-11412 | 8601        | BT 50 - DCU 13 | 50  | 0,5 ÷ 13    | 110 | 50 | •         | 816-152001                                                                            |
| 252-11413 | 8602        | BT 50 - DCU 16 | 50  | 3 ÷ 16      | 112 | 50 | •         | 816-152001                                                                            |

## BLANK BARS



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

| COD.      | DESCRIPTION      | ISO | d  | L   |
|-----------|------------------|-----|----|-----|
| 217-41502 | BT 40 - D. 40 ST | 40  | 40 | 160 |
| 4368      | BT 40 - D. 50 ST | 40  | 50 | 200 |
| 9490      | BT 40 - D. 63 ST | 40  | 63 | 160 |
| 217-41504 | BT 40 - D. 63 ST | 40  | 63 | 250 |
| 4372      | BT 50 - D. 63 ST | 50  | 63 | 250 |
| 217-41507 | BT 50 - D. 80 ST | 50  | 80 | 300 |