

BT CATEGORY

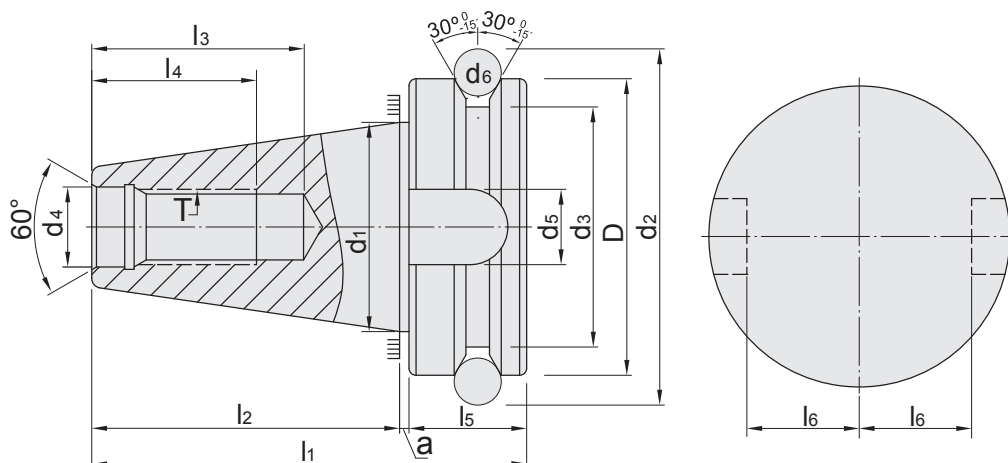
MAS 403

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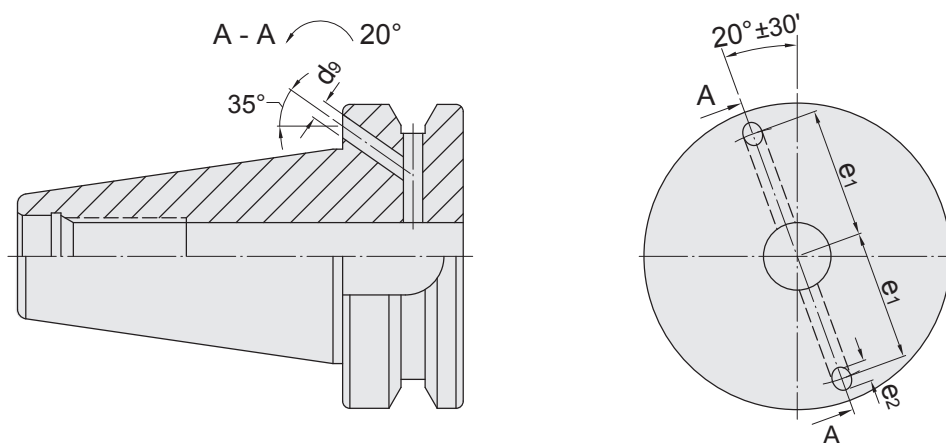
REFERENCE DETAILS

- ▶ 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

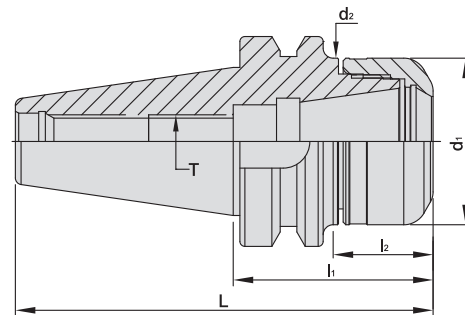
BT



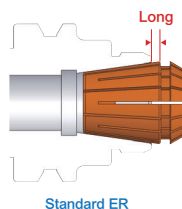
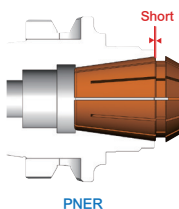
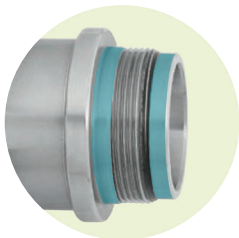
BT / PNER 立銑刀夾頭



TW PAT NO. M298033
TW PAT NO. M311791
TW PAT NO. M501316
JP PAT NO. 3128766
JP PAT NO. 3200356
KR PAT NO. 20-0433603
CN PAT NO. ZL200620132661.0
CH PAT NO. 696550
TR PAT NO. TR 2007 02942 Y
IT PAT NO. N.0000266731
DE 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



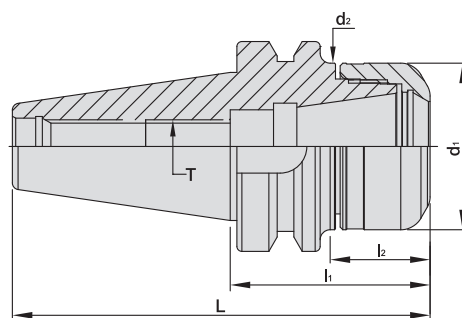
BT / PNER 立銑刀夾頭



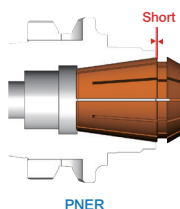
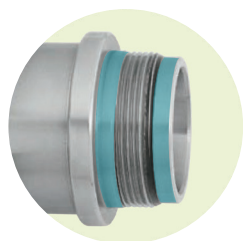
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TAIWAN EXCELLENCE



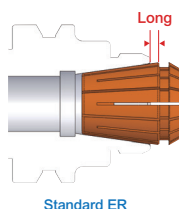
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J P PAT NO. 3128766
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K R PAT NO. 20-0433603
C N PAT NO. ZL200620132661.0
C H PAT NO. 696550
T R PAT NO. TR 2007 02942 Y
I T PAT NO. N.0000266731
D E PAT NO. Nr.202015005621



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	SIZE RANGE	WEIGHT (KGS)
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

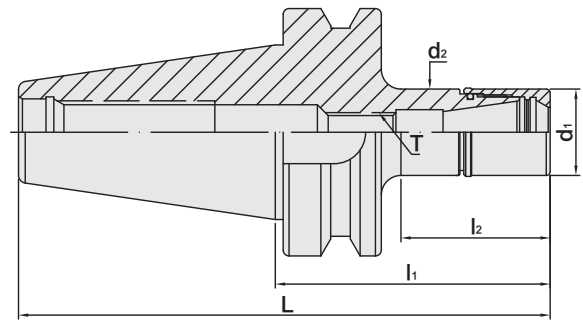
Collet	Nut	Pull Stud	Preset Screw	Spanner
P.W-5	P.W-45	P.W-60~61	P.W-88	P.W-68~73

BT / PTER COLLET CHUCK

BT



BT / PTER 立銑刀夾頭



T W PAT NO. M298033
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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)
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



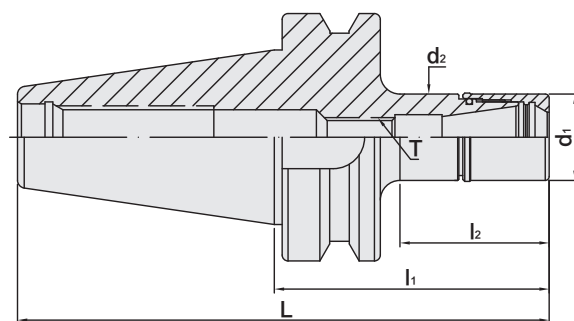
BT / PTER COLLET CHUCK



BT / PTER 立銑刀夾頭



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C 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



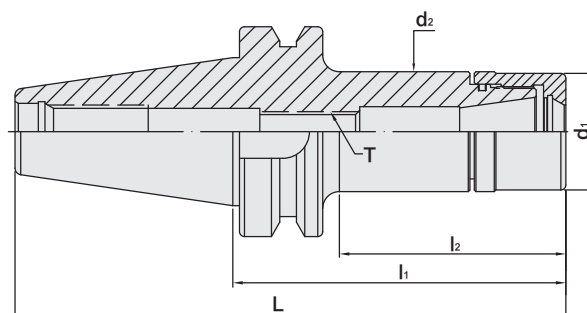
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10.753.16.070	BT30 x UT16 - 70	118.4	70	43	30	30	M10 x 1.5P	1 ~ 10	0.58
10.753.16.100	BT30 x UT16 - 100	148.4	100	73	30	30	M10 x 1.5P	1 ~ 10	0.72
10.753.16.125	BT30 x UT16 - 125	173.4	125	98	30	30	M10 x 1.5P	1 ~ 10	0.84
10.753.16.150	BT30 x UT16 - 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



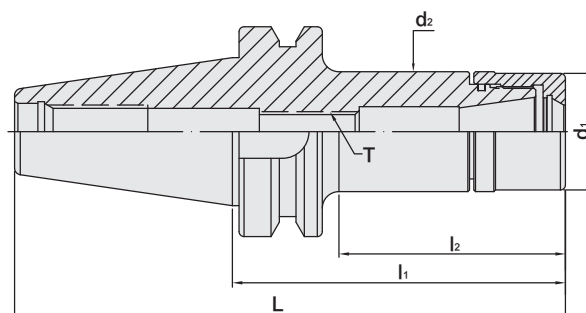
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MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	SIZE RANGE	WEIGHT (KGS)
11.753.16.070	BT40 x UT16 - 70	135.4	70	40	30	30	M10 x 1.5P	1 ~ 10	1.13
11.753.16.100	BT40 x UT16 - 100	165.4	100	63	30	30	M10 x 1.5P	1 ~ 10	1.27
11.753.16.125	BT40 x UT16 - 125	190.4	125	88	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

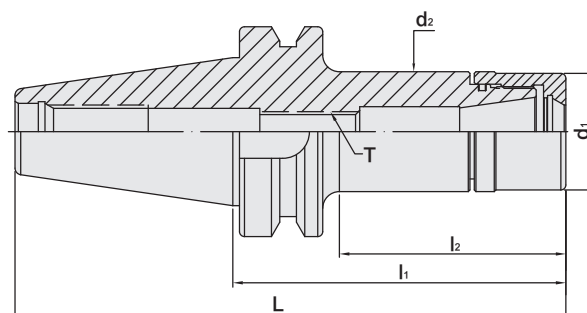
BT



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

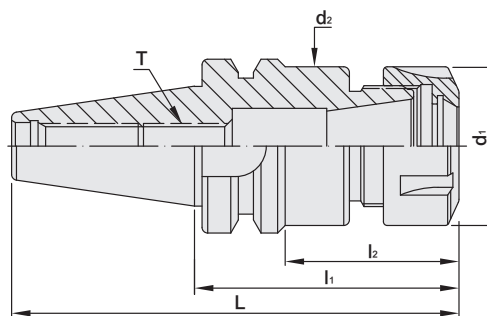


BT / ER 立銑刀夾頭

(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

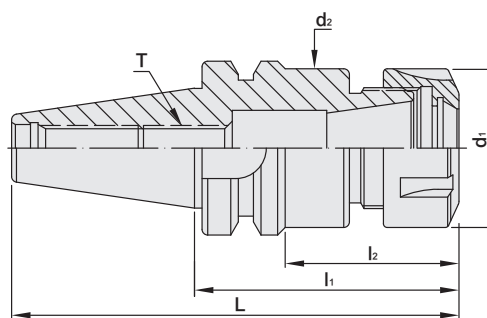


BT / ER 立銑刀夾頭

(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

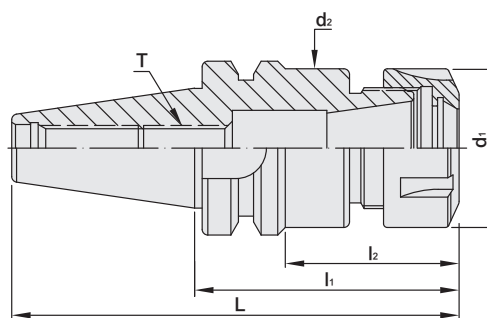


BT / ER 立銑刀夾頭

(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 - 250	BT50 x ER32 - 250	351.8	250	202	50	50	M16 x 2.0P	2 ~ 20	5.96
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

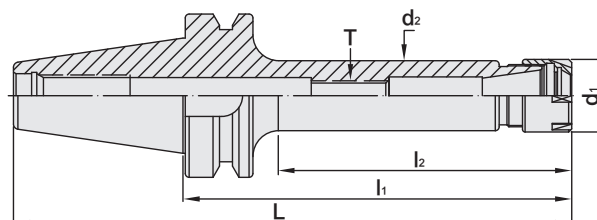


M 型 BT / ER 立銑刀夾頭

(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

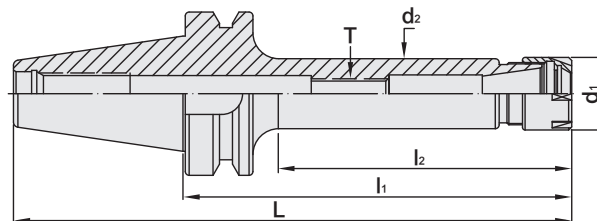


M 型 BT / ER 立銑刀夾頭

(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

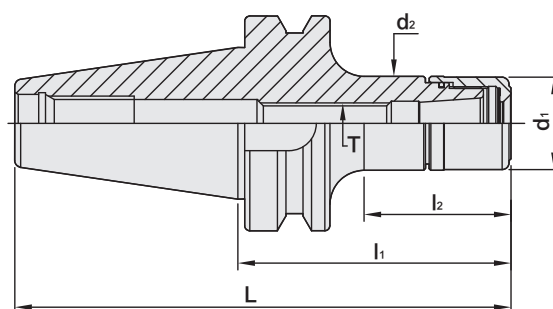


BT / SK3 COLLET CHUCK

BT

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

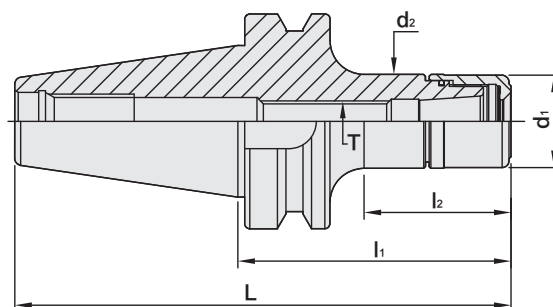
Collet	Nut	Pull Stud	Preset Screw	Spanner
P.W-29~32	P.W-52	P.W-60~61	P.W-88	P.W-68~73



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

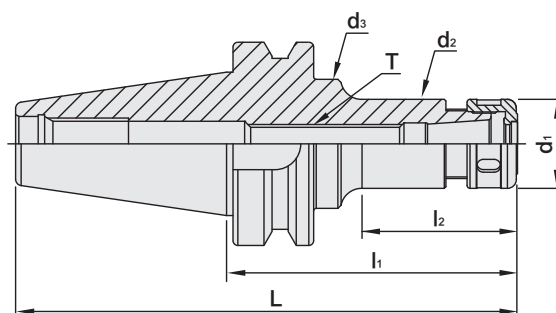
BT

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



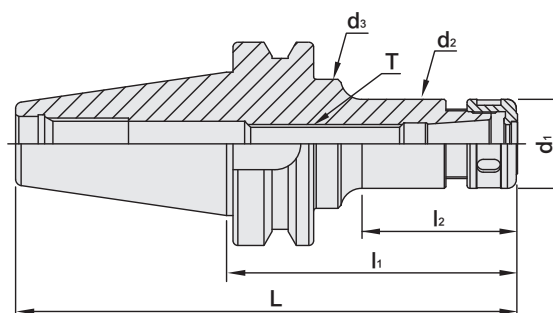
BT / SKS COLLET CHUCK

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



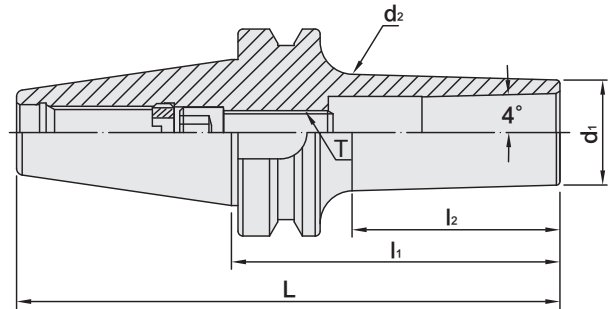
BT / SBL SLIM-FIT COLLET CHUCK

BT

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

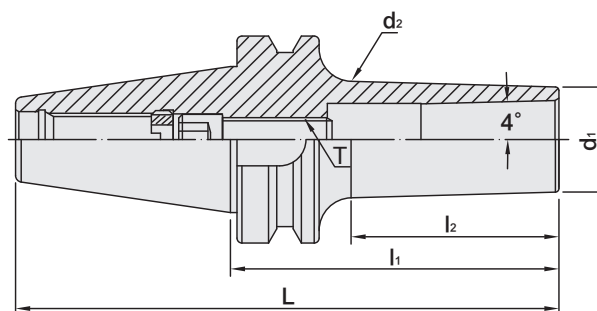


BT / SBL SLIM-FIT COLLET CHUCK

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



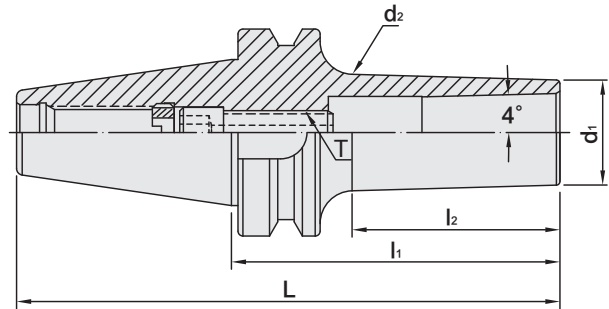
BT / SBLC SLIM-FIT COLLET CHUCK

BT

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

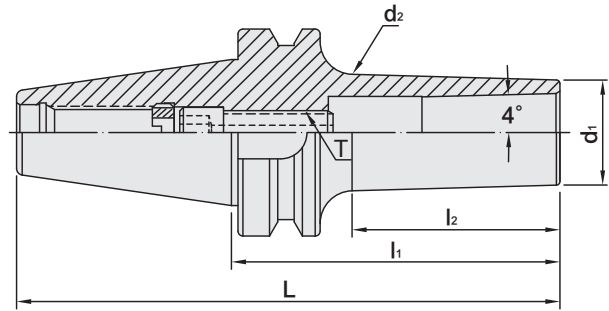


BT / SBLC SLIM-FIT COLLET CHUCK

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

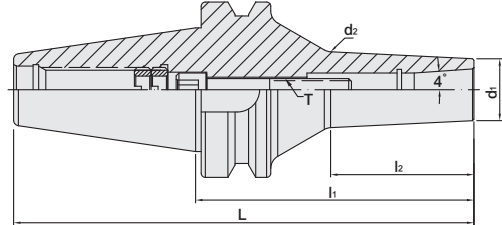
Collet	Pull Stud	Screw	Spanner
P.W-34	P.W-60~61	P.W-91	P.W-72



BT / EBL SLIM-FIT COLLET CHUCK

BT

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



台灣精品 2014
TAIWAN EXCELLENCE



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

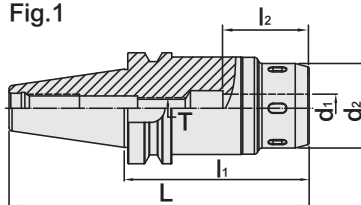
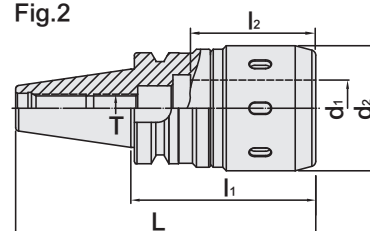


Fig.2



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

BT / MLD 直式筒夾 銑床夾頭



Fig.1

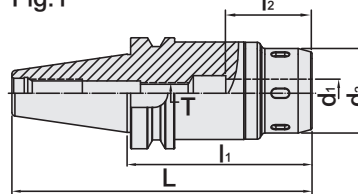
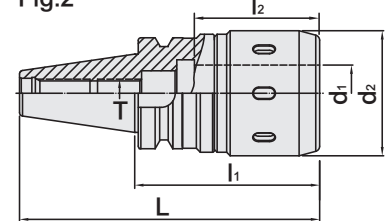


Fig.2



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

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



台灣精品 2014
TAIWAN EXCELLENCE



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

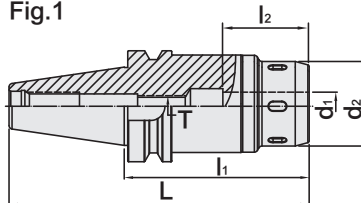
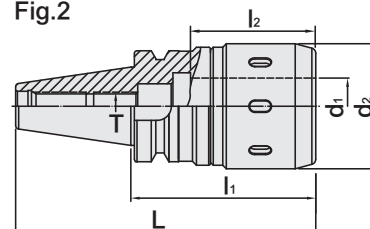


Fig.2



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



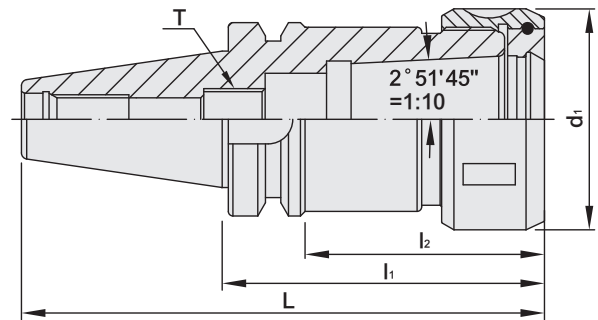
BT / EOC COLLET CHUCK

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



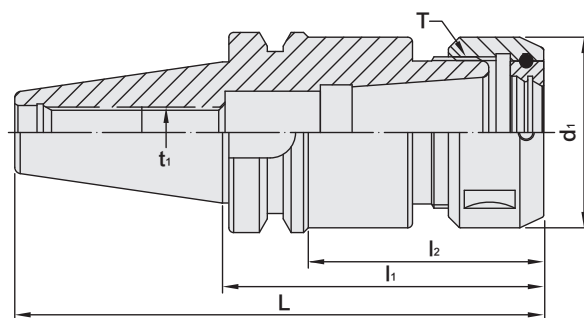
BT / TG COLLET CHUCK



BT / TG 立銑刀夾頭



TW PAT NO. M298033
 TW 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

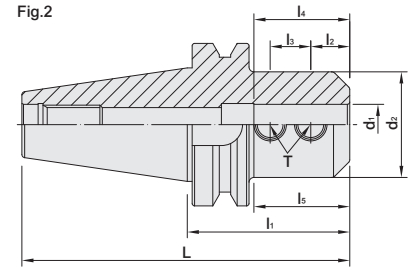
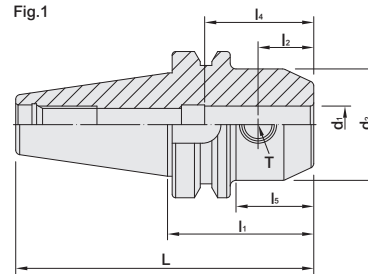


BT / SLN SIDE LOCK END MILL HOLDER

BT

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

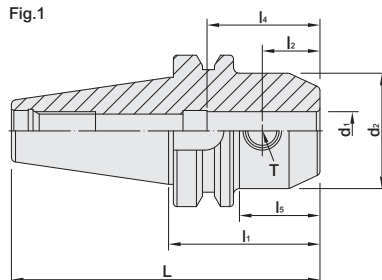
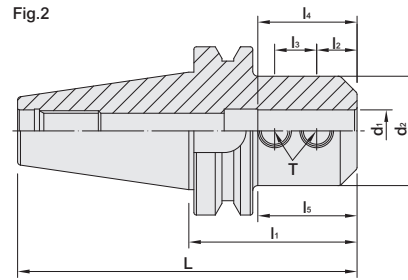


Fig.2



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

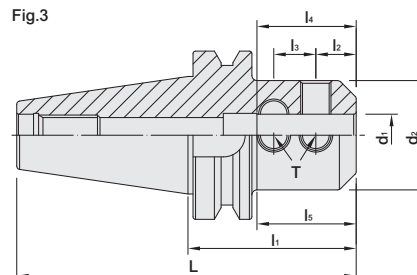
BT

BT / SLN 側固式立銑刀柄

[DIN 1835]



Fig.3



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.

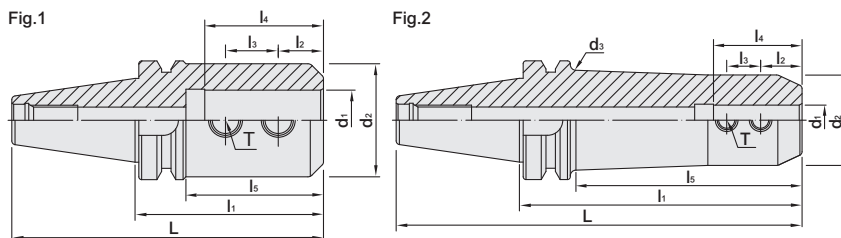
Pull Stud	Lock Screw
	
P.W-60~61	P.W-90



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

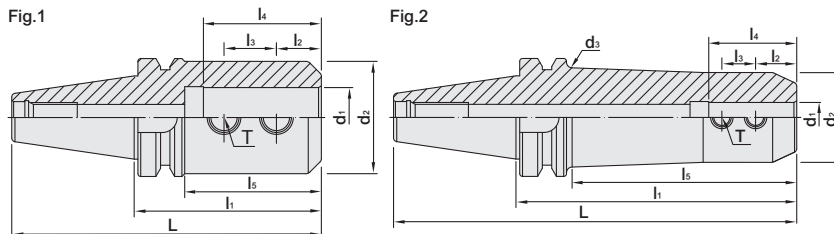


BT / SLN SIDE LOCK END MILL HOLDER

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

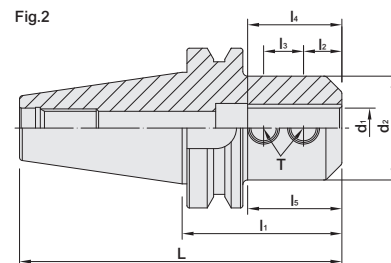
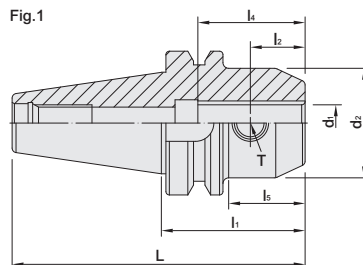
P.W-90



BT / SLN SIDE LOCK END MILL HOLDER

FID TYPE

BT / SLN 側固式立銑刀柄 [FID 型]



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

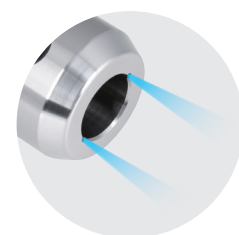


P.W-60~61

Lock Screw



P.W-90



BT / SLN SIDE LOCK END MILL HOLDER

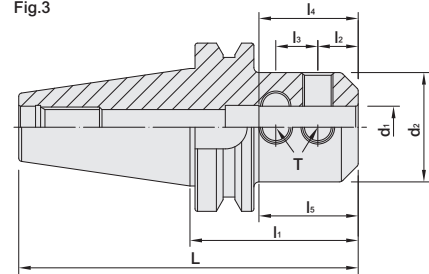
FID TYPE

BT

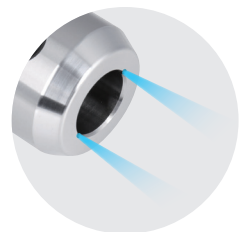
BT / SLN 側固式立銑刀柄 [FID 型]



Fig.3



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.

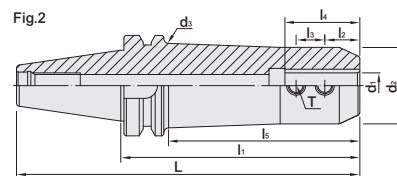
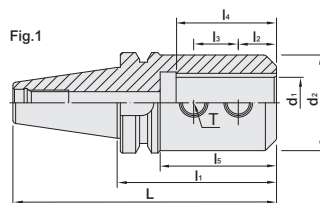
Pull Stud	Lock Screw
	
P.W-60~61	P.W-90



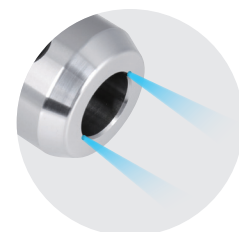
BT / SLN SIDE LOCK END MILL HOLDER

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]



Fig.1

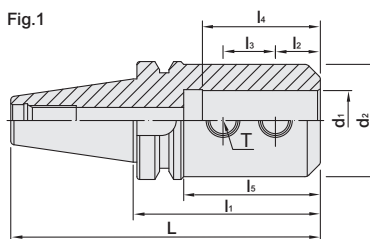
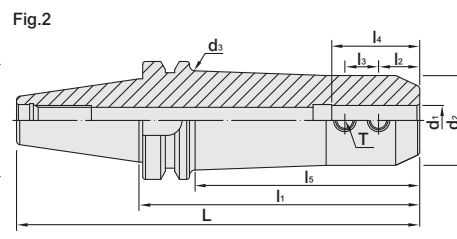


Fig.2



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.

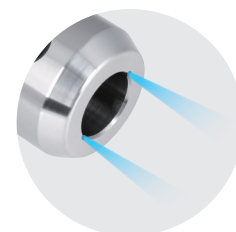
Pull Stud

Lock Screw



P.W-60~61

P.W-90

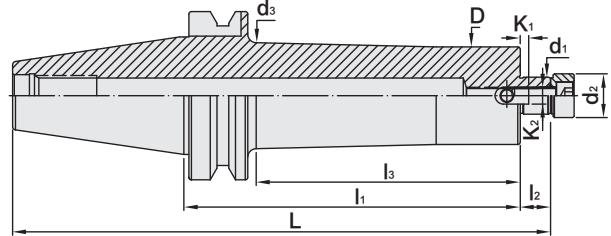


BT FACE MILL ARBOR

EXTENSION TYPE

BT

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.

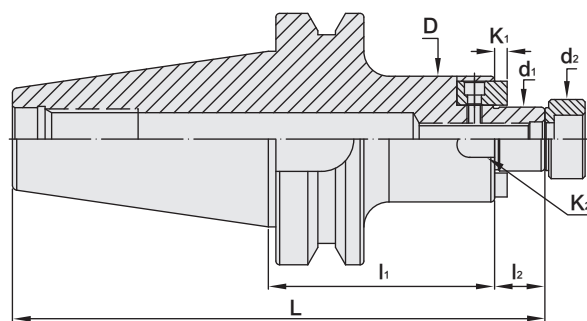
Pull Stud	Screw
	
P.W-60~61	P.W-90



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

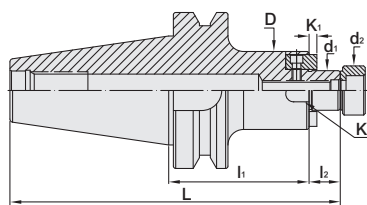
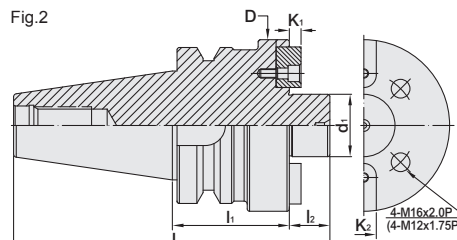


Fig.2



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.

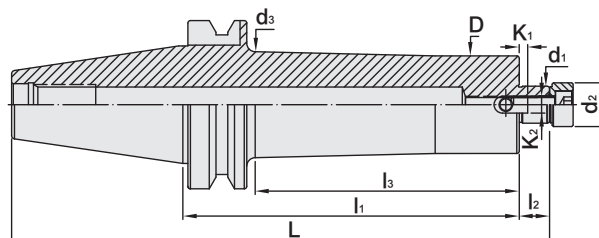
Pull Stud	Screw
	
P.W-60~61	P.W-90



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



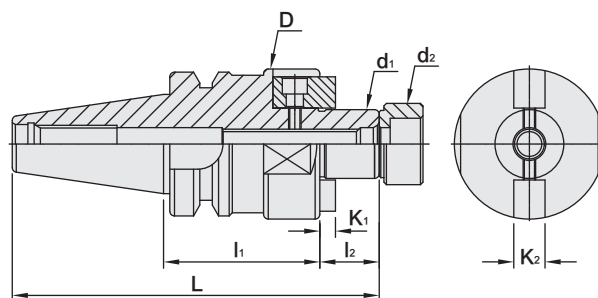
P.W-60~61

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.

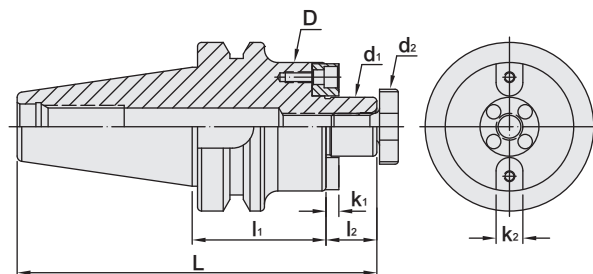
Pull Stud	Screw
	
P.W-60~61	P.W-90



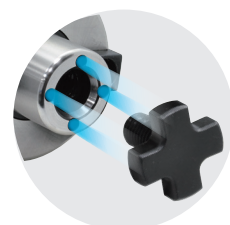
BT FACE MILL ARBOR

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

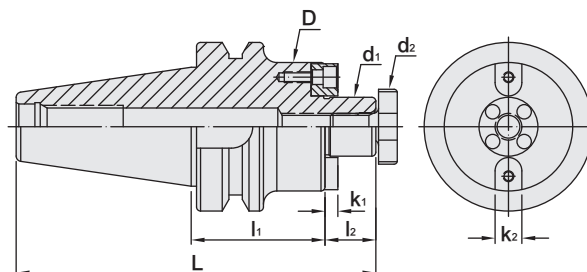
Nut	Pull Stud	Spanner
		
P.W-67	P.W-60~61	P.W-67

BT FACE MILL ARBOR

FMC TYPE

BT

BT / FMC 平面銑刀柄



INCHES

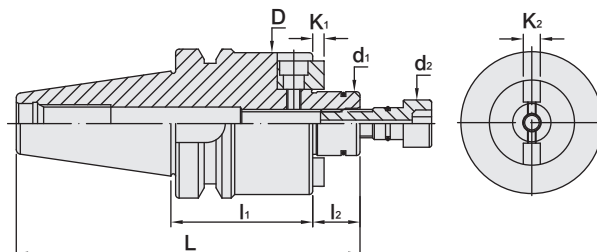
MODEL NO.	TYPE	L	l ₁	l ₂	D	d ₁	d ₂	K ₁	K ₂	WEIGHT (KGS)
11.157.66.045	BT40 x FMC22.225 - 45	127.4	45	17	47	22.225	28	3.5	8	1.50
11.157.66.060	BT40 x FMC22.225 - 60	142.4	60	17	47	22.225	28	3.5	8	1.80
11.157.66.090	BT40 x FMC22.225 - 90	172.4	90	17	47	22.225	28	3.5	8	2.50
11.157.68.060	BT40 x FMC25.4 - 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



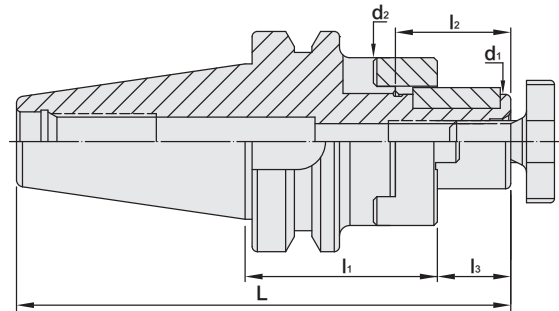
P.W-60~61



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.

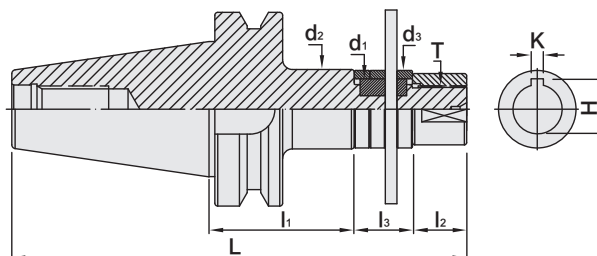
Standard Accessory: • KEY • REMOVABLE RING • NUT • SPANNER

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.

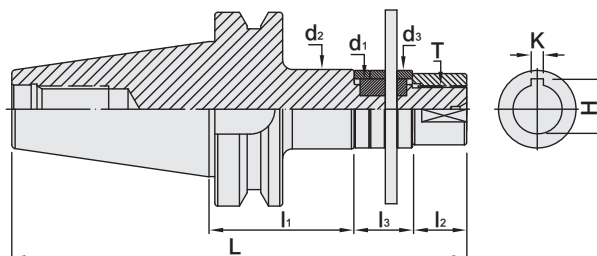
Pull Stud



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

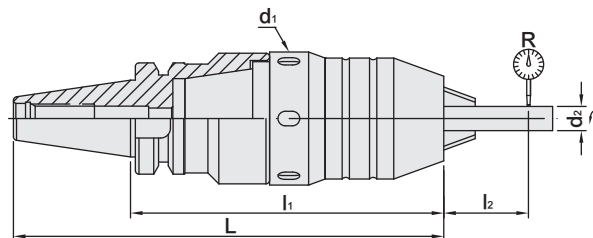


P.W-60~61

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

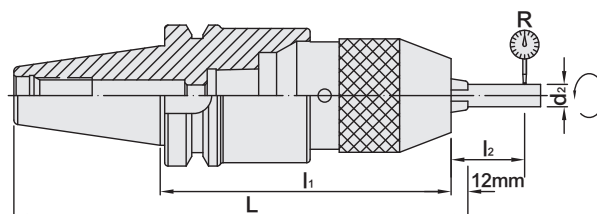


P.W-60~61



BT / SPU DRILL CHUCK ADAPTER

BT / 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:

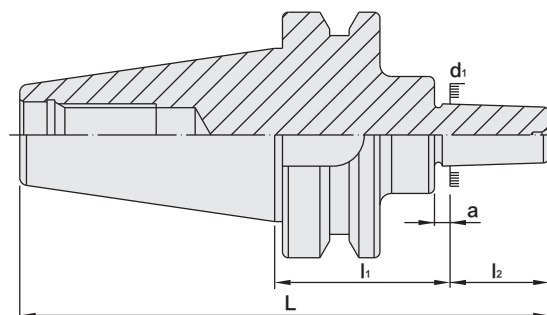
- ▶ The pre-balance reaches G6.3 8,000 rpm. Higher balancing grade and revolution can be done upon request but additional charge is needed.

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

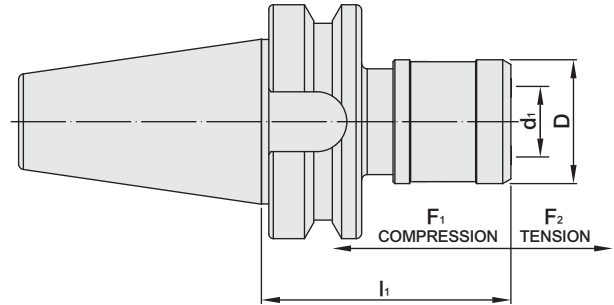


BT / QTC QUICK CHANGE TAPPING CHUCK

With length compensation on tension and compression

BT

BT / QTC 快換式扭力攻牙刀桿 [伸縮緩衝型]



MODEL NO.	TYPE	TAPPING COLLET	TAPPING CAPACITY	COMPENSATION		l ₁	D	d ₁	WEIGHT (KGS)
				F ₁	F ₂				
10.08.1B.070	BT30 x QTC1 - 70	TCS - 1B	M3 - M14	7.5	7.5	70	36	19	0.70
10.08.2B.105	BT30 x QTC2 - 105	TCS - 2B	M8 - M24	12.5	12.5	105	53	31	1.20
11.08.1B.075	BT40 x QTC1 - 75	TCS - 1B	M3 - M14	7.5	7.5	75	36	19	2.00
11.08.2B.095	BT40 x QTC2 - 95	TCS - 2B	M8 - M24	12.5	12.5	95	53	31	1.70
11.08.3B.160	BT40 x QTC3 - 160	TCS - 3B	M14 - M36	20	20	160	78	48	3.20
12.08.1B.085	BT50 x QTC1 - 85	TCS - 1B	M3 - M14	7.5	7.5	85	36	19	4.00
12.08.2B.105	BT50 x QTC2 - 105	TCS - 2B	M8 - M24	12.5	12.5	105	53	31	4.30
12.08.3B.150	BT50 x QTC3 - 150	TCS - 3B	M14 - M36	20	20	150	78	48	5.80

Features:

- ▶ Quick and easy tool change.
- ▶ Quick Change Tapping Chuck with length compensation and Tapping Collet with safety clutch device can increase tap life and improve tapping quality.

Application:

Quick Change Tapping Chuck with length compensation:

- ▶ Most commonly used for old CNC machines without rigid tapping. The length compensation prevents oversized threads and helps prevent tap breakage from excessive torque or over travel when the tap hits the bottom of the hole.
- ▶ Also ideal for high-end tapping applications in modern CNC machines, such as: small taps or difficult materials resulting in high torque loads.

Synchronized Tapping Holder:

- ▶ Ideal for everyday tapping, high speed and high production tapping for modern CNC machines capable of rigid tapping.

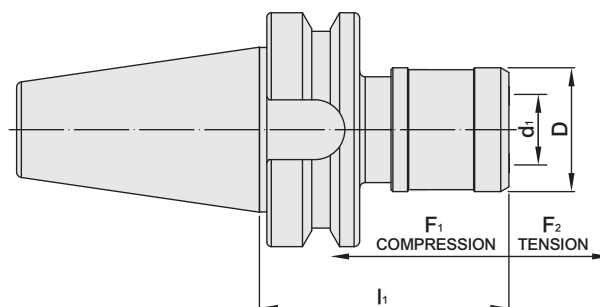
Tapping Collet	Pull Stud
	
P.A-55~56	P.W-60~61



BT / QTC QUICK CHANGE TAPPING CHUCK

With length compensation on tension and compression

BT / QTC 快換式扭力攻牙刀桿 [伸縮緩衝型]



MODEL NO.	TYPE	TAPPING COLLET	TAPPING CAPACITY	COMPENSATION		l ₁	D	d ₁	WEIGHT (KGS)
				F ₁	F ₂				
11.08.1B.135	BT40 x QTC1 - 135	TCS - 1B	M3 - M14	7.5	7.5	135	38	19	2.00
11.08.1B.165	BT40 x QTC1 - 165	TCS - 1B	M3 - M14	7.5	7.5	165	38	19	2.50
12.08.1B.135	BT50 x QTC1 - 135	TCS - 1B	M3 - M14	7.5	7.5	135	38	19	4.40
12.08.1B.165	BT50 x QTC1 - 165	TCS - 1B	M3 - M14	7.5	7.5	165	38	19	4.70
12.08.1B.195	BT50 x QTC1 - 195	TCS - 1B	M3 - M14	7.5	7.5	195	38	19	5.00
12.08.2B.135	BT50 x QTC2 - 135	TCS - 2B	M8 - M24	12.5	12.5	135	58	31	5.30
12.08.2B.165	BT50 x QTC2 - 165	TCS - 2B	M8 - M24	12.5	12.5	165	58	31	6.20
12.08.2B.195	BT50 x QTC2 - 195	TCS - 2B	M8 - M24	12.5	12.5	195	58	31	7.00
12.08.3B.200	BT50 x QTC3 - 200	TCS - 3B	M14 - M36	20	20	200	62	48	7.20

Features:

- ▶ Quick and easy tool change.
- ▶ Quick Change Tapping Chuck with length compensation and Tapping Collet with safety clutch device can increase tap life and improve tapping quality.

Application:

Quick Change Tapping Chuck with length compensation:

- ▶ Most commonly used for old CNC machines without rigid tapping. The length compensation prevents oversized threads and helps prevent tap breakage from excessive torque or over travel when the tap hits the bottom of the hole.
- ▶ Also ideal for high-end tapping applications in modern CNC machines, such as: small taps or difficult materials resulting in high torque loads.

Synchronized Tapping Holder:

- ▶ Ideal for everyday tapping, high speed and high production tapping for modern CNC machines capable of rigid tapping.

Tapping Collet	Pull Stud
	
P.A-55~56	P.W-60~61

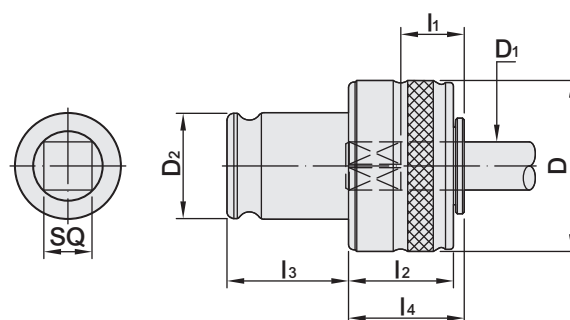


QUICK CHANGE TAPPING COLLET

With safety clutch

BT

快換式攻牙筒夾 [扭力型]



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

TCS - 1B

TYPE	D ₁	SQ	TAP	STANDARD	D	D ₂	l ₁	l ₂	l ₃	l ₄	WEIGHT (KGS)
TCS1B-2.24-1.8	2.24	1.8	M3.5	ISO529/2283	32	19	17	25	21.5	25	0.18
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-2.5-2.1	2.5	2.1	M1, M1.8	DIN371	32	19	17	25	21.5	25	0.18
	2.5	2.1	M3.5	DIN376	32	19	17	25	21.5	25	0.18
TCS1B-2.8-2.1	2.8	2.1	M2, M2.5	DIN371	32	19	17	25	21.5	25	0.18
	2.8	2.1	M4	DIN376	32	19	17	25	21.5	25	0.18
TCS1B-2.8-2.24	2.8	2.24	M2.2, M2.5	ISO529	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	DIN376	32	19	17	25	21.5	25	0.18
	3.5	2.7	M5	DIN376	32	19	17	25	21.5	25	0.18
TCS1B-3.55-2.8	3.55	2.8	M3.5	ISO529	32	19	17	25	21.5	25	0.18
	3.55	2.8	M4.5	ISO529/2283	32	19	17	25	21.5	25	0.18
TCS1B-4-3	4	3	M3.5	DIN371	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.#8	JIS	32	19	17	25	21.5	25	0.18
	5	4	M5	ISO529	32	19	17	25	21.5	25	0.18
TCS1B-5.5-4.3	5.5	4.3	M7	DIN376	32	19	17	25	21.5	25	0.18
TCS1B-5.5-4.5	5.5	4.5	M5.M5.5.#10	JIS	32	19	17	25	21.5	25	0.18
TCS1B-5.6-4.5	5.6	4.5	M7	ISO529/2283	32	19	17	25	21.5	25	0.18
TCS1B-6-4.5	6	4.5	M6.UNC1/4	JIS	32	19	17	25	21.5	25	0.18
TCS1B-6-4.9	6	4.9	M4.5	DIN371	32	19	17	25	21.5	25	0.18
	6	4.9	M5	DIN371	32	19	17	25	21.5	25	0.18
	6	4.9	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



TYPE	D ₁	SQ	TAP	STANDARD	D	D ₂	I ₁	I ₂	I ₃	I ₄	WEIGHT (KGS)
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.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-7.1-5.6	7.1	5.6	M7	ISO529	32	19	17	25	21.5	25	0.18
	7.1	5.6	M9	ISO529/2283	32	19	17	25	21.5	25	0.18
TCS1B-8-6	8	6	M11.UNC7/16	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
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.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

TCS - 2B

TCS2B-5.5-4.5	5.5	4.5	M5.5, M5, #10	JIS	50	31	30	31	35.5	33	0.55
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	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-6.1-5	6.1	5	UNC5/16	JIS	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.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-7.1-5.6	7.1	5.6	M7	ISO529	50	31	30	31	35.5	33	0.55
	7.1	5.6	M9	ISO529/2283	50	31	30	31	35.5	33	0.55
TCS2B-8-6	8	6	M11.UNC7/16	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.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
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-13-10	13	10	M17	JIS	50	31	30	31	35.5	33	0.55
TCS2B-14-11	14	11	M18.UNC3/4	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	ISO529/2283	50	31	30	31	35.5	33	0.55
	14	11.2	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.UNC7/8	JIS	50	31	30	31	35.5	33	0.55



TYPE	D ₁	SQ	TAP	STANDARD	D	D ₂	I ₁	I ₂	I ₃	I ₄	WEIGHT (KGS)
TCS2B-18-14	18	14	M24	ISO529/2283	50	31	30	31	35.5	33	0.55
TCS2B-18-14.5	18	14.5	M22	DIN376	50	31	30	31	35.5	33	0.55
	18	14.5	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
TCS3B-10.5-8	10.5	8	M14.M15.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
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-13-10	13	10	M17	JIS	72	48	44	41	55.5	45	1.58
TCS3B-14-11	14	11	M18.UNC3/4	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	ISO529/2283	72	48	44	41	55.5	45	1.58
	14	11.2	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.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
TCS3B-18-14.5	18	14.5	M22	DIN376	72	48	44	41	55.5	45	1.58
	18	14.5	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.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	ISO529/2283	72	48	44	41	55.5	45	1.58
	20	16	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-22-17	22	17	UNC1-1/8	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
TCS3B-24-19	24	19	M32.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.UNC1-3/8	JIS	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.



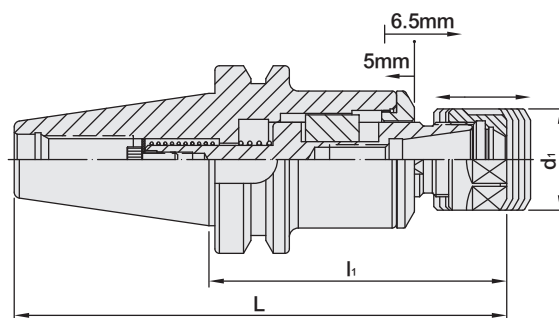
BT / ETP EXPANSION ER TAPPER



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	l ₁	d ₁	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

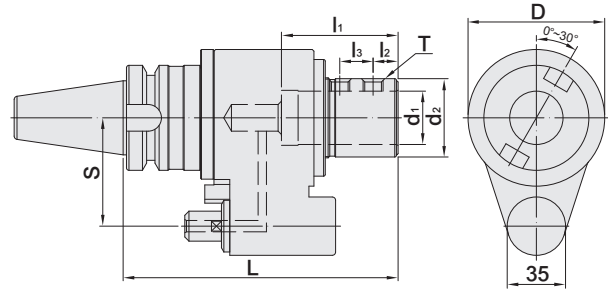
Collet	Nut	Pull Stud	Preset Screw	Spanner
P.W-7~10,20~25	P.W-48	P.W-60~61	P.W-88	P.W-68~71



BT / OSL SIDE LOCK OIL HOLE HOLDER

BT

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



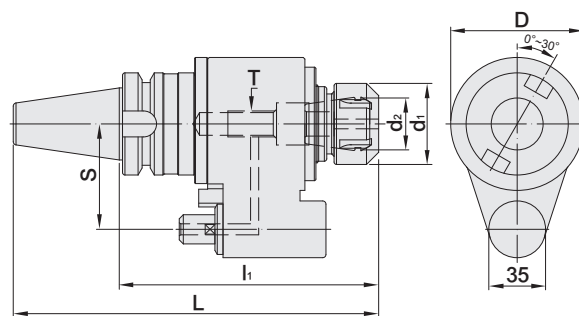
BT / OHER OIL HOLE COLLET CHUCK



BT / 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	I ₁	D	d ₁	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.

Product information:

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

Standard Accessory: • NUT

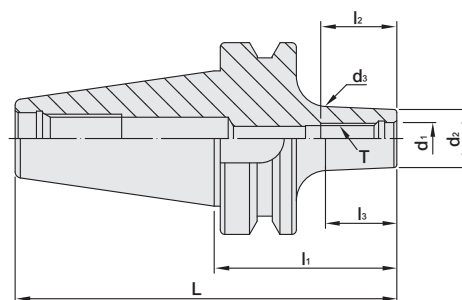
Collet	Nut	Fixed Block	Pull Stud	Preset Screw	Spanner
P.W-7~17	P.W-48,51	P.W-94	P.W-60~61	P.W-88	P.W-68~71



BT / SOM SCREWED END MILL HOLDER

BT

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 / MTA 斜柄鑽頭套筒

(DIN 228-B)



Fig.1

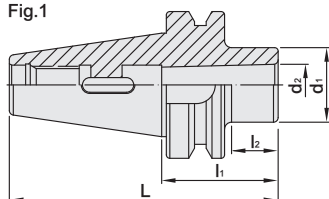
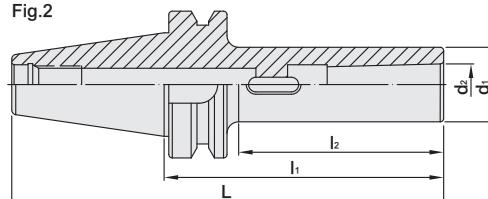


Fig.2



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



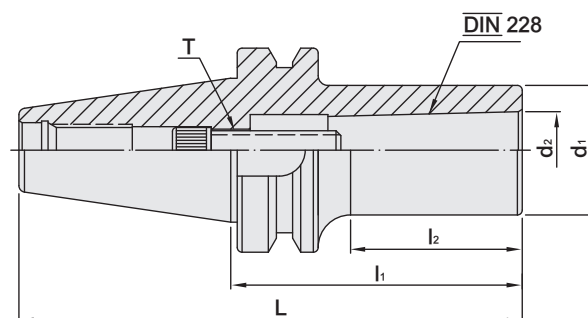
BT / MTB MORSE TAPER ADAPTER

DRAW BAR TYPE

BT

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



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BT ADAPTER

BT 套筒



Fig.1

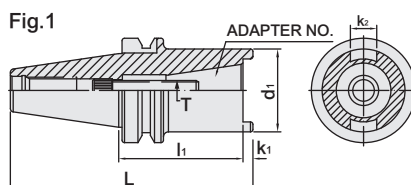
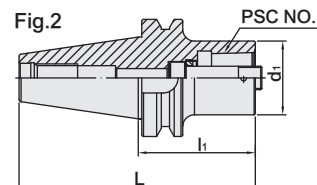


Fig.2



MODEL NO.	TYPE	NO.	L	l ₁	d ₁	k ₁	k ₂	T	MAX. TORQUE		Fig	WEIGHT (KGS)
									Nm	ft-lbs		
19710	BT40 x TSA30M - 75	#30	146.4	75	50	6	15.9	M12 x 1.75P	45	33	1	1.80
19712	BT40 x TSA30U - 75	#30	146.4	75	50	6	15.9	1/2" - 12	45	33	1	1.80
11.501.32.030	BT40 x PSC32 - 30	PSC32	95.4	30	32	-	-	M12 x 1.5P	45	33	2	1.60
11.501.40.030	BT40 x PSC40 - 30	PSC40	95.4	30	40	-	-	M14 x 1.5P	55	40	2	1.60
11.501.50.030	BT40 x PSC50 - 30	PSC50	95.4	30	50	-	-	M16 x 1.5P	95	70	2	1.60
11.501.63.075	BT40 x PSC63 - 75	PSC63	140.4	75	63	-	-	M20 x 2.0P	170	125	2	1.80
11.501.80.135	BT40 x PSC80 - 135	PSC80	200.4	135	80	-	-	M20 x 2.0P	170	125	2	3.78
19722	BT50 x TSA30M - 75	#30	182.8	75	50	6	15.9	M12 x 1.75P	45	33	1	5.00
19724	BT50 x TSA30U - 75	#30	182.8	75	85	6	15.9	1/2" - 12	45	33	1	5.00
19726	BT50 x TSA40M - 75	#40	184.8	75	85	8	15.9	M16 x 2.0P	55	40	1	4.60
19728	BT50 x TSA40U - 75	#40	184.8	75	85	8	15.9	5/8" - 11	55	40	1	4.60
12.501.32.040	BT50 x PSC32 - 40	PSC32	141.8	40	32	-	-	M12 x 1.5P	45	33	2	4.60
12.501.40.040	BT50 x PSC40 - 40	PSC40	141.8	40	40	-	-	M14 x 1.5P	55	40	2	4.60
12.501.50.040	BT50 x PSC50 - 40	PSC50	141.8	40	50	-	-	M16 x 1.5P	95	70	2	4.60
12.501.63.100	BT50 x PSC63 - 100	PSC63	201.8	100	63	-	-	M20 x 2.0P	170	125	2	5.00
12.501.63.150	BT50 x PSC63 - 150	PSC63	251.8	150	63	-	-	M20 x 2.0P	170	125	2	5.93
12.501.63.200	BT50 x PSC63 - 200	PSC63	301.8	200	63	-	-	M20 x 2.0P	170	125	2	6.99
12.501.63.250	BT50 x PSC63 - 250	PSC63	351.8	250	63	-	-	M20 x 2.0P	170	125	2	8.06
12.501.63.300	BT50 x PSC63 - 300	PSC63	401.8	300	63	-	-	M20 x 2.0P	170	125	2	8.91
12.501.80.070	BT50 x PSC80 - 70	PSC80	171.8	70	80	-	-	M20 x 2.0P	170	125	2	3.86
12.501.80.120	BT50 x PSC80 - 120	PSC80	221.8	120	80	-	-	M20 x 2.0P	170	125	2	5.67

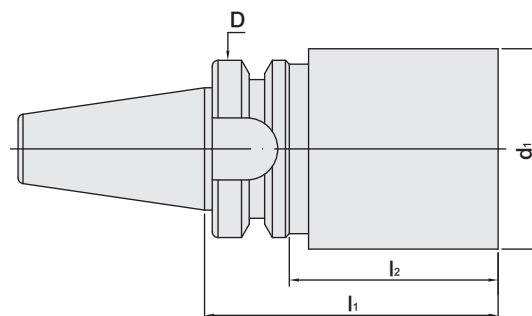
Pull Stud



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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



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