

BT CATEGORY

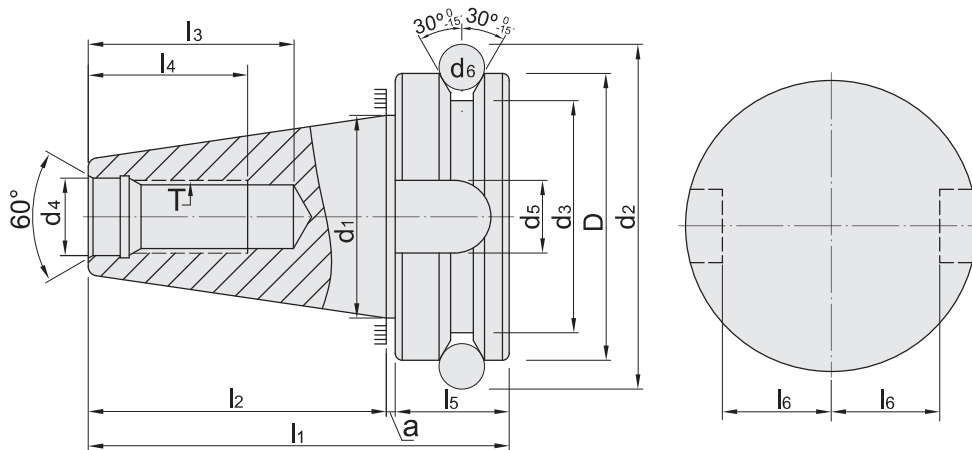
MAS 403

| | |
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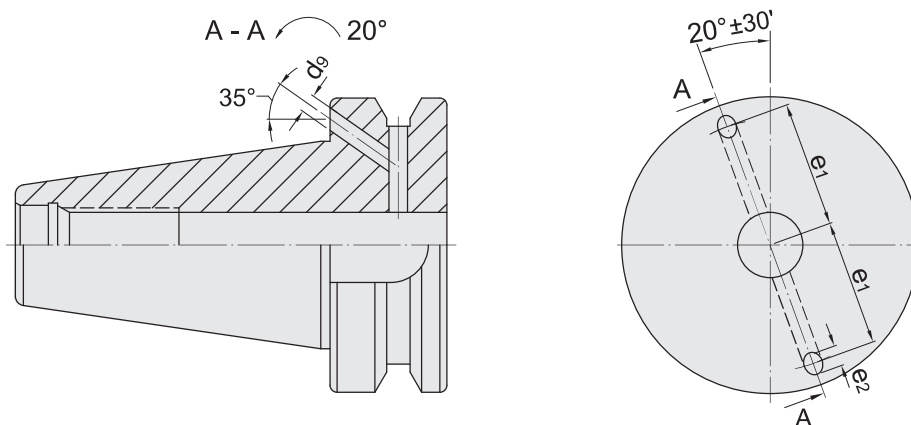
REFERENCE DETAILS

- ▶ Shank body standard : **JIS MAS 403**
- ▶ Taper tolerance < **AT3**
- ▶ Hardness > **HRC 56°**
- ▶ Surface roughness: Ra < **0.25 μm**
- ▶ Roundness < **0.8 μm**
- ▶ Carbon depth > **0.8mm**
- ▶ The shank has pre-balance at G6.3, and can provide precision balance at G2.5.
It can be ordered by request.

MAS403/BT A



MAS403/BT AD+B



| BT | D _{h8} | d ₁ | d ₂ | d ₃ | d ₄ _{H8} | d ₅ _{H12} | d ₆ | d ₉ _{H12} | a _{±0.4} |
|----|-----------------|--------------------------------|-------------------------------|-------------------------------|------------------------------|--------------------------------------|--------------------------------|-------------------------------|-------------------|
| 30 | 46 | 31.75 | 56.14 | 38 | 12.5 | 16.1 | 8 | - | 2 |
| 40 | 63 | 44.45 | 75.679 | 53 | 17 | 16.1 | 10 | 4 | 2 |
| 50 | 100 | 69.85 | 119.02 | 85 | 25 | 25.7 | 15 | 6 | 3 |
| BT | l ₁ | l ₂ _{±0.2} | l ₃ _{min} | l ₄ _{min} | l ₅ | l ₆ _{0 -0.2} | e ₁ _{±0.1} | e ₂ _{MAX} | T _{6H} |
| 30 | 70.4 | 48.4 | 34 | 24 | 20 | 16.3 | - | - | M12 x 1.75P |
| 40 | 92.4 | 65.4 | 43 | 30 | 25 | 22.6 | 27 | 5 | M16 x 2.0P |
| 50 | 139.8 | 101.8 | 62 | 45 | 35 | 35.4 | 42 | 7 | M24 x 3.0P |

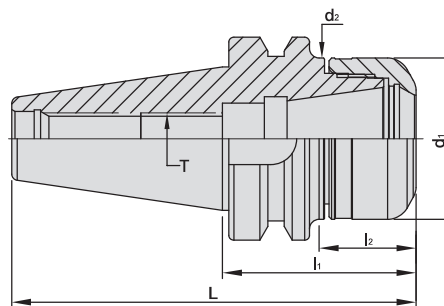
BT / PNER COLLET CHUCK



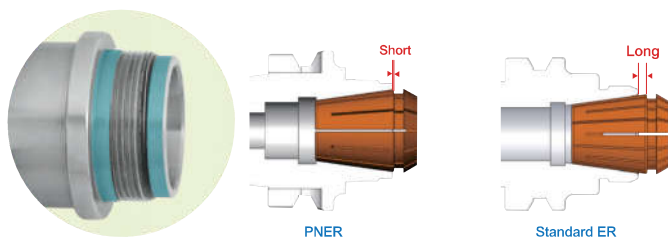
BT / PNER 立銑刀夾頭



T W PAT NO. M298033
 T W PAT NO. M311791
 T W PAT NO. M501316
 J P PAT NO. 3128766
 J P PAT NO. 3200356
 K R PAT NO. 20-0433603
 C N PAT NO. ZL200620132661.0
 C H PAT NO. 696550
 T R PAT NO. TR 2007 02942 Y
 I T PAT NO. N.0000266731
 D E PAT NO. Nr.202015005621



| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | SIZE RANGE | WEIGHT (KGS) |
|-------------|---------------------|-------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 16704 | BT30 x PNER16 - 50 | 98.4 | 50 | 25 | 30 | 30 | M10 x 1.5P | 3 ~ 10 | 0.80 |
| 16704 - 70 | BT30 x PNER16 - 70 | 118.4 | 70 | 47 | 30 | 30 | M10 x 1.5P | 3 ~ 10 | 0.70 |
| 16706 | BT30 x PNER20 - 60 | 108.4 | 60 | 37 | 32 | 32 | M12 x 1.75P | 3 ~ 13 | 0.80 |
| 16708 | BT30 x PNER25 - 60 | 108.4 | 60 | 37 | 40 | 40 | M16 x 2.0P | 3 ~ 16 | 0.90 |
| 16710 | BT30 x PNER32 - 60 | 108.4 | 60 | 33 | 50 | 50 | - | 3 ~ 20 | 1.00 |
| 16714 | BT40 x PNER16 - 70 | 135.4 | 70 | 40 | 30 | 30 | M10 x 1.5P | 3 ~ 10 | 1.12 |
| 16714 - 130 | BT40 x PNER16 - 130 | 195.4 | 130 | 93 | 30 | 30 | M10 x 1.5P | 3 ~ 10 | 1.36 |
| 16714 - 160 | BT40 x PNER16 - 160 | 225.4 | 160 | 123 | 30 | 30 | M10 x 1.5P | 3 ~ 10 | 1.49 |
| 16716 | BT40 x PNER20 - 70 | 135.4 | 70 | 40 | 32 | 32 | M12 x 1.75P | 3 ~ 13 | 1.14 |
| 16716 - 130 | BT40 x PNER20 - 130 | 195.4 | 130 | 93 | 32 | 32 | M12 x 1.75P | 3 ~ 13 | 1.41 |
| 16716 - 160 | BT40 x PNER20 - 160 | 225.4 | 160 | 123 | 32 | 32 | M12 x 1.75P | 3 ~ 13 | 1.56 |
| 16718 | BT40 x PNER25 - 70 | 135.4 | 70 | 40 | 40 | 40 | M16 x 2.0P | 3 ~ 16 | 1.19 |
| 16718 - 130 | BT40 x PNER25 - 130 | 195.4 | 130 | 98 | 40 | 40 | M16 x 2.0P | 3 ~ 16 | 1.66 |
| 16718 - 160 | BT40 x PNER25 - 160 | 225.4 | 160 | 128 | 40 | 40 | M16 x 2.0P | 3 ~ 16 | 1.92 |
| 16720 | BT40 x PNER32 - 70 | 135.4 | 70 | 40 | 50 | 50 | M16 x 2.0P | 3 ~ 20 | 1.20 |
| 16720 - 130 | BT40 x PNER32 - 130 | 195.4 | 130 | 100 | 50 | 50 | M16 x 2.0P | 3 ~ 20 | 2.07 |
| 16720 - 160 | BT40 x PNER32 - 160 | 225.4 | 160 | 130 | 50 | 50 | M16 x 2.0P | 3 ~ 20 | 2.49 |
| 16722 | BT40 x PNER40 - 70 | 135.4 | 70 | 38 | 63 | 63 | M20 x 2.0P | 6 ~ 26 | 1.40 |



Features:

- ▶ PN collet is well covered in PNER tool holder, improving overall runout accuracy and the machining stability.

Product information:

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.
- ▶ MAS/BT30 tool holders are without coolant supply over collars.
- ▶ Use PN 3µm collet.

Standard Accessory: • NUT

| Collet | Nut | Pull Stud | Preset Screw | Spanner |
|--------|--------|-----------|--------------|-----------|
| | | | | |
| P.W-5 | P.W-45 | P.W-60~61 | P.W-88 | P.W-68~73 |



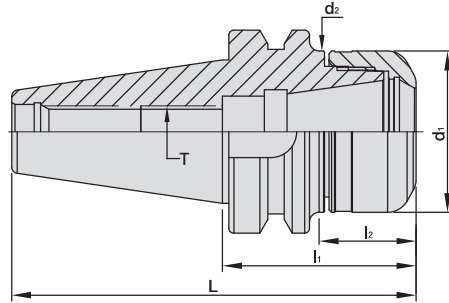
BT / PNER COLLET CHUCK



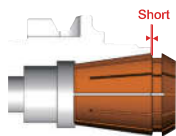
BT / PNER 立銑刀夾頭



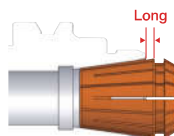
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 I T PAT NO. N.0000266731
 D E PAT NO. Nr.202015005621



| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | SIZE RANGE | WEIGHT (KGS) |
|-------------|---------------------|-------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 16728 | BT50 x PNER16 - 70 | 171.8 | 70 | 29 | 30 | 30 | M10 x 1.5P | 3 ~ 10 | 3.00 |
| 16728 - 130 | BT50 x PNER16 - 130 | 231.8 | 130 | 82 | 30 | 30 | M10 x 1.5P | 3 ~ 10 | 3.88 |
| 16728 - 160 | BT50 x PNER16 - 160 | 261.8 | 160 | 112 | 30 | 30 | M10 x 1.5P | 3 ~ 10 | 4.01 |
| 16730 | BT50 x PNER20 - 70 | 171.8 | 70 | 29 | 32 | 32 | M12 x 1.75P | 3 ~ 13 | 3.00 |
| 16730 - 130 | BT50 x PNER20 - 130 | 231.8 | 130 | 82 | 32 | 32 | M12 x 1.75P | 3 ~ 13 | 3.91 |
| 16730 - 160 | BT50 x PNER20 - 160 | 261.8 | 160 | 112 | 32 | 32 | M12 x 1.75P | 3 ~ 13 | 4.06 |
| 16732 | BT50 x PNER25 - 70 | 171.8 | 70 | 29 | 40 | 40 | M16 x 2.0P | 3 ~ 16 | 3.93 |
| 16732 - 130 | BT50 x PNER25 - 130 | 231.8 | 130 | 82 | 40 | 40 | M16 x 2.0P | 3 ~ 16 | 4.06 |
| 16732 - 160 | BT50 x PNER25 - 160 | 261.8 | 160 | 112 | 40 | 40 | M16 x 2.0P | 3 ~ 16 | 4.27 |
| 16734 | BT50 x PNER32 - 70 | 171.8 | 70 | 31 | 50 | 50 | M16 x 2.0P | 3 ~ 20 | 4.12 |
| 16734 - 130 | BT50 x PNER32 - 130 | 231.8 | 130 | 82 | 50 | 50 | M16 x 2.0P | 3 ~ 20 | 4.43 |
| 16734 - 160 | BT50 x PNER32 - 160 | 261.8 | 160 | 112 | 50 | 50 | M16 x 2.0P | 3 ~ 20 | 4.80 |
| 16736 | BT50 x PNER40 - 80 | 181.8 | 80 | 39 | 63 | 63 | M20 x 2.0P | 6 ~ 26 | 4.20 |
| 16736 - 130 | BT50 x PNER40 - 130 | 231.8 | 130 | 82 | 63 | 63 | M20 x 2.0P | 6 ~ 26 | 4.97 |
| 16736 - 160 | BT50 x PNER40 - 160 | 261.8 | 160 | 112 | 63 | 63 | M20 x 2.0P | 6 ~ 26 | 5.61 |



PNER



Standard ER

Features:

- ▶ PN collet is well covered in PNER tool holder, improving overall runout accuracy and the machining stability.

Product information:

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.
- ▶ Use PN 3µm collet.

Standard Accessory: • NUT

| Collet | Nut | Pull Stud | Preset Screw | Spanner |
|--------|--------|-----------|--------------|-----------|
| | | | | |
| P.W-5 | P.W-45 | P.W-60~61 | P.W-88 | P.W-68~73 |

BT / PTER COLLET CHUCK

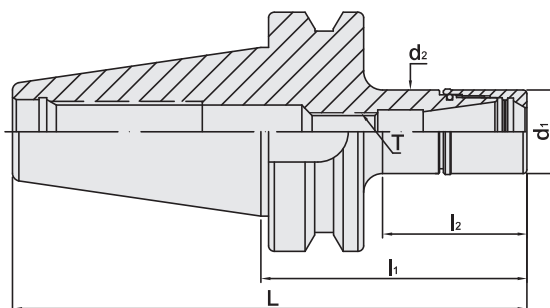
BT



BT / PTER 立銑刀夾頭



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 C N PAT NO. ZL200620132661.0
 C H PAT NO. 696550
 T R PAT NO. TR 2007 02942 Y
 I T PAT NO. N.0000266731



| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | SIZE RANGE | WEIGHT (KGS) |
|-------------|---------------------|-------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 15732 | BT30 x PTER11 - 70 | 118.4 | 70 | 43 | 16 | 16 | M6 x 1.0P | 3 ~ 7 | 0.43 |
| 15732 - 100 | BT30 x PTER11 - 100 | 148.4 | 100 | 73 | 16 | 16 | M6 x 1.0P | 3 ~ 7 | 0.47 |
| 15732 - 120 | BT30 x PTER11 - 120 | 168.4 | 120 | 93 | 16 | 16 | M6 x 1.0P | 3 ~ 7 | 0.49 |
| 15734 | BT30 x PTER16 - 70 | 118.4 | 70 | 43 | 22 | 22 | M10 x 1.5P | 3 ~ 10 | 0.46 |
| 15734 - 100 | BT30 x PTER16 - 100 | 148.4 | 100 | 73 | 22 | 22 | M10 x 1.5P | 3 ~ 10 | 0.53 |
| 15734 - 120 | BT30 x PTER16 - 120 | 168.4 | 120 | 93 | 22 | 22 | M10 x 1.5P | 3 ~ 10 | 0.58 |
| 15736 | BT30 x PTER20 - 70 | 118.4 | 70 | 45 | 28 | 28 | M12 x 1.75P | 3 ~ 13 | 0.51 |
| 15736 - 100 | BT30 x PTER20 - 100 | 148.4 | 100 | 75 | 28 | 28 | M12 x 1.75P | 3 ~ 13 | 0.63 |
| 15736 - 120 | BT30 x PTER20 - 120 | 168.4 | 120 | 95 | 28 | 28 | M12 x 1.75P | 3 ~ 13 | 0.72 |
| 15736 - 150 | BT30 x PTER20 - 150 | 198.4 | 150 | 125 | 28 | 28 | M12 x 1.75P | 3 ~ 13 | 0.84 |
| 15742 | BT40 x PTER11 - 70 | 135.4 | 70 | 38 | 16 | 16 | M6 x 1.0P | 3 ~ 7 | 0.98 |
| 15742 - 100 | BT40 x PTER11 - 100 | 165.4 | 100 | 63 | 16 | 16 | M6 x 1.0P | 3 ~ 7 | 1.03 |
| 15742 - 125 | BT40 x PTER11 - 125 | 190.4 | 125 | 83 | 16 | 16 | M6 x 1.0P | 3 ~ 7 | 1.08 |
| 15742 - 150 | BT40 x PTER11 - 150 | 215.4 | 150 | 108 | 16 | 16 | M6 x 1.0P | 3 ~ 7 | 1.11 |
| 15744 | BT40 x PTER16 - 70 | 135.4 | 70 | 38 | 22 | 22 | M10 x 1.5P | 3 ~ 10 | 1.02 |
| 15744 - 100 | BT40 x PTER16 - 100 | 165.4 | 100 | 63 | 22 | 22 | M10 x 1.5P | 3 ~ 10 | 1.10 |
| 15744 - 125 | BT40 x PTER16 - 125 | 190.4 | 125 | 88 | 22 | 22 | M10 x 1.5P | 3 ~ 10 | 1.16 |
| 15744 - 150 | BT40 x PTER16 - 150 | 215.4 | 150 | 113 | 22 | 22 | M10 x 1.5P | 3 ~ 10 | 1.22 |
| 15746 | BT40 x PTER20 - 70 | 135.4 | 70 | 38 | 28 | 28 | M12 x 1.75P | 3 ~ 13 | 1.06 |
| 15746 - 100 | BT40 x PTER20 - 100 | 165.4 | 100 | 63 | 28 | 28 | M12 x 1.75P | 3 ~ 13 | 1.25 |
| 15746 - 125 | BT40 x PTER20 - 125 | 190.4 | 125 | 88 | 28 | 28 | M12 x 1.75P | 3 ~ 13 | 1.27 |
| 15746 - 150 | BT40 x PTER20 - 150 | 215.4 | 150 | 113 | 28 | 28 | M12 x 1.75P | 3 ~ 13 | 1.36 |

Product information:

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.
- ▶ MAS/BT30 tool holders are without coolant supply over collars.
- ▶ Use PN-U 5µm collet.

Standard Accessory: • NUT

| Collet | Nut | Pull Stud | Preset Screw | Spanner |
|--------|--------|-----------|--------------|-----------|
| | | | | |
| P.W-5 | P.W-47 | P.W-60~61 | P.W-88 | P.W-68~73 |



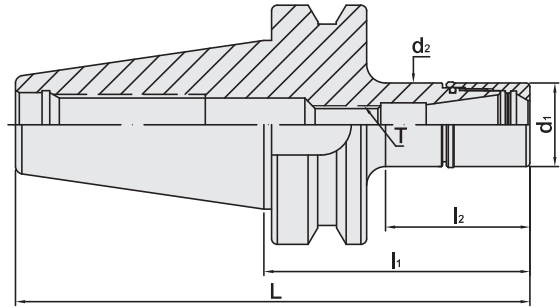
BT / PTER COLLET CHUCK



BT / PTER 立銑刀夾頭



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 C N PAT NO. ZL200620132661.0
 C H PAT NO. 696550
 T R PAT NO. TR 2007 02942 Y
 I T PAT NO. N.0000266731



| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | SIZE RANGE | WEIGHT (KGS) |
|-------------|---------------------|-------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 15752 | BT50 x PTER11 - 70 | 171.8 | 70 | 27 | 16 | 16 | M6 x 1.0P | 3 ~ 7 | 3.48 |
| 15752 - 90 | BT50 x PTER11 - 90 | 191.8 | 90 | 42 | 16 | 16 | M6 x 1.0P | 3 ~ 7 | 3.52 |
| 15752 - 105 | BT50 x PTER11 - 105 | 206.8 | 105 | 57 | 16 | 16 | M6 x 1.0P | 3 ~ 7 | 3.53 |
| 15752 - 135 | BT50 x PTER11 - 135 | 236.8 | 135 | 73.5 | 16 | 16 | M6 x 1.0P | 3 ~ 7 | 3.63 |
| 15752 - 165 | BT50 x PTER11 - 165 | 266.8 | 165 | 103.5 | 16 | 16 | M6 x 1.0P | 3 ~ 7 | 3.67 |
| 15754 | BT50 x PTER16 - 70 | 171.8 | 70 | 27 | 22 | 22 | M10 x 1.5P | 3 ~ 10 | 3.53 |
| 15754 - 90 | BT50 x PTER16 - 90 | 191.8 | 90 | 47 | 22 | 22 | M10 x 1.5P | 3 ~ 10 | 3.54 |
| 15754 - 105 | BT50 x PTER16 - 105 | 206.8 | 105 | 59 | 22 | 22 | M10 x 1.5P | 3 ~ 10 | 3.56 |
| 15754 - 135 | BT50 x PTER16 - 135 | 236.8 | 135 | 87 | 22 | 22 | M10 x 1.5P | 3 ~ 10 | 3.62 |
| 15754 - 165 | BT50 x PTER16 - 165 | 266.8 | 165 | 117 | 22 | 22 | M10 x 1.5P | 3 ~ 10 | 3.68 |
| 15756 | BT50 x PTER20 - 70 | 171.8 | 70 | 29 | 28 | 28 | M12 x 1.75P | 3 ~ 13 | 3.57 |
| 15756 - 90 | BT50 x PTER20 - 90 | 191.8 | 90 | 47 | 28 | 28 | M12 x 1.75P | 3 ~ 13 | 3.62 |
| 15756 - 105 | BT50 x PTER20 - 105 | 206.8 | 105 | 57 | 28 | 28 | M12 x 1.75P | 3 ~ 13 | 3.66 |
| 15756 - 135 | BT50 x PTER20 - 135 | 236.8 | 135 | 87 | 28 | 28 | M12 x 1.75P | 3 ~ 13 | 3.82 |
| 15756 - 165 | BT50 x PTER20 - 165 | 266.8 | 165 | 117 | 28 | 28 | M12 x 1.75P | 3 ~ 13 | 3.92 |

Product information:

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.
- ▶ Use PN-U 5µm collet.

Standard Accessory: • NUT

| Collet | Nut | Pull Stud | Preset Screw | Spanner |
|--------|--------|-----------|--------------|-----------|
| | | | | |
| P.W-5 | P.W-47 | P.W-60~61 | P.W-88 | P.W-68~73 |

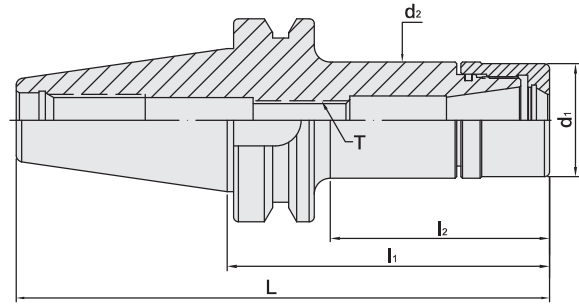
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|---------------|-------------------|-------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 10.753.16.070 | BT30 x UT16 - 70 | 118.4 | 70 | 43 | 30 | 30 | M10 x 1.5P | 1 ~ 10 | 0.58 |
| 10.753.16.100 | BT30 x UT16 - 100 | 148.4 | 100 | 73 | 30 | 30 | M10 x 1.5P | 1 ~ 10 | 0.72 |
| 10.753.16.125 | BT30 x UT16 - 125 | 173.4 | 125 | 98 | 30 | 30 | M10 x 1.5P | 1 ~ 10 | 0.84 |
| 10.753.16.150 | BT30 x UT16 - 150 | 198.4 | 150 | 123 | 30 | 30 | M10 x 1.5P | 1 ~ 10 | 0.96 |
| 10.753.20.070 | BT30 x UT20 - 70 | 118.4 | 70 | 47 | 35 | 36 | M12 x 1.75P | 1 ~ 13 | 0.63 |
| 10.753.20.100 | BT30 x UT20 - 100 | 148.4 | 100 | 77 | 35 | 36 | M12 x 1.75P | 1 ~ 13 | 0.85 |
| 10.753.20.125 | BT30 x UT20 - 125 | 173.4 | 125 | 102 | 35 | 36 | M12 x 1.75P | 1 ~ 13 | 1.03 |
| 10.753.20.150 | BT30 x UT20 - 150 | 198.4 | 150 | 127 | 35 | 36 | M12 x 1.75P | 1 ~ 13 | 1.21 |
| 10.753.25.070 | BT30 x UT25 - 70 | 118.4 | 70 | 46 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 0.70 |
| 10.753.25.100 | BT30 x UT25 - 100 | 148.4 | 100 | 76 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 1.00 |
| 10.753.25.150 | BT30 x UT25 - 150 | 198.4 | 150 | 126 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 1.49 |
| 10.753.32.070 | BT30 x UT32 - 70 | 118.4 | 70 | 48 | 48 | 48 | M16 x 2.0P | 2 ~ 20 | 0.71 |
| 10.753.32.100 | BT30 x UT32 - 100 | 148.4 | 100 | 78 | 48 | 48 | M16 x 2.0P | 2 ~ 20 | 1.08 |
| 10.753.32.125 | BT30 x UT32 - 125 | 173.4 | 125 | 103 | 48 | 48 | M16 x 2.0P | 2 ~ 20 | 1.38 |
| 10.753.32.150 | BT30 x UT32 - 150 | 198.4 | 150 | 128 | 48 | 48 | M16 x 2.0P | 2 ~ 20 | 1.74 |

Product information:

- ▶ The pre-balance reaches G6.3 10,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ MAS/BT30 tool holders are without coolant supply over collars.
- ▶ Use standard ER collets.

Standard Accessory: • NUT

| Collet | Nut | Pull Stud | Preset Screw | Spanner |
|----------|--------|-----------|--------------|-----------|
| | | | | |
| P.W-7~10 | P.W-47 | P.W-60~61 | P.W-88 | P.W-68~73 |



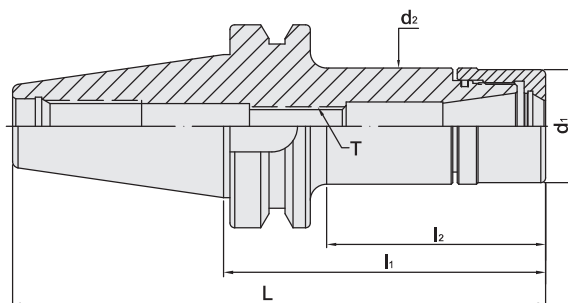
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|---------------|-------------------|-------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 11.753.16.070 | BT40 x UT16 - 70 | 135.4 | 70 | 40 | 30 | 30 | M10 x 1.5P | 1 ~ 10 | 1.13 |
| 11.753.16.100 | BT40 x UT16 - 100 | 165.4 | 100 | 63 | 30 | 30 | M10 x 1.5P | 1 ~ 10 | 1.27 |
| 11.753.16.125 | BT40 x UT16 - 125 | 190.4 | 125 | 88 | 30 | 30 | M10 x 1.5P | 1 ~ 10 | 1.38 |
| 11.753.16.150 | BT40 x UT16 - 150 | 215.4 | 150 | 113 | 30 | 30 | M10 x 1.5P | 1 ~ 10 | 1.49 |
| 11.753.20.070 | BT40 x UT20 - 70 | 135.4 | 70 | 38 | 35 | 36 | M12 x 1.75P | 1 ~ 13 | 1.17 |
| 11.753.20.100 | BT40 x UT20 - 100 | 165.4 | 100 | 68 | 35 | 36 | M12 x 1.75P | 1 ~ 13 | 1.38 |
| 11.753.20.125 | BT40 x UT20 - 125 | 190.4 | 125 | 93 | 35 | 36 | M12 x 1.75P | 1 ~ 13 | 1.54 |
| 11.753.20.150 | BT40 x UT20 - 150 | 215.4 | 150 | 118 | 35 | 36 | M12 x 1.75P | 1 ~ 13 | 1.71 |
| 11.753.25.070 | BT40 x UT25 - 70 | 135.4 | 70 | 40 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 1.22 |
| 11.753.25.100 | BT40 x UT25 - 100 | 165.4 | 100 | 70 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 1.50 |
| 11.753.25.150 | BT40 x UT25 - 150 | 215.4 | 150 | 120 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 1.97 |
| 11.753.32.070 | BT40 x UT32 - 70 | 135.4 | 70 | 40 | 48 | 48 | M16 x 2.0P | 2 ~ 20 | 1.23 |
| 11.753.32.100 | BT40 x UT32 - 100 | 165.4 | 100 | 70 | 48 | 48 | M16 x 2.0P | 2 ~ 20 | 1.61 |
| 11.753.32.125 | BT40 x UT32 - 125 | 190.4 | 125 | 95 | 48 | 48 | M16 x 2.0P | 2 ~ 20 | 1.93 |
| 11.753.32.150 | BT40 x UT32 - 150 | 215.4 | 150 | 120 | 48 | 48 | M16 x 2.0P | 2 ~ 20 | 2.25 |

Product information:

- ▶ The pre-balance reaches G6.3 10,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.
- ▶ Use standard ER collets.

Standard Accessory: • NUT

| Collet | Nut | Pull Stud | Preset Screw | Spanner |
|----------|--------|-----------|--------------|-----------|
| | | | | |
| P.W-7~10 | P.W-47 | P.W-60~61 | P.W-88 | P.W-68~73 |

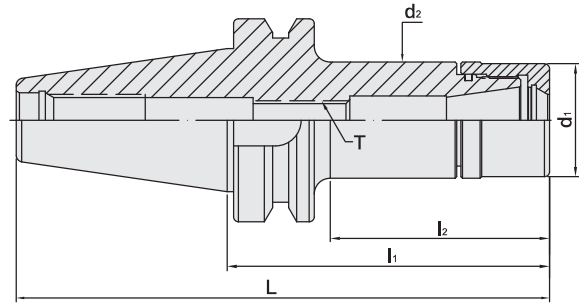
BT / UT COLLET CHUCK



BT / UT 立銑刀夾頭



T W PAT NO. M298033
 T W PAT NO. M311791
 J P PAT NO. 3128766
 K R PAT NO. 20-0433603
 C N PAT NO. ZL200620132661.0
 C H PAT NO. 696550
 T R PAT NO. TR 2007 02942 Y
 I T PAT NO. N.0000266731



| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | SIZE RANGE | WEIGHT (KGS) |
|---------------|-------------------|-------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 12.753.16.070 | BT50 x UT16 - 70 | 171.8 | 70 | 29 | 30 | 30 | M10 x 1.5P | 1 ~ 10 | 3.64 |
| 12.753.16.100 | BT50 x UT16 - 100 | 201.8 | 100 | 52 | 30 | 30 | M10 x 1.5P | 1 ~ 10 | 3.74 |
| 12.753.16.125 | BT50 x UT16 - 125 | 226.8 | 125 | 77 | 30 | 30 | M10 x 1.5P | 1 ~ 10 | 3.92 |
| 12.753.16.150 | BT50 x UT16 - 150 | 251.8 | 150 | 102 | 30 | 30 | M10 x 1.5P | 1 ~ 10 | 4.00 |
| 12.753.20.070 | BT50 x UT20 - 70 | 171.8 | 70 | 31.6 | 35 | 36 | M12 x 1.75P | 1 ~ 13 | 3.68 |
| 12.753.20.100 | BT50 x UT20 - 100 | 201.8 | 100 | 52 | 35 | 36 | M12 x 1.75P | 1 ~ 13 | 3.86 |
| 12.753.20.125 | BT50 x UT20 - 125 | 226.8 | 125 | 77 | 35 | 36 | M12 x 1.75P | 1 ~ 13 | 3.99 |
| 12.753.20.150 | BT50 x UT20 - 150 | 251.8 | 150 | 102 | 35 | 36 | M12 x 1.75P | 1 ~ 13 | 4.24 |
| 12.753.25.070 | BT50 x UT25 - 70 | 171.8 | 70 | 29.8 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 3.70 |
| 12.753.25.100 | BT50 x UT25 - 100 | 201.8 | 100 | 52 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 4.01 |
| 12.753.25.150 | BT50 x UT25 - 150 | 251.8 | 150 | 102 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 4.36 |
| 12.753.32.080 | BT50 x UT32 - 80 | 181.8 | 80 | 41 | 48 | 48 | M16 x 2.0P | 2 ~ 20 | 3.80 |
| 12.753.32.100 | BT50 x UT32 - 100 | 201.8 | 100 | 57 | 48 | 48 | M16 x 2.0P | 2 ~ 20 | 4.03 |
| 12.753.32.125 | BT50 x UT32 - 125 | 226.8 | 125 | 82 | 48 | 48 | M16 x 2.0P | 2 ~ 20 | 4.31 |
| 12.753.32.150 | BT50 x UT32 - 150 | 251.8 | 150 | 102 | 48 | 48 | M16 x 2.0P | 2 ~ 20 | 4.62 |

Product information:

- ▶ The pre-balance reaches G6.3 10,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.
- ▶ Use standard ER collets.

Standard Accessory: • NUT

| Collet | Nut | Pull Stud | Preset Screw | Spanner |
|----------|--------|-----------|--------------|-----------|
| | | | | |
| P.W-7~10 | P.W-47 | P.W-60~61 | P.W-88 | P.W-68~73 |



BT / ER COLLET CHUCK

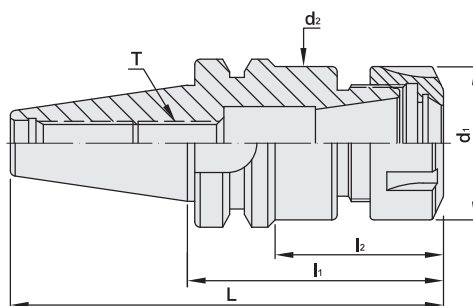


BT / ER 立銑刀夾頭

(DIN ISO 15488)



T W PAT NO. M298033
 T W PAT NO. M311791
 J P PAT NO. 3128766
 K R PAT NO. 20-0433603
 C N PAT NO. ZL200620132661.0
 C H PAT NO. 696550
 T R PAT NO. TR 2007 02942 Y
 I T PAT NO. N.0000266731



| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | SIZE RANGE | WEIGHT (KGS) |
|------------|--------------------|-------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 16101 - 50 | BT30 x ER16A - 50 | 98.4 | 50 | 27 | 28 | 25.1 | M10 x 1.5P | 1 ~ 10 | 0.45 |
| 16101 | BT30 x ER16A - 70 | 118.4 | 70 | 40 | 28 | 28 | M10 x 1.5P | 1 ~ 10 | 0.55 |
| 16102 | BT30 x ER16A - 60 | 108.4 | 60 | 35 | 28 | 28 | M10 x 1.5P | 1 ~ 10 | 0.60 |
| 16104 | BT30 x ER16A - 100 | 148.4 | 100 | 70 | 28 | 28 | M10 x 1.5P | 1 ~ 10 | 0.70 |
| 16105 | BT30 x ER16A - 120 | 168.4 | 120 | 93 | 28 | 28 | M10 x 1.5P | 1 ~ 10 | 0.78 |
| 16106 - 50 | BT30 x ER20A - 50 | 98.4 | 50 | 28 | 34 | - | M12 x 1.75P | 1 ~ 13 | 0.48 |
| 16106 | BT30 x ER20A - 70 | 118.4 | 70 | 45 | 34 | 34 | M12 x 1.75P | 1 ~ 13 | 0.62 |
| 16107 | BT30 x ER20A - 135 | 183.4 | 135 | 110 | 34 | 34 | M12 x 1.75P | 1 ~ 13 | 1.10 |
| 16109 | BT30 x ER25 - 70 | 118.4 | 70 | 46 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 0.70 |
| 16111 | BT30 x ER25 - 135 | 183.4 | 135 | 111 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 1.45 |
| 16113 | BT30 x ER32 - 70 | 118.4 | 70 | 48 | 50 | 45 | M16 x 2.0P | 2 ~ 20 | 0.70 |
| 16114 | BT30 x ER32 - 100 | 148.4 | 100 | 78 | 50 | 45 | M16 x 2.0P | 2 ~ 20 | 1.00 |
| 16115 | BT30 x ER40 - 80 | 128.4 | 80 | 58 | 63 | 53 | M16 x 2.0P | 3 ~ 26 | 1.10 |
| 16151 | BT40 x ER16A - 70 | 135.4 | 70 | 40 | 28 | 28 | M10 x 1.5P | 1 ~ 10 | 1.20 |
| 16153 | BT40 x ER16A - 100 | 165.4 | 100 | 63 | 28 | 28 | M10 x 1.5P | 1 ~ 10 | 1.30 |
| 16155 | BT40 x ER16A - 125 | 190.4 | 125 | 88 | 28 | 28 | M10 x 1.5P | 1 ~ 10 | 1.36 |
| 16157 | BT40 x ER16A - 150 | 215.4 | 150 | 113 | 28 | 28 | M10 x 1.5P | 1 ~ 10 | 1.54 |
| 16158 | BT40 x ER16A - 180 | 245.4 | 180 | 143 | 28 | 28 | M10 x 1.5P | 1 ~ 10 | 2.00 |
| 16159 | BT40 x ER20A - 70 | 135.4 | 70 | 40 | 34 | 34 | M12 x 1.75P | 1 ~ 13 | 1.20 |
| 16162 | BT40 x ER20A - 100 | 165.4 | 100 | 63 | 34 | 34 | M12 x 1.75P | 1 ~ 13 | 1.80 |
| 16165 | BT40 x ER20A - 135 | 200.4 | 135 | 98 | 34 | 34 | M12 x 1.75P | 1 ~ 13 | 1.70 |
| 16167 | BT40 x ER20A - 150 | 215.4 | 150 | 113 | 34 | 34 | M12 x 1.75P | 1 ~ 13 | 1.80 |
| 16169 | BT40 x ER25 - 70 | 135.4 | 70 | 40 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 1.30 |
| 16171 | BT40 x ER25 - 100 | 165.4 | 100 | 70 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 1.50 |
| 16173 | BT40 x ER25 - 125 | 190.4 | 125 | 95 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 1.80 |
| 16175 | BT40 x ER25 - 150 | 215.4 | 150 | 115 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 2.10 |
| 16177 | BT40 x ER32 - 70 | 135.4 | 70 | 40 | 50 | 50 | M16 x 2.0P | 2 ~ 20 | 1.30 |
| 16179 | BT40 x ER32 - 100 | 165.4 | 100 | 70 | 50 | 50 | M16 x 2.0P | 2 ~ 20 | 1.70 |
| 16181 | BT40 x ER32 - 150 | 215.4 | 150 | 118 | 50 | 50 | M16 x 2.0P | 2 ~ 20 | 2.50 |
| 16183 | BT40 x ER40 - 80 | 145.4 | 80 | 53 | 63 | 60 | - | 3 ~ 26 | 1.50 |
| 16185 | BT40 x ER40 - 100 | 165.4 | 100 | 73 | 63 | 60 | M20 x 2.0P | 3 ~ 26 | 2.00 |
| 16187 | BT40 x ER40 - 120 | 185.4 | 120 | 93 | 63 | 60 | M20 x 2.0P | 3 ~ 26 | 2.50 |
| 16189 | BT40 x ER40 - 150 | 215.4 | 150 | 123 | 63 | 60 | M20 x 2.0P | 3 ~ 26 | 3.10 |
| 16191 | BT40 x ER50 - 85 | 150.4 | 85 | 58 | 78 | 60 | M24 x 2.0P | 6 ~ 34 | 1.70 |
| 16193 | BT40 x ER50 - 100 | 165.4 | 100 | 73 | 78 | 60 | M24 x 2.0P | 6 ~ 34 | 2.10 |

Standard Accessory: • NUT

| Collet | Nut | Pull Stud | Preset Screw | Spanner |
|----------|--------|-----------|--------------|-----------|
| | | | | |
| P.W-7~28 | P.W-48 | P.W-60~61 | P.W-88 | P.W-68~71 |

BT / ER COLLET CHUCK

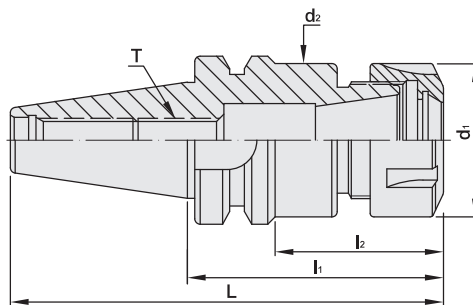


BT / ER 立銑刀夾頭

(DIN ISO 15488)



T W PAT NO. M298033
 T W PAT NO. M311791
 J P PAT NO. 3128766
 K R PAT NO. 20-0433603
 C N PAT NO. ZL200620132661.0
 C H PAT NO. 696550
 T R PAT NO. TR 2007 02942 Y
 I T PAT NO. N.0000266731



| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | SIZE RANGE | WEIGHT (KGS) |
|-------------|--------------------|-------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 16251 | BT50 x ER16A - 70 | 171.8 | 70 | 29 | 28 | 28 | M10 x 1.5P | 1 ~ 10 | 4.05 |
| 16252 | BT50 x ER16A - 90 | 191.8 | 90 | 47 | 28 | 28 | M10 x 1.5P | 1 ~ 10 | 4.20 |
| 16253 | BT50 x ER16A - 105 | 206.8 | 105 | 57 | 28 | 28 | M10 x 1.5P | 1 ~ 10 | 4.30 |
| 16254 | BT50 x ER16A - 135 | 236.8 | 135 | 87 | 28 | 28 | M10 x 1.5P | 1 ~ 10 | 4.40 |
| 16255 | BT50 x ER16A - 150 | 251.8 | 150 | 102 | 28 | 28 | M10 x 1.5P | 1 ~ 10 | 4.50 |
| 16259 | BT50 x ER16A - 165 | 266.8 | 165 | 117 | 28 | 28 | M10 x 1.5P | 1 ~ 10 | 4.50 |
| 16259 - 200 | BT50 x ER16A - 200 | 301.8 | 200 | 152 | 28 | 28 | M10 x 1.5P | 1 ~ 10 | 4.60 |
| 16259 - 250 | BT50 x ER16A - 250 | 351.8 | 250 | 202 | 28 | 28 | M10 x 1.5P | 1 ~ 10 | 4.70 |
| 16259 - 300 | BT50 x ER16A - 300 | 401.8 | 300 | 252 | 28 | 28 | M10 x 1.5P | 1 ~ 10 | 4.80 |
| 16261 | BT50 x ER20A - 70 | 171.8 | 70 | 29 | 34 | 34 | M12 x 1.75P | 1 ~ 13 | 4.20 |
| 16263 | BT50 x ER20A - 90 | 191.8 | 90 | 47 | 34 | 34 | M12 x 1.75P | 1 ~ 13 | 4.25 |
| 16265 | BT50 x ER20A - 105 | 206.8 | 105 | 57 | 34 | 34 | M12 x 1.75P | 1 ~ 13 | 4.30 |
| 16267 | BT50 x ER20A - 135 | 236.8 | 135 | 87 | 34 | 34 | M12 x 1.75P | 1 ~ 13 | 4.55 |
| 16269 | BT50 x ER20A - 150 | 251.8 | 150 | 102 | 34 | 34 | M12 x 1.75P | 1 ~ 13 | 4.70 |
| 16271 | BT50 x ER20A - 165 | 266.8 | 165 | 117 | 34 | 34 | M12 x 1.75P | 1 ~ 13 | 4.80 |
| 16272 | BT50 x ER20A - 200 | 301.8 | 200 | 152 | 34 | 34 | M12 x 1.75P | 1 ~ 13 | 4.90 |
| 16272 - 250 | BT50 x ER20A - 250 | 351.8 | 250 | 202 | 34 | 34 | M12 x 1.75P | 1 ~ 13 | 5.10 |
| 16272 - 300 | BT50 x ER20A - 300 | 401.8 | 300 | 252 | 34 | 34 | M12 x 1.75P | 1 ~ 13 | 5.30 |
| 16273 | BT50 x ER25 - 70 | 171.8 | 70 | 29 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 4.20 |
| 16275 | BT50 x ER25 - 105 | 206.8 | 105 | 57 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 4.40 |
| 16277 | BT50 x ER25 - 135 | 236.8 | 135 | 87 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 4.70 |
| 16279 | BT50 x ER25 - 165 | 266.8 | 165 | 117 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 5.00 |
| 16279 - 250 | BT50 x ER25 - 250 | 351.8 | 250 | 202 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 5.30 |
| 16279 - 300 | BT50 x ER25 - 300 | 401.8 | 300 | 252 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 5.70 |
| 16279 - 350 | BT50 x ER25 - 350 | 451.8 | 350 | 302 | 42 | 42 | M16 x 2.0P | 1 ~ 16 | 6.10 |

Product information:

- ▶ The pre-balance reaches G6.3 10,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

Standard Accessory: • NUT

| Collet | Nut | Pull Stud | Preset Screw | Spanner |
|----------|--------|-----------|--------------|-----------|
| | | | | |
| P.W-7~28 | P.W-48 | P.W-60~61 | P.W-88 | P.W-68~71 |



BT / ER COLLET CHUCK

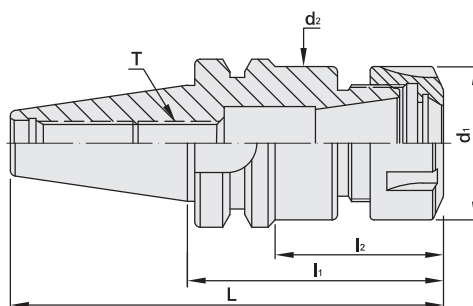


BT / ER 立銑刀夾頭

[DIN ISO 15488]



T W PAT NO. M298033
 T W PAT NO. M311791
 J P PAT NO. 3128766
 K R PAT NO. 20-0433603
 C N PAT NO. ZL200620132661.0
 C H PAT NO. 696550
 T R PAT NO. TR 2007 02942 Y
 I T PAT NO. N.0000266731



| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | SIZE RANGE | WEIGHT (KGS) |
|-------------|-------------------|-------|----------------|----------------|----------------|----------------|------------|------------|--------------|
| 16281 | BT50 x ER32 - 80 | 181.8 | 80 | 39 | 50 | 50 | M16 x 2.0P | 2 ~ 20 | 4.70 |
| 16282 | BT50 x ER32 - 100 | 201.8 | 100 | 57 | 50 | 50 | M16 x 2.0P | 2 ~ 20 | 4.80 |
| 16283 | BT50 x ER32 - 120 | 221.8 | 120 | 72 | 50 | 50 | M16 x 2.0P | 2 ~ 20 | 4.70 |
| 16284 | BT50 x ER32 - 150 | 251.8 | 150 | 102 | 50 | 50 | M16 x 2.0P | 2 ~ 20 | 5.30 |
| 16284 - 200 | BT50 x ER32 - 200 | 301.8 | 200 | 152 | 50 | 50 | M16 x 2.0P | 2 ~ 20 | 5.50 |
| 16284 - 300 | BT50 x ER32 - 300 | 401.8 | 300 | 252 | 50 | 50 | M16 x 2.0P | 2 ~ 20 | 6.70 |
| 16284 - 350 | BT50 x ER32 - 350 | 451.8 | 350 | 302 | 50 | 50 | M16 x 2.0P | 2 ~ 20 | 7.40 |
| 16284 - 400 | BT50 x ER32 - 400 | 501.8 | 400 | 352 | 50 | 50 | M16 x 2.0P | 2 ~ 20 | 8.00 |
| 16284 - 450 | BT50 x ER32 - 450 | 551.8 | 450 | 402 | 50 | 50 | M16 x 2.0P | 2 ~ 20 | 8.50 |
| 16285 | BT50 x ER40 - 80 | 181.8 | 80 | 39 | 63 | 63 | M20 x 2.0P | 3 ~ 26 | 4.30 |
| 16286 | BT50 x ER40 - 100 | 201.8 | 100 | 57 | 63 | 63 | M20 x 2.0P | 3 ~ 26 | 4.64 |
| 16287 | BT50 x ER40 - 120 | 221.8 | 120 | 72 | 63 | 63 | M20 x 2.0P | 3 ~ 26 | 5.10 |
| 16289 | BT50 x ER40 - 135 | 236.8 | 135 | 87 | 63 | 63 | M20 x 2.0P | 3 ~ 26 | 5.50 |
| 16289 - 250 | BT50 x ER40 - 250 | 351.8 | 250 | 202 | 63 | 63 | M20 x 2.0P | 3 ~ 26 | 7.90 |
| 16289 - 300 | BT50 x ER40 - 300 | 401.8 | 300 | 252 | 63 | 63 | M20 x 2.0P | 3 ~ 26 | 9.00 |
| 16289 - 350 | BT50 x ER40 - 350 | 451.8 | 350 | 302 | 63 | 63 | M20 x 2.0P | 3 ~ 26 | 10.1 |
| 16289 - 400 | BT50 x ER40 - 400 | 501.8 | 400 | 352 | 63 | 63 | M20 x 2.0P | 3 ~ 26 | 11.1 |
| 16291 | BT50 x ER50 - 90 | 191.8 | 90 | 49 | 78 | 78 | M24 x 2.0P | 6 ~ 34 | 4.60 |
| 16293 | BT50 x ER50 - 120 | 221.8 | 120 | 79 | 78 | 78 | M24 x 2.0P | 6 ~ 34 | 5.50 |
| 16295 | BT50 x ER50 - 165 | 266.8 | 165 | 124 | 78 | 78 | M24 x 2.0P | 6 ~ 34 | 6.10 |
| 16295 - 200 | BT50 x ER50 - 200 | 301.8 | 200 | 157 | 78 | 78 | M24 x 2.0P | 6 ~ 34 | 8.60 |
| 16295 - 250 | BT50 x ER50 - 250 | 351.8 | 250 | 207 | 78 | 78 | M24 x 2.0P | 6 ~ 34 | 10.3 |
| 16295 - 300 | BT50 x ER50 - 300 | 401.8 | 300 | 257 | 78 | 78 | M24 x 2.0P | 6 ~ 34 | 12.0 |
| 16295 - 350 | BT50 x ER50 - 350 | 451.8 | 350 | 307 | 78 | 78 | M24 x 2.0P | 6 ~ 34 | 13.7 |
| 16295 - 400 | BT50 x ER50 - 400 | 501.8 | 400 | 357 | 78 | 78 | M24 x 2.0P | 6 ~ 34 | 15.4 |

Product information:

- ▶ The pre-balance reaches G6.3 10,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

Standard Accessory: • NUT

| Collet | Nut | Pull Stud | Preset Screw | Spanner |
|----------|--------|-----------|--------------|-----------|
| | | | | |
| P.W-7~28 | P.W-48 | P.W-60~61 | P.W-88 | P.W-68~71 |

BT / ER COLLET CHUCK

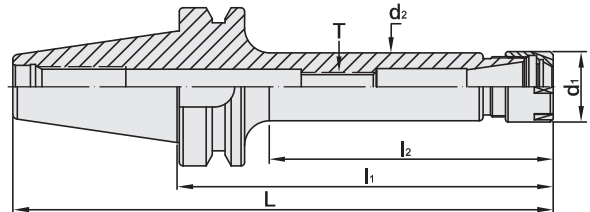
M TYPE

BT



M 型 BT / ER 立銑刀夾頭

[DIN ISO 15488]



T W PAT NO. M298033
 T W PAT NO. M311791
 J P PAT NO. 3128766
 K R PAT NO. 20-0433603
 C N PAT NO. ZL200620132661.0
 C H PAT NO. 696550
 T R PAT NO. TR 2007 02942 Y
 I T PAT NO. N.0000266731

| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | SIZE RANGE | WEIGHT (KGS) |
|-----------|--------------------|-------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 16302 | BT30 x ER11M - 70 | 118.4 | 70 | 40 | 16 | 15 | M6 x 1.0P | 1 ~ 7 | 0.50 |
| 16304 | BT30 x ER11M - 100 | 148.4 | 100 | 70 | 16 | 15 | M6 x 1.0P | 1 ~ 7 | 0.60 |
| 16306 | BT30 x ER11M - 120 | 168.4 | 120 | 88 | 16 | 15 | M6 x 1.0P | 1 ~ 7 | 0.70 |
| 16308 | BT30 x ER16M - 70 | 118.4 | 70 | 43 | 22 | 21 | M10 x 1.5P | 1 ~ 10 | 0.55 |
| 16310 | BT30 x ER16M - 100 | 148.4 | 100 | 68 | 22 | 21 | M10 x 1.5P | 1 ~ 10 | 0.56 |
| 16312 | BT30 x ER16M - 120 | 168.4 | 120 | 88 | 22 | 21 | M10 x 1.5P | 1 ~ 10 | 0.75 |
| 16313 | BT30 x ER20M - 70 | 118.4 | 70 | 45 | 28 | 27 | M12 x 1.75P | 1 ~ 13 | 0.65 |
| 16314 | BT30 x ER20M - 100 | 148.4 | 100 | 71 | 28 | 27 | M12 x 1.75P | 1 ~ 13 | 0.70 |
| 16316 | BT30 x ER20M - 120 | 168.4 | 120 | 91 | 28 | 27 | M12 x 1.75P | 1 ~ 13 | 0.80 |
| 16318 | BT30 x ER20M - 150 | 198.4 | 150 | 121 | 28 | 27 | M12 x 1.75P | 1 ~ 13 | 1.00 |
| 16321 | BT40 x ER11M - 70 | 135.4 | 70 | 33 | 16 | 15 | M6 x 1.0P | 1 ~ 7 | 1.10 |
| 16322 | BT40 x ER11M - 100 | 165.4 | 100 | 63 | 16 | 15 | M6 x 1.0P | 1 ~ 7 | 1.10 |
| 16323 | BT40 x ER11M - 125 | 190.4 | 125 | 88 | 16 | 15 | M6 x 1.0P | 1 ~ 7 | 1.12 |
| 16324 | BT40 x ER11M - 150 | 215.4 | 150 | 113 | 16 | 15 | M6 x 1.0P | 1 ~ 7 | 1.20 |
| 16325 | BT40 x ER16M - 70 | 135.4 | 70 | 38 | 22 | 21 | M10 x 1.5P | 1 ~ 10 | 1.10 |
| 16326 | BT40 x ER16M - 100 | 165.4 | 100 | 63 | 22 | 21 | M10 x 1.5P | 1 ~ 10 | 1.16 |
| 16327 | BT40 x ER16M - 125 | 190.4 | 125 | 88 | 22 | 21 | M10 x 1.5P | 1 ~ 10 | 1.20 |
| 16328 | BT40 x ER16M - 150 | 215.4 | 150 | 113 | 22 | 21 | M10 x 1.5P | 1 ~ 10 | 1.30 |
| 16329 | BT40 x ER20M - 70 | 135.4 | 70 | 38 | 28 | 27 | M12 x 1.75P | 1 ~ 13 | 1.20 |
| 16330 | BT40 x ER20M - 100 | 165.4 | 100 | 63 | 28 | 27 | M12 x 1.75P | 1 ~ 13 | 1.25 |
| 16331 | BT40 x ER20M - 125 | 190.4 | 125 | 88 | 28 | 27 | M12 x 1.75P | 1 ~ 13 | 1.30 |
| 16332 | BT40 x ER20M - 150 | 215.4 | 150 | 113 | 28 | 27 | M12 x 1.75P | 1 ~ 13 | 1.45 |

Product information:

- ▶ The pre-balance reaches G6.3 10,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.
- ▶ MAS/BT30 tool holders are without coolant supply over collars.

Standard Accessory: • NUT

| Collet | Nut | Pull Stud | Preset Screw | Spanner |
|----------|--------|-----------|--------------|-----------|
| | | | | |
| P.W-7~28 | P.W-48 | P.W-60~61 | P.W-88 | P.W-68~71 |



BT / ER COLLET CHUCK

M TYPE

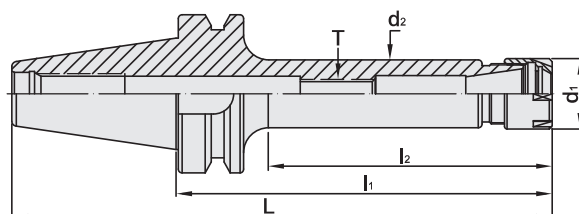


M 型 BT / ER 立銑刀夾頭

[DIN ISO 15488]



T W PAT NO. M298033
 T W PAT NO. M311791
 J P PAT NO. 3128766
 K R PAT NO. 20-0433603
 C N PAT NO. ZL200620132661.0
 C H PAT NO. 696550
 T R PAT NO. TR 2007 02942 Y
 I T PAT NO. N.0000266731



| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | SIZE RANGE | WEIGHT (KGS) |
|-----------|--------------------|-------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 16334 | BT50 x ER11M - 70 | 171.8 | 70 | 22 | 16 | 15 | M6 x 1.0P | 1 ~ 7 | 3.80 |
| 16335 | BT50 x ER11M - 90 | 191.8 | 90 | 42 | 16 | 15 | M6 x 1.0P | 1 ~ 7 | 3.90 |
| 16336 | BT50 x ER11M - 105 | 206.8 | 105 | 57 | 16 | 15 | M6 x 1.0P | 1 ~ 7 | 4.00 |
| 16337 | BT50 x ER11M - 135 | 236.8 | 135 | 87 | 16 | 15 | M6 x 1.0P | 1 ~ 7 | 4.10 |
| 16338 | BT50 x ER11M - 165 | 266.8 | 165 | 92 | 16 | 15 | M6 x 1.0P | 1 ~ 7 | 4.20 |
| 16339 | BT50 x ER16M - 70 | 171.8 | 70 | 29 | 22 | 21 | M10 x 1.5P | 1 ~ 10 | 3.90 |
| 16340 | BT50 x ER16M - 90 | 191.8 | 90 | 42 | 22 | 21 | M10 x 1.5P | 1 ~ 10 | 4.00 |
| 16341 | BT50 x ER16M - 105 | 206.8 | 105 | 57 | 22 | 21 | M10 x 1.5P | 1 ~ 10 | 4.10 |
| 16342 | BT50 x ER16M - 135 | 236.8 | 135 | 87 | 22 | 21 | M10 x 1.5P | 1 ~ 10 | 4.20 |
| 16343 | BT50 x ER16M - 165 | 266.8 | 165 | 117 | 22 | 21 | M10 x 1.5P | 1 ~ 10 | 4.30 |
| 16344 | BT50 x ER20M - 90 | 191.8 | 90 | 42 | 28 | 27 | M12 x 1.75P | 1 ~ 13 | 4.10 |
| 16345 | BT50 x ER20M - 105 | 206.8 | 105 | 57 | 28 | 27 | M12 x 1.75P | 1 ~ 13 | 4.20 |
| 16346 | BT50 x ER20M - 135 | 236.8 | 135 | 87 | 28 | 27 | M12 x 1.75P | 1 ~ 13 | 4.40 |
| 16347 | BT50 x ER20M - 165 | 266.8 | 165 | 117 | 28 | 27 | M12 x 1.75P | 1 ~ 13 | 4.60 |

Product information:

- ▶ The pre-balance reaches G6.3 10,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

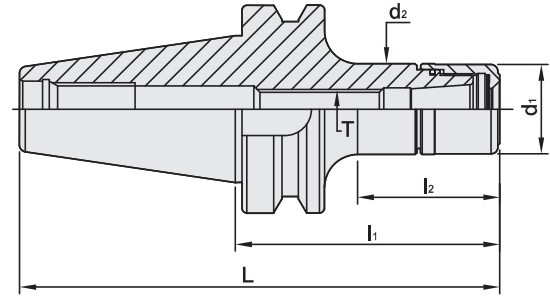
Standard Accessory: • NUT

| Collet | Nut | Pull Stud | Preset Screw | Spanner |
|----------|--------|-----------|--------------|-----------|
| | | | | |
| P.W-7~28 | P.W-48 | P.W-60~61 | P.W-88 | P.W-68~71 |

BT / SK3 COLLET CHUCK

5 μ m

BT / SK3 高速機專用夾頭



| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | SIZE RANGE | WEIGHT (KGS) |
|---------------|--------------------|-------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 10.763.06.060 | BT30 x SK306 - 60 | 108.4 | 60 | 33 | 19.5 | 19.5 | M8 x 1.25P | 3 ~ 6 | 0.90 |
| 10.763.06.080 | BT30 x SK306 - 80 | 128.4 | 80 | 53 | 19.5 | 19.5 | M8 x 1.25P | 3 ~ 6 | 1.00 |
| 10.763.10.060 | BT30 x SK310 - 60 | 108.4 | 60 | 35 | 27.5 | 27.5 | M12 x 1.75P | 3 ~ 10 | 0.90 |
| 10.763.10.080 | BT30 x SK310 - 80 | 128.4 | 80 | 55 | 27.5 | 27.5 | M12 x 1.75P | 3 ~ 10 | 1.00 |
| 10.763.13.060 | BT30 x SK313 - 60 | 108.4 | 60 | 35 | 33 | 33 | M12 x 1.75P | 3 ~ 13 | 1.10 |
| 10.763.13.080 | BT30 x SK313 - 80 | 128.4 | 80 | 55 | 33 | 33 | M12 x 1.75P | 3 ~ 13 | 1.00 |
| 10.763.16.060 | BT30 x SK316 - 60 | 108.4 | 60 | 37 | 40 | 40 | M18 x 1.5P | 3 ~ 16 | 1.20 |
| 10.763.16.080 | BT30 x SK316 - 80 | 128.4 | 80 | 57 | 40 | 40 | M18 x 1.5P | 3 ~ 16 | 1.30 |
| 11.763.06.080 | BT40 x SK306 - 80 | 145.4 | 80 | 43 | 19.5 | 19.5 | M8 x 1.25P | 3 ~ 6 | 1.10 |
| 11.763.06.100 | BT40 x SK306 - 100 | 165.4 | 100 | 63 | 19.5 | 19.5 | M8 x 1.25P | 3 ~ 6 | 1.30 |
| 11.763.06.120 | BT40 x SK306 - 120 | 185.4 | 120 | 83 | 19.5 | 19.5 | M8 x 1.25P | 3 ~ 6 | 1.40 |
| 11.763.10.080 | BT40 x SK310 - 80 | 145.4 | 80 | 43 | 27.5 | 27.5 | M12 x 1.75P | 3 ~ 10 | 1.10 |
| 11.763.10.100 | BT40 x SK310 - 100 | 165.4 | 100 | 63 | 27.5 | 27.5 | M12 x 1.75P | 3 ~ 10 | 1.30 |
| 11.763.10.120 | BT40 x SK310 - 120 | 185.4 | 120 | 83 | 27.5 | 27.5 | M12 x 1.75P | 3 ~ 10 | 1.40 |
| 11.763.13.080 | BT40 x SK313 - 80 | 145.4 | 80 | 50 | 33 | 33 | M12 x 1.75P | 3 ~ 13 | 1.10 |
| 11.763.13.100 | BT40 x SK313 - 100 | 165.4 | 100 | 70 | 33 | 33 | M12 x 1.75P | 3 ~ 13 | 1.30 |
| 11.763.13.120 | BT40 x SK313 - 120 | 185.4 | 120 | 90 | 33 | 33 | M12 x 1.75P | 3 ~ 13 | 1.40 |
| 11.763.16.080 | BT40 x SK316 - 80 | 145.4 | 80 | 48 | 40 | 40 | M18 x 1.5P | 3 ~ 16 | 1.20 |
| 11.763.16.100 | BT40 x SK316 - 100 | 165.4 | 100 | 68 | 40 | 40 | M18 x 1.5P | 3 ~ 16 | 1.40 |
| 11.763.16.120 | BT40 x SK316 - 120 | 185.4 | 120 | 88 | 40 | 40 | M18 x 1.5P | 3 ~ 16 | 1.50 |

Product information:

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.
- ▶ MAS/BT30 tool holders are without coolant supply over collars.

Standard Accessory: • NUT

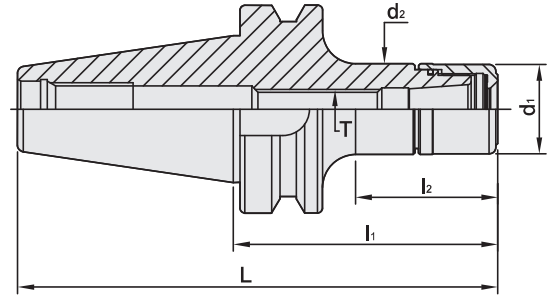
| Collet | Nut | Pull Stud | Preset Screw | Spanner |
|---|---|---|---|---|
|  |  |  |  |  |
| P.W-29~32 | P.W-52 | P.W-60~61 | P.W-88 | P.W-68~73 |



BT / SK3 COLLET CHUCK

5 μ m

BT / SK3 高速機專用夾頭



| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | SIZE RANGE | WEIGHT (KGS) |
|---------------|--------------------|-------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 12.763.06.080 | BT50 x SK306 - 80 | 181.8 | 80 | 34 | 19.5 | 19.5 | M8 x 1.25P | 3 ~ 6 | 4.00 |
| 12.763.06.100 | BT50 x SK306 - 100 | 201.8 | 100 | 54 | 19.5 | 19.5 | M8 x 1.25P | 3 ~ 6 | 4.10 |
| 12.763.06.120 | BT50 x SK306 - 120 | 221.8 | 120 | 61 | 19.5 | 19.5 | M8 x 1.25P | 3 ~ 6 | 4.20 |
| 12.763.10.080 | BT50 x SK310 - 80 | 181.8 | 80 | 39 | 27.5 | 27.5 | M12 x 1.75P | 3 ~ 10 | 4.10 |
| 12.763.10.100 | BT50 x SK310 - 100 | 201.8 | 100 | 57 | 27.5 | 27.5 | M12 x 1.75P | 3 ~ 10 | 4.20 |
| 12.763.10.120 | BT50 x SK310 - 120 | 221.8 | 120 | 79 | 27.5 | 27.5 | M12 x 1.75P | 3 ~ 10 | 4.30 |
| 12.763.13.080 | BT50 x SK313 - 80 | 181.8 | 80 | 39 | 33 | 33 | M12 x 1.75P | 3 ~ 13 | 4.20 |
| 12.763.13.100 | BT50 x SK313 - 100 | 201.8 | 100 | 52 | 33 | 33 | M12 x 1.75P | 3 ~ 13 | 4.30 |
| 12.763.13.120 | BT50 x SK313 - 120 | 221.8 | 120 | 79 | 33 | 33 | M12 x 1.75P | 3 ~ 13 | 4.40 |
| 12.763.16.080 | BT50 x SK316 - 80 | 181.8 | 80 | 40 | 40 | 40 | M18 x 1.5P | 3 ~ 16 | 4.30 |
| 12.763.16.100 | BT50 x SK316 - 100 | 201.8 | 100 | 57 | 40 | 40 | M18 x 1.5P | 3 ~ 16 | 4.40 |
| 12.763.16.120 | BT50 x SK316 - 120 | 221.8 | 120 | 72 | 40 | 40 | M18 x 1.5P | 3 ~ 16 | 4.50 |

Product information:

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

Standard Accessory: • NUT

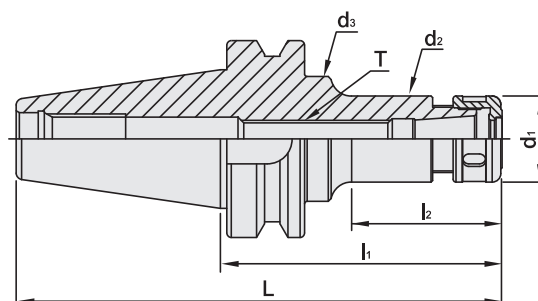
| Collet | Nut | Pull Stud | Preset Screw | Spanner |
|---|---|---|---|---|
|  |  |  |  |  |
| P.W-29~32 | P.W-52 | P.W-60~61 | P.W-88 | P.W-68~73 |

BT / SKS COLLET CHUCK

BT

5 μ m

BT / SKS 高速機專用夾頭



T W PAT NO. M270871

| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | d ₃ | T | SIZE RANGE | WEIGHT (KGS) |
|-------------|--------------------|-------|----------------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 18330 | BT30 x SKS6 - 45 | 93.4 | 45 | 22 | 18 | 18 | - | M8 x 1.25P | 3 ~ 6 | 0.80 |
| 18331 | BT30 x SKS6 - 60 | 108.4 | 60 | 33 | 18 | 18 | - | M8 x 1.25P | 3 ~ 6 | 0.90 |
| 18332 | BT30 x SKS10 - 45 | 93.4 | 45 | 22 | 30 | 27.6 | - | M12 x 1.75P | 3 ~ 10 | 0.80 |
| 18332 - 60 | BT30 x SKS10 - 60 | 108.4 | 60 | 33 | 30 | 27.6 | - | M12 x 1.75P | 3 ~ 10 | 0.90 |
| 18332 - 90 | BT30 x SKS10 - 90 | 138.4 | 90 | 63 | 30 | 27.6 | - | M12 x 1.75P | 3 ~ 10 | 1.00 |
| 18334 | BT30 x SKS13 - 60 | 108.4 | 60 | 35 | 35 | 33 | - | M12 x 1.75P | 3 ~ 13 | 0.70 |
| 18334 - 90 | BT30 x SKS13 - 90 | 138.4 | 90 | 65 | 35 | 33 | - | M12 x 1.75P | 3 ~ 13 | 1.10 |
| 18334 - 120 | BT30 x SKS13 - 120 | 168.4 | 120 | 95 | 35 | 33 | - | M12 x 1.75P | 3 ~ 13 | 1.20 |
| 18335 | BT30 x SKS16 - 60 | 108.4 | 60 | 37 | 40 | 40 | - | M18 x 1.5P | 3 ~ 16 | 0.70 |
| 18335 - 90 | BT30 x SKS16 - 90 | 138.4 | 90 | 67 | 40 | 40 | - | M18 x 1.5P | 3 ~ 16 | 1.20 |
| 18336 | BT30 x SKS20 - 60 | 108.4 | 60 | 33 | 48.5 | 48.5 | - | M12 x 1.75P | 3 ~ 20 | 0.70 |
| 18336 - 90 | BT30 x SKS20 - 90 | 138.4 | 90 | 60 | 48.5 | 48.5 | - | M12 x 1.75P | 3 ~ 20 | 1.20 |
| 18338 | BT40 x SKS6 - 90 | 155.4 | 90 | 44 | 18 | 18 | 32 | M8 x 1.25P | 3 ~ 6 | 1.20 |
| 18339 | BT40 x SKS6 - 120 | 185.4 | 120 | 74 | 18 | 18 | 32 | M8 x 1.25P | 3 ~ 6 | 1.40 |
| 18340 | BT40 x SKS10 - 90 | 155.4 | 90 | 45 | 30 | 27.6 | 40 | M12 x 1.75P | 3 ~ 10 | 1.50 |
| 18342 | BT40 x SKS10 - 120 | 185.4 | 120 | 74 | 30 | 27 | 40 | M12 x 1.75P | 3 ~ 10 | 1.60 |
| 18342 - 130 | BT40 x SKS10 - 130 | 195.4 | 130 | 84 | 30 | 27 | 40 | M12 x 1.75P | 3 ~ 10 | 1.70 |
| 18342 - 150 | BT40 x SKS10 - 150 | 215.4 | 150 | 104 | 30 | 27 | 40 | M12 x 1.75P | 3 ~ 10 | 1.90 |
| 18342 - 200 | BT40 x SKS10 - 200 | 265.4 | 200 | 162 | 30 | 27 | 40 | M12 x 1.75P | 3 ~ 10 | 2.20 |
| 18343 | BT40 x SKS13 - 60 | 125.4 | 60 | 30 | 35 | 33 | - | M12 x 1.75P | 3 ~ 13 | 1.20 |
| 18343 - 90 | BT40 x SKS13 - 90 | 155.4 | 90 | 60 | 35 | 33 | - | M12 x 1.75P | 3 ~ 13 | 1.40 |
| 18343 - 120 | BT40 x SKS13 - 120 | 185.4 | 120 | 90 | 35 | 33 | - | M12 x 1.75P | 3 ~ 13 | 1.60 |
| 18343 - 150 | BT40 x SKS13 - 150 | 215.4 | 150 | 120 | 35 | 33 | - | M12 x 1.75P | 3 ~ 13 | 1.70 |
| 18343 - 200 | BT40 x SKS13 - 200 | 265.4 | 200 | 170 | 35 | 33 | - | M12 x 1.75P | 3 ~ 13 | 2.00 |
| 18344 | BT40 x SKS16 - 90 | 155.4 | 90 | 58 | 40 | 40 | - | M18 x 1.5P | 3 ~ 16 | 1.60 |
| 18346 | BT40 x SKS16 - 120 | 185.4 | 120 | 88 | 40 | 40 | - | M18 x 1.5P | 3 ~ 16 | 1.70 |
| 18346 - 150 | BT40 x SKS16 - 150 | 215.4 | 150 | 118 | 40 | 40 | - | M18 x 1.5P | 3 ~ 16 | 1.90 |
| 18347 | BT40 x SKS16 - 200 | 265.4 | 200 | 168 | 40 | 40 | - | M18 x 1.5P | 3 ~ 16 | 2.10 |
| 18348 | BT40 x SKS20 - 60 | 125.4 | 60 | 32 | 48.5 | 48.5 | - | M22 x 1.5P | 3 ~ 20 | 1.30 |
| 18348 - 90 | BT40 x SKS20 - 90 | 155.4 | 90 | 60 | 48.5 | 48.5 | - | M22 x 1.5P | 3 ~ 20 | 1.60 |
| 18348 - 120 | BT40 x SKS20 - 120 | 185.4 | 120 | 88 | 48.5 | 48.5 | - | M22 x 1.5P | 3 ~ 20 | 2.00 |
| 18348 - 150 | BT40 x SKS20 - 150 | 215.4 | 150 | 118 | 48.5 | 48.5 | - | M22 x 1.5P | 3 ~ 20 | 2.10 |
| 18348 - 200 | BT40 x SKS20 - 200 | 265.4 | 200 | 168 | 48.5 | 48.5 | - | M22 x 1.5P | 3 ~ 20 | 2.20 |
| 18352 | BT40 x SKS25 - 90 | 155.4 | 90 | 61 | 55 | 55 | - | M28 x 2.0P | 3 ~ 25.4 | 1.70 |
| 18354 | BT40 x SKS25 - 120 | 185.4 | 120 | 91 | 55 | 55 | - | M28 x 2.0P | 3 ~ 25.4 | 1.80 |

Standard Accessory: • NUT

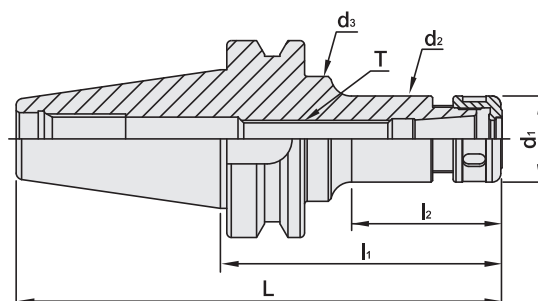
| Collet | Nut | Pull Stud | Preset Screw | Spanner |
|-----------|-----------|-----------|--------------|-----------|
| | | | | |
| P.W-29~32 | P.W-53~54 | P.W-60~61 | P.W-88 | P.W-68~73 |



BT / SKS COLLET CHUCK

5 μ m

BT / SKS 高速機專用夾頭



T W PAT NO. M270871

| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | d ₃ | T | SIZE RANGE | WEIGHT (KGS) |
|-------------|--------------------|-------|----------------|----------------|----------------|----------------|----------------|-------------|------------|--------------|
| 18360 | BT50 x SKS6 - 90 | 191.8 | 90 | 42 | 18 | 18 | - | M8 x 1.25P | 3 ~ 6 | 4.0 |
| 18362 | BT50 x SKS6 - 120 | 221.8 | 120 | 60 | 18 | 18 | 32 | M8 x 1.25P | 3 ~ 6 | 4.2 |
| 18370 | BT50 x SKS10 - 105 | 206.8 | 105 | 57 | 30 | 27.6 | - | M12 x 1.75P | 3 ~ 10 | 4.5 |
| 18372 | BT50 x SKS10 - 150 | 251.8 | 150 | 94 | 30 | 27 | 40 | M12 x 1.75P | 3 ~ 10 | 4.6 |
| 18374 | BT50 x SKS10 - 165 | 266.8 | 165 | 108 | 30 | 27 | 40 | M12 x 1.75P | 3 ~ 10 | 4.3 |
| 18374 - 200 | BT50 x SKS10 - 200 | 301.8 | 200 | 145 | 30 | 27 | 36 | M12 x 1.75P | 3 ~ 10 | 5.2 |
| 18374 - 250 | BT50 x SKS10 - 250 | 351.8 | 250 | 193 | 30 | 27 | 40 | M12 x 1.75P | 3 ~ 10 | 5.6 |
| 18375 | BT50 x SKS13 - 105 | 206.8 | 105 | 62 | 35 | 33 | - | M12 x 1.75P | 3 ~ 13 | 4.5 |
| 18375 - 135 | BT50 x SKS13 - 135 | 236.8 | 135 | 92 | 35 | 33 | - | M12 x 1.75P | 3 ~ 13 | 4.7 |
| 18375 - 150 | BT50 x SKS13 - 150 | 251.8 | 150 | 77 | 35 | 33 | 45 | M12 x 1.75P | 3 ~ 13 | 4.8 |
| 18375 - 165 | BT50 x SKS13 - 165 | 266.8 | 165 | 92 | 35 | 33 | 45 | M12 x 1.75P | 3 ~ 13 | 4.9 |
| 18375 - 200 | BT50 x SKS13 - 200 | 301.8 | 200 | 157 | 35 | 33 | 45 | M12 x 1.75P | 3 ~ 13 | 5.2 |
| 18375 - 250 | BT50 x SKS13 - 250 | 351.8 | 250 | 207 | 35 | 33 | 45 | M12 x 1.75P | 3 ~ 13 | 5.7 |
| 18376 | BT50 x SKS16 - 105 | 206.8 | 105 | 57 | 40 | 40 | - | M18 x 1.5P | 3 ~ 16 | 4.5 |
| 18378 | BT50 x SKS16 - 150 | 251.8 | 150 | 93 | 40 | 40 | 52 | M18 x 1.5P | 3 ~ 16 | 4.7 |
| 18380 | BT50 x SKS16 - 165 | 266.8 | 165 | 108 | 40 | 40 | 52 | M18 x 1.5P | 3 ~ 16 | 4.5 |
| 18380 - 200 | BT50 x SKS16 - 200 | 301.8 | 200 | 157 | 40 | 40 | 52 | M18 x 1.5P | 3 ~ 16 | 5.5 |
| 18380 - 250 | BT50 x SKS16 - 250 | 351.8 | 250 | 207 | 40 | 40 | 52 | M18 x 1.5P | 3 ~ 16 | 6.0 |
| 18382 | BT50 x SKS20 - 105 | 206.8 | 105 | 62 | 48.5 | 48.5 | - | M22 x 1.5P | 3 ~ 20 | 4.3 |
| 18382 - 135 | BT50 x SKS20 - 135 | 236.8 | 135 | 92 | 48.5 | 48.5 | - | M22 x 1.5P | 3 ~ 20 | 4.6 |
| 18382 - 150 | BT50 x SKS20 - 150 | 251.8 | 150 | 107 | 48.5 | 48.5 | - | M22 x 1.5P | 3 ~ 20 | 4.7 |
| 18384 | BT50 x SKS20 - 165 | 266.8 | 165 | 122 | 48.5 | 48.5 | - | M22 x 1.5P | 3 ~ 20 | 5.0 |
| 18384 - 200 | BT50 x SKS20 - 200 | 301.8 | 200 | 157 | 48.5 | 48.5 | - | M22 x 1.5P | 3 ~ 20 | 5.4 |
| 18384 - 250 | BT50 x SKS20 - 250 | 351.8 | 250 | 207 | 48.5 | 48.5 | - | M22 x 1.5P | 3 ~ 20 | 6.1 |
| 18386 | BT50 x SKS25 - 105 | 206.8 | 105 | 62 | 55 | 55 | - | M28 x 2.0P | 3.0 ~ 25.4 | 4.5 |
| 18388 | BT50 x SKS25 - 150 | 251.8 | 150 | 107 | 55 | 55 | - | M28 x 2.0P | 3.0 ~ 25.4 | 4.8 |
| 18390 | BT50 x SKS25 - 200 | 301.8 | 200 | 157 | 55 | 55 | - | M28 x 2.0P | 3.0 ~ 25.4 | 6.0 |
| 18392 | BT50 x SKS25 - 250 | 351.8 | 250 | 207 | 55 | 55 | - | M28 x 2.0P | 3.0 ~ 25.4 | 6.7 |

Product information:

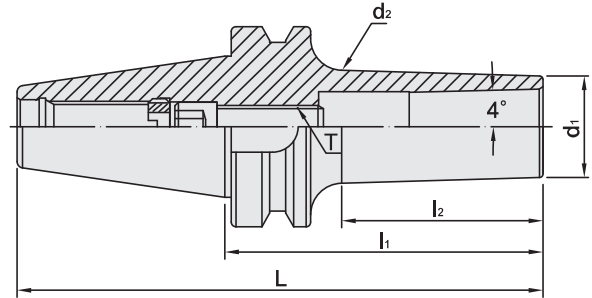
- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

Standard Accessory: • NUT

| Collet | Nut | Pull Stud | Preset Screw | Spanner |
|---|---|---|---|---|
|  |  |  |  |  |
| P.W-29~32 | P.W-53~54 | P.W-60~61 | P.W-88 | P.W-68~73 |

BT / SBL SLIM-FIT COLLET CHUCK

BT / SBL 後拉式立銑刀夾頭



T W PAT NO. M274178

| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | RECOMMENDED TORQUE | | SIZE RANGE | WEIGHT (KGS) |
|-------------|--------------------|-------|----------------|----------------|----------------|----------------|-------------|--------------------|--------|------------|--------------|
| | | | | | | | | N.m | lbf-ft | | |
| 18855 | BT30 x SBL6 - 70 | 118.4 | 70 | 38 | 14 | 18.1 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 1.00 |
| 18856 | BT30 x SBL6 - 100 | 148.4 | 100 | 68 | 14 | 21.2 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 1.25 |
| 18858 | BT30 x SBL12 - 70 | 118.4 | 70 | 47 | 26 | 33.4 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 1.20 |
| 18860 | BT30 x SBL12 - 100 | 148.4 | 100 | 77 | 26 | 38.1 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 1.45 |
| 18860 - 130 | BT30 x SBL12 - 130 | 178.4 | 130 | 106 | 26 | 35.2 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 1.65 |
| 18862 | BT30 x SBL20 - 80 | 128.4 | 80 | 55 | 34 | 37.7 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 1.20 |
| 18864 | BT30 x SBL20 - 100 | 148.4 | 100 | 77 | 34 | 39.2 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 1.45 |
| 18866 | BT40 x SBL6 - 70 | 135.4 | 70 | 28 | 14 | 17.1 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 1.20 |
| 18868 | BT40 x SBL6 - 100 | 165.4 | 100 | 58 | 14 | 20.1 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 1.60 |
| 18868 - 130 | BT40 x SBL6 - 130 | 195.4 | 130 | 88 | 14 | 23.3 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 1.80 |
| 18869 | BT40 x SBL6 - 200 | 265.4 | 200 | 161 | 14 | 30.9 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 2.00 |
| 18871 - 100 | BT40 x SBL8 - 100 | 165.4 | 100 | 58.7 | 20 | 26.1 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 1.25 |
| 18871 - 130 | BT40 x SBL8 - 130 | 195.4 | 130 | 93.5 | 20 | 29.8 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 1.38 |
| 18871 - 150 | BT40 x SBL8 - 150 | 215.4 | 150 | 113.5 | 20 | 31.8 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 1.50 |
| 18870 | BT40 x SBL12 - 70 | 135.4 | 70 | 33 | 26 | 31 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 1.50 |
| 18872 | BT40 x SBL12 - 100 | 165.4 | 100 | 63 | 26 | 31.6 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 1.70 |
| 18872 - 130 | BT40 x SBL12 - 130 | 195.4 | 130 | 93 | 26 | 34.2 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 1.90 |
| 18872 - 150 | BT40 x SBL12 - 150 | 215.4 | 150 | 113 | 26 | 36 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 2.10 |
| 18872 - 170 | BT40 x SBL12 - 170 | 235.4 | 170 | 133 | 26 | 37.7 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 2.30 |
| 18874 | BT40 x SBL20 - 70 | 135.4 | 70 | 33 | 35 | 38.1 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 1.50 |
| 18876 | BT40 x SBL20 - 100 | 165.4 | 100 | 68 | 35 | 41 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 1.70 |
| 18876 - 130 | BT40 x SBL20 - 130 | 195.4 | 130 | 98 | 35 | 43.6 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 1.90 |
| 18876 - 150 | BT40 x SBL20 - 150 | 215.4 | 150 | 118 | 35 | 45.3 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 2.10 |
| 18876 - 170 | BT40 x SBL20 - 170 | 235.4 | 170 | 138 | 35 | 47.1 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 2.30 |
| 18877 | BT40 x SBL25 - 80 | 145.4 | 80 | 50.1 | 40 | 44.3 | M16 x 1.5P | 90 | 66 | 6 ~ 25.4 | 1.70 |
| 18877 - 100 | BT40 x SBL25 - 100 | 165.4 | 100 | 70.1 | 40 | 46.1 | M16 x 1.5P | 90 | 66 | 6 ~ 25.4 | 1.90 |

Product information:

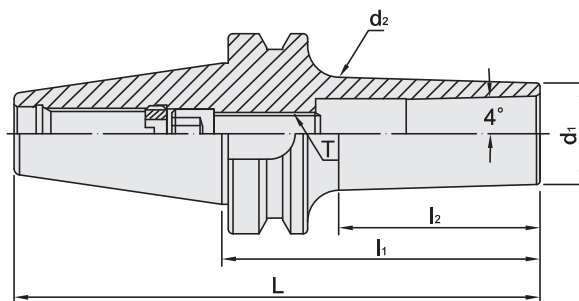
- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.
- ▶ MAS/BT30 tool holders are without coolant supply over collars.

| Collet | Pull Stud | Screw | Spanner |
|--------|-----------|--------|---------|
| | | | |
| P.W-33 | P.W-60~61 | P.W-91 | P.W-72 |



BT / SBL SLIM-FIT COLLET CHUCK

BT / SBL 後拉式立銑刀夾頭



T W PAT NO. M274178

| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | RECOMMENDED TORQUE | | SIZE RANGE | WEIGHT (KGS) |
|-------------|--------------------|-------|----------------|----------------|----------------|----------------|-------------|--------------------|--------|------------|--------------|
| | | | | | | | | N.m | lbf-ft | | |
| 18878 | BT50 x SBL6 - 70 | 171.8 | 70 | 17 | 14 | 15.9 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 4.00 |
| 18880 | BT50 x SBL6 - 100 | 201.8 | 100 | 47 | 14 | 19.1 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 4.10 |
| 18880 - 150 | BT50 x SBL6 - 150 | 251.8 | 150 | 97.7 | 14 | 24.2 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 4.30 |
| 18880 - 200 | BT50 x SBL6 - 200 | 301.8 | 200 | 147.7 | 14 | 29.4 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 4.60 |
| 18881 - 100 | BT50 x SBL8 - 100 | 201.8 | 100 | 47.7 | 20 | 25 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 3.78 |
| 18881 - 130 | BT50 x SBL8 - 130 | 231.8 | 130 | 77.7 | 20 | 28.1 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 3.92 |
| 18881 - 150 | BT50 x SBL8 - 150 | 251.8 | 150 | 97.7 | 20 | 30.2 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 4.04 |
| 18882 | BT50 x SBL12 - 70 | 171.8 | 70 | 22 | 26 | 28.1 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 4.20 |
| 18884 | BT50 x SBL12 - 100 | 201.8 | 100 | 52 | 26 | 30.6 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 4.30 |
| 18884 - 125 | BT50 x SBL12 - 125 | 226.8 | 125 | 77 | 26 | 32.9 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 4.50 |
| 18884 - 150 | BT50 x SBL12 - 150 | 251.8 | 150 | 102 | 26 | 35 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 4.80 |
| 18884 - 170 | BT50 x SBL12 - 170 | 271.8 | 170 | 122 | 26 | 36.7 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 5.00 |
| 18886 | BT50 x SBL20 - 70 | 171.8 | 70 | 22 | 35 | 36.9 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 4.60 |
| 18888 | BT50 x SBL20 - 100 | 201.8 | 100 | 52 | 35 | 39.6 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 4.70 |
| 18888 - 125 | BT50 x SBL20 - 125 | 226.8 | 125 | 77 | 35 | 41.8 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 4.90 |
| 18888 - 170 | BT50 x SBL20 - 170 | 271.8 | 170 | 122 | 35 | 45.6 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 5.30 |
| 18888 - 200 | BT50 x SBL20 - 200 | 301.8 | 200 | 152 | 35 | 48.3 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 5.60 |
| 18890 | BT50 x SBL25 - 70 | 171.8 | 70 | 22.4 | 40 | 41.9 | M16 x 1.5P | 90 | 66 | 6 ~ 25.4 | 4.80 |
| 18890 -100 | BT50 x SBL25 - 100 | 201.8 | 100 | 52.4 | 40 | 44.5 | M16 x 1.5P | 90 | 66 | 6 ~ 25.4 | 5.00 |

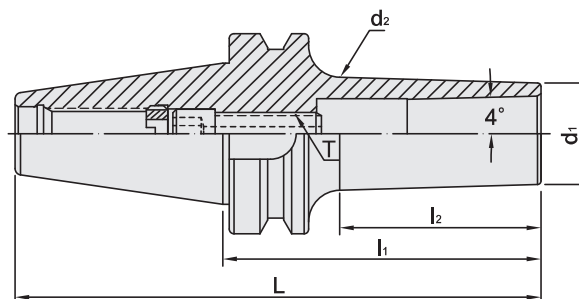
Product information:

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

| Collet | Pull Stud | Screw | Spanner |
|--------|-----------|--------|---------|
| | | | |
| P.W-33 | P.W-60~61 | P.W-91 | P.W-72 |

BT / SBLC SLIM-FIT COLLET CHUCK

BT / SBLC 後拉式立銑刀夾頭



T W PAT NO. M274178

| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | RECOMMENDED TORQUE | | SIZE RANGE | WEIGHT (KGS) |
|--------------|---------------------|-------|----------------|----------------|----------------|----------------|-------------|--------------------|--------|------------|--------------|
| | | | | | | | | N.m | lbf-ft | | |
| 18855C | BT30 x SBLC6 - 70 | 118.4 | 70 | 38 | 14 | 18.1 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 1.00 |
| 18856C | BT30 x SBLC6 - 100 | 148.4 | 100 | 68 | 14 | 21.2 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 1.25 |
| 18858C | BT30 x SBLC12 - 70 | 118.4 | 70 | 47 | 26 | 33.4 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 1.20 |
| 18860C | BT30 x SBLC12 - 100 | 148.4 | 100 | 77 | 26 | 38.1 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 1.45 |
| 18860C - 130 | BT30 x SBLC12 - 130 | 178.4 | 130 | 106 | 26 | 35.2 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 1.65 |
| 18862C | BT30 x SBLC20 - 80 | 128.4 | 80 | 55 | 34 | 37.7 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 1.20 |
| 18864C | BT30 x SBLC20 - 100 | 148.4 | 100 | 77 | 34 | 39.2 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 1.45 |
| 18866C | BT40 x SBLC6 - 70 | 135.4 | 70 | 28 | 14 | 17.1 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 1.20 |
| 18868C | BT40 x SBLC6 - 100 | 165.4 | 100 | 58 | 14 | 20.1 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 1.60 |
| 18868C - 130 | BT40 x SBLC6 - 130 | 195.4 | 130 | 88 | 14 | 23.3 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 1.80 |
| 18869C | BT40 x SBLC6 - 200 | 265.4 | 200 | 161 | 14 | 30.9 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 2.00 |
| 18871C - 100 | BT40 x SBLC8 - 100 | 165.4 | 100 | 58.7 | 20 | 26.1 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 1.25 |
| 18871C - 130 | BT40 x SBLC8 - 130 | 195.4 | 130 | 93.5 | 20 | 29.8 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 1.38 |
| 18871C - 150 | BT40 x SBLC8 - 150 | 215.4 | 150 | 113.5 | 20 | 31.8 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 1.50 |
| 18870C | BT40 x SBLC12 - 70 | 135.4 | 70 | 33 | 26 | 31 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 1.50 |
| 18872C | BT40 x SBLC12 - 100 | 165.4 | 100 | 63 | 26 | 31.6 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 1.70 |
| 18872C - 130 | BT40 x SBLC12 - 130 | 195.4 | 130 | 93 | 26 | 34.2 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 1.90 |
| 18872C - 150 | BT40 x SBLC12 - 150 | 215.4 | 150 | 113 | 26 | 36 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 2.10 |
| 18872C - 170 | BT40 x SBLC12 - 170 | 235.4 | 170 | 133 | 26 | 37.7 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 2.30 |
| 18874C | BT40 x SBLC20 - 70 | 135.4 | 70 | 33 | 35 | 38.1 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 1.50 |
| 18876C | BT40 x SBLC20 - 100 | 165.4 | 100 | 68 | 35 | 41 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 1.70 |
| 18876C - 130 | BT40 x SBLC20 - 130 | 195.4 | 130 | 98 | 35 | 43.6 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 1.90 |
| 18876C - 150 | BT40 x SBLC20 - 150 | 215.4 | 150 | 118 | 35 | 45.3 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 2.10 |
| 18876C - 170 | BT40 x SBLC20 - 170 | 235.4 | 170 | 138 | 35 | 47.1 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 2.30 |
| 18877C | BT40 x SBLC25 - 80 | 145.4 | 80 | 50.1 | 40 | 44.3 | M16 x 1.5P | 90 | 66 | 6 ~ 25.4 | 1.70 |
| 18877C - 100 | BT40 x SBLC25 - 100 | 165.4 | 100 | 70.1 | 40 | 46.1 | M16 x 1.5P | 90 | 66 | 6 ~ 25.4 | 1.90 |

Product information:

- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.
- ▶ MAS/BT30 tool holders are without coolant supply over collars.
- ▶ Used with SLC sealed collet and coolant through cutters.

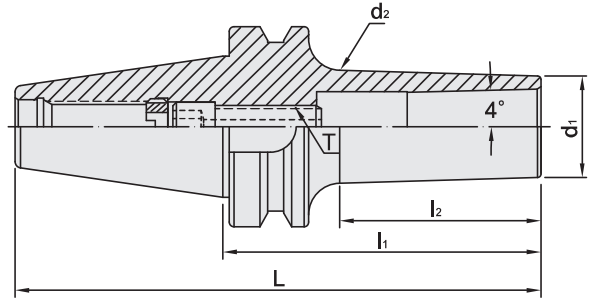
Standard Accessory: • SPANNER

| Collet | Pull Stud | Screw | Spanner |
|--------|-----------|--------|---------|
| | | | |
| P.W-34 | P.W-60~61 | P.W-91 | P.W-72 |



BT / SBLC SLIM-FIT COLLET CHUCK

BT / SBLC 後拉式立銑刀夾頭



T W PAT NO. M274178

| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | RECOMMENDED TORQUE | | SIZE RANGE | WEIGHT (KGS) |
|--------------|---------------------|-------|----------------|----------------|----------------|----------------|-------------|--------------------|--------|------------|--------------|
| | | | | | | | | N.m | lbf-ft | | |
| 18878C | BT50 x SBLC6 - 70 | 171.8 | 70 | 17 | 14 | 15.9 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 4.00 |
| 18880C | BT50 x SBLC6 - 100 | 201.8 | 100 | 47 | 14 | 19.1 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 4.10 |
| 18880C - 150 | BT50 x SBLC6 - 150 | 251.8 | 150 | 97.7 | 14 | 24.2 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 4.30 |
| 18880C - 200 | BT50 x SBLC6 - 200 | 301.8 | 200 | 147.7 | 14 | 29.4 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 4.60 |
| 18881C - 100 | BT50 x SBLC8 - 100 | 201.8 | 100 | 47.7 | 20 | 25 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 3.78 |
| 18881C - 130 | BT50 x SBLC8 - 130 | 231.8 | 130 | 77.7 | 20 | 28.1 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 3.92 |
| 18881C - 150 | BT50 x SBLC8 - 150 | 251.8 | 150 | 97.7 | 20 | 30.2 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 4.04 |
| 18882C | BT50 x SBLC12 - 70 | 171.8 | 70 | 22 | 26 | 28.1 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 4.20 |
| 18884C | BT50 x SBLC12 - 100 | 201.8 | 100 | 52 | 26 | 30.6 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 4.30 |
| 18884C - 125 | BT50 x SBLC12 - 125 | 226.8 | 125 | 77 | 26 | 32.9 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 4.50 |
| 18884C - 150 | BT50 x SBLC12 - 150 | 251.8 | 150 | 102 | 26 | 35 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 4.80 |
| 18884C - 170 | BT50 x SBLC12 - 170 | 271.8 | 170 | 122 | 26 | 36.7 | M10 x 1.5P | 45 | 33 | 3 ~ 12 | 5.00 |
| 18886C | BT50 x SBLC20 - 70 | 171.8 | 70 | 22 | 35 | 36.9 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 4.60 |
| 18888C | BT50 x SBLC20 - 100 | 201.8 | 100 | 52 | 35 | 39.6 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 4.70 |
| 18888C - 125 | BT50 x SBLC20 - 125 | 226.8 | 125 | 77 | 35 | 41.8 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 4.90 |
| 18888C - 170 | BT50 x SBLC20 - 170 | 271.8 | 170 | 122 | 35 | 45.6 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 5.30 |
| 18888C - 200 | BT50 x SBLC20 - 200 | 301.8 | 200 | 152 | 35 | 48.3 | M12 x 1.75P | 60 | 44 | 3 ~ 20 | 5.60 |
| 18890C | BT50 x SBLC25 - 70 | 171.8 | 70 | 22.4 | 40 | 41.9 | M16 x 1.5P | 90 | 66 | 6 ~ 25.4 | 4.80 |
| 18890C -100 | BT50 x SBLC25 - 100 | 201.8 | 100 | 52.4 | 40 | 44.5 | M16 x 1.5P | 90 | 66 | 6 ~ 25.4 | 5.00 |

Product information:

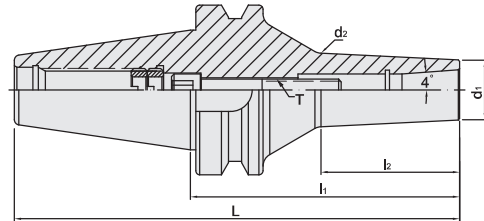
- ▶ Balance: G2.5 25,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.
- ▶ Used with SLC sealed collet and coolant through cutters.

Standard Accessory: • SPANNER

| Collet | Pull Stud | Screw | Spanner |
|--------|-----------|--------|---------|
| | | | |
| P.W-34 | P.W-60~61 | P.W-91 | P.W-72 |

BT / EBL SLIM-FIT COLLET CHUCK

BT / EBL 後拉式刀桿



| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | TORQUE | | SIZE RANGE | WEIGHT (KGS) |
|-------------|-------------------|-------|----------------|----------------|----------------|----------------|------------|--------|--------|------------|--------------|
| | | | | | | | | N.m | lbf-ft | | |
| 16912 | BT30 x EBL6 - 70 | 118.4 | 70 | 40.6 | 19.05 | 23 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 0.50 |
| 16912 - 100 | BT30 x EBL6 - 100 | 148.4 | 100 | 72.2 | 19.05 | 26 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 0.61 |
| 16922 | BT40 x EBL6 - 70 | 135.4 | 70 | 29.9 | 19.05 | 21.9 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 1.20 |
| 16922 - 100 | BT40 x EBL6 - 100 | 165.4 | 100 | 61.4 | 19.05 | 25 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 1.22 |
| 16922 - 125 | BT40 x EBL6 - 125 | 190.4 | 125 | 87.7 | 19.05 | 27.6 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 1.40 |
| 16922 - 200 | BT40 x EBL6 - 200 | 265.4 | 200 | 163.7 | 19.05 | 35 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 1.77 |
| 16924 - 70 | BT40 x EBL8 - 70 | 135.4 | 70 | 28.2 | 22.225 | 24.9 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 1.14 |
| 16924 | BT40 x EBL8 - 100 | 165.4 | 100 | 59.8 | 22.225 | 28 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 1.26 |
| 16924 - 125 | BT40 x EBL8 - 125 | 190.4 | 125 | 85.09 | 22.225 | 30.6 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 1.40 |
| 16924 - 200 | BT40 x EBL8 - 200 | 265.4 | 200 | 160.7 | 22.225 | 37.9 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 1.91 |
| 16932 | BT50 x EBL6 - 70 | 171.8 | 70 | 18.3 | 19.05 | 20.8 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 3.68 |
| 16932 - 100 | BT50 x EBL6 - 100 | 201.8 | 100 | 49.9 | 19.05 | 23.9 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 3.77 |
| 16932 - 125 | BT50 x EBL6 - 125 | 226.8 | 125 | 69.8 | 19.05 | 25.9 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 3.95 |
| 16932 - 200 | BT50 x EBL6 - 200 | 301.8 | 200 | 151.7 | 19.05 | 33.8 | M6 x 1.0P | 12 | 9 | 3 ~ 6 | 4.22 |
| 16934 | BT50 x EBL8 - 70 | 171.8 | 70 | 16.6 | 22.225 | 23.8 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 3.71 |
| 16934 - 100 | BT50 x EBL8 - 100 | 201.8 | 100 | 48.2 | 22.225 | 26.9 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 3.83 |
| 16934 - 125 | BT50 x EBL8 - 125 | 226.8 | 125 | 66.8 | 22.225 | 28.7 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 3.95 |
| 16934 - 200 | BT50 x EBL8 - 200 | 301.8 | 200 | 148.7 | 22.225 | 36.7 | M8 x 1.25P | 29 | 21 | 3 ~ 8 | 4.34 |



▶ SBL



▶ EBL

Features:

- ▶ The extended length of EBL collet and special longer inner hole design of holder allow deeper tool insertion and shorter tool overhanging length, improving the machining stability.
- ▶ The optimized design of thicker neck improves the machining rigidity and eliminates micro-vibration.
- ▶ Use with CTS to achieve better dustproof ability and chip evacuation. Capable of coolant pressure up to 25 bar.

Product information:

- ▶ Balance: G2.5 25,000rpm.

Standard Accessory: • ALLEN WRENCH • TORX WRENCH

| Collet | Sealed Collet | Pull Stud | Spanner |
|--------|---------------|-----------|---------|
| | | | |
| P.W-35 | P.W-36 | P.W-60~61 | P.W-72 |



BT / MLD MULTI-LOCK MILLING CHUCK

BT / MLD 直式筒夾 銑床夾頭



T W PAT NO. M447277
T W PAT NO. M430337
T W PAT NO. M451185
C N PAT NO. ZL201220749784.4
C H PAT NO. ZL201220749942.6

Fig.1

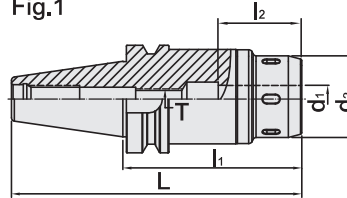
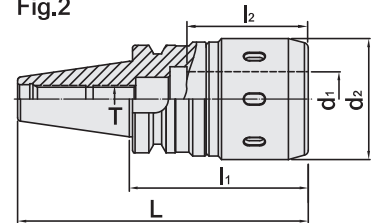


Fig.2



METRIC

| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | Fig | WEIGHT (KGS) |
|--------------|--------------------|-------|----------------|----------------|----------------|----------------|-------------|-----|--------------|
| 15900G | BT30 x MLD12 - 80 | 128.4 | 80 | 46.7 | 12 | 42 | M12 x 1.75P | 2 | 1.00 |
| 15901G | BT30 x MLD16 - 75 | 123.4 | 75 | 56.7 | 16 | 48 | M12 x 1.75P | 1 | 1.20 |
| 15902G | BT30 x MLD20 - 80 | 128.4 | 80 | 59.3 | 20 | 56.5 | M12 x 1.75P | 2 | 1.90 |
| 15904G | BT30 x MLD20 - 90 | 138.4 | 90 | 59.3 | 20 | 56.5 | M16 x 2.0P | 2 | 2.00 |
| 15908G | BT30 x MLD25 - 90 | 138.4 | 90 | 58.2 | 25 | 60 | M16 x 2.0P | 2 | 1.80 |
| 15910G | BT40 x MLD12 - 75 | 140.4 | 75 | 46.7 | 12 | 42 | M12 x 1.75P | 1 | 1.50 |
| 15910G - 105 | BT40 x MLD12 - 105 | 170.4 | 105 | 46.7 | 12 | 42 | M12 x 1.75P | 1 | 2.00 |
| 15910G - 135 | BT40 x MLD12 - 135 | 200.4 | 135 | 46.7 | 12 | 42 | M12 x 1.75P | 1 | 2.10 |
| 15911G | BT40 x MLD16 - 75 | 140.4 | 75 | 56.7 | 16 | 48 | M12 x 1.75P | 1 | 1.70 |
| 15911G - 105 | BT40 x MLD16 - 105 | 170.4 | 105 | 56.7 | 16 | 48 | M12 x 1.75P | 1 | 2.30 |
| 15911G - 135 | BT40 x MLD16 - 135 | 200.4 | 135 | 56.7 | 16 | 48 | M12 x 1.75P | 1 | 2.40 |
| 15912G | BT40 x MLD20 - 80 | 145.4 | 80 | 59.3 | 20 | 56.5 | M16 x 2.0P | 1 | 2.30 |
| 15914G | BT40 x MLD20 - 100 | 165.4 | 100 | 59.3 | 20 | 56.5 | M16 x 2.0P | 1 | 2.50 |
| 15916G | BT40 x MLD20 - 135 | 200.4 | 135 | 59.3 | 20 | 56.5 | M16 x 2.0P | 1 | 2.80 |
| 15918G | BT40 x MLD25 - 85 | 150.4 | 85 | 58.2 | 25 | 60 | M16 x 2.0P | 1 | 2.20 |
| 15920G | BT40 x MLD25 - 100 | 165.4 | 100 | 58.2 | 25 | 60 | M16 x 2.0P | 1 | 2.40 |
| 15922G | BT40 x MLD32 - 95 | 160.4 | 95 | 71.7 | 32 | 71 | M16 x 2.0P | 2 | 2.70 |
| 15924G | BT40 x MLD32 - 105 | 170.4 | 105 | 71.7 | 32 | 71 | M16 x 2.0P | 2 | 2.70 |
| 15926G | BT40 x MLD32 - 135 | 200.4 | 135 | 71.7 | 32 | 71 | M16 x 2.0P | 2 | 3.00 |

Features:

- ▶ Good clamping power. The clamping power of MLD32 type is around 1000 N-m.
- ▶ Runout accuracy of MLD holder body: within 0.005mm.
- ▶ Runout accuracy with collet: within 0.02mm.
- ▶ The tolerance requirement of tool shank diameter is h6.
- ▶ Internal bearing cage helps increase the clamping force.
- ▶ After fastening, the nuts and tool holders contact tight to enhance the cutting rigidity.
- ▶ Coolant options: through the center of holder or cutter. Use sealed caps and SR rings for coolant through cutter.

Product information:

- ▶ The pre-balance reaches G6.3 8,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.
- ▶ MAS/BT30 tool holders are without coolant supply over collars.

Standard Accessory: • NUT • SET SCREW

| Collet | Sealed Cap | SR Sealed Ring | Pull Stud | Set Screw | Spanner | Spanner |
|-----------|------------|----------------|-----------|-----------|-----------|---------|
| | | | | | | |
| P.W-38~39 | P.W-58 | P.W-59 | P.W-60~61 | P.W-88 | P.W-71~72 | P.W-73 |

BT / MLD MULTI-LOCK MILLING CHUCK

BT / MLD 直式筒夾 銑床夾頭



T W PAT NO. M447277
T W PAT NO. M430337
T W PAT NO. M451185
C N PAT NO. ZL201220749784.4
C H PAT NO. ZL201220749942.6

Fig.1

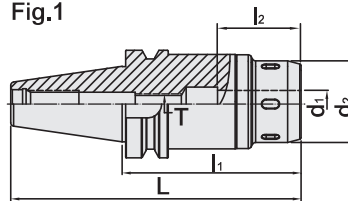
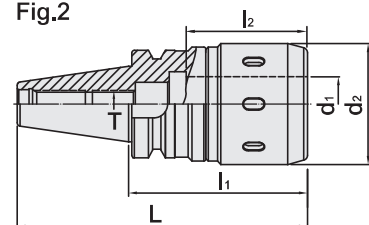


Fig.2



METRIC

| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | Fig | WEIGHT (KGS) |
|--------------|--------------------|-------|----------------|----------------|----------------|----------------|-------------|-----|--------------|
| 15925G | BT50 x MLD12 - 105 | 206.8 | 105 | 46.7 | 12 | 42 | M12 x 1.75P | 1 | 4.60 |
| 15925G - 135 | BT50 x MLD12 - 135 | 236.8 | 135 | 46.7 | 12 | 42 | M12 x 1.75P | 1 | 5.10 |
| 15925G - 165 | BT50 x MLD12 - 165 | 266.8 | 165 | 46.7 | 12 | 42 | M12 x 1.75P | 1 | 5.80 |
| 15927G | BT50 x MLD16 - 105 | 206.8 | 105 | 56.7 | 16 | 48 | M12 x 1.75P | 1 | 4.90 |
| 15927G - 135 | BT50 x MLD16 - 135 | 236.8 | 135 | 56.7 | 16 | 48 | M12 x 1.75P | 1 | 5.60 |
| 15927G - 165 | BT50 x MLD16 - 165 | 266.8 | 165 | 56.7 | 16 | 48 | M12 x 1.75P | 1 | 6.50 |
| 15928G | BT50 x MLD20 - 105 | 206.8 | 105 | 59.3 | 20 | 56.5 | M16 x 2.0P | 1 | 4.50 |
| 15930G | BT50 x MLD20 - 150 | 251.8 | 150 | 59.3 | 20 | 56.5 | M16 x 2.0P | 1 | 4.90 |
| 15932G | BT50 x MLD25 - 100 | 201.8 | 100 | 58.2 | 25 | 60 | M16 x 2.0P | 1 | 4.80 |
| 15934G | BT50 x MLD25 - 130 | 231.8 | 130 | 58.2 | 25 | 60 | M16 x 2.0P | 1 | 5.70 |
| 15936G - 105 | BT50 x MLD32 - 105 | 206.8 | 105 | 71.7 | 32 | 71 | M24 x 3.0P | 1 | 5.00 |
| 15936G | BT50 x MLD32 - 135 | 236.8 | 135 | 71.7 | 32 | 71 | M24 x 3.0P | 1 | 5.20 |
| 15938G | BT50 x MLD32 - 165 | 266.8 | 165 | 71.7 | 32 | 71 | M24 x 3.0P | 1 | 6.70 |
| 15940G | BT50 x MLD42 - 115 | 216.8 | 115 | 84.8 | 42 | 90 | M24 x 3.0P | 1 | 5.50 |
| 15942G | BT50 x MLD42 - 130 | 231.8 | 130 | 84.8 | 42 | 90 | M24 x 3.0P | 1 | 6.50 |
| 15944G | BT50 x MLD42 - 165 | 266.8 | 165 | 84.8 | 42 | 90 | M24 x 3.0P | 1 | 7.70 |

Features:

- ▶ Good clamping power. The clamping power of MLD32 type is around 1000 N-m.
- ▶ Runout accuracy of MLD holder body: within 0.005mm.
- ▶ Runout accuracy with collet: within 0.02mm.
- ▶ The tolerance requirement of tool shank diameter is h6.
- ▶ Internal bearing cage helps increase the clamping force.
- ▶ After fastening, the nuts and tool holders contact tight to enhance the cutting rigidity.
- ▶ Coolant options: through the center of holder or cutter. Use sealed caps and SR rings for coolant through cutter.

Product information:

- ▶ The pre-balance reaches G6.3 8,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

Standard Accessory: • NUT • SET SCREW

| Collet | Sealed Cap | SR Sealed Ring | Pull Stud | Set Screw | Spanner | Spanner |
|-----------|------------|----------------|-----------|-----------|-----------|---------|
| | | | | | | |
| P.W-38~39 | P.W-58 | P.W-59 | P.W-60~61 | P.W-88 | P.W-71~72 | P.W-73 |



BT / MLD MULTI-LOCK MILLING CHUCK

BT / MLD 直式筒夾 銑床夾頭



T W PAT NO. M447277
T W PAT NO. M430337
T W PAT NO. M451185
C N PAT NO. ZL201220749784.4
C H PAT NO. ZL201220749942.6

Fig.1

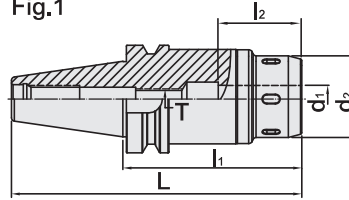
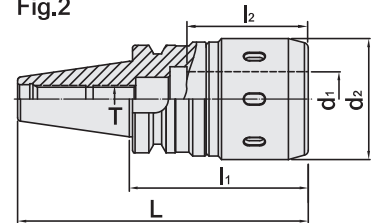


Fig.2



INCHES

| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | Fig | WEIGHT (KGS) |
|---------------|------------------------|-------|----------------|----------------|----------------|----------------|-------------|-----|--------------|
| 15989G | BT30 x MLD1/2" - 3.15" | 5.05 | 3.15 | 1.84 | 0.5 | 1.654 | M12 x 1.75P | 2 | 1.00 |
| 15990G | BT30 x MLD5/8" - 2.95" | 4.86 | 2.95 | 2.23 | 0.625 | 1.889 | M12 x 1.75P | 1 | 1.20 |
| 15991G | BT30 x MLD3/4" - 3.54" | 5.449 | 3.54 | 2.34 | 0.75 | 2.224 | M12 x 1.75P | 2 | 1.90 |
| 15992G | BT30 x MLD1" - 3.54" | 5.449 | 3.54 | 2.49 | 1 | 2.362 | M16 x 2.0P | 2 | 1.80 |
| 15988G | BT40 x MLD1/2" - 2.95" | 5.528 | 2.95 | 1.84 | 0.5 | 1.654 | M12 x 1.75P | 1 | 1.50 |
| 15993G | BT40 x MLD5/8" - 2.95" | 5.528 | 2.95 | 2.23 | 0.625 | 1.889 | M12 x 1.75P | 1 | 1.70 |
| 15994G | BT40 x MLD3/4" - 3.15" | 5.724 | 3.15 | 2.34 | 0.75 | 2.224 | M16 x 2.0P | 1 | 2.30 |
| 15995G | BT40 x MLD1" - 3.15" | 5.724 | 3.15 | 2.49 | 1 | 2.362 | M16 x 2.0P | 1 | 2.20 |
| 15996G | BT40 x MLD1-1/4" - 4" | 6.575 | 4 | 2.8 | 1.25 | 2.795 | M16 x 2.0P | 2 | 2.70 |
| 15986G | BT50 x MLD1/2" - 4" | 8.008 | 4 | 1.84 | 0.5 | 1.654 | M12 x 1.75P | 1 | 4.60 |
| 15987G | BT50 x MLD5/8" - 4" | 8.008 | 4 | 2.23 | 0.625 | 1.889 | M12 x 1.75P | 1 | 4.90 |
| 15997G | BT50 x MLD3/4" - 4" | 8.008 | 4 | 2.34 | 0.75 | 2.224 | M16 x 2.0P | 1 | 4.50 |
| 15998G | BT50 x MLD1" - 4.13" | 8.14 | 4.13 | 2.49 | 1 | 2.362 | M16 x 2.0P | 1 | 4.80 |
| 15998G - 5.12 | BT50 x MLD1"- 5.12" | 9.126 | 5.12 | 2.49 | 1 | 2.362 | M16 x 2.0P | 1 | 5.70 |
| 15999G | BT50 x MLD1-1/4" - 4" | 8.008 | 4 | 2.8 | 1.25 | 2.795 | M24 x 3.0P | 1 | 4.90 |

Features:

- ▶ Good clamping power. The clamping power of MLD32 type is around 1000 N-m.
- ▶ Runout accuracy of MLD holder body: within 0.005mm.
- ▶ Runout accuracy with collet: within 0.02mm.
- ▶ The tolerance requirement of tool shank diameter is h6.
- ▶ Internal bearing cage helps increase the clamping force.
- ▶ After fastening, the nuts and tool holders contact tight to enhance the cutting rigidity.
- ▶ Coolant options: through the center of holder or cutter. Use sealed caps and SR rings for coolant through cutter.

Product information:

- ▶ The pre-balance reaches G6.3 8,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.
- ▶ MAS/BT30 tool holders are without coolant supply over collars.

Standard Accessory: • NUT • SET SCREW

| Collet | Sealed Cap | SR Sealed Ring | Pull Stud | Set Screw | Spanner | Spanner |
|-----------|------------|----------------|-----------|-----------|-----------|---------|
| | | | | | | |
| P.W-38~39 | P.W-58 | P.W-59 | P.W-60~61 | P.W-88 | P.W-71~72 | P.W-73 |

BT / EOC COLLET CHUCK

BT

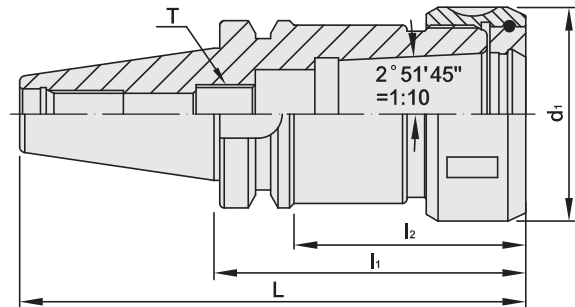


BT / EOC 立銑刀夾頭

(DIN ISO 10897)



T W PAT NO. M298033
 T W PAT NO. M311791
 J P PAT NO. 3128766
 K R PAT NO. 20-0433603
 C N PAT NO. ZL200620132661.0
 C H PAT NO. 696550
 T R PAT NO. TR 2007 02942 Y
 I T PAT NO. N.0000266731



| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | T | SIZE RANGE | WEIGHT (KGS) |
|-----------|--------------------|-------|----------------|----------------|----------------|-------------|------------|--------------|
| 16001 | BT30 x EOC25 - 70 | 118.4 | 70 | 48 | 60 | M12 x 1.75P | 3 ~ 25 | 1.00 |
| 16021 | BT40 x EOC25 - 70 | 135.4 | 70 | 40.5 | 60 | M16 x 2.0P | 3 ~ 25 | 1.38 |
| 16023 | BT40 x EOC25 - 100 | 165.4 | 100 | 70.5 | 60 | M16 x 2.0P | 3 ~ 25 | 1.74 |
| 16026 | BT40 x EOC25 - 120 | 185.4 | 120 | 88 | 60 | M16 x 2.0P | 3 ~ 25 | 1.74 |
| 16027 | BT40 x EOC32 - 90 | 155.4 | 90 | 63 | 72 | M20 x 2.0P | 4 ~ 32 | 2.00 |
| 16029 | BT40 x EOC32 - 105 | 170.4 | 105 | 78 | 72 | M20 x 2.0P | 4 ~ 32 | 2.20 |
| 16031 | BT40 x EOC32 - 120 | 185.4 | 120 | 93 | 72 | M20 x 2.0P | 4 ~ 32 | 2.45 |
| 16041 | BT50 x EOC25 - 85 | 186.8 | 85 | 44.5 | 60 | M16 x 2.0P | 3 ~ 25 | 4.40 |
| 16043 | BT50 x EOC25 - 100 | 201.8 | 100 | 59.5 | 60 | M16 x 2.0P | 3 ~ 25 | 4.80 |
| 16046 | BT50 x EOC25 - 120 | 221.8 | 120 | 77 | 60 | M16 x 2.0P | 3 ~ 25 | 5.20 |
| 16047 | BT50 x EOC32 - 90 | 191.8 | 90 | 44 | 72 | M24 x 2.0P | 4 ~ 32 | 4.60 |
| 16049 | BT50 x EOC32 - 105 | 206.8 | 105 | 59 | 72 | M24 x 2.0P | 4 ~ 32 | 4.85 |
| 16051 | BT50 x EOC32 - 120 | 221.8 | 120 | 74 | 72 | M24 x 2.0P | 4 ~ 32 | 5.35 |

Features:

- ▶ Each collet chuck has been locked with a nut, but not including a spanner and collet.
- ▶ The draw bar thread can make pull studs locked precisely and easily, including 45°, 60°, and 90°.

Product information:

- ▶ The pre-balance reaches G6.3 10,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.
- ▶ MAS/BT30 tool holders are without coolant supply over collars.

Standard Accessory: • NUT

| Collet | Nut | Pull Stud | Preset Screw | Spanner |
|--------|--------|-----------|--------------|-----------|
| | | | | |
| P.W-41 | P.W-57 | P.W-60~61 | P.W-88 | P.W-68~72 |



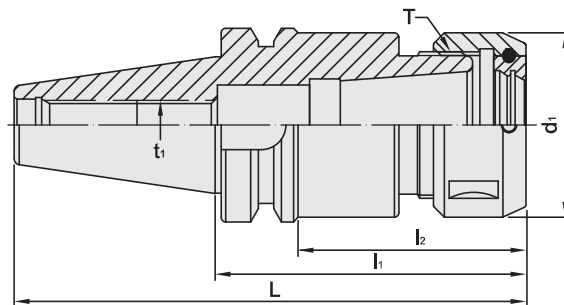
BT / TG COLLET CHUCK



BT / TG 立銑刀夾頭



T W PAT NO. M298033
 T W PAT NO. M311791
 J P PAT NO. 3128766
 K R PAT NO. 20-0433603
 C N PAT NO. ZL200620132661.0
 C H PAT NO. 696550
 T R PAT NO. TR 2007 02942 Y
 I T PAT NO. N.0000266731



| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | t ₁ | T | SIZE RANGE | WEIGHT (KGS) |
|-----------|--------------------|-------|----------------|----------------|----------------|----------------|----------------|------------|--------------|
| 16056 | BT30 x TG75 - 70 | 118.4 | 70 | 47 | 50 | M16 x 2.0P | TW 1-1/2" - 12 | 3 ~ 16 | 1.10 |
| 16058 | BT30 x TG75 - 100 | 148.4 | 100 | 77 | 50 | M16 x 2.0P | TW 1-1/2" - 12 | 3 ~ 16 | 1.15 |
| 16060 | BT30 x TG100 - 100 | 148.4 | 100 | 78 | 60 | - | TW 1-7/8" - 12 | 3 ~ 25 | 1.20 |
| 16068 | BT40 x TG100 - 70 | 135.4 | 70 | 43 | 60 | M16 x 2.0P | TW 1-7/8" - 12 | 3 ~ 25 | 1.20 |
| 16070 | BT40 x TG100 - 100 | 165.4 | 100 | 73 | 60 | M16 x 2.0P | TW 1-7/8" - 12 | 3 ~ 25 | 1.90 |
| 16072 | BT40 x TG100 - 120 | 185.4 | 120 | 93 | 60 | M16 x 2.0P | TW 1-7/8" - 12 | 3 ~ 25 | 2.40 |
| 16074 | BT40 x TG150 - 105 | 170.4 | 105 | 78 | 82 | M24 x 2.0P | TW 2-5/8" - 12 | 4 ~ 38 | 2.70 |
| 16076 | BT40 x TG150 - 120 | 185.4 | 120 | 93 | 82 | M24 x 2.0P | TW 2-5/8" - 12 | 4 ~ 38 | 2.90 |
| 16078 | BT40 x TG150 - 135 | 200.4 | 135 | 108 | 82 | M24 x 2.0P | TW 2-5/8" - 12 | 4 ~ 38 | 3.20 |
| 16088 | BT50 x TG100 - 85 | 186.8 | 85 | 44 | 60 | M24 x 2.0P | TW 1-7/8" - 12 | 3 ~ 25 | 3.40 |
| 16090 | BT50 x TG100 - 100 | 201.8 | 100 | 57 | 60 | M24 x 2.0P | TW 1-7/8" - 12 | 3 ~ 25 | 4.40 |
| 16092 | BT50 x TG100 - 120 | 221.8 | 120 | 77 | 60 | M24 x 2.0P | TW 1-7/8" - 12 | 3 ~ 25 | 5.10 |
| 16094 | BT50 x TG150 - 90 | 191.8 | 90 | 50 | 82 | M24 x 2.0P | TW 2-5/8" - 12 | 4 ~ 38 | 5.70 |
| 16096 | BT50 x TG150 - 105 | 206.8 | 105 | 64 | 82 | M24 x 2.0P | TW 2-5/8" - 12 | 4 ~ 38 | 6.10 |
| 16098 | BT50 x TG150 - 120 | 221.8 | 120 | 79 | 82 | M24 x 2.0P | TW 2-5/8" - 12 | 4 ~ 38 | 6.50 |

Features:

- ▶ Standard testing table is in accordance with the cutting length and precise requirements of various sizes of end mills.

Product information:

- ▶ The pre-balance reaches G6.3 10,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

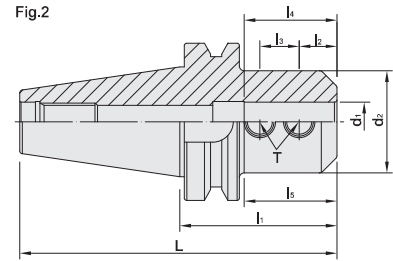
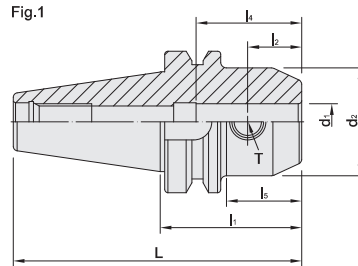
Standard Accessory: • NUT

| Collet | Nut | Pull Stud | Preset Screw | Spanner |
|-----------|--------|-----------|--------------|---------|
| | | | | |
| P.W-42~44 | P.W-57 | P.W-60~61 | P.W-88 | P.W-72 |

BT / SLN SIDE LOCK END MILL HOLDER

BT / SLN 側固式立銑刀柄

[DIN 1835]





| MODEL NO. | TYPE | L | l ₁ | l ₂ | l ₃ | l ₄ | l ₅ | d ₁ | d ₂ | T | Fig | WEIGHT (KGS) |
|-------------|--------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|-----|--------------|
| 17122 | BT30 x SLN6 - 60 | 108.4 | 60 | 18 | - | 35 | 33 | 6 | 25 | M6 x 1.0P | 1 | 0.55 |
| 17123 | BT30 x SLN8 - 60 | 108.4 | 60 | 18 | - | 35 | 33 | 8 | 28 | M8 x 1.25P | 1 | 0.60 |
| 17124 | BT30 x SLN10 - 60 | 108.4 | 60 | 20 | - | 39 | 35 | 10 | 35 | M10 x 1.5P | 1 | 0.70 |
| 17125 | BT30 x SLN12 - 60 | 108.4 | 60 | 22.5 | - | 44 | 36 | 12 | 42 | M12 x 1.75P | 1 | 0.75 |
| 17126 | BT30 x SLN16 - 75 | 123.4 | 75 | 24 | - | 47 | 53 | 16 | 48 | M14 x 2.0P | 1 | 1.05 |
| 17127 | BT30 x SLN20 - 75 | 123.4 | 75 | 25 | - | 49 | 53 | 20 | 52 | M16 x 2.0P | 1 | 1.10 |
| 17128 | BT30 x SLN25 - 90 | 138.4 | 90 | 24 | 25 | 58 | 68 | 25 | 65 | M18 x 2.0P | 2 | 1.70 |
| 17131 | BT40 x SLN6 - 50 | 115.4 | 50 | 18 | - | 35 | 20 | 6 | 25 | M6 x 1.0P | 1 | 1.10 |
| 17131 - 150 | BT40 x SLN6 - 150 | 215.4 | 150 | 18 | - | 35 | 113 | 6 | 25 | M6 x 1.0P | 1 | 1.32 |
| 17132 | BT40 x SLN8 - 50 | 115.4 | 50 | 18 | - | 35 | 20 | 8 | 28 | M8 x 1.25P | 1 | 1.10 |
| 17132 - 150 | BT40 x SLN8 - 150 | 215.4 | 150 | 18 | - | 35 | 113 | 8 | 28 | M8 x 1.25P | 1 | 1.30 |
| 17133 | BT40 x SLN10 - 63 | 128.4 | 63 | 20 | - | 39 | 33 | 10 | 35 | M10 x 1.5P | 1 | 1.25 |
| 17133 - 150 | BT40 x SLN10 - 150 | 215.4 | 150 | 20 | - | 39 | 113 | 10 | 35 | M10 x 1.5P | 1 | 1.40 |
| 17134 | BT40 x SLN12 - 63 | 128.4 | 63 | 22.5 | - | 44 | 33 | 12 | 42 | M12 x 1.75P | 1 | 1.30 |
| 17134 - 150 | BT40 x SLN12 - 150 | 215.4 | 150 | 22.5 | - | 44 | 116 | 12 | 42 | M12 x 1.75P | 1 | 1.53 |
| 17135 | BT40 x SLN16 - 63 | 128.4 | 63 | 24 | - | 47 | 33 | 16 | 48 | M14 x 2.0P | 1 | 1.40 |
| 17135 - 150 | BT40 x SLN16 - 150 | 215.4 | 150 | 24 | - | 47 | 120 | 16 | 48 | M14 x 2.0P | 1 | 1.60 |
| 17135 - 18 | BT40 x SLN18 - 63 | 128.4 | 63 | 24 | - | 44 | 33 | 18 | 50 | M14 x 2.0P | 1 | 1.65 |
| 17136 | BT40 x SLN20 - 63 | 128.4 | 63 | 25 | - | 49 | 33 | 20 | 52 | M16 x 2.0P | 1 | 1.40 |
| 17137 | BT40 x SLN25 - 100 | 165.4 | 100 | 24 | 25 | 58 | 73 | 25 | 65 | M18 x 2.0P | 2 | 2.50 |
| 17138 | BT40 x SLN32 - 100 | 165.4 | 100 | 24 | 28 | 63 | 73 | 32 | 72 | M20 x 2.0P | 2 | 2.75 |

Features:

- ▶ Internal hole tolerance: H5 (DIN-1835-B standard).
- ▶ The tolerance requirement of tool shank diameter is h6.

Product information:

- ▶ The pre-balance reaches G6.3 8,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.
- ▶ MAS/BT30 tool holders are without coolant supply over collars.

| Pull Stud | Lock Screw |
|---|---|
|  |  |
| P.W-60~61 | P.W-90 |



BT / SLN SIDE LOCK END MILL HOLDER

BT / SLN 側固式立銑刀柄

[DIN 1835]



Fig.1

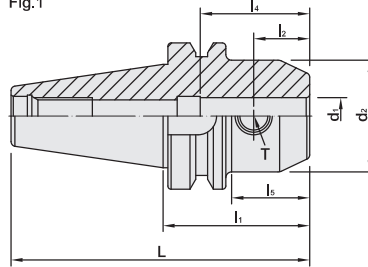
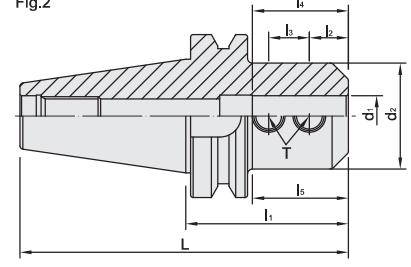


Fig.2





| MODEL NO. | TYPE | L | l ₁ | l ₂ | l ₃ | l ₄ | l ₅ | d ₁ | d ₂ | T | Fig | WEIGHT (KGS) |
|-----------|----------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|-----|--------------|
| 17151 | BT50 x SLN6 - 63 | 164.8 | 63 | 18 | - | 35 | 20 | 6 | 25 | M6 x 1.0P | 1 | 3.80 |
| 17152 | BT50 x SLN8 - 63 | 164.8 | 63 | 18 | - | 39 | 20 | 8 | 28 | M8 x 1.25P | 1 | 3.80 |
| 17153 | BT50 x SLN10 - 63 | 164.8 | 63 | 20 | - | 39 | 22 | 10 | 35 | M10 x 1.5P | 1 | 3.00 |
| 17154 | BT50 x SLN12 - 80 | 181.8 | 80 | 22.5 | - | 44 | 39 | 12 | 42 | M12 x 1.75P | 1 | 4.00 |
| 17155 | BT50 x SLN16 - 80 | 181.8 | 80 | 24 | - | 47 | 32 | 16 | 48 | M14 x 2.0P | 1 | 4.40 |
| 17156 | BT50 x SLN20 - 80 | 181.8 | 80 | 25 | - | 49 | 37 | 20 | 52 | M16 x 2.0P | 1 | 4.40 |
| 17157 | BT50 x SLN25 - 100 | 201.8 | 100 | 24 | 25 | 58 | 59 | 25 | 65 | M18 x 2.0P | 2 | 5.10 |
| 17158 | BT50 x SLN32 - 105 | 206.8 | 105 | 24 | 28 | 63 | 64 | 32 | 72 | M20 x 2.0P | 2 | 5.20 |
| 17160 | BT50 x SLN40 - 115 | 216.8 | 115 | 30 | 32 | 75 | 74 | 40 | 90 | M20 x 2.0P | 2 | 6.70 |
| 17164 | BT50 x SLN40 - 120 | 221.8 | 120 | 30 | 32 | 75 | 79 | 40 | 90 | M20 x 2.0P | 2 | 6.70 |
| 17162 | BT50 x SLN42 - 120 | 221.8 | 120 | 30 | 32 | 75 | 79 | 42 | 90 | M20 x 2.0P | 2 | 6.70 |
| 17166 | BT50 x SLN50 - 120 | 221.8 | 120 | 35 | 35 | 78 | 82 | 50 | 98 | M24 x 2.0P | 2 | 7.16 |
| 17167 | BT50 x SLN50.8 - 120 | 221.8 | 120 | 33.1 | 28.58 | 80 | 82 | 50.8 | 99 | M20 x 2.0P | 2 | 6.80 |

Features:

- ▶ Internal hole tolerance: H5 (DIN-1835-B standard).
- ▶ The tolerance requirement of tool shank diameter is h6.

Product information:

- ▶ The pre-balance reaches G6.3 8,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

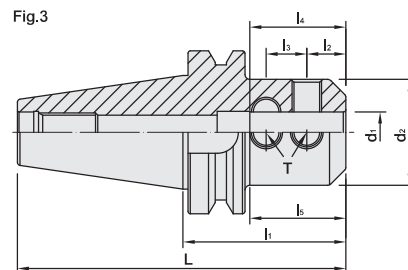
| Pull Stud | Lock Screw |
|---|---|
|  |  |
| P.W-60~61 | P.W-90 |

BT / SLN SIDE LOCK END MILL HOLDER

BT

BT / SLN 側固式立銑刀柄

(DIN 1835)





| MODEL NO. | TYPE | L | l ₁ | l ₂ | l ₃ | l ₄ | l ₅ | d ₁ | d ₂ | T | Fig | WEIGHT (KGS) |
|-----------|----------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------|-----|--------------|
| 17170 | BT50 x SLN50,8 - 120 | 221.8 | 120 | 33.1 | 28.58 | 75 | 81 | 50.8 | 95 | M20 x 2.0P | 3 | 7.20 |
| 17168 | BT50 x SLN63 - 120 | 221.8 | 120 | 33.1 | 28.58 | 80 | 82 | 63 | 125 | M16 x 2.0P | 3 | 6.60 |

Features:

- ▶ Internal hole tolerance: H5 (DIN-1835-B standard).
- ▶ The tolerance requirement of tool shank diameter is h6.

Product information:

- ▶ The pre-balance reaches G6.3 8,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

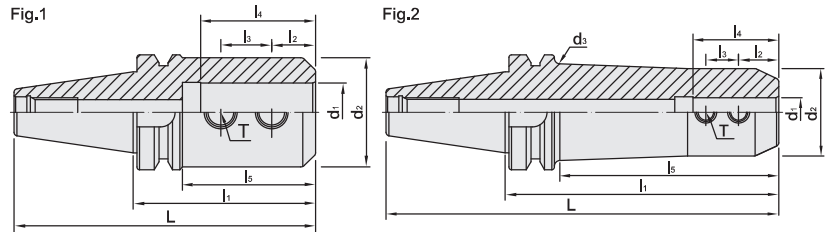
| Pull Stud | Lock Screw |
|---|---|
|  |  |
| P.W-60~61 | P.W-90 |



BT / SLN SIDE LOCK END MILL HOLDER

JIS TYPE

BT / SLN 側固式立銑刀柄 [JIS 型]





| MODEL NO. | TYPE | L | l ₁ | l ₂ | l ₃ | l ₄ | l ₅ | d ₁ | d ₂ | d ₃ | T | Fig | WEIGHT (KGS) |
|-----------------|-----------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|-----|--------------|
| 17131 - 75 - J | BT40 x SLN6 - 75JIS | 140.4 | 75 | 12 | 10 | 35 | 45 | 6 | 25 | - | M6 x 1.0P | 1 | 1.20 |
| 17131 - 150 - J | BT40 x SLN6 - 150JIS | 215.4 | 150 | 12 | 10 | 35 | 113 | 6 | 25 | 30 | M6 x 1.0P | 2 | 1.50 |
| 17132 - 75 - J | BT40 x SLN8 - 75JIS | 140.4 | 75 | 14 | 12 | 35 | 45 | 8 | 28 | - | M8 x 1.25P | 1 | 1.20 |
| 17132 - 150 - J | BT40 x SLN8 - 150JIS | 215.4 | 150 | 14 | 12 | 35 | 113 | 8 | 28 | 33 | M8 x 1.25P | 2 | 1.50 |
| 17133 - 75 - J | BT40 x SLN10 - 75JIS | 140.4 | 75 | 15 | 14 | 39 | 45 | 10 | 35 | - | M10 x 1.5P | 1 | 1.40 |
| 17133 - 150 - J | BT40 x SLN10 - 150JIS | 215.4 | 150 | 15 | 14 | 39 | 118 | 10 | 35 | 40 | M10 x 1.5P | 2 | 1.50 |
| 17134 - 75 - J | BT40 x SLN12 - 75JIS | 140.4 | 75 | 20 | 16 | 44 | 45 | 12 | 42 | - | M10 x 1.5P | 1 | 1.50 |
| 17134 - 150 - J | BT40 x SLN12 - 150JIS | 215.4 | 150 | 20 | 16 | 44 | 118 | 12 | 42 | 47 | M10 x 1.5P | 2 | 1.70 |
| 17135 - 75 - J | BT40 x SLN16 - 75JIS | 140.4 | 75 | 22 | 18 | 47 | 45 | 16 | 48 | - | M10 x 1.5P | 1 | 1.60 |
| 17135 - 150 - J | BT40 x SLN16 - 150JIS | 215.4 | 150 | 22 | 18 | 47 | 120 | 16 | 48 | 53 | M10 x 1.5P | 2 | 1.70 |
| 17136 - 90 - J | BT40 x SLN20 - 90JIS | 155.4 | 90 | 25 | 20 | 55 | 60 | 20 | 50 | - | M12 x 1.75P | 1 | 1.75 |
| 17136 - 150 - J | BT40 x SLN20 - 150JIS | 215.4 | 150 | 25 | 20 | 55 | 120 | 20 | 52 | 57 | M12 x 1.75P | 2 | 1.80 |
| 17137 - 90 - J | BT40 x SLN25 - 90JIS | 155.4 | 90 | 24 | 25 | 58 | 60 | 25 | 50 | - | M12 x 1.75P | 1 | 1.70 |
| 17138 - J | BT40 x SLN32 - 100JIS | 165.4 | 100 | 24 | 28 | 63 | 73 | 32 | 60 | - | M16 x 2.0P | 1 | 2.10 |

Features:

- ▶ Internal hole tolerance is H5.
- ▶ The tolerance requirement of tool shank diameter is h6.

Product information:

- ▶ The pre-balance reaches G6.3 8,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

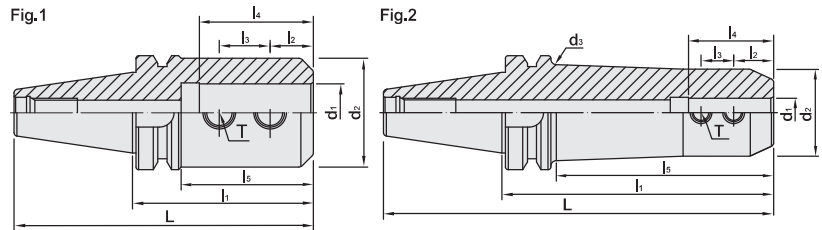
| Pull Stud | Lock Screw |
|---|---|
|  |  |
| P.W-60~61 | P.W-90 |

BT / SLN SIDE LOCK END MILL HOLDER

JIS TYPE

BT

BT / SLN 側固式立銑刀柄 [JIS 型]





| MODEL NO. | TYPE | L | l ₁ | l ₂ | l ₃ | l ₄ | l ₅ | d ₁ | d ₂ | d ₃ | T | Fig | WEIGHT (KGS) |
|-----------------|-----------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|-----|--------------|
| 17151 - 75 - J | BT50 x SLN6 - 75JIS | 176.8 | 75 | 12 | 10 | 35 | 27 | 6 | 25 | - | M6 x 1.0P | 1 | 3.90 |
| 17152 - 75 - J | BT50 x SLN8 - 75JIS | 176.8 | 75 | 14 | 12 | 35 | 27 | 8 | 28 | - | M8 x 1.25P | 1 | 3.90 |
| 17153 - 75 - J | BT50 x SLN10 - 75JIS | 176.8 | 75 | 15 | 14 | 39 | 32 | 10 | 35 | - | M10 x 1.5P | 1 | 3.90 |
| 17154 - 90 - J | BT50 x SLN12 - 90JIS | 191.8 | 90 | 20 | 16 | 44 | 42 | 12 | 42 | - | M10 x 1.5P | 1 | 3.90 |
| 17154 - 165 - J | BT50 x SLN12 - 165JIS | 266.8 | 165 | 20 | 16 | 44 | 124 | 12 | 42 | 47 | M10 x 1.5P | 2 | 5.00 |
| 17155 - 90 - J | BT50 x SLN16 - 90JIS | 191.8 | 90 | 22 | 18 | 47 | 42 | 16 | 48 | - | M10 x 1.5P | 1 | 3.90 |
| 17155 - 150 - J | BT50 x SLN16 - 150JIS | 251.8 | 150 | 22 | 18 | 47 | 102 | 16 | 48 | 53 | M10 x 1.5P | 2 | 4.98 |
| 17155 - 165 - J | BT50 x SLN16 - 165JIS | 266.8 | 165 | 22 | 18 | 47 | 117 | 16 | 48 | 53 | M10 x 1.5P | 2 | 5.00 |
| 17156 - 90 - J | BT50 x SLN20 - 90JIS | 191.8 | 90 | 25 | 20 | 55 | 49 | 20 | 50 | - | M12 x 1.75P | 1 | 4.50 |
| 17156 - 150 - J | BT50 x SLN20 - 150JIS | 251.8 | 150 | 25 | 20 | 55 | 102 | 20 | 50 | 57 | M12 x 1.75P | 2 | 5.98 |
| 17156 - 165 - J | BT50 x SLN20 - 165JIS | 266.8 | 165 | 25 | 20 | 55 | 117 | 20 | 50 | 57 | M12 x 1.75P | 2 | 6.00 |
| 17156 - 210 - J | BT50 x SLN20 - 210JIS | 311.8 | 210 | 25 | 20 | 55 | 162 | 20 | 50 | 57 | M12 x 1.75P | 2 | 7.00 |
| 17157 - J | BT50 x SLN25 - 100JIS | 201.8 | 100 | 24 | 25 | 58 | 59 | 25 | 50 | - | M12 x 1.75P | 1 | 4.58 |
| 17157 - 150 - J | BT50 x SLN25 - 150JIS | 251.8 | 150 | 24 | 25 | 58 | 102 | 25 | 50 | 57 | M12 x 1.75P | 2 | 5.48 |
| 17157 - 165 - J | BT50 x SLN25 - 165JIS | 266.8 | 165 | 24 | 25 | 58 | 117 | 25 | 50 | 57 | M12 x 1.75P | 2 | 5.50 |
| 17157 - 210 - J | BT50 x SLN25 - 210JIS | 311.8 | 210 | 24 | 25 | 58 | 169 | 25 | 50 | 57 | M12 x 1.75P | 2 | 6.00 |
| 17157 - 250 - J | BT50 x SLN25 - 250JIS | 351.8 | 250 | 24 | 25 | 58 | 202 | 25 | 50 | 60 | M12 x 1.75P | 2 | 7.00 |
| 17158 - 105 - J | BT50 x SLN32 - 105JIS | 206.8 | 105 | 24 | 28 | 63 | 64 | 32 | 60 | - | M16 x 2.0P | 1 | 4.89 |
| 17158 - 150 - J | BT50 x SLN32 - 150JIS | 251.8 | 150 | 24 | 28 | 63 | 102 | 32 | 50 | 60 | M16 x 2.0P | 2 | 7.48 |
| 17158 - 165 - J | BT50 x SLN32 - 165JIS | 266.8 | 165 | 24 | 28 | 63 | 117 | 32 | 60 | 65 | M16 x 2.0P | 2 | 6.22 |
| 17158 - 210 - J | BT50 x SLN32 - 210JIS | 311.8 | 210 | 24 | 28 | 63 | 162 | 32 | 50 | 60 | M16 x 2.0P | 2 | 6.34 |
| 17158 - 250 - J | BT50 x SLN32 - 250JIS | 351.8 | 250 | 24 | 28 | 63 | 207 | 32 | 50 | 60 | M16 x 2.0P | 2 | 7.50 |
| 17158 - 300 - J | BT50 x SLN32 - 300JIS | 401.8 | 300 | 24 | 28 | 63 | 257 | 32 | 60 | 65 | M16 x 2.0P | 2 | 8.00 |

Features:

- ▶ Internal hole tolerance is H5.
- ▶ The tolerance requirement of tool shank diameter is h6.

Product information:

- ▶ The pre-balance reaches G6.3 8,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

| Pull Stud | Lock Screw |
|---|---|
|  |  |
| P.W-60~61 | P.W-90 |



BT / SLN SIDE LOCK END MILL HOLDER

FID TYPE

BT / SLN 側固式立銑刀柄 [FID 型]



Fig.1

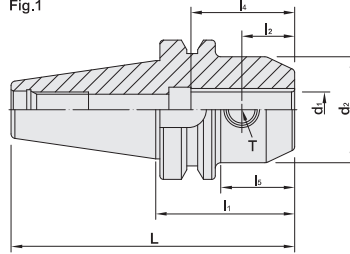
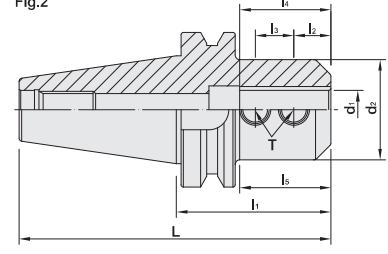


Fig.2





| MODEL NO. | TYPE | L | l ₁ | l ₂ | l ₃ | l ₄ | l ₅ | d ₁ | d ₂ | T | Fig | WEIGHT (KGS) |
|--------------|----------------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|-----|--------------|
| 17131B | BT40 x SLN6 - 50 - FID | 115.4 | 50 | 18 | - | 35 | 20 | 6 | 25 | M6 x 1.0P | 1 | 1.10 |
| 17131B - 150 | BT40 x SLN6 - 150 - FID | 215.4 | 150 | 18 | - | 35 | 113 | 6 | 25 | M6 x 1.0P | 1 | 1.32 |
| 17132B | BT40 x SLN8 - 50 - FID | 115.4 | 50 | 18 | - | 35 | 20 | 8 | 28 | M8 x 1.25P | 1 | 1.10 |
| 17132B - 150 | BT40 x SLN8 - 150 - FID | 215.4 | 150 | 18 | - | 35 | 113 | 8 | 28 | M8 x 1.25P | 1 | 1.30 |
| 17133B | BT40 x SLN10 - 63 - FID | 128.4 | 63 | 20 | - | 39 | 33 | 10 | 35 | M10 x 1.5P | 1 | 1.25 |
| 17133B - 150 | BT40 x SLN10 - 150 - FID | 215.4 | 150 | 20 | - | 39 | 113 | 10 | 35 | M10 x 1.5P | 1 | 1.40 |
| 17134B | BT40 x SLN12 - 63 - FID | 128.4 | 63 | 22.5 | - | 44 | 33 | 12 | 42 | M12 x 1.75P | 1 | 1.30 |
| 17134B - 150 | BT40 x SLN12 - 150 - FID | 215.4 | 150 | 22.5 | - | 44 | 116 | 12 | 42 | M12 x 1.75P | 1 | 1.53 |
| 17135B | BT40 x SLN16 - 63 - FID | 128.4 | 63 | 24 | - | 47 | 33 | 16 | 48 | M14 x 2.0P | 1 | 1.40 |
| 17135B - 150 | BT40 x SLN16 - 150 - FID | 215.4 | 150 | 24 | - | 47 | 120 | 16 | 48 | M14 x 2.0P | 1 | 1.60 |
| 17135B - 18 | BT40 x SLN18 - 63 - FID | 128.4 | 63 | 24 | - | 44 | 33 | 18 | 50 | M14 x 2.0P | 1 | 1.65 |
| 17136B | BT40 x SLN20 - 63 - FID | 128.4 | 63 | 25 | - | 49 | 33 | 20 | 52 | M16 x 2.0P | 1 | 1.40 |
| 17137B | BT40 x SLN25 - 100 - FID | 165.4 | 100 | 24 | 25 | 58 | 73 | 25 | 65 | M18 x 2.0P | 2 | 2.50 |
| 17138B | BT40 x SLN32 - 100 - FID | 165.4 | 100 | 24 | 28 | 63 | 73 | 32 | 72 | M20 x 2.0P | 2 | 2.75 |
| 17151B | BT50 x SLN6 - 63 - FID | 164.8 | 63 | 18 | - | 35 | 20 | 6 | 25 | M6 x 1.0P | 1 | 3.80 |
| 17152B | BT50 x SLN8 - 63 - FID | 164.8 | 63 | 18 | - | 39 | 20 | 8 | 28 | M8 x 1.25P | 1 | 3.80 |
| 17153B | BT50 x SLN10 - 63 - FID | 164.8 | 63 | 20 | - | 39 | 22 | 10 | 35 | M10 x 1.5P | 1 | 3.00 |
| 17154B | BT50 x SLN12 - 80 - FID | 181.8 | 80 | 22.5 | - | 44 | 39 | 12 | 42 | M12 x 1.75P | 1 | 4.00 |
| 17155B | BT50 x SLN16 - 80 - FID | 181.8 | 80 | 24 | - | 47 | 32 | 16 | 48 | M14 x 2.0P | 1 | 4.40 |
| 17156B | BT50 x SLN20 - 80 - FID | 181.8 | 80 | 25 | - | 49 | 37 | 20 | 52 | M16 x 2.0P | 1 | 4.40 |
| 17157B | BT50 x SLN25 - 100 - FID | 201.8 | 100 | 24 | 25 | 58 | 59 | 25 | 65 | M18 x 2.0P | 2 | 5.10 |
| 17158B | BT50 x SLN32 - 105 - FID | 206.8 | 105 | 24 | 28 | 63 | 64 | 32 | 72 | M20 x 2.0P | 2 | 5.20 |
| 17160B | BT50 x SLN40 - 115 - FID | 216.8 | 115 | 30 | 32 | 75 | 74 | 40 | 90 | M20 x 2.0P | 2 | 6.70 |
| 17164B | BT50 x SLN40 - 120 - FID | 221.8 | 120 | 30 | 32 | 75 | 79 | 40 | 90 | M20 x 2.0P | 2 | 6.70 |
| 17162B | BT50 x SLN42 - 120 - FID | 221.8 | 120 | 30 | 32 | 75 | 79 | 42 | 90 | M20 x 2.0P | 2 | 6.70 |
| 17166B | BT50 x SLN50 - 120 - FID | 221.8 | 120 | 35 | 35 | 78 | 82 | 50 | 98 | M24 x 2.0P | 2 | 7.16 |
| 17167B | BT50 x SLN50.8 - 120 - FID | 221.8 | 120 | 33.1 | 28.58 | 80 | 82 | 50.8 | 99 | M20 x 2.0P | 2 | 6.80 |

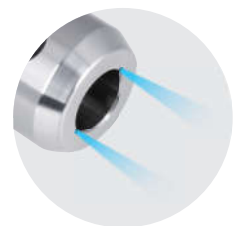
Features:

- ▶ Internal hole tolerance is H5.
- ▶ The tolerance requirement of tool shank diameter is h6.

Product information:

- ▶ The pre-balance reaches G6.3 8,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

| Pull Stud | Lock Screw |
|---|---|
|  |  |
| P.W-60~61 | P.W-90 |

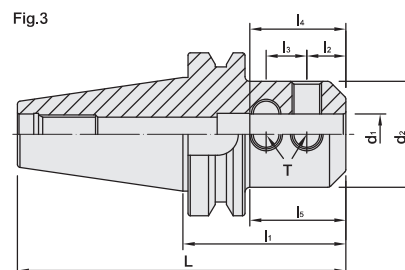


BT / SLN SIDE LOCK END MILL HOLDER

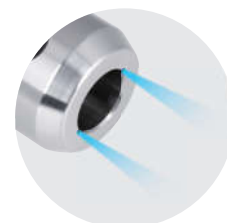
FID TYPE

BT

BT / SLN 側固式立銑刀柄 [FID 型]



| MODEL NO. | TYPE | L | l ₁ | l ₂ | l ₃ | l ₄ | l ₅ | d ₁ | d ₂ | T | Fig | WEIGHT (KGS) |
|-----------|----------------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------|-----|--------------|
| 17170B | BT50 x SLN50.8 - 120 - FID | 221.8 | 120 | 33.1 | 28.58 | 75 | 81 | 50.8 | 95 | M20 x 2.0P | 3 | 7.20 |
| 17168B | BT50 x SLN63 - 120 - FID | 221.8 | 120 | 33.1 | 28.58 | 80 | 82 | 63 | 125 | M16 x 2.0P | 3 | 6.60 |





Features:

- ▶ Internal hole tolerance: H5 (DIN-1835-B standard).
- ▶ The tolerance requirement of tool shank diameter is h6.

Product information:

- ▶ The pre-balance reaches G6.3 8,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

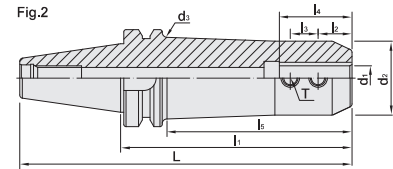
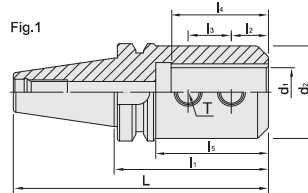
| Pull Stud | Lock Screw |
|---|---|
|  |  |
| P.W-60~61 | P.W-90 |



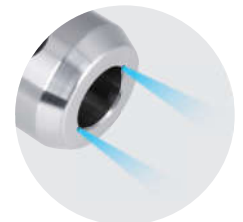
BT / SLN SIDE LOCK END MILL HOLDER

JIS-FID TYPE

BT / SLN 側固式立銑刀柄 [JIS-FID 型]



| MODEL NO. | TYPE | L | l ₁ | l ₂ | l ₃ | l ₄ | l ₅ | d ₁ | d ₂ | T | Fig | WEIGHT (KGS) |
|------------------|-----------------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|-----|--------------|
| 17131B - J | BT40 x SLN6 - 50JIS - FID | 115.4 | 50 | 18 | - | 35 | 20 | 6 | 25 | M6 x 1.0P | 1 | 1.10 |
| 17131B - 150 - J | BT40 x SLN6 - 150JIS - FID | 215.4 | 150 | 18 | - | 35 | 113 | 6 | 25 | M6 x 1.0P | 1 | 1.32 |
| 17132B - J | BT40 x SLN8 - 50JIS - FID | 115.4 | 50 | 18 | - | 35 | 20 | 8 | 28 | M8 x 1.25P | 1 | 1.10 |
| 17132B - 150 - J | BT40 x SLN8 - 150JIS - FID | 215.4 | 150 | 18 | - | 35 | 113 | 8 | 28 | M8 x 1.25P | 1 | 1.30 |
| 17133B - J | BT40 x SLN10 - 63JIS - FID | 128.4 | 63 | 20 | - | 39 | 33 | 10 | 35 | M10 x 1.5P | 1 | 1.25 |
| 17133B - 150 - J | BT40 x SLN10 - 150JIS - FID | 215.4 | 150 | 20 | - | 39 | 113 | 10 | 35 | M10 x 1.5P | 1 | 1.40 |
| 17134B - J | BT40 x SLN12 - 63JIS - FID | 128.4 | 63 | 22.5 | - | 44 | 33 | 12 | 42 | M12 x 1.75P | 1 | 1.30 |
| 17134B - 150 - J | BT40 x SLN12 - 150JIS - FID | 215.4 | 150 | 22.5 | - | 44 | 116 | 12 | 42 | M12 x 1.75P | 1 | 1.53 |
| 17135B - J | BT40 x SLN16 - 63JIS - FID | 128.4 | 63 | 24 | - | 47 | 33 | 16 | 48 | M14 x 2.0P | 1 | 1.40 |
| 17135B - 150 - J | BT40 x SLN16 - 150JIS - FID | 215.4 | 150 | 24 | - | 47 | 120 | 16 | 48 | M14 x 2.0P | 1 | 1.60 |
| 17135B - 18 - J | BT40 x SLN18 - 63JIS - FID | 128.4 | 63 | 24 | - | 44 | 33 | 18 | 50 | M14 x 2.0P | 1 | 1.65 |
| 17136B - J | BT40 x SLN20 - 63JIS - FID | 128.4 | 63 | 25 | - | 49 | 33 | 20 | 52 | M16 x 2.0P | 1 | 1.40 |
| 17137B - J | BT40 x SLN25 - 100JIS - FID | 165.4 | 100 | 24 | 25 | 58 | 73 | 25 | 65 | M18 x 2.0P | 2 | 2.50 |
| 17138B - J | BT40 x SLN32 - 100JIS - FID | 165.4 | 100 | 24 | 28 | 63 | 73 | 32 | 72 | M20 x 2.0P | 2 | 2.75 |



Features:

- ▶ Internal hole tolerance is H5.
- ▶ The tolerance requirement of tool shank diameter is h6.

Product information:

- ▶ The pre-balance reaches G6.3 8,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

Pull Stud

Lock Screw



P.W-60~61

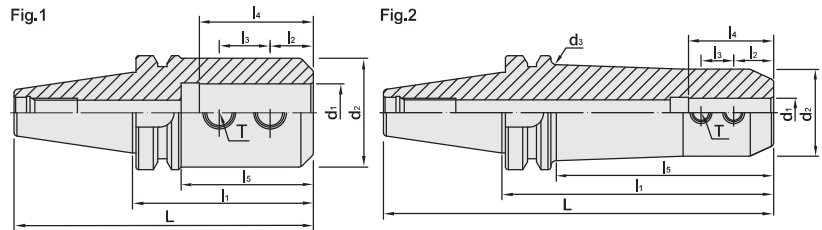
P.W-90

BT / SLN SIDE LOCK END MILL HOLDER

JIS-FID TYPE

BT

BT / SLN 側固式立銑刀柄 [JIS-FID 型]





| MODEL NO. | TYPE | L | l ₁ | l ₂ | l ₃ | l ₄ | l ₅ | d ₁ | d ₂ | d ₃ | T | Fig | WEIGHT (KGS) |
|------------------|-----------------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|-----|--------------|
| 17151B - 75 - J | BT50 x SLN6 - 75JIS - FID | 176.8 | 75 | 12 | 10 | 35 | 27 | 6 | 25 | - | M6 x 1.0P | 1 | 3.90 |
| 17152B - 75 - J | BT50 x SLN8 - 75JIS - FID | 176.8 | 75 | 14 | 12 | 35 | 27 | 8 | 28 | - | M8 x 1.25P | 1 | 3.90 |
| 17153B - 75 - J | BT50 x SLN10 - 75JIS - FID | 176.8 | 75 | 15 | 14 | 39 | 32 | 10 | 35 | - | M10 x 1.5P | 1 | 3.90 |
| 17154B - 90 - J | BT50 x SLN12 - 90JIS - FID | 191.8 | 90 | 20 | 16 | 44 | 42 | 12 | 42 | - | M10 x 1.5P | 1 | 3.90 |
| 17154B - 165 - J | BT50 x SLN12 - 165JIS - FID | 266.8 | 165 | 20 | 16 | 44 | 124 | 12 | 42 | 47 | M10 x 1.5P | 2 | 5.00 |
| 17155B - 90 - J | BT50 x SLN16 - 90JIS - FID | 191.8 | 90 | 22 | 18 | 47 | 42 | 16 | 48 | - | M10 x 1.5P | 1 | 3.90 |
| 17155B - 165 - J | BT50 x SLN16 - 165JIS - FID | 266.8 | 165 | 22 | 18 | 47 | 117 | 16 | 48 | 53 | M10 x 1.5P | 2 | 5.00 |
| 17156B - 90 - J | BT50 x SLN20 - 90JIS - FID | 191.8 | 90 | 25 | 20 | 55 | 49 | 20 | 50 | - | M12 x 1.75P | 1 | 4.50 |
| 17156B - 165 - J | BT50 x SLN20 - 165JIS - FID | 266.8 | 165 | 25 | 20 | 55 | 117 | 20 | 50 | 57 | M12 x 1.75P | 2 | 6.00 |
| 17156B - 210 - J | BT50 x SLN20 - 210JIS - FID | 311.8 | 210 | 25 | 20 | 55 | 162 | 20 | 50 | 57 | M12 x 1.75P | 2 | 7.00 |
| 17157B - J | BT50 x SLN25 - 100JIS - FID | 201.8 | 100 | 24 | 25 | 58 | 59 | 25 | 50 | - | M12 x 1.75P | 1 | 4.58 |
| 17157B - 165 - J | BT50 x SLN25 - 165JIS - FID | 266.8 | 165 | 24 | 25 | 58 | 117 | 25 | 50 | 57 | M12 x 1.75P | 2 | 5.50 |
| 17157B - 210 - J | BT50 x SLN25 - 210JIS - FID | 311.8 | 210 | 24 | 25 | 58 | 169 | 25 | 50 | 57 | M12 x 1.75P | 2 | 6.00 |
| 17157B - 250 - J | BT50 x SLN25 - 250JIS - FID | 351.8 | 250 | 24 | 25 | 58 | 202 | 25 | 50 | 60 | M12 x 1.75P | 2 | 7.00 |
| 17158B - 105 - J | BT50 x SLN32 - 105JIS - FID | 206.8 | 105 | 24 | 28 | 63 | 64 | 32 | 60 | - | M16 x 2.0P | 1 | 4.89 |
| 17158B - 165 - J | BT50 x SLN32 - 165JIS - FID | 266.8 | 165 | 24 | 28 | 63 | 117 | 32 | 60 | 65 | M16 x 2.0P | 2 | 6.22 |
| 17158B - 210 - J | BT50 x SLN32 - 210JIS - FID | 311.8 | 210 | 24 | 28 | 63 | 162 | 32 | 50 | 60 | M16 x 2.0P | 2 | 6.34 |
| 17158B - 250 - J | BT50 x SLN32 - 250JIS - FID | 351.8 | 250 | 24 | 28 | 63 | 207 | 32 | 50 | 60 | M16 x 2.0P | 2 | 7.50 |
| 17158B - 300 - J | BT50 x SLN32 - 300JIS - FID | 401.8 | 300 | 24 | 28 | 63 | 257 | 32 | 60 | 65 | M16 x 2.0P | 2 | 8.00 |

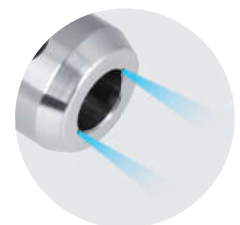
Features:

- ▶ Internal hole tolerance is H5.
- ▶ The tolerance requirement of tool shank diameter is h6.

Product information:

- ▶ The pre-balance reaches G6.3 8,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

| Pull Stud | Lock Screw |
|---|---|
|  |  |
| P.W-60~61 | P.W-90 |



BT FACE MILL ARBOR

FMA TYPE

BT / FMA 平面銑刀柄



Fig.1

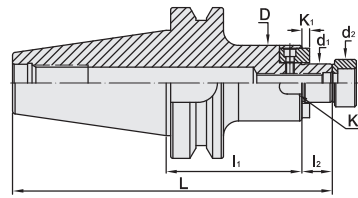
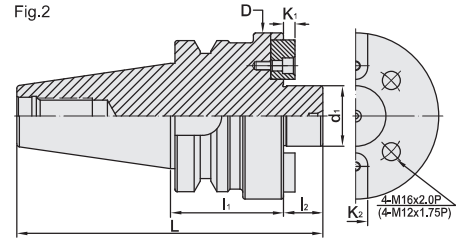


Fig.2



INCHES



| MODEL NO. | TYPE | L | l ₁ | l ₂ | D | d ₁ | d ₂ | K ₁ | K ₂ | Fig | WEIGHT (KGS) |
|-------------|-----------------------|-------|----------------|----------------|--------|----------------|----------------|----------------|----------------|-----|--------------|
| 16612 | BT30 x FMA25.4 - 45 | 113.4 | 45 | 20 | 50 | 25.4 | 31.5 | 4.52 | 9.52 | 1 | 1.00 |
| 16613 | BT30 x FMA25.4 - 60 | 128.4 | 60 | 20 | 50 | 25.4 | 31.5 | 4.52 | 9.52 | 1 | 1.30 |
| 16614 | BT30 x FMA31.75 - 45 | 115.4 | 45 | 22 | 60 | 31.75 | 41 | 6.7 | 12.7 | 1 | 1.20 |
| 16614 - 50 | BT30 x FMA31.75 - 50 | 120.4 | 50 | 22 | 60 | 31.75 | 41 | 6.7 | 12.7 | 1 | 1.21 |
| 16615 | BT40 x FMA25.4 - 45 | 130.4 | 45 | 20 | 50 | 25.4 | 31.5 | 4.52 | 9.52 | 1 | 1.80 |
| 16616 | BT40 x FMA25.4 - 60 | 145.4 | 60 | 20 | 50 | 25.4 | 31.5 | 4.52 | 9.52 | 1 | 1.45 |
| 16617 | BT40 x FMA25.4 - 90 | 175.4 | 90 | 20 | 50 | 25.4 | 31.5 | 4.52 | 9.52 | 1 | 2.10 |
| 16618 | BT40 x FMA25.4 - 105 | 190.4 | 105 | 20 | 50 | 25.4 | 31.5 | 4.52 | 9.52 | 1 | 2.70 |
| 16618 - 150 | BT40 x FMA25.4 - 150 | 235.4 | 150 | 20 | 50 | 25.4 | 31.5 | 4.52 | 9.52 | 1 | 3.00 |
| 16619 | BT40 x FMA31.75 - 45 | 132.4 | 45 | 22 | 60 | 31.75 | 41 | 6.7 | 12.7 | 1 | 1.70 |
| 16620 | BT40 x FMA31.75 - 75 | 162.4 | 75 | 22 | 60 | 31.75 | 41 | 6.7 | 12.7 | 1 | 2.70 |
| 16621 | BT40 x FMA31.75 - 90 | 177.4 | 90 | 22 | 60 | 31.75 | 41 | 6.7 | 12.7 | 1 | 2.65 |
| 16626 | BT40 x FMA38.1 - 60 | 150.4 | 60 | 25 | 75 | 38.1 | 44.5 | 8.87 | 15.87 | 1 | 2.25 |
| 16626 - 75 | BT40 x FMA38.1 - 75 | 165.4 | 75 | 25 | 75 | 38.1 | 44.5 | 8.87 | 15.87 | 1 | 2.55 |
| 16626 - 105 | BT40 x FMA38.1 - 105 | 195.4 | 105 | 25 | 75 | 38.1 | 44.5 | 8.87 | 15.87 | 1 | 3.20 |
| 16626 - 150 | BT40 x FMA38.1 - 150 | 240.4 | 150 | 25 | 75 | 38.1 | 44.5 | 8.87 | 15.87 | 1 | 2.85 |
| 16627 | BT40 x FMA50.8 - 60 | 161.4 | 60 | 36 | 98 | 50.8 | 65 | 9.75 | 19.05 | 1 | 2.25 |
| 16639 | BT50 x FMA25.4 - 45 | 166.8 | 45 | 20 | 50 | 25.4 | 31.5 | 4.52 | 9.52 | 1 | 4.40 |
| 16640 | BT50 x FMA25.4 - 90 | 211.8 | 90 | 20 | 50 | 25.4 | 31.5 | 4.52 | 9.52 | 1 | 5.10 |
| 16641 | BT50 x FMA25.4 - 150 | 271.8 | 150 | 20 | 50 | 25.4 | 31.5 | 4.52 | 9.52 | 1 | 6.10 |
| 16642 | BT50 x FMA31.75 - 45 | 168.8 | 45 | 22 | 60 | 31.75 | 41 | 6.2 | 12.7 | 1 | 4.50 |
| 16643 | BT50 x FMA31.75 - 75 | 198.8 | 75 | 22 | 60 | 31.75 | 41 | 6.7 | 12.7 | 1 | 5.70 |
| 16644 | BT50 x FMA31.75 - 105 | 228.8 | 105 | 22 | 60 | 31.75 | 41 | 6.7 | 12.7 | 1 | 5.70 |
| 16645 | BT50 x FMA38.1 - 45 | 171.8 | 45 | 25 | 80 | 38.1 | 44.5 | 8.87 | 15.87 | 1 | 5.20 |
| 16646 | BT50 x FMA38.1 - 75 | 201.8 | 75 | 25 | 80 | 38.1 | 44.5 | 8.87 | 15.87 | 1 | 6.00 |
| 16647 | BT50 x FMA50.8 - 45 | 182.8 | 45 | 36 | 98 | 50.8 | 65 | 9.75 | 19.05 | 1 | 5.70 |
| 16648 | BT50 x FMA50.8 - 75 | 212.8 | 75 | 36 | 98 | 50.8 | 65 | 9.75 | 19.05 | 1 | 6.80 |
| 16649 | BT50 x FMA47.62 - 75 | 208.8 | 75 | 32 | 128.75 | 47.62 | - | 12.5 | 25.4 | 2 | 7.90 |

Features:

- ▶ d₁ tolerance: h6.
- ▶ Coolant through tool holder; screw with coolant flute needs to be purchased additionally.

Product information:

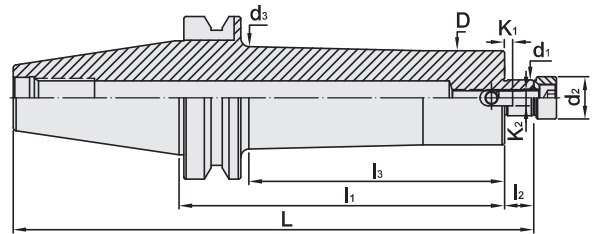
- ▶ The pre-balance reaches G6.3 3,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.
- ▶ MAS/BT30 tool holders are without coolant supply over collars.

| Pull Stud | Screw |
|---|---|
|  |  |
| P.W-60~61 | P.W-90 |

BT FACE MILL ARBOR

EXTENSION TYPE

平面銑刀柄 [加長斜度柄]



INCHES



| MODEL NO. | TYPE | L | l ₁ | l ₂ | l ₃ | D | d ₁ | d ₂ | d ₃ | K ₁ | K ₂ | WEIGHT (KGS) |
|---------------|-------------------------|-------|----------------|----------------|----------------|----|----------------|----------------|----------------|----------------|----------------|--------------|
| 16641 - 125BG | BT50 x FMA25.4 - 125BG | 246.8 | 125 | 20 | 79 | 48 | 25.4 | 31.5 | 60 | 4.25 | 9.52 | 5.30 |
| 16641 - 150BG | BT50 x FMA25.4 - 150BG | 271.8 | 150 | 20 | 102 | 48 | 25.4 | 31.5 | 60 | 4.25 | 9.52 | 6.40 |
| 16641 - 200BG | BT50 x FMA25.4 - 200BG | 321.8 | 200 | 20 | 152 | 58 | 25.4 | 31.5 | 63 | 4.25 | 9.52 | 7.50 |
| 16641 - 250BG | BT50 x FMA25.4 - 250BG | 371.8 | 250 | 20 | 202 | 58 | 25.4 | 31.5 | 63 | 4.25 | 9.52 | 8.60 |
| 16641 - 300BG | BT50 x FMA25.4 - 300BG | 421.8 | 300 | 20 | 252 | 58 | 25.4 | 31.5 | 63 | 4.25 | 9.52 | 9.70 |
| 16641 - 350BG | BT50 x FMA25.4 - 350BG | 471.8 | 350 | 20 | 302 | 58 | 25.4 | 31.5 | 66 | 4.25 | 9.52 | 10.8 |
| 16641 - 400BG | BT50 x FMA25.4 - 400BG | 521.8 | 400 | 20 | 352 | 58 | 25.4 | 31.5 | 66 | 4.25 | 9.52 | 11.9 |
| 16644 - 125BG | BT50 x FMA31.75 - 125BG | 248.8 | 125 | 22 | 82 | 70 | 31.75 | 41 | 75 | 6.7 | 12.7 | 5.60 |
| 16644 - 150BG | BT50 x FMA31.75 - 150BG | 273.8 | 150 | 22 | 107 | 70 | 31.75 | 41 | 75 | 6.7 | 12.7 | 6.30 |
| 16644 - 175BG | BT50 x FMA31.75 - 175BG | 298.8 | 175 | 22 | 132 | 70 | 31.75 | 41 | 75 | 6.7 | 12.7 | 8.30 |
| 16644 - 200BG | BT50 x FMA31.75 - 200BG | 323.8 | 200 | 22 | 157 | 70 | 31.75 | 41 | 75 | 6.7 | 12.7 | 9.10 |
| 16644 - 250BG | BT50 x FMA31.75 - 250BG | 373.8 | 250 | 22 | 207 | 70 | 31.75 | 41 | 75 | 6.7 | 12.7 | 10.6 |
| 16644 - 300BG | BT50 x FMA31.75 - 300BG | 423.8 | 300 | 22 | 252 | 70 | 31.75 | 41 | 75 | 6.7 | 12.7 | 12.1 |
| 16644 - 350BG | BT50 x FMA31.75 - 350BG | 473.8 | 350 | 22 | 302 | 70 | 31.75 | 41 | 75 | 6.7 | 12.7 | 13.6 |

Features:

- ▶ d₁ tolerance: h6.
- ▶ Coolant through tool holders with special design of enlarged neck for the prolonged length type, rigidity and anti-vibration are improved.

Product information:

- ▶ The pre-balance reaches G6.3 3,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

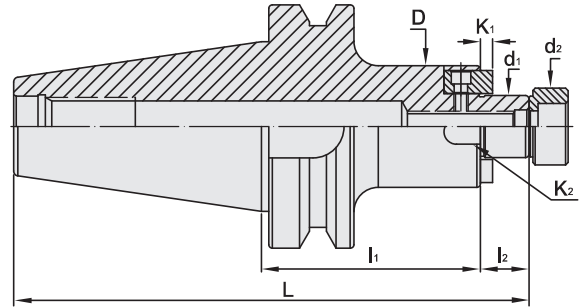
| Pull Stud | Screw |
|---|---|
|  |  |
| P.W-60~61 | P.W-90 |



BT FACE MILL ARBOR

FMB TYPE

BT / FMB 平面銑刀柄



METRIC



| MODEL NO. | TYPE | L | l ₁ | l ₂ | D | d ₁ | d ₂ | K ₁ | K ₂ | WEIGHT (KGS) |
|-------------|--------------------|-------|----------------|----------------|----|----------------|----------------|----------------|----------------|--------------|
| 16651 | BT30 x FMB22 - 45 | 112.4 | 45 | 19 | 48 | 22 | 26 | 4.8 | 10 | 0.82 |
| 16652 | BT30 x FMB22 - 60 | 127.4 | 60 | 19 | 48 | 22 | 26 | 4.8 | 10 | 1.02 |
| 16654 | BT30 x FMB27 - 45 | 113.4 | 45 | 20 | 60 | 27 | 31.5 | 5.8 | 12 | 1.06 |
| 16655 | BT30 x FMB27 - 60 | 128.4 | 60 | 20 | 60 | 27 | 31.5 | 5.8 | 12 | 1.34 |
| 16656 | BT30 x FMB32 - 45 | 115.4 | 45 | 22 | 78 | 32 | 41 | 6.8 | 14 | 1.46 |
| 16657 | BT40 x FMB22 - 45 | 129.4 | 45 | 19 | 48 | 22 | 26 | 4.8 | 10 | 1.34 |
| 16658 | BT40 x FMB22 - 60 | 144.4 | 60 | 19 | 48 | 22 | 26 | 4.8 | 10 | 1.54 |
| 16659 | BT40 x FMB22 - 100 | 184.4 | 100 | 19 | 48 | 22 | 26 | 4.8 | 10 | 2.08 |
| 16660 | BT40 x FMB27 - 45 | 130.4 | 45 | 20 | 60 | 27 | 31.5 | 5.8 | 12 | 1.56 |
| 16663 | BT40 x FMB27 - 60 | 145.4 | 60 | 20 | 60 | 27 | 31.5 | 5.8 | 12 | 1.88 |
| 16664 | BT40 x FMB27 - 90 | 175.4 | 90 | 20 | 60 | 27 | 31.5 | 5.8 | 12 | 2.30 |
| 16665 | BT40 x FMB27 - 105 | 190.4 | 105 | 20 | 60 | 27 | 31.5 | 5.8 | 12 | 2.08 |
| 16666 | BT40 x FMB32 - 45 | 132.4 | 45 | 22 | 78 | 32 | 41 | 6.8 | 14 | 1.96 |
| 16667 | BT40 x FMB32 - 60 | 147.4 | 60 | 22 | 78 | 32 | 41 | 6.8 | 14 | 2.34 |
| 16668 | BT40 x FMB40 - 60 | 150.4 | 60 | 25 | 80 | 40 | 48 | 8.3 | 16 | 2.70 |
| 16668 - 75 | BT40 x FMB40 - 75 | 165.4 | 75 | 25 | 80 | 40 | 48 | 8.3 | 16 | 2.90 |
| 16668 - 105 | BT40 x FMB40 - 105 | 195.4 | 105 | 25 | 80 | 40 | 48 | 8.3 | 16 | 3.32 |

Features:

- ▶ d1 tolerance: h6.
- ▶ Coolant through tool holder; screw with coolant flute needs to be purchased additionally.

Product information:

- ▶ The pre-balance reaches G6.3 3,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.
- ▶ MAS/BT30 tool holders are without coolant supply over collars.

| Pull Stud | Screw |
|---|---|
|  |  |
| P.W-60~61 | P.W-90 |

BT FACE MILL ARBOR

FMB TYPE

BT

BT / FMB 平面銑刀柄



Fig.1

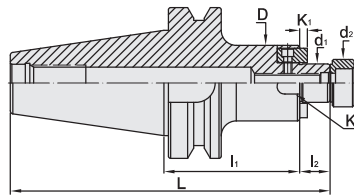
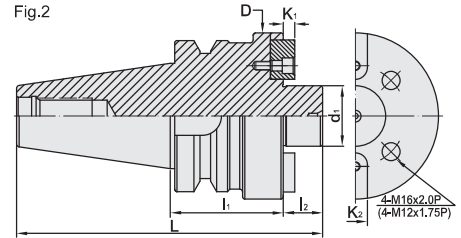


Fig.2



METRIC

| MODEL NO. | TYPE | L | l ₁ | l ₂ | D | d ₁ | d ₂ | K ₁ | K ₂ | Fig | WEIGHT (KGS) |
|-------------|--------------------|-------|----------------|----------------|-----|----------------|----------------|----------------|----------------|-----|--------------|
| 16669 | BT50 x FMB22 - 45 | 165.8 | 45 | 19 | 48 | 22 | 26 | 4.8 | 10 | 1 | 4.10 |
| 16670 | BT50 x FMB22 - 90 | 210.8 | 90 | 19 | 48 | 22 | 26 | 4.8 | 10 | 1 | 4.80 |
| 16671 | BT50 x FMB22 - 150 | 270.8 | 150 | 19 | 48 | 22 | 26 | 4.8 | 10 | 1 | 6.80 |
| 16671 - 200 | BT50 x FMB22 - 200 | 320.8 | 200 | 19 | 48 | 22 | 26 | 4.8 | 10 | 1 | 7.00 |
| 16671 - 250 | BT50 x FMB22 - 250 | 370.8 | 250 | 19 | 48 | 22 | 26 | 4.8 | 10 | 1 | 8.00 |
| 16672 | BT50 x FMB27 - 50 | 171.8 | 50 | 20 | 60 | 27 | 31.5 | 5.8 | 12 | 1 | 4.30 |
| 16673 | BT50 x FMB27 - 90 | 211.8 | 90 | 20 | 60 | 27 | 31.5 | 5.8 | 12 | 1 | 5.40 |
| 16674 | BT50 x FMB27 - 150 | 271.8 | 150 | 20 | 60 | 27 | 31.5 | 5.8 | 12 | 1 | 6.50 |
| 16675 | BT50 x FMB27 - 200 | 321.8 | 200 | 20 | 60 | 27 | 31.5 | 5.8 | 12 | 1 | 9.50 |
| 16675 - 250 | BT50 x FMB27 - 250 | 371.8 | 250 | 20 | 60 | 27 | 31.5 | 5.8 | 12 | 1 | 11.0 |
| 16676 | BT50 x FMB32 - 50 | 173.8 | 50 | 22 | 78 | 32 | 41 | 6.8 | 14 | 1 | 4.60 |
| 16677 | BT50 x FMB32 - 90 | 213.8 | 90 | 22 | 78 | 32 | 41 | 6.8 | 14 | 1 | 5.80 |
| 16678 | BT50 x FMB40 - 50 | 176.8 | 50 | 25 | 89 | 40 | 48 | 8.3 | 16 | 1 | 5.20 |
| 16680 | BT50 x FMB40 - 90 | 216.8 | 90 | 25 | 89 | 40 | 48 | 8.3 | 16 | 1 | 6.00 |
| 16681 | BT50 x FMB40 - 105 | 231.8 | 105 | 25 | 89 | 40 | 48 | 8.3 | 16 | 1 | 7.20 |
| 16682 | BT50 x FMB40 - 150 | 276.8 | 150 | 25 | 89 | 40 | 48 | 8.3 | 16 | 1 | 7.90 |
| 16688 | BT50 x FS40F - 75 | 202.8 | 75 | 26 | 110 | 40 | - | 8.3 | 16 | 2 | 6.00 |
| 16690 | BT50 x FS60F - 75 | 201.8 | 75 | 25 | 138 | 60 | - | 12.5 | 25.4 | 2 | 8.50 |

Features:

- ▶ d1 tolerance: h6.
- ▶ Coolant through tool holder; screw with coolant flute needs to be purchased additionally.

Product information:

- ▶ The pre-balance reaches G6.3 3,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

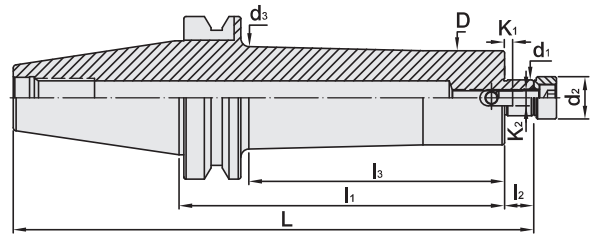
| Pull Stud | Screw |
|---|---|
|  |  |
| P.W-60~61 | P.W-90 |



BT FACE MILL ARBOR

EXTENSION TYPE

平面銑刀柄 [加長斜度柄]



METRIC



| MODEL NO. | TYPE | L | l ₁ | l ₂ | l ₃ | D | d ₁ | d ₂ | d ₃ | K ₁ | K ₂ | WEIGHT (KGS) |
|---------------|----------------------|-------|----------------|----------------|----------------|----|----------------|----------------|----------------|----------------|----------------|--------------|
| 16657 - 150BG | BT40 x FMB22 - 150BG | 234.4 | 150 | 19 | 118 | 48 | 22 | 26 | 51 | 4.8 | 10 | 2.90 |
| 16657 - 200BG | BT40 x FMB22 - 200BG | 284.4 | 200 | 19 | 168 | 48 | 22 | 26 | 51 | 4.8 | 10 | 3.60 |
| 16657 - 250BG | BT40 x FMB22 - 250BG | 334.4 | 250 | 19 | 218 | 48 | 22 | 26 | 51 | 4.8 | 10 | 4.40 |
| 16671 - 150BG | BT50 x FMB22 - 150BG | 270.8 | 150 | 19 | 107 | 58 | 22 | 26 | 62.5 | 4.8 | 10 | 6.80 |
| 16671 - 200BG | BT50 x FMB22 - 200BG | 320.8 | 200 | 19 | 157 | 58 | 22 | 26 | 62.5 | 4.8 | 10 | 8.40 |
| 16671 - 250BG | BT50 x FMB22 - 250BG | 370.8 | 250 | 19 | 207 | 58 | 22 | 26 | 62.5 | 4.8 | 10 | 9.40 |
| 16671 - 300BG | BT50 x FMB22 - 300BG | 420.8 | 300 | 19 | 257 | 58 | 22 | 26 | 62.5 | 4.8 | 10 | 10.4 |
| 16671 - 350BG | BT50 x FMB22 - 350BG | 470.8 | 350 | 19 | 307 | 58 | 22 | 26 | 62.5 | 4.8 | 10 | 11.4 |
| 16671 - 400BG | BT50 x FMB22 - 400BG | 520.8 | 400 | 19 | 352 | 58 | 22 | 26 | 62.5 | 4.8 | 10 | 12.4 |
| 16671 - 450BG | BT50 x FMB22 - 450BG | 570.8 | 450 | 19 | 402 | 58 | 22 | 26 | 62.5 | 4.8 | 10 | 13.4 |
| 16671 - 500BG | BT50 x FMB22 - 500BG | 620.8 | 500 | 19 | 452 | 58 | 22 | 26 | 62.5 | 4.8 | 10 | 14.4 |
| 16674BG | BT50 x FMB27 - 150BG | 271.8 | 150 | 20 | 107 | 60 | 27 | 31.5 | 78 | 5.8 | 12 | 6.90 |
| 16675BG | BT50 x FMB27 - 200BG | 321.8 | 200 | 20 | 157 | 60 | 27 | 31.5 | 78 | 5.8 | 12 | 8.50 |
| 16675 - 250BG | BT50 x FMB27 - 250BG | 371.8 | 250 | 20 | 207 | 60 | 27 | 31.5 | 78 | 5.8 | 12 | 9.50 |
| 16675 - 300BG | BT50 x FMB27 - 300BG | 421.8 | 300 | 20 | 257 | 60 | 27 | 31.5 | 78 | 5.8 | 12 | 10.4 |
| 16675 - 350BG | BT50 x FMB27 - 350BG | 471.8 | 350 | 20 | 307 | 60 | 27 | 31.5 | 78 | 5.8 | 12 | 11.4 |
| 16675 - 400BG | BT50 x FMB27 - 400BG | 521.8 | 400 | 20 | 352 | 60 | 27 | 31.5 | 78 | 5.8 | 12 | 12.4 |
| 16675 - 450BG | BT50 x FMB27 - 450BG | 571.8 | 450 | 20 | 402 | 60 | 27 | 31.5 | 78 | 5.8 | 12 | 13.4 |
| 16675 - 500BG | BT50 x FMB27 - 500BG | 621.8 | 500 | 20 | 452 | 60 | 27 | 31.5 | 78 | 5.8 | 12 | 14.4 |
| 16677 - 150BG | BT50 x FMB32 - 150BG | 273.8 | 150 | 22 | 107 | 78 | 32 | 41 | 85 | 6.8 | 14 | 7.00 |
| 16677 - 200BG | BT50 x FMB32 - 200BG | 323.8 | 200 | 22 | 157 | 78 | 32 | 41 | 85 | 6.8 | 14 | 8.50 |
| 16677 - 250BG | BT50 x FMB32 - 250BG | 373.8 | 250 | 22 | 207 | 78 | 32 | 41 | 85 | 6.8 | 14 | 9.50 |
| 16677 - 300BG | BT50 x FMB32 - 300BG | 423.8 | 300 | 22 | 257 | 78 | 32 | 41 | 85 | 6.8 | 14 | 10.5 |
| 16677 - 350BG | BT50 x FMB32 - 350BG | 473.8 | 350 | 22 | 307 | 78 | 32 | 41 | 85 | 6.8 | 14 | 11.5 |
| 16677 - 400BG | BT50 x FMB32 - 400BG | 523.8 | 400 | 22 | 357 | 78 | 32 | 41 | 85 | 6.8 | 14 | 12.5 |
| 16677 - 450BG | BT50 x FMB32 - 450BG | 573.8 | 450 | 22 | 407 | 78 | 32 | 41 | 85 | 6.8 | 14 | 13.5 |
| 16677 - 500BG | BT50 x FMB32 - 500BG | 623.8 | 500 | 22 | 460 | 80 | 32 | 41 | 96 | 6.8 | 14 | 14.5 |

Features:

- ▶ d₁ tolerance: h6.
- ▶ Coolant through tool holders with special design of enlarged neck for the prolonged length type, rigidity and anti-vibration are improved.

Product information:

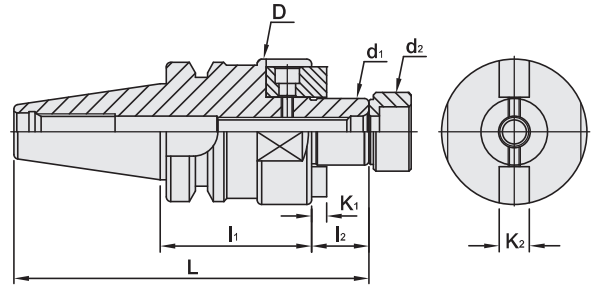
- ▶ The pre-balance reaches G6.3 3,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

| Pull Stud | Screw |
|---|---|
|  |  |
| P.W-60~61 | P.W-90 |

BT FACE MILL ARBOR

LIGHT WEIGHT TYPE - WITH TWO FLAT SIDES

BT 平面銑刀柄 [削平兩端輕量型]





| MODEL NO. | TYPE | L | l ₁ | l ₂ | D | d ₁ | d ₂ | K ₁ | K ₂ | WEIGHT (KGS) |
|-------------|--------------------------|-------|----------------|----------------|----|----------------|----------------|----------------|----------------|--------------|
| 16612B - 50 | BT30 x FMA25,4 - 50 - B | 118,4 | 50 | 20 | 50 | 25,4 | 31,5 | 4,52 | 9,52 | 1,00 |
| 16614B - 50 | BT30 x FMA31,75 - 50 - B | 120,4 | 50 | 22 | 60 | 31,75 | 41 | 6,7 | 12,7 | 1,00 |
| 16651B - 50 | BT30 x FMB22 - 50 - B | 117,7 | 50 | 19 | 48 | 22 | 26 | 4,8 | 10 | 0,82 |
| 16654B - 50 | BT30 x FMB27 - 50 - B | 118,4 | 50 | 20 | 60 | 27 | 31,5 | 5,8 | 12 | 1,06 |

Features:

- ▶ d1 tolerance: h6.

Product information:

- ▶ The pre-balance reaches G6.3 3,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

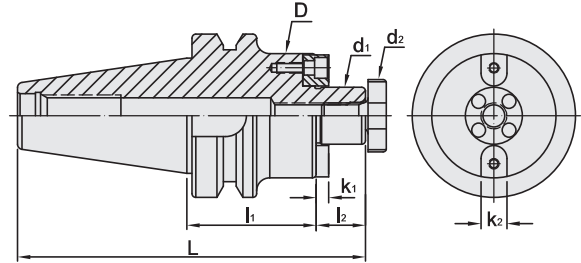
| Pull Stud | Screw |
|---|---|
|  |  |
| P.W-60~61 | P.W-90 |



BT FACE MILL ARBOR

FMC TYPE

BT / FMC 平面銑刀柄



| MODEL NO. | TYPE | L | l ₁ | l ₂ | D | d ₁ | d ₂ | K ₁ | K ₂ | WEIGHT (KGS) |
|---------------|-------------------|-------|----------------|----------------|----|----------------|----------------|----------------|----------------|--------------|
| 10.157.16.035 | BT30 x FMC16 - 35 | 100.4 | 35 | 17 | 38 | 16 | 20 | 5 | 8 | 0.72 |
| 10.157.22.040 | BT30 x FMC22 - 40 | 107.4 | 40 | 19 | 45 | 22 | 28 | 4.8 | 10 | 0.80 |
| 10.157.27.040 | BT30 x FMC27 - 40 | 109.4 | 40 | 21 | 60 | 27 | 35 | 5.8 | 12 | 1.06 |
| 11.157.16.045 | BT40 x FMC16 - 45 | 127.4 | 45 | 17 | 38 | 16 | 20 | 5 | 8 | 1.20 |
| 11.157.22.045 | BT40 x FMC22 - 45 | 129.4 | 45 | 19 | 50 | 22 | 28 | 4.8 | 10 | 1.34 |
| 11.157.27.045 | BT40 x FMC27 - 45 | 131.4 | 45 | 21 | 60 | 27 | 35 | 5.8 | 12 | 1.56 |
| 11.157.32.050 | BT40 x FMC32 - 50 | 139.4 | 50 | 24 | 78 | 32 | 42 | 6.8 | 14 | 1.96 |
| 12.157.16.050 | BT50 x FMC16 - 50 | 168.8 | 50 | 17 | 40 | 16 | 20 | 5 | 8 | 4.00 |
| 12.157.22.060 | BT50 x FMC22 - 60 | 180.8 | 60 | 19 | 50 | 22 | 28 | 4.8 | 10 | 4.10 |
| 12.157.27.060 | BT50 x FMC27 - 60 | 182.8 | 60 | 21 | 60 | 27 | 35 | 5.8 | 12 | 4.30 |
| 12.157.32.060 | BT50 x FMC32 - 60 | 185.8 | 60 | 24 | 78 | 32 | 42 | 6.8 | 14 | 4.60 |
| 12.157.40.070 | BT50 x FMC40 - 70 | 198.8 | 70 | 27 | 89 | 40 | 52 | 8.3 | 16 | 5.20 |



Features:

- ▶ With four coolant holes at the end of holder.

Product information:

- ▶ The pre-balance reaches G6.3 3,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.
- ▶ MAS/BT30 tool holders are without coolant supply over collars.

Standard Accessory: • NUT • SPANNER

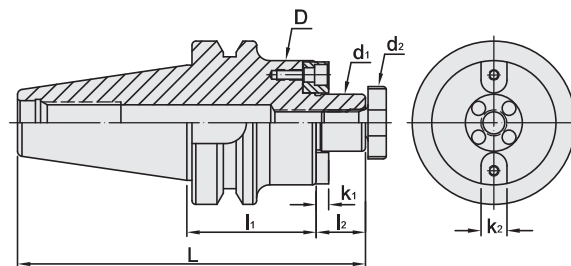
| Nut | Pull Stud | Spanner |
|---|---|---|
|  |  |  |
| P.W-67 | P.W-60~61 | P.W-67 |

BT FACE MILL ARBOR

FMC TYPE

BT

BT / FMC 平面銑刀柄



INCHES

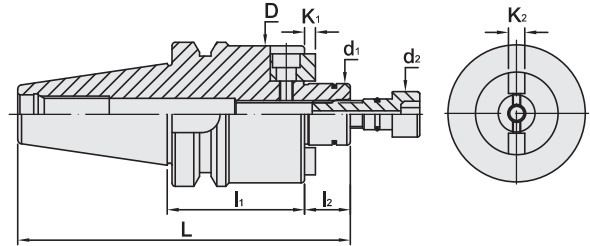
| MODEL NO. | TYPE | L | li | li2 | D | d1 | d2 | K1 | K2 | WEIGHT (KGS) |
|---------------|------------------------|-------|-----|-----|-----|--------|----|-----|-------|--------------|
| 11.157.66.045 | BT40 x FMC22.225 - 45 | 127.4 | 45 | 17 | 47 | 22.225 | 28 | 3.5 | 8 | 1.50 |
| 11.157.66.060 | BT40 x FMC22.225 - 60 | 142.4 | 60 | 17 | 47 | 22.225 | 28 | 3.5 | 8 | 1.80 |
| 11.157.66.090 | BT40 x FMC22.225 - 90 | 172.4 | 90 | 17 | 47 | 22.225 | 28 | 3.5 | 8 | 2.50 |
| 11.157.68.060 | BT40 x FMC25.4 - 60 | 147.4 | 60 | 22 | 70 | 25.4 | 35 | 5 | 9.525 | 2.00 |
| 11.157.68.090 | BT40 x FMC25.4 - 90 | 177.4 | 90 | 22 | 70 | 25.4 | 35 | 5 | 9.525 | 2.70 |
| 11.157.68.105 | BT40 x FMC25.4 - 105 | 192.4 | 105 | 22 | 70 | 25.4 | 35 | 5 | 9.525 | 3.40 |
| 11.157.72.060 | BT40 x FMC31.75 - 60 | 155.4 | 60 | 30 | 76 | 31.75 | 42 | 7 | 12.7 | 2.50 |
| 11.157.72.090 | BT40 x FMC31.75 - 90 | 185.4 | 90 | 30 | 76 | 31.75 | 42 | 7 | 12.7 | 3.20 |
| 12.157.66.090 | BT50 x FMC22.225 - 90 | 208.8 | 90 | 17 | 47 | 22.225 | 28 | 3.5 | 8 | 4.40 |
| 12.157.66.105 | BT50 x FMC22.225 - 105 | 223.8 | 105 | 17 | 47 | 22.225 | 28 | 3.5 | 8 | 4.70 |
| 12.157.66.150 | BT50 x FMC22.225 - 150 | 268.8 | 150 | 17 | 47 | 22.225 | 28 | 3.5 | 8 | 5.30 |
| 12.157.66.200 | BT50 x FMC22.225 - 200 | 318.8 | 200 | 17 | 47 | 22.225 | 28 | 3.5 | 8 | 6.00 |
| 12.157.66.250 | BT50 x FMC22.225 - 250 | 368.8 | 250 | 17 | 47 | 22.225 | 28 | 3.5 | 8 | 6.60 |
| 12.157.66.300 | BT50 x FMC22.225 - 300 | 418.8 | 300 | 17 | 47 | 22.225 | 28 | 3.5 | 8 | 7.70 |
| 12.157.66.350 | BT50 x FMC22.225 - 350 | 468.8 | 350 | 17 | 47 | 22.225 | 28 | 3.5 | 8 | 8.90 |
| 12.157.68.045 | BT50 x FMC25.4 - 45 | 168.8 | 45 | 22 | 70 | 25.4 | 35 | 5 | 9.525 | 4.00 |
| 12.157.68.060 | BT50 x FMC25.4 - 60 | 183.8 | 60 | 22 | 70 | 25.4 | 35 | 5 | 9.525 | 4.50 |
| 12.157.68.090 | BT50 x FMC25.4 - 90 | 213.8 | 90 | 22 | 70 | 25.4 | 35 | 5 | 9.525 | 5.40 |
| 12.157.68.150 | BT50 x FMC25.4 - 150 | 273.8 | 150 | 22 | 70 | 25.4 | 35 | 5 | 9.525 | 7.20 |
| 12.157.68.200 | BT50 x FMC25.4 - 200 | 323.8 | 200 | 22 | 70 | 25.4 | 35 | 5 | 9.525 | 8.70 |
| 12.157.68.250 | BT50 x FMC25.4 - 250 | 373.8 | 250 | 22 | 70 | 25.4 | 35 | 5 | 9.525 | 10.3 |
| 12.157.68.300 | BT50 x FMC25.4 - 300 | 423.8 | 300 | 22 | 70 | 25.4 | 35 | 5 | 9.525 | 11.8 |
| 12.157.72.045 | BT50 x FMC31.75 - 45 | 176.8 | 45 | 30 | 76 | 31.75 | 42 | 7 | 12.7 | 4.10 |
| 12.157.72.075 | BT50 x FMC31.75 - 75 | 206.8 | 75 | 30 | 76 | 31.75 | 42 | 7 | 12.7 | 5.20 |
| 12.157.72.105 | BT50 x FMC31.75 - 105 | 236.8 | 105 | 30 | 76 | 31.75 | 42 | 7 | 12.7 | 6.30 |
| 12.157.72.150 | BT50 x FMC31.75 - 150 | 281.8 | 150 | 30 | 76 | 31.75 | 42 | 7 | 12.7 | 7.90 |
| 12.157.72.200 | BT50 x FMC31.75 - 200 | 331.8 | 200 | 30 | 76 | 31.75 | 42 | 7 | 12.7 | 9.70 |
| 12.157.72.250 | BT50 x FMC31.75 - 250 | 381.8 | 250 | 30 | 76 | 31.75 | 42 | 7 | 12.7 | 11.6 |
| 12.157.72.300 | BT50 x FMC31.75 - 300 | 431.8 | 300 | 30 | 76 | 31.75 | 42 | 7 | 12.7 | 13.4 |
| 12.157.77.045 | BT50 x FMC38.1 - 45 | 180.8 | 45 | 34 | 100 | 38.1 | 52 | 9 | 15.9 | 4.40 |
| 12.157.77.075 | BT50 x FMC38.1 - 75 | 210.8 | 75 | 34 | 100 | 38.1 | 52 | 9 | 15.9 | 6.30 |
| 12.157.77.105 | BT50 x FMC38.1 - 105 | 240.8 | 105 | 34 | 100 | 38.1 | 52 | 9 | 15.9 | 8.10 |
| 12.157.77.150 | BT50 x FMC38.1 - 150 | 285.8 | 150 | 34 | 100 | 38.1 | 52 | 9 | 15.9 | 10.9 |
| 12.157.77.200 | BT50 x FMC38.1 - 200 | 335.8 | 200 | 34 | 100 | 38.1 | 52 | 9 | 15.9 | 14.5 |
| 12.157.77.250 | BT50 x FMC38.1 - 250 | 385.8 | 250 | 34 | 100 | 38.1 | 52 | 9 | 15.9 | 17.5 |
| 12.157.77.300 | BT50 x FMC38.1 - 300 | 435.8 | 300 | 34 | 100 | 38.1 | 52 | 9 | 15.9 | 19.2 |

| Nut | Pull Stud | Spanner |
|---|---|---|
|  |  |  |
| P.W-67 | P.W-60~61 | P.W-67 |



BT / SMA FACE MILL ARBOR

BT / SMA 平面铣刀柄



| MODEL NO. | TYPE | L | l ₁ | l ₂ | D | d ₁ | d ₂ | K ₁ | K ₂ | WEIGHT (KGS) |
|---------------|--------------------|-------|----------------|----------------|----|----------------|----------------|----------------|----------------|--------------|
| 11.660.22.090 | BT40 x SMA22 - 90 | 174.4 | 90 | 19 | 48 | 22 | 18 | 4.8 | 10 | 1.90 |
| 11.660.22.105 | BT40 x SMA22 - 105 | 189.4 | 105 | 19 | 48 | 22 | 18 | 4.8 | 10 | 1.10 |
| 11.660.22.135 | BT40 x SMA22 - 135 | 219.4 | 135 | 19 | 48 | 22 | 18 | 4.8 | 10 | 2.20 |
| 11.660.27.090 | BT40 x SMA27 - 90 | 175.4 | 90 | 20 | 60 | 27 | 20 | 5.8 | 12 | 2.00 |
| 11.660.27.105 | BT40 x SMA27 - 105 | 190.4 | 105 | 20 | 60 | 27 | 20 | 5.8 | 12 | 2.10 |
| 11.660.27.135 | BT40 x SMA27 - 135 | 220.4 | 135 | 20 | 60 | 27 | 20 | 5.8 | 12 | 2.20 |
| 11.660.32.090 | BT40 x SMA32 - 90 | 177.4 | 90 | 22 | 80 | 32 | 22 | 6.8 | 14 | 2.40 |
| 11.660.32.105 | BT40 x SMA32 - 105 | 192.4 | 105 | 22 | 80 | 32 | 22 | 6.8 | 14 | 2.50 |
| 11.660.32.135 | BT40 x SMA32 - 135 | 222.4 | 135 | 22 | 80 | 32 | 22 | 6.8 | 14 | 2.60 |
| 12.660.22.090 | BT50 x SMA22 - 90 | 210.8 | 90 | 19 | 48 | 22 | 18 | 4.8 | 10 | 4.80 |
| 12.660.22.105 | BT50 x SMA22 - 105 | 225.8 | 105 | 19 | 48 | 22 | 18 | 4.8 | 10 | 5.00 |
| 12.660.22.135 | BT50 x SMA22 - 135 | 255.8 | 135 | 19 | 48 | 22 | 18 | 4.8 | 10 | 5.10 |
| 12.660.27.090 | BT50 x SMA27 - 90 | 211.8 | 90 | 20 | 60 | 27 | 20 | 5.8 | 12 | 5.40 |
| 12.660.27.105 | BT50 x SMA27 - 105 | 226.8 | 105 | 20 | 60 | 27 | 20 | 5.8 | 12 | 5.50 |
| 12.660.27.135 | BT50 x SMA27 - 135 | 256.8 | 135 | 20 | 60 | 27 | 20 | 5.8 | 12 | 5.60 |
| 12.660.32.090 | BT50 x SMA32 - 90 | 213.8 | 90 | 22 | 80 | 32 | 22 | 6.8 | 14 | 5.80 |
| 12.660.32.105 | BT50 x SMA32 - 105 | 228.8 | 105 | 22 | 80 | 32 | 22 | 6.8 | 14 | 5.90 |
| 12.660.32.135 | BT50 x SMA32 - 135 | 258.8 | 135 | 22 | 80 | 32 | 22 | 6.8 | 14 | 6.00 |

Features:

- ▶ d₁ tolerance: h6.
- ▶ Suitable for SRM Shell Rough Fixation Mill.
- ▶ There is more than 80% contact area that can avoid vibration effectively.

Product information:

- ▶ The pre-balance reaches G6.3 3,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

Pull Stud

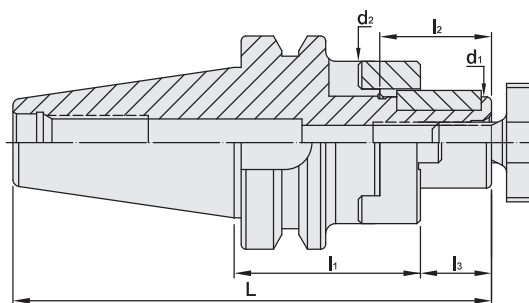


P.W-60~61

BT / CSR COMBI SHELL END MILL ARBOR

BT

BT / CSR 聯結式銑刀柄



| MODEL NO. | TYPE | L | l ₁ | l ₂ | l ₃ | d ₁ | d ₂ | WEIGHT (KGS) |
|-----------|-------------------|-------|----------------|----------------|----------------|----------------|----------------|--------------|
| 16352 | BT30 x CSR16 - 50 | 115.4 | 50 | 27 | 17 | 16 | 32 | 1.40 |
| 16354 | BT30 x CSR22 - 50 | 117.4 | 50 | 31 | 19 | 22 | 40 | 1.60 |
| 16356 | BT30 x CSR27 - 55 | 124.4 | 55 | 33 | 21 | 27 | 48 | 1.80 |
| 16362 | BT40 x CSR16 - 55 | 137.4 | 55 | 27 | 17 | 16 | 32 | 1.30 |
| 16364 | BT40 x CSR22 - 55 | 139.4 | 55 | 31 | 19 | 22 | 40 | 1.60 |
| 16366 | BT40 x CSR27 - 55 | 141.4 | 55 | 33 | 21 | 27 | 48 | 1.90 |
| 16368 | BT40 x CSR32 - 60 | 149.4 | 60 | 38 | 24 | 32 | 58 | 2.40 |
| 16370 | BT40 x CSR40 - 60 | 152.4 | 60 | 41 | 27 | 40 | 70 | 3.40 |
| 16374 | BT50 x CSR16 - 60 | 178.8 | 60 | 27 | 17 | 16 | 32 | 4.40 |
| 16376 | BT50 x CSR22 - 60 | 180.8 | 60 | 31 | 19 | 22 | 40 | 4.10 |
| 16378 | BT50 x CSR27 - 60 | 182.8 | 60 | 33 | 21 | 27 | 48 | 4.50 |
| 16380 | BT50 x CSR32 - 60 | 185.8 | 60 | 38 | 24 | 32 | 58 | 4.80 |
| 16382 | BT50 x CSR40 - 70 | 198.8 | 70 | 41 | 27 | 40 | 70 | 5.20 |
| 16384 | BT50 x CSR50 - 75 | 206.8 | 75 | 46 | 30 | 50 | 90 | 5.40 |

Features:

- ▶ Shank includes removable ring, nut and spanner.
- ▶ Can purchase removable ring, nut, and spanner separately.

Product information:

- ▶ The pre-balance reaches G6.3 3,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

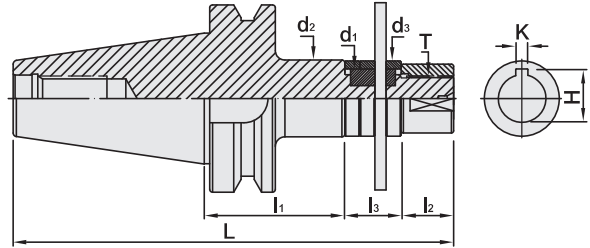
Standard Accessory: • KEY • REMOVABLE RING • NUT • SPANNER

| Key | Removable Ring | Nut | Pull Stud | Spanner |
|---|---|---|---|---|
|  |  |  |  |  |
| P.W-67 | P.W-67 | P.W-67 | P.W-60~61 | P.W-67 |



BT / SCA SIDE CUTTER ADAPTER

BT / SCA 側銑刀柄



| MODEL NO. | TYPE | L | l ₁ | l ₂ | l ₃ | d ₁ | d ₂ | d ₃ | K | H | T | WEIGHT (KGS) |
|-----------|--------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|----|------|------------|--------------|
| 17060 | BT30 x SCA10 - 60 | 155.4 | 60 | 12 | 35 | 10 | 18 | 18 | - | - | M8 x 1.25P | 0.80 |
| 17062 | BT30 x SCA16 - 60 | 154.4 | 60 | 16 | 30 | 16 | 26 | 26 | 4 | 17.7 | M14 x 1.5P | 1.00 |
| 17064 | BT30 x SCA22 - 60 | 160.4 | 60 | 22 | 30 | 22 | 34 | 34 | 6 | 24.3 | M20 x 1.5P | 1.20 |
| 17066 | BT30 x SCA22 - 75 | 175.4 | 75 | 22 | 30 | 22 | 34 | 34 | 6 | 24.3 | M20 x 1.5P | 1.40 |
| 17068 | BT40 x SCA16 - 60 | 171.4 | 60 | 16 | 30 | 16 | 26 | 26 | 4 | 17.7 | M14 x 1.5P | 1.50 |
| 17070 | BT40 x SCA22 - 60 | 177.4 | 60 | 22 | 30 | 22 | 34 | 34 | 6 | 24.3 | M20 x 1.5P | 1.60 |
| 17071 | BT40 x SCA22 - 75 | 192.4 | 75 | 22 | 30 | 22 | 34 | 34 | 6 | 24.3 | M20 x 1.5P | 1.70 |
| 17072 | BT40 x SCA22 - 120 | 237.4 | 120 | 22 | 30 | 22 | 34 | 34 | 6 | 24.3 | M20 x 1.5P | 2.00 |
| 17073 | BT40 x SCA27 - 75 | 198.4 | 75 | 28 | 30 | 27 | 41 | 40 | 7 | 30 | M24 x 1.5P | 2.10 |
| 17074 | BT40 x SCA27 - 120 | 243.4 | 120 | 28 | 30 | 27 | 41 | 40 | 7 | 30 | M24 x 1.5P | 2.50 |
| 17075 | BT40 x SCA32 - 90 | 217.4 | 90 | 32 | 30 | 32 | 47 | 46 | 8 | 35.5 | M30 x 1.5P | 2.60 |
| 17083 | BT50 x SCA22 - 90 | 243.8 | 90 | 22 | 30 | 22 | 34 | 34 | 6 | 24.3 | M20 x 1.5P | 4.40 |
| 17084 | BT50 x SCA22 - 135 | 288.8 | 135 | 22 | 30 | 22 | 34 | 34 | 6 | 24.3 | M20 x 1.5P | 4.70 |
| 17085 | BT50 x SCA27 - 90 | 249.8 | 90 | 28 | 30 | 27 | 41 | 40 | 7 | 30 | M24 x 1.5P | 4.60 |
| 17086 | BT50 x SCA27 - 135 | 294.8 | 135 | 28 | 30 | 27 | 41 | 40 | 7 | 30 | M24 x 1.5P | 5.00 |
| 17087 | BT50 x SCA32 - 90 | 253.8 | 90 | 32 | 30 | 32 | 47 | 46 | 8 | 35.5 | M30 x 1.5P | 4.70 |
| 17088 | BT50 x SCA32 - 135 | 298.8 | 135 | 32 | 30 | 32 | 47 | 46 | 8 | 35.5 | M30 x 1.5P | 5.20 |
| 17089 | BT50 x SCA40 - 90 | 261.8 | 90 | 40 | 30 | 40 | 55 | 55 | 10 | 43.7 | M36 x 2.0P | 5.00 |
| 17090 | BT50 x SCA40 - 135 | 306.8 | 135 | 40 | 30 | 40 | 55 | 55 | 10 | 43.7 | M36 x 2.0P | 6.00 |

Features:

- ▶ Nut standard DIN-2082-I.
- ▶ Bush standard DIN-2084-B.

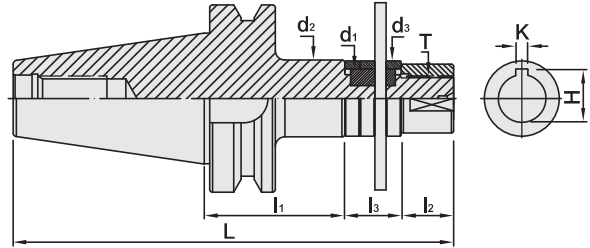
Pull Stud



P.W-60~61

BT / SCA SIDE CUTTER ADAPTER

BT / SCA 側銑刀柄



| MODEL NO. | TYPE | L | l ₁ | l ₂ | l ₃ | d ₁ | d ₂ | d ₃ | K | H | T | WEIGHT (KGS) |
|-----------|-----------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|-------|------|------------|--------------|
| 17076 | BT40 x SCA22.22 - 75 | 192.4 | 75 | 22 | 30 | 22.22 | 34 | 34 | 3.18 | 24.6 | M20 x 1.5P | 1.70 |
| 17077 | BT40 x SCA22.22 - 120 | 237.4 | 120 | 22 | 30 | 22.22 | 34 | 34 | 3.18 | 24.6 | M20 x 1.5P | 2.00 |
| 17078 | BT40 x SCA25.4 - 75 | 198.4 | 75 | 28 | 30 | 25.4 | 41 | 40 | 6.35 | 28.4 | M24 x 1.5P | 2.00 |
| 17079 | BT40 x SCA25.4 - 120 | 243.4 | 120 | 28 | 30 | 25.4 | 41 | 40 | 6.35 | 28.4 | M24 x 1.5P | 2.40 |
| 17080 | BT40 x SCA31.75 - 90 | 217.4 | 90 | 32 | 30 | 31.75 | 47 | 46 | 7.93 | 34.8 | M30 x 1.5P | 2.60 |
| 17091 | BT50 x SCA22.22 - 90 | 243.8 | 90 | 22 | 30 | 22.22 | 34 | 34 | 3.18 | 24.6 | M20 x 1.5P | 4.40 |
| 17092 | BT50 x SCA22.22 - 135 | 288.8 | 135 | 22 | 30 | 22.22 | 34 | 34 | 3.18 | 24.6 | M20 x 1.5P | 4.70 |
| 17093 | BT50 x SCA25.4 - 90 | 249.8 | 90 | 28 | 30 | 25.4 | 41 | 40 | 6.35 | 28.4 | M24 x 1.5P | 4.50 |
| 17094 | BT50 x SCA25.4 - 135 | 294.8 | 135 | 28 | 30 | 25.4 | 41 | 40 | 6.35 | 28.4 | M24 x 1.5P | 4.90 |
| 17095 | BT50 x SCA31.75 - 90 | 253.8 | 90 | 32 | 30 | 31.75 | 47 | 46 | 7.93 | 34.8 | M30 x 1.5P | 4.70 |
| 17096 | BT50 x SCA31.75 - 135 | 298.8 | 135 | 32 | 30 | 31.75 | 47 | 46 | 7.93 | 34.8 | M30 x 1.5P | 5.20 |
| 17097 | BT50 x SCA38.1 - 90 | 261.8 | 90 | 40 | 30 | 38.1 | 55 | 55 | 9.525 | 42.4 | M36 x 2.0P | 4.90 |
| 17098 | BT50 x SCA38.1 - 135 | 306.8 | 135 | 40 | 30 | 38.1 | 55 | 55 | 9.525 | 42.4 | M36 x 2.0P | 5.90 |

Features:

- ▶ Nut standard DIN-2082-I.
- ▶ Bush standard DIN-2084-B.

Pull Stud



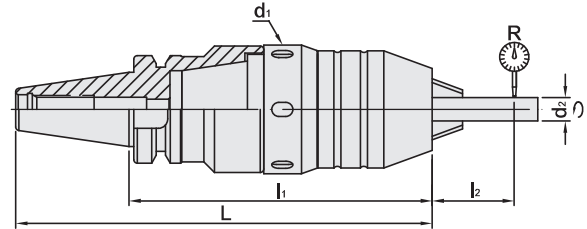
P.W-60~61



BT / SPH DRILL CHUCK ADAPTER

INTEGRATED TYPE

BT / SPH 直結式鑽夾頭



| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | R | WEIGHT (KGS) |
|-----------|--------------------|-------|----------------|----------------|----------------|----------------|------|--------------|
| 16420 | BT30 x SPH8 - 115 | 163.4 | 115 | 55 | 42 | 6 | 0.04 | 2.18 |
| 16422 | BT30 x SPH13 - 130 | 178.4 | 130 | 75 | 54 | 8 | 0.04 | 2.45 |
| 16430 | BT40 x SPH8 - 90 | 155.4 | 90 | 55 | 42 | 6 | 0.04 | 2.45 |
| 16432 | BT40 x SPH13 - 105 | 170.4 | 105 | 75 | 54 | 8 | 0.04 | 2.33 |
| 16434 | BT40 x SPH13 - 120 | 185.4 | 120 | 75 | 54 | 8 | 0.04 | 2.63 |
| 16440 | BT50 x SPH8 - 100 | 201.8 | 100 | 55 | 42 | 6 | 0.04 | 4.93 |
| 16442 | BT50 x SPH13 - 115 | 216.8 | 115 | 75 | 54 | 8 | 0.04 | 5.13 |
| 16444 | BT50 x SPH13 - 135 | 236.8 | 135 | 75 | 54 | 8 | 0.04 | 5.43 |
| 16446 | BT50 x SPH13 - 150 | 251.8 | 150 | 75 | 54 | 8 | 0.04 | 5.73 |
| 16448 | BT50 x SPH16 - 128 | 229.8 | 128 | 80 | 62 | 10 | 0.04 | 5.93 |

Features:

- ▶ The adapter has a taper design to assemble with drill chuck and then lock with a screw, ensuring to have better stability and drill chuck would not fall off.
- ▶ Used for drilling & tapping.
- ▶ The clamping capacity of SPH8 is 1~8mm.
- ▶ The clamping capacity of SPH13 is 1~13mm.
- ▶ The clamping capacity of SPH16 is 3~16mm.

Product information:

- ▶ The pre-balance reaches G6.3 8,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

Standard Accessory: • SPANNER

Pull Stud

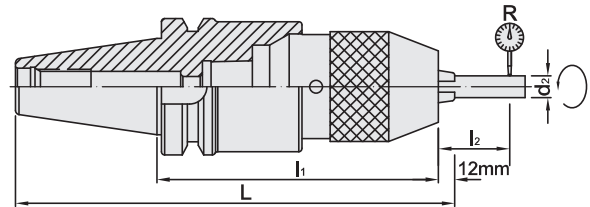


P.W-60~61

BT / SPU DRILL CHUCK ADAPTER

BT

BT / SPU 直結式鑽夾頭



| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | R | WEIGHT (KGS) |
|-----------|--------------------|-------|----------------|----------------|----------------|----------------|------|--------------|
| 16452 | BT30 x SPU8 - 80 | 140.4 | 80 | 55 | 37 | 6 | 0.04 | 0.72 |
| 16456 | BT30 x SPU13 - 110 | 170.4 | 110 | 75 | 50 | 13 | 0.04 | 1.85 |
| 16458 | BT30 x SPU16 - 115 | 175.4 | 115 | 80 | 57 | 16 | 0.04 | 2.18 |
| 16462 | BT40 x SPU8 - 85 | 162.4 | 85 | 55 | 37 | 6 | 0.04 | 1.60 |
| 16466 | BT40 x SPU13 - 100 | 177.4 | 100 | 75 | 50 | 13 | 0.04 | 2.00 |
| 16468 | BT40 x SPU16 - 105 | 182.4 | 105 | 80 | 57 | 16 | 0.04 | 2.20 |
| 16472 | BT50 x SPU8 - 90 | 203.8 | 90 | 55 | 37 | 6 | 0.04 | 4.16 |
| 16476 | BT50 x SPU13 - 100 | 213.8 | 100 | 75 | 50 | 13 | 0.04 | 4.70 |
| 16477 | BT50 x SPU13 - 120 | 233.8 | 120 | 75 | 50 | 13 | 0.04 | 5.00 |
| 16479 | BT50 x SPU13 - 180 | 293.8 | 180 | 75 | 50 | 13 | 0.04 | 5.80 |
| 16480 | BT50 x SPU16 - 105 | 218.8 | 105 | 80 | 57 | 16 | 0.04 | 5.03 |
| 16481 | BT50 x SPU16 - 190 | 303.8 | 190 | 80 | 57 | 16 | 0.04 | 6.00 |

Features:

- ▶ The adapter has a taper design to assemble with drill chuck and then lock with a screw, ensuring to have better stability and drill chuck would not fall off.
- ▶ Used for drilling.
- ▶ The clamping capacity of SPU8 is 1~8mm.
- ▶ The clamping capacity of SPU13 is 1~13mm.
- ▶ The clamping capacity of SPU16 is 3~16mm.

Product information:

- ▶ The pre-balance reaches G6.3 8,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

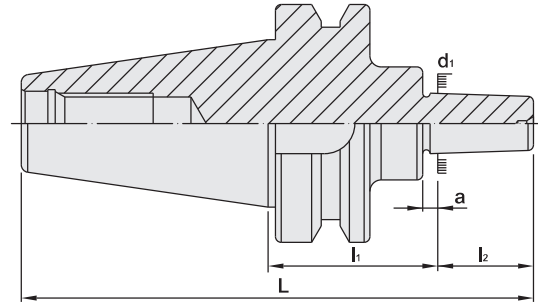
Standard Accessory: • SPANNER

| Pull Stud | Spanner |
|---|---|
|  |  |
| P.W-60~61 | P.W-72 |



BT DRILL CHUCK ARBOR

BT 鑽夾頭刀柄





| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | a | WEIGHT (KGS) |
|-----------|-------------------|---------|----------------|----------------|----------------|---|--------------|
| 16502 | BT30 x JTA2 - 45 | 115.625 | 45 | 22.225 | 14.199 | 4 | 0.60 |
| 16504 | BT30 x JTA33 - 45 | 118.8 | 45 | 25.4 | 15.85 | 4 | 0.75 |
| 16506 | BT30 x JTA6 - 45 | 118.8 | 45 | 25.4 | 17.17 | 4 | 0.60 |
| 16522 | BT40 x JTA2 - 45 | 136.625 | 45 | 22.225 | 14.199 | 4 | 1.30 |
| 16523 | BT40 x JTA33 - 45 | 135.8 | 45 | 25.4 | 15.85 | 4 | 1.30 |
| 16524 | BT40 x JTA6 - 45 | 135.8 | 45 | 25.4 | 17.17 | 4 | 1.20 |
| 16525 | BT40 x JTA6 - 105 | 195.8 | 105 | 25.4 | 17.17 | 4 | 1.65 |
| 16542 | BT50 x JTA2 - 45 | 169.025 | 45 | 22.225 | 14.199 | 4 | 4.10 |
| 16543 | BT50 x JTA33 - 45 | 172.2 | 45 | 25.4 | 15.85 | 4 | 4.00 |
| 16544 | BT50 x JTA6 - 45 | 172.2 | 45 | 25.4 | 17.17 | 4 | 4.20 |
| 16545 | BT50 x JTA6 - 105 | 232.2 | 105 | 25.4 | 17.17 | 4 | 4.60 |
| 16552 | BT30 x B10 - 45 | 107.9 | 45 | 14.5 | 10.094 | 3 | 0.60 |
| 16553 | BT30 x B12 - 45 | 111.9 | 45 | 18.5 | 12.065 | 4 | 0.85 |
| 16554 | BT30 x B16 - 45 | 117.4 | 45 | 24 | 15.733 | 5 | 0.60 |
| 16572 | BT40 x B10 - 45 | 124.9 | 45 | 14.5 | 10.094 | 3 | 1.45 |
| 16573 | BT40 x B12 - 45 | 128.9 | 45 | 18.5 | 12.065 | 4 | 1.40 |
| 16574 | BT40 x B16 - 45 | 134.4 | 45 | 24 | 15.733 | 5 | 1.45 |
| 16575 | BT40 x B16 - 90 | 179.4 | 90 | 24 | 15.733 | 5 | 1.70 |
| 16576 | BT40 x B18 - 45 | 142.4 | 45 | 32 | 17.78 | 5 | 1.50 |
| 16577 | BT40 x B18 - 90 | 187.4 | 90 | 32 | 17.78 | 5 | 1.80 |
| 16592 | BT50 x B10 - 45 | 161.3 | 45 | 14.5 | 10.094 | 3 | 3.60 |
| 16593 | BT50 x B12 - 45 | 165.3 | 45 | 18.5 | 12.065 | 4 | 3.60 |
| 16594 | BT50 x B12 - 105 | 225.3 | 105 | 18.5 | 12.065 | 4 | 5.50 |
| 16595 | BT50 x B16 - 45 | 170.8 | 45 | 24 | 15.733 | 5 | 5.10 |
| 16596 | BT50 x B16 - 105 | 230.8 | 105 | 24 | 15.733 | 5 | 5.50 |
| 16597 | BT50 x B18 - 45 | 178.8 | 45 | 32 | 17.78 | 5 | 4.30 |
| 16598 | BT50 x B18 - 105 | 238.8 | 105 | 32 | 17.78 | 5 | 5.60 |

Features:

- ▶ For drill chuck according to DIN 238.

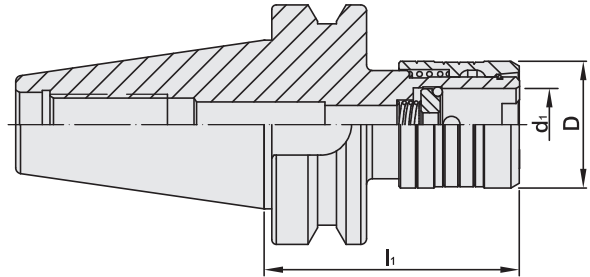
Product information:

- ▶ The pre-balance reaches G6.3 10,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.



| Keyless Drill Chuck | Pull Stud |
|---|---|
|  |  |
| P.W-83 | P.W-60~61 |

QUICK CHANGE TAPPING CHUCK

快換式伸縮 / 扭力 攻牙夾頭



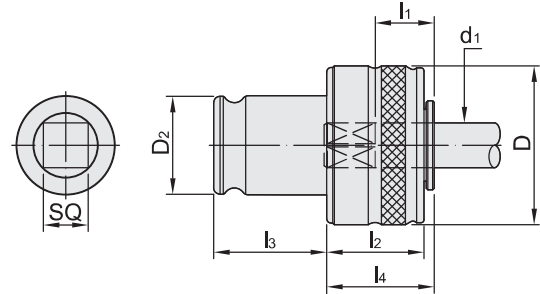
| MODEL NO. | TYPE | TAPPING COLLET | TAPPING CAPACITY | LENGTH COMP. | | l ₁ | D | d ₁ | WEIGHT (KGS) |
|-------------|-------------------|----------------|------------------|--------------|------|----------------|----|----------------|--------------|
| | | | | COMP | EXP | | | | |
| 17711 - 68 | BT30 x 312 - 68 | TCS - 1B | M3 - M14 | 7.5 | 7.5 | 68 | 36 | 19 | 0.64 |
| 17715 - 73 | BT40 x 312 - 73 | TCS - 1B | M3 - M14 | 7.5 | 7.5 | 73 | 36 | 19 | 1.25 |
| 17715 - 135 | BT40 x 312 - 135 | TCS - 1B | M3 - M14 | 15 | 20 | 135 | 46 | 19 | 2.00 |
| 17716 - 94 | BT40 x 822 - 94 | TCS - 2B | M8 - M24 | 12.5 | 12.5 | 94 | 53 | 31 | - |
| 17716 - 165 | BT40 x 822 - 165 | TCS - 2B | M8 - M24 | 15 | 20 | 165 | 58 | 31 | - |
| 17718 - 157 | BT40 x 1638 - 157 | TCS - 3B | M14 - M36 | 20 | 20 | 157 | 78 | 48 | - |
| 17721 - 84 | BT50 x 312 - 84 | TCS - 1B | M3 - M14 | 7.5 | 7.5 | 84 | 36 | 19 | - |
| 17721 - 135 | BT50 x 312 - 135 | TCS - 1B | M3 - M14 | 15 | 20 | 135 | 46 | 19 | 4.48 |
| 17722 - 103 | BT50 x 822 - 103 | TCS - 2B | M8 - M24 | 12.5 | 12.5 | 103 | 53 | 31 | 4.50 |
| 17722 - 165 | BT50 x 822 - 165 | TCS - 2B | M8 - M24 | 15 | 15 | 165 | 58 | 31 | 6.45 |
| 17724 - 142 | BT50 x 1638 - 142 | TCS - 3B | M14 - M36 | 20 | 20 | 142 | 78 | 48 | 6.06 |
| 17724 - 200 | BT50 x 1638 - 200 | TCS - 3B | M14 - M36 | 20 | 20 | 200 | 75 | 48 | - |

| Tapping Collet | Pull Stud |
|---|---|
|  |  |
| P.A-54~56 | P.W-60~61 |



QUICK CHANGE TAPPING COLLET

快換式 扭力 攻牙筒夾



| MODEL NO. | TYPE | D | D ₂ | l ₁ | l ₃ | l ₄ | l ₅ | WEIGHT (KGS) |
|-----------|----------|----|----------------|----------------|----------------|----------------|----------------|--------------|
| 17730 | TCS - 1B | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| 17750 | TCS - 2B | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| 17770 | TCS - 3B | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |

TCS - 1B

| TYPE | D ₁ | SQ | STANDARD | | D | D ₂ | l ₁ | l ₂ | l ₃ | l ₄ | WEIGHT (KGS) |
|----------------|----------------|------|------------|-------------|----|----------------|----------------|----------------|----------------|----------------|--------------|
| TCS1B-2.5-2 | 2.5 | 2 | M1.M2 | ISO529 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| | 2.5 | 2 | M3.5 | ISO529/2283 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-3-2.5 | 3 | 2.5 | M2 | JIS | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-3.15-2.5 | 3.15 | 2.5 | M3 | ISO529 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| | 3.15 | 2.5 | M4 | ISO529/2283 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-3.5-2.7 | 3.5 | 2.7 | M3 | DIN371 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| | 3.5 | 2.7 | M4.5.M5 | DIN376 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-4-3.15 | 4 | 3.15 | M4 | ISO529 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| | 4 | 3.15 | M5 | ISO529/2283 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-4-3.2 | 4 | 3.2 | M3 | JIS | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-4.5-3.4 | 4.5 | 3.4 | M4 | DIN371 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| | 4.5 | 3.4 | M6 | DIN376 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-4.5-3.55 | 4.5 | 3.55 | M4.5 | ISO529 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| | 4.5 | 3.55 | M6 | ISO529/2283 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-5-4 | 5 | 4 | M4.M4.5 | JIS | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| | 5 | 4 | M5 | ISO529 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-5.5-4.5 | 5.5 | 4.5 | M5.M5.5 | JIS | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-6-4.5 | 6 | 4.5 | M6 | JIS | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-6-4.9 | 6 | 4.9 | M4.5.M5.M6 | DIN371 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| | 6 | 4.9 | M8 | DIN376 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-6.1-5 | 6.1 | 5 | UNC5/16 | JIS | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-6.2-5 | 6.2 | 5 | M8.M7 | JIS | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-6.3-5 | 6.3 | 5 | M6 | ISO529 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| | 6.3 | 5 | M8 | ISO529/2283 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-7-5.5 | 7 | 5.5 | M10.M9 | JIS | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| | 7 | 5.5 | UNC3/8 | JIS | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| | 7 | 5.5 | M10 | DIN376 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-8-6 | 8 | 6 | M11 | JIS | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| | 8 | 6 | UNC7/16 | JIS | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| | 8 | 6 | PT1/8 | JIS | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-8-6.2 | 8 | 6.2 | M8 | DIN371 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-8-6.3 | 8 | 6.3 | M8 | ISO529 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| | 8 | 6.3 | M10 | ISO529/2283 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-8.5-6.5 | 8.5 | 6.5 | M12 | JIS | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |

| TYPE | D ₁ | SQ | STANDARD | | D | D ₂ | l ₁ | l ₂ | l ₃ | l ₄ | WEIGHT (KGS) |
|--------------|----------------|-----|----------|-------------|----|----------------|----------------|----------------|----------------|----------------|--------------|
| TCS1B-9-7 | 9 | 7 | UNC1/2 | JIS | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| | 9 | 7 | M12 | DIN376 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-9-7.1 | 9 | 7.1 | M9 | ISO529 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| | 9 | 7.1 | M12 | ISO529/2283 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-10-8 | 10 | 8 | M10 | DIN371 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| | 10 | 8 | M10 | ISO529 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-10.5-8 | 10.5 | 8 | M14.M15 | JIS | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| | 10.5 | 8 | UNC9/16 | JIS | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-11-9 | 11 | 9 | M14 | DIN376 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| | 11 | 9 | PT1/4 | DIN376 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |
| TCS1B-11.2-9 | 11.2 | 9 | M14 | ISO529/2283 | 32 | 19 | 17 | 25 | 21.5 | 25 | 0.18 |

TCS - 2B

| | | | | | | | | | | | |
|---------------|------|------|------------|-------------|----|----|----|----|------|----|------|
| TCS2B-6-4.5 | 6 | 4.5 | M6 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 6 | 4.5 | UNC1/4 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-6-4.9 | 6 | 4.9 | M4.5.M5.M6 | DIN371 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 6 | 4.9 | M8 | DIN376 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-6.2-5 | 6.2 | 5 | M8.M7 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-6.3-5 | 6.3 | 5 | M6 | ISO529 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 6.3 | 5 | M8 | ISO529/2283 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-7-5.5 | 7 | 5.5 | M10.M9 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 7 | 5.5 | UNC3/8 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 7 | 5.5 | M10 | DIN376 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-8-6 | 8 | 6 | M11 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 8 | 6 | UNC7/16 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 8 | 6 | PT1/8 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-8-6.2 | 8 | 6.2 | M8 | DIN371 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-8-6.3 | 8 | 6.3 | M8 | ISO529 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 8 | 6.3 | M10 | ISO529/2283 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-8.5-6.5 | 8.5 | 6.5 | M12 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-9-7 | 9 | 7 | UNC1/2 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 9 | 7 | M12 | DIN376 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-9-7.1 | 9 | 7.1 | M9 | ISO529 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 9 | 7.1 | M12 | ISO529/2283 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-10-8 | 10 | 8 | M10 | DIN371 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 10 | 8 | M10 | ISO529 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-10.5-8 | 10.5 | 8 | M14.M15 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 10.5 | 8 | UNC9/16 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-11-9 | 11 | 9 | M14 | DIN376 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 11 | 9 | PT1/4 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-11.2-9 | 11.2 | 9 | M14 | ISO529/2283 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-12-9 | 12 | 9 | UNC5/8 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 12 | 9 | M16 | DIN376 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-12.5-10 | 12.5 | 10 | M16 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 12.5 | 10 | M16 | ISO529/2283 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-14-11 | 14 | 11 | M18 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 14 | 11 | UNC3/4 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 14 | 11 | PT3/8 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 14 | 11 | M18 | DIN376 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-14-11.2 | 14 | 11.2 | M18.M20 | ISO529/2283 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-15-12 | 15 | 12 | M20 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-16-12 | 16 | 12 | M20 | DIN376 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-16-12.5 | 16 | 12.5 | M22 | ISO529/2283 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-17-13 | 17 | 13 | M22 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 17 | 13 | UNC7/8 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-18-14 | 18 | 14 | M24 | ISO529/2283 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| | 18 | 14 | PT1/2 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-18-14.5 | 18 | 14.5 | M22.M24 | DIN376 | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |
| TCS2B-19-15 | 19 | 15 | M24.M25 | JIS | 50 | 31 | 30 | 31 | 35.5 | 33 | 0.55 |

TCS - 3B

| TYPE | D ₁ | SQ | STANDARD | | D | D ₂ | l ₁ | l ₂ | l ₃ | l ₄ | WEIGHT (KGS) |
|---------------|----------------|------|----------|-------------|----|----------------|----------------|----------------|----------------|----------------|--------------|
| TCS3B-10.5-8 | 10.5 | 8 | M14.M15 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| | 10.5 | 8 | UNC9/16 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-11-9 | 11 | 9 | M14 | DIN376 | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| | 11 | 9 | PT1/4 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-11.2-9 | 11.2 | 9 | M14 | ISO529/2283 | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-12-9 | 12 | 9 | UNC5/8 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| | 12 | 9 | M16 | DIN376 | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-12.5-10 | 12.5 | 10 | M16 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| | 12.5 | 10 | M16 | ISO529/2283 | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-14-11 | 14 | 11 | M18 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| | 14 | 11 | UNC3/4 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| | 14 | 11 | PT3/8 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| | 14 | 11 | M18 | DIN376 | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-14-11.2 | 14 | 11.2 | M18.M20 | ISO529/2283 | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-15-12 | 15 | 12 | M20 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-16-12 | 16 | 12 | M20 | DIN376 | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-16-12.5 | 16 | 12.5 | M22 | ISO529/2283 | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-17-13 | 17 | 13 | M22 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| | 17 | 13 | UNC7/8 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-18-14 | 18 | 14 | M24 | ISO529/2283 | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| | 18 | 14 | PT1/2 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-18-14.5 | 18 | 14.5 | M22.M24 | DIN376 | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-19-15 | 19 | 15 | M24.M25 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-20-15 | 20 | 15 | M27.M26 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| | 20 | 15 | UNC1 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-20-16 | 20 | 16 | M27 | DIN376 | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| | 20 | 16 | M27.M30 | ISO529/2283 | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-21-17 | 21 | 17 | M28 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-22-18 | 22 | 18 | M30 | DIN376 | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-22.4-18 | 22.4 | 18 | M33 | ISO529/2283 | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-23-17 | 23 | 17 | M30 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| | 23 | 17 | PT3/4 | ISO529/2283 | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-24-19 | 24 | 19 | M32 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| | 24 | 19 | UNC1-1/4 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-25-19 | 25 | 19 | M33 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-25-20 | 25 | 20 | M33 | DIN376 | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| | 25 | 20 | M36 | ISO529/2283 | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-26-21 | 26 | 21 | M35.M34 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| | 26 | 21 | UNC1-3/8 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| | 26 | 21 | PT1 | ISO529/2283 | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-28-21 | 28 | 21 | M36 | JIS | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |
| TCS3B-28-22 | 28 | 22 | M36 | DIN376 | 72 | 48 | 44 | 41 | 55.5 | 45 | 1.58 |

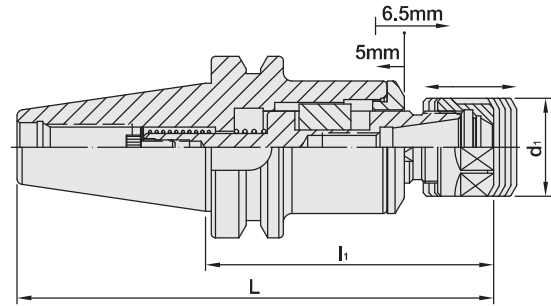
Features:

- ▶ Please inform the sizes of D1 and SQ when making an order.
- ▶ Has a range of torsion and can be set in advance.
- ▶ The harder materials of tools, the stronger torsion is needed.

BT / ETP EXPANSION ER TAPPER



BT / ETP 伸縮 ER 攻牙器



T W PAT NO. M298033
 T W PAT NO. M311791
 J P PAT NO. 3128766
 J P PAT NO. 3200356
 K R PAT NO. 20-0433603
 C N PAT NO. ZL200620132661.0
 C H PAT NO. 696550
 T R PAT NO. TR 2007 02942 Y
 I T PAT NO. N.0000266731

| MODEL NO. | TYPE | L | li | di | COLLET | CAPACITY | WEIGHT (KGS) |
|-----------|---------------------|-------|-----|----|--------|----------|--------------|
| 18701 | BT30 x ETP16A - 75 | 123.4 | 75 | 28 | ER16 | M3 - M10 | 0.55 |
| 18703 | BT30 x ETP16A - 90 | 138.4 | 90 | 28 | ER16 | M3 - M10 | 0.60 |
| 18705 | BT30 x ETP20A - 75 | 123.4 | 75 | 34 | ER20 | M3 - M17 | 0.58 |
| 18707 | BT30 x ETP20A - 90 | 138.4 | 90 | 34 | ER20 | M3 - M17 | 0.62 |
| 18711 | BT40 x ETP16A - 120 | 185.4 | 120 | 28 | ER16 | M3 - M10 | 1.65 |
| 18713 | BT40 x ETP16A - 150 | 215.4 | 150 | 28 | ER16 | M3 - M10 | 1.85 |
| 18715 | BT40 x ETP20A - 100 | 165.4 | 100 | 34 | ER20 | M3 - M17 | 1.65 |
| 18717 | BT40 x ETP20A - 150 | 215.4 | 150 | 34 | ER20 | M3 - M17 | 1.90 |
| 18719 | BT40 x ETP20M - 200 | 265.4 | 200 | 28 | ER20 | M3 - M17 | 2.15 |
| 18721 | BT40 x ETP32 - 120 | 185.4 | 120 | 50 | ER32 | M3 - M27 | 2.10 |
| 18731 | BT50 x ETP16A - 120 | 221.8 | 120 | 28 | ER16 | M3 - M10 | 4.30 |
| 18733 | BT50 x ETP16A - 150 | 251.8 | 150 | 28 | ER16 | M3 - M10 | 4.50 |
| 18735 | BT50 x ETP20A - 100 | 201.8 | 100 | 34 | ER20 | M3 - M17 | 4.30 |
| 18737 | BT50 x ETP20A - 150 | 251.8 | 150 | 34 | ER20 | M3 - M17 | 4.60 |
| 18739 | BT50 x ETP20M - 200 | 301.8 | 200 | 28 | ER20 | M3 - M17 | 4.70 |
| 18741 | BT50 x ETP32 - 120 | 221.8 | 120 | 50 | ER32 | M3 - M27 | 4.65 |

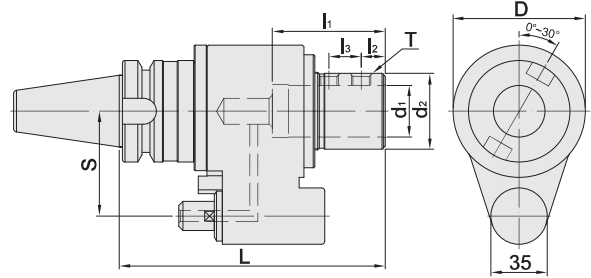
Standard Accessory: • NUT

| Collet | Nut | Pull Stud | Preset Screw | Spanner |
|----------------|--------|-----------|--------------|-----------|
| | | | | |
| P.W-7~10,20~25 | P.W-48 | P.W-60~61 | P.W-88 | P.W-68~71 |



BT / OSL SIDE LOCK OIL HOLE HOLDER

BT / OSL 側固式油路刀把







| MODEL NO. | TYPE | L | l ₁ | l ₂ | l ₃ | D | d ₁ | d ₂ | S | T | WEIGHT (KGS) |
|-----------|---------------------|-----|----------------|----------------|----------------|-----|----------------|----------------|----|-------------|--------------|
| 18001 | BT40 x OSL16 - 165 | 165 | 58 | 25 | - | 82 | 16 | 46.5 | 65 | M12 x 1.75P | 3.10 |
| 18003 | BT40 x OSL20 - 165 | 165 | 60 | 25 | - | 82 | 20 | 46.5 | 65 | M12 x 1.75P | 3.50 |
| 18005 | BT40 x OSL25 - 165 | 165 | 66 | 15 | 20 | 82 | 25 | 46.5 | 65 | M12 x 1.75P | 3.50 |
| 18007 | BT40 x OSL32 - 165 | 165 | 70 | 15 | 20 | 82 | 32 | 47 | 65 | M12 x 1.75P | 5.20 |
| 18002 | BT40 x OSL16 - 165S | 165 | 48 | 25 | - | 82 | 16 | 46.5 | 60 | M12 x 1.75P | 3.10 |
| 18004 | BT40 x OSL20 - 165S | 165 | 50 | 25 | - | 82 | 20 | 46.5 | 60 | M12 x 1.75P | 3.50 |
| 18006 | BT40 x OSL25 - 165S | 165 | 56 | 15 | 20 | 82 | 25 | 46.5 | 60 | M12 x 1.75P | 3.50 |
| 18008 | BT40 x OSL32 - 165S | 165 | 60 | 15 | 20 | 82 | 32 | 47 | 60 | M12 x 1.75P | 5.20 |
| 18009 | BT50 x OSL16 - 165 | 165 | 58 | 24 | - | 98 | 16 | 56 | 80 | M14 x 2.0P | 7.00 |
| 18011 | BT50 x OSL20 - 165 | 165 | 60 | 25 | - | 98 | 20 | 56 | 80 | M12 x 1.75P | 7.50 |
| 18013 | BT50 x OSL25 - 165 | 165 | 70 | 15 | 20 | 98 | 25 | 56 | 80 | M16 x 2.0P | 7.50 |
| 18015 | BT50 x OSL32 - 165 | 165 | 70 | 15 | 20 | 98 | 32 | 56 | 80 | M16 x 2.0P | 7.80 |
| 18017 | BT50 x OSL40 - 170 | 170 | 70 | 15 | 25 | 105 | 40 | 56 | 80 | M14 x 2.0P | 8.50 |
| 18019 | BT50 x OSL16 - 165M | 165 | 48 | 25 | - | 98 | 16 | 56 | 82 | M14 x 2.0P | 7.10 |
| 18021 | BT50 x OSL20 - 165M | 165 | 50 | 25 | - | 98 | 20 | 56 | 82 | M12 x 1.75P | 7.60 |
| 18023 | BT50 x OSL25 - 165M | 165 | 56 | 15 | 20 | 98 | 25 | 56 | 82 | M16 x 2.0P | 7.70 |
| 18025 | BT50 x OSL32 - 165M | 165 | 60 | 15 | 20 | 98 | 32 | 56 | 82 | M16 x 2.0P | 7.80 |
| 18027 | BT50 x OSL40 - 170M | 170 | 62 | 15 | 25 | 105 | 40 | 56 | 82 | M14 x 2.0P | 8.50 |
| 18029 | BT50 x OSL16 - 165L | 165 | 48 | 25 | - | 98 | 16 | 56 | 85 | M14 x 2.0P | 7.20 |
| 18031 | BT50 x OSL20 - 165L | 165 | 50 | 25 | - | 98 | 20 | 56 | 85 | M12 x 1.75P | 7.80 |
| 18033 | BT50 x OSL25 - 165L | 165 | 56 | 15 | 20 | 98 | 25 | 56 | 85 | M16 x 2.0P | 7.80 |
| 18035 | BT50 x OSL32 - 165L | 165 | 60 | 15 | 20 | 98 | 32 | 56 | 85 | M16 x 2.0P | 8.00 |
| 18037 | BT50 x OSL40 - 170L | 170 | 62 | 15 | 25 | 105 | 40 | 56 | 85 | M14 x 2.0P | 8.70 |

Features:

- ▶ Internal hole tolerance is H5.
- ▶ The tolerance requirement of tool shank diameter is h6.
- ▶ Used for machines w/o center or side coolant and achieve coolant through tools.

Product information:

- ▶ Water pressure up to 7 kgf/cm².
- ▶ Max. revolution: 3,000 rpm.

| Straight Sleeve | Fixed Block | Pull Stud | Lock Screw |
|---|---|---|---|
|  |  |  |  |
| P.W-83 | P.W-94 | P.W-60~61 | P.W-90 |

BT / OHER OIL HOLE COLLET CHUCK

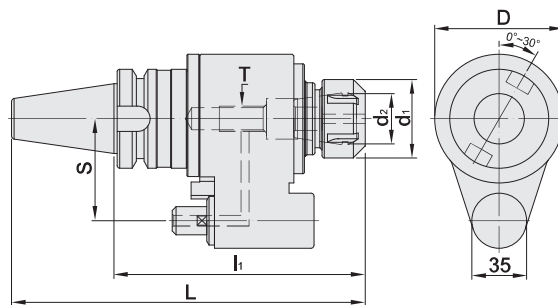
BT



BT / OHER 油路刀把



T W PAT NO. M298033
 T W PAT NO. M311791
 J P PAT NO. 3128766
 J P PAT NO. 3200356
 K R PAT NO. 20-0433603
 C N PAT NO. ZL200620132661.0
 C H PAT NO. 696550
 T R PAT NO. TR 2007 02942 Y
 I T PAT NO. N.0000266731



| MODEL NO. | TYPE | L | li | D | di | d ₂ ER | S | T | WEIGHT (KGS) |
|-----------|---------------------|-------|-----|----|----|----------------------|----|-----|-----------------|
| 18202 | BT40 x OHER16 - 160 | 225.4 | 160 | 82 | 28 | 16 | 65 | M10 | 3.80 |
| 18204 | BT40 x OHER20 - 160 | 225.4 | 160 | 82 | 34 | 20 | 65 | M12 | 4.10 |
| 18206 | BT40 x OHER25 - 160 | 225.4 | 160 | 82 | 42 | 25 | 65 | M16 | 4.30 |
| 18208 | BT40 x OHER32 - 160 | 225.4 | 160 | 82 | 50 | 32 | 65 | M16 | 4.50 |
| 18210 | BT50 x OHER16 - 160 | 261.8 | 160 | 98 | 28 | 16 | 80 | M10 | 7.00 |
| 18212 | BT50 x OHER20 - 160 | 261.8 | 160 | 98 | 34 | 20 | 80 | M12 | 7.10 |
| 18214 | BT50 x OHER25 - 160 | 261.8 | 160 | 98 | 42 | 25 | 80 | M16 | 7.20 |
| 18216 | BT50 x OHER32 - 160 | 261.8 | 160 | 98 | 50 | 32 | 80 | M16 | 7.30 |
| 18218 | BT50 x OHER40 - 160 | 261.8 | 160 | 98 | 63 | 40 | 80 | M20 | 7.50 |

Features:

- ▶ Internal hole tolerance is H5.
- ▶ The tolerance requirement of tool shank diameter is h6.
- ▶ Used for machines w/o center or side coolant and achieve coolant through tools.

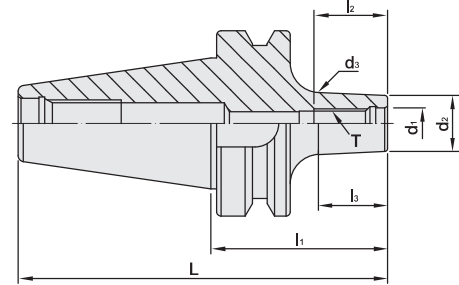
Standard Accessory: • NUT

| Collet | Nut | Fixed Block | Pull Stud | Preset Screw | Spanner |
|----------|-----------|-------------|-----------|--------------|-----------|
| | | | | | |
| P.W-7~17 | P.W-48,51 | P.W-94 | P.W-60~61 | P.W-88 | P.W-68~71 |



BT / SOM SCREWED END MILL HOLDER

BT / SOM 螺紋鎖固式刀桿



| MODEL NO. | TYPE | L | l ₁ | l ₂ | l ₃ | d ₁ | d ₂ | d ₃ | T | WEIGHT (KGS) |
|-----------|--------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|--------------|
| 19205 | BT40 x SOM6 - 60 | 125.4 | 60 | 25 | 23.4 | 6.5 | 13 | 15.1 | M6 x 1.0P | 1.10 |
| 19206 | BT40 x SOM8 - 60 | 125.4 | 60 | 25 | 23.4 | 8.5 | 15 | 17.1 | M8 x 1.25P | 1.10 |
| 19208 | BT40 x SOM10 - 60 | 125.4 | 60 | 25 | 23.4 | 10.5 | 19 | 21.1 | M10 x 1.5P | 1.20 |
| 19210 | BT40 x SOM12 - 70 | 135.4 | 70 | 31 | 31.5 | 12.5 | 21 | 22.8 | M12 x 1.75P | 1.20 |
| 19212 | BT40 x SOM12 - 100 | 165.4 | 100 | 31 | 42.4 | 12.5 | 21 | 23.8 | M12 x 1.75P | 1.30 |
| 19214 | BT40 x SOM16 - 80 | 145.4 | 80 | 30 | 48.2 | 17 | 25 | 29.1 | M16 x 2.0P | 1.20 |
| 19214.1 | BT40 x SOM16 - 80 | 145.4 | 80 | 30 | 48.2 | 17 | 30 | 34.1 | M16 x 2.0P | 1.20 |
| 19230 | BT50 x SOM6 - 60 | 161.8 | 60 | 25 | 12.4 | 6.5 | 13 | 14.1 | M6 x 1.0P | 3.00 |
| 19232 | BT50 x SOM8 - 60 | 161.8 | 60 | 25 | 12.4 | 8.5 | 15 | 16.1 | M8 x 1.25P | 3.00 |
| 19234 | BT50 x SOM10 - 60 | 161.8 | 60 | 25 | 12.4 | 10.5 | 19 | 20.1 | M10 x 1.5P | 3.00 |
| 19236 | BT50 x SOM12 - 70 | 171.8 | 70 | 31 | 22.4 | 12.5 | 21 | 22.9 | M12 x 1.75P | 3.00 |
| 19238 | BT50 x SOM12 - 100 | 201.8 | 100 | 31 | 52.4 | 12.5 | 21 | 25.6 | M12 x 1.75P | 3.00 |
| 19240 | BT50 x SOM16 - 80 | 181.8 | 80 | 30 | 32.4 | 17 | 25 | 27.7 | M16 x 2.0P | 3.00 |

Features:

- ▶ For center coolant (DIN 69871-AD).

Product information:

- ▶ The pre-balance reaches G6.3 10,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ AD+B type is available, please inform us when making an order.

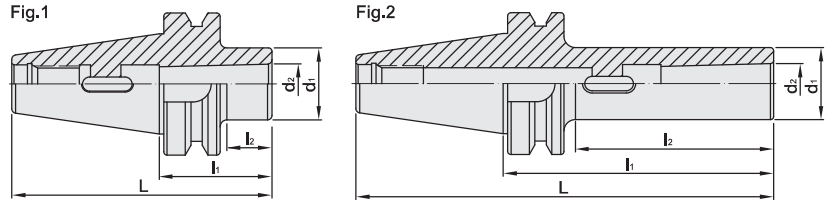
| STR Cutting Tool | RG Cutting Tool | DM Cutting Tool | Extension Spacer | Pull Stud |
|---|---|---|---|---|
|  |  |  |  |  |
| P.W-75 | P.W-76 | P.W-77 | P.W-78 | P.W-60~61 |

BT / MTA MORSE TAPER ADAPTER TANG TYPE

BT

BT / MTA 斜柄鑽頭套筒

(DIN 228-B)



| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | Fig | WEIGHT (KGS) |
|-----------|-------------------|-------|----------------|----------------|----------------|----------------|-----|--------------|
| 17001 | BT30 x MTA1 - 45 | 93.4 | 45 | 20 | 25 | 12.065 | 1 | 0.50 |
| 17004 | BT30 x MTA1 - 105 | 153.4 | 105 | 78 | 25 | 12.065 | 2 | 0.70 |
| 17006 | BT30 x MTA2 - 60 | 108.4 | 60 | 35 | 32 | 17.78 | 1 | 0.54 |
| 17008 | BT30 x MTA2 - 120 | 168.4 | 120 | 95 | 32 | 17.78 | 2 | 0.90 |
| 17010 | BT30 x MTA3 - 80 | 128.4 | 80 | 56 | 40 | 23.825 | 1 | 0.72 |
| 17011 | BT40 x MTA1 - 45 | 110.4 | 45 | 15 | 25 | 12.065 | 1 | 1.05 |
| 17013 | BT40 x MTA1 - 120 | 185.4 | 120 | 83 | 25 | 12.065 | 2 | 1.32 |
| 17014 | BT40 x MTA2 - 50 | 115.4 | 50 | 20 | 32 | 17.78 | 1 | 1.10 |
| 17017 | BT40 x MTA2 - 120 | 185.4 | 120 | 88 | 32 | 17.78 | 2 | 1.42 |
| 17018 | BT40 x MTA3 - 70 | 135.4 | 70 | 38 | 40 | 23.825 | 1 | 1.20 |
| 17021 | BT40 x MTA3 - 135 | 200.4 | 135 | 102 | 40 | 23.825 | 2 | 1.70 |
| 17023 | BT40 x MTA4 - 95 | 160.4 | 95 | 63 | 48 | 31.267 | 1 | 1.40 |
| 17025 | BT40 x MTA4 - 165 | 230.4 | 165 | 133 | 48 | 31.267 | 2 | 2.50 |
| 17031 | BT50 x MTA1 - 45 | 146.8 | 45 | 2 | 25 | 12.065 | 1 | 3.80 |
| 17033 | BT50 x MTA1 - 120 | 221.8 | 120 | 74 | 25 | 12.065 | 2 | 4.30 |
| 17035 | BT50 x MTA1 - 180 | 281.8 | 180 | 132 | 25 | 12.065 | 2 | 5.00 |
| 17036 | BT50 x MTA2 - 60 | 161.8 | 60 | 17 | 32 | 17.78 | 1 | 4.00 |
| 17039 | BT50 x MTA2 - 135 | 236.8 | 135 | 89 | 32 | 17.78 | 2 | 4.70 |
| 17041 | BT50 x MTA2 - 180 | 281.8 | 180 | 132 | 32 | 17.78 | 2 | 5.00 |
| 17042 | BT50 x MTA3 - 65 | 166.8 | 65 | 22 | 40 | 23.825 | 1 | 3.90 |
| 17046 | BT50 x MTA3 - 150 | 251.8 | 150 | 107 | 40 | 23.825 | 2 | 5.00 |
| 17047 | BT50 x MTA3 - 180 | 281.8 | 180 | 132 | 40 | 23.825 | 2 | 5.50 |
| 17048 | BT50 x MTA4 - 95 | 196.8 | 95 | 52 | 48 | 31.267 | 1 | 4.20 |
| 17051 | BT50 x MTA4 - 180 | 281.8 | 180 | 132 | 48 | 31.267 | 2 | 5.50 |
| 17053 | BT50 x MTA5 - 105 | 206.8 | 105 | 62 | 63 | 44.399 | 1 | 4.30 |

Features:

- ▶ The tools used for MTA are consistent with Morse Taper DIN 228 FORM B (with Tang).

Product information:

- ▶ The pre-balance reaches G6.3 3,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

Pull Stud



P.W-60~61

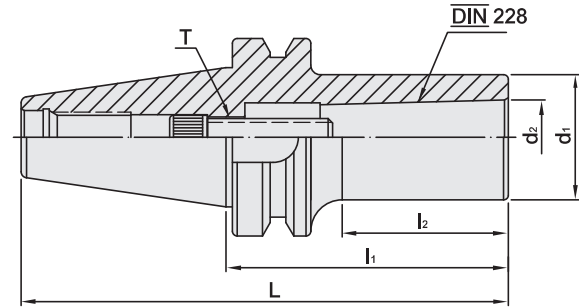


BT / MTB MORSE TAPER ADAPTER

DRAW BAR TYPE

BT / MTB 斜柄鑽頭套筒

[DIN 6364]



| MODEL NO. | TYPE | L | l ₁ | l ₂ | d ₁ | d ₂ | T | WEIGHT (KGS) |
|-----------------|-------------------|-------|----------------|----------------|----------------|----------------|-----------------------|--------------|
| 17001 - B | BT30 x MTB1 - 45 | 93.4 | 45 | 20 | 25 | 12.065 | M6 x 1.0P 1/4" - 20 | 0.55 |
| 17006 - B | BT30 x MTB2 - 60 | 108.4 | 60 | 36 | 32 | 17.78 | M10 x 1.5P 3/8" - 16 | 0.60 |
| 17011 - B | BT40 x MTB1 - 45 | 110.4 | 45 | 13 | 25 | 12.065 | M6 x 1.0P 1/4" - 20 | 1.10 |
| 17014 - B | BT40 x MTB2 - 45 | 110.4 | 45 | 13 | 32 | 17.78 | M10 x 1.5P 3/8" - 16 | 1.10 |
| 17017 - B - 185 | BT40 x MTB2 - 185 | 250.4 | 185 | 148 | 32 | 17.78 | M10 x 1.5P 3/8" - 16 | 1.90 |
| 17018 - B | BT40 x MTB3 - 75 | 140.4 | 75 | 45 | 40 | 23.825 | M12 x 1.75P 1/2" - 12 | 1.30 |
| 17019 - B | BT40 x MTB3 - 90 | 155.4 | 90 | 53 | 40 | 23.825 | M12 x 1.75P 1/2" - 12 | 1.40 |
| 17020 - B | BT40 x MTB3 - 120 | 185.4 | 120 | 83 | 40 | 23.825 | M12 x 1.75P 1/2" - 12 | 1.80 |
| 17021 - B - 180 | BT40 x MTB3 - 180 | 245.4 | 180 | 143 | 40 | 23.825 | M12 x 1.75P 1/2" - 12 | 2.40 |
| 17024 - B | BT40 x MTB4 - 100 | 165.4 | 100 | 67 | 48 | 31.267 | M16 x 2.0P 5/8" - 11 | 1.60 |
| 17024 - B - 120 | BT40 x MTB4 - 120 | 185.4 | 120 | 87 | 48 | 31.267 | M16 x 2.0P 5/8" - 11 | 1.80 |
| 17024 - B - 180 | BT40 x MTB4 - 180 | 245.4 | 180 | 147 | 48 | 31.267 | M16 x 2.0P 5/8" - 11 | 2.60 |
| 17031 - B | BT50 x MTB1 - 45 | 146.8 | 45 | 6 | 25 | 12.065 | M6 x 1.0P 1/4" - 20 | 3.80 |
| 17036 - B | BT50 x MTB2 - 45 | 146.8 | 45 | 5 | 32 | 17.78 | M10 x 1.5P 3/8" - 16 | 3.90 |
| 17042 - B | BT50 x MTB3 - 60 | 161.8 | 60 | 12 | 40 | 23.825 | M12 x 1.75P 1/2" - 12 | 3.90 |
| 17048 - B - 75 | BT50 x MTB4 - 75 | 176.8 | 75 | 32 | 48 | 31.267 | M16 x 2.0P 5/8" - 11 | 4.20 |
| 17053 - B - 120 | BT50 x MTB5 - 120 | 221.8 | 120 | 77 | 63 | 44.399 | M24 x 3.0P 1" - 8 | 4.30 |

Features:

- ▶ The tools used for MTA are consistent with Morse Taper DIN 228 FORM B (with Tang).
- ▶ Please confirm if you'd like to order thread in metric or inch size when making an order.

Product information:

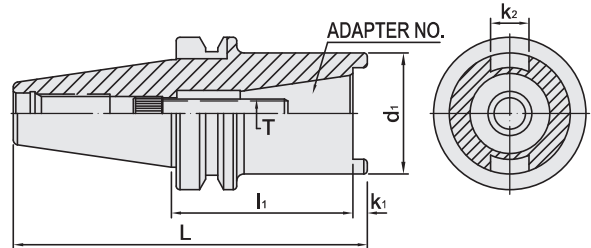
- ▶ The pre-balance reaches G6.3 3,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

Pull Stud

P.W-60~61

BT ADAPTER

BT 套筒



| MODEL NO. | TYPE | NO. | L | l ₁ | d ₁ | k ₁ | k ₂ | T | TORQUE | | WEIGHT (KGS) |
|---------------|--------------------|-------|-------|----------------|----------------|----------------|----------------|-------------|--------|-------|--------------|
| | | | | | | | | | MIN. | MAX. | |
| 19710 | BT40 x TSA30M - 75 | #30 | 146.4 | 75 | 50 | 6 | 15.9 | M12 x 1.75P | 45 Nm | 55 Nm | 1.80 |
| 19712 | BT40 x TSA30U - 75 | #30 | 146.4 | 75 | 50 | 6 | 15.9 | 1/2" - 12 | 45 Nm | 55 Nm | 1.80 |
| 11.501.32.030 | BT40 x PSC32 - 30 | PSC32 | 95.4 | 30 | 32 | - | - | M12 x 1.5P | 45 Nm | 55 Nm | 1.60 |
| 11.501.40.030 | BT40 x PSC40 - 30 | PSC40 | 95.4 | 30 | 40 | - | - | M14 x 1.5P | 45 Nm | 55 Nm | 1.60 |
| 11.501.50.030 | BT40 x PSC50 - 30 | PSC50 | 95.4 | 30 | 50 | - | - | M16 x 1.5P | 45 Nm | 55 Nm | 1.60 |
| 11.501.63.075 | BT40 x PSC63 - 75 | PSC63 | 140.4 | 75 | 63 | - | - | M20 x 2.0P | 65 Nm | 75 Nm | 1.80 |
| 11.501.80.135 | BT40 x PSC80 - 135 | PSC80 | 200.4 | 135 | 80 | - | - | M20 x 2.0P | 65 Nm | 75 Nm | 3.78 |
| 19722 | BT50 x TSA30M - 75 | #30 | 182.8 | 75 | 50 | 6 | 15.9 | M12 x 1.75P | 45 Nm | 55 Nm | 5.00 |
| 19724 | BT50 x TSA30U - 75 | #30 | 182.8 | 75 | 85 | 6 | 15.9 | 1/2" - 12 | 45 Nm | 55 Nm | 5.00 |
| 19726 | BT50 x TSA40M - 75 | #40 | 184.8 | 75 | 85 | 8 | 15.9 | M16 x 2.0P | 45 Nm | 55 Nm | 4.60 |
| 19728 | BT50 x TSA40U - 75 | #40 | 184.8 | 75 | 85 | 8 | 15.9 | 5/8" - 11 | 45 Nm | 55 Nm | 4.60 |
| 12.501.32.040 | BT50 x PSC32 - 40 | PSC32 | 141.8 | 40 | 32 | - | - | M12 x 1.5P | 45 Nm | 55 Nm | 4.60 |
| 12.501.40.040 | BT50 x PSC40 - 40 | PSC40 | 141.8 | 40 | 40 | - | - | M14 x 1.5P | 45 Nm | 55 Nm | 4.60 |
| 12.501.50.040 | BT50 x PSC50 - 40 | PSC50 | 141.8 | 40 | 50 | - | - | M16 x 1.5P | 45 Nm | 55 Nm | 4.60 |
| 12.501.63.100 | BT50 x PSC63 - 100 | PSC63 | 201.8 | 100 | 63 | - | - | M20 x 2.0P | 65 Nm | 75 Nm | 5.00 |
| 12.501.63.150 | BT50 x PSC63 - 150 | PSC63 | 251.8 | 150 | 63 | - | - | M20 x 2.0P | 65 Nm | 75 Nm | 5.93 |
| 12.501.63.200 | BT50 x PSC63 - 200 | PSC63 | 301.8 | 200 | 63 | - | - | M20 x 2.0P | 65 Nm | 75 Nm | 6.99 |
| 12.501.63.250 | BT50 x PSC63 - 250 | PSC63 | 351.8 | 250 | 63 | - | - | M20 x 2.0P | 65 Nm | 75 Nm | 8.06 |
| 12.501.63.300 | BT50 x PSC63 - 300 | PSC63 | 401.8 | 300 | 63 | - | - | M20 x 2.0P | 65 Nm | 75 Nm | 8.91 |
| 12.501.80.070 | BT50 x PSC80 - 70 | PSC80 | 171.8 | 70 | 80 | - | - | M20 x 2.0P | 65 Nm | 75 Nm | 3.86 |
| 12.501.80.120 | BT50 x PSC80 - 120 | PSC80 | 221.8 | 120 | 80 | - | - | M20 x 2.0P | 65 Nm | 75 Nm | 5.67 |

Pull Stud

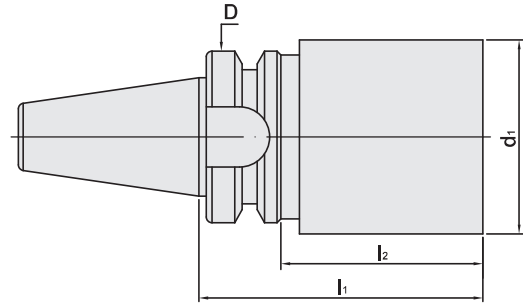


P.W-60~61



BT BLANK

BT 素材



| MODEL NO. | TYPE | D | d ₁ | l ₁ | l ₂ | WEIGHT (KGS) |
|-----------------|--------------------------|-----|----------------|----------------|----------------|--------------|
| 11.001.40.5.160 | BT40 x ϕ 40.5 - 160 | 63 | 40.5 | 160 | 133 | 2.30 |
| 11.001.63.5.160 | BT40 x ϕ 63.5 - 160 | 63 | 63.5 | 160 | 133 | 4.21 |
| 11.001.63.5.250 | BT40 x ϕ 63.5 - 250 | 63 | 63.5 | 250 | 223 | 6.41 |
| 12.001.50.300 | BT50 x ϕ 50 - 300 | 100 | 50 | 300 | 262 | 7.53 |
| 12.001.80.160 | BT50 x ϕ 80 - 160 | 100 | 80 | 160 | 122 | 8.29 |
| 12.001.80.200 | BT50 x ϕ 80 - 200 | 100 | 80 | 200 | 162 | 9.84 |
| 12.001.80.300 | BT50 x ϕ 80 - 300 | 100 | 80 | 300 | 262 | 13.71 |

Pull Stud



P.W-60~61