

BT CATEGORY

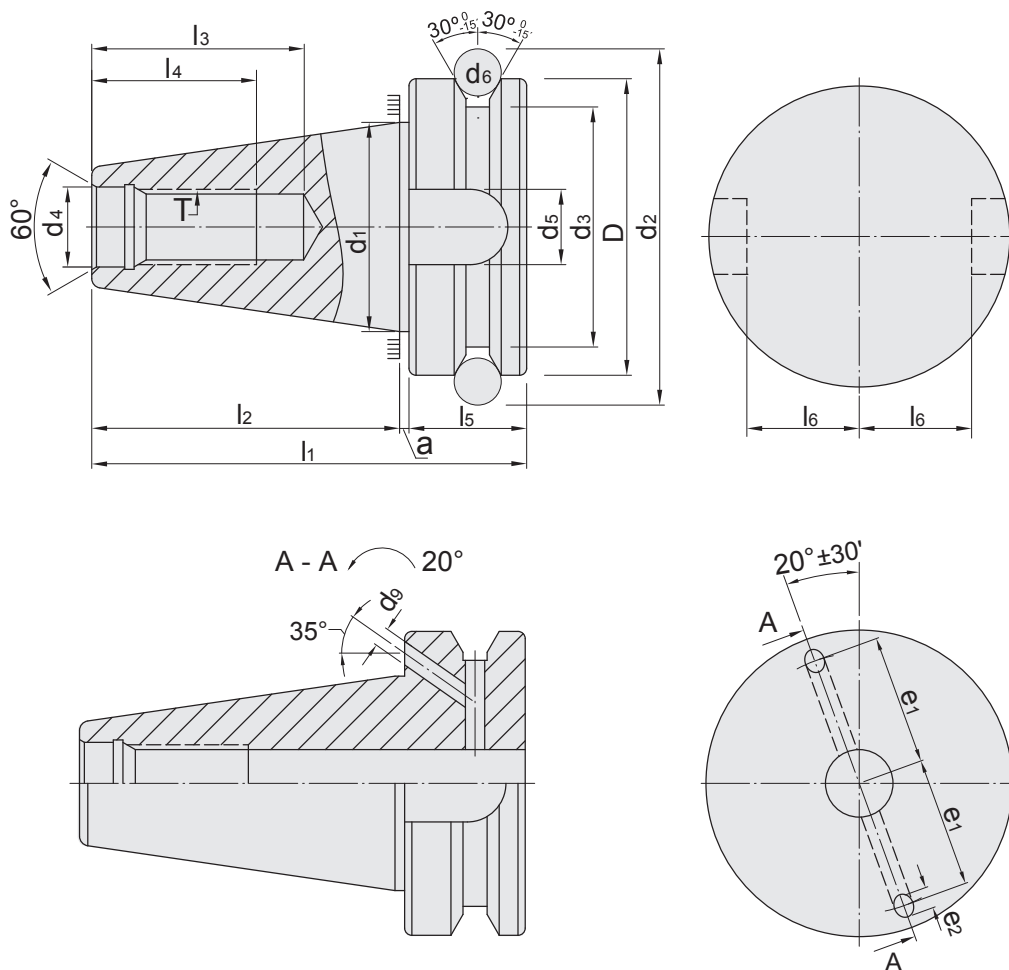
ISO 7388-2 & MAS 403

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REFERENCE DETAILS

- ▶ Shank body standard : **ISO 7388-2 & 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

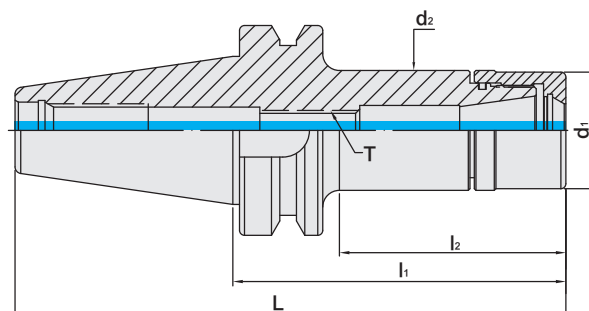
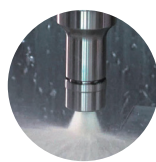


BT	D h8	d ₁	d ₂	d ₃	d ₄ H8	d ₅ H12	d ₆	d ₉ H12	a ±0.4
30	46	31.75	56.14	38	12.5	16.1	8	-	2
40	63	44.45	75.679	53	17	16.1	10	4	2
50	100	69.85	119.02	85	25	25.7	15	6	3
BT	l ₁	l ₂ ±0.2	l ₃ min	l ₄ min	l ₅	l ₆ 0 -0.2	e ₁ ±0.1	e ₂ MAX	T 6H
30	70.4	48.4	34	24	20	16.3	-	-	M12 x 1.75P
40	92.4	65.4	43	30	25	22.6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

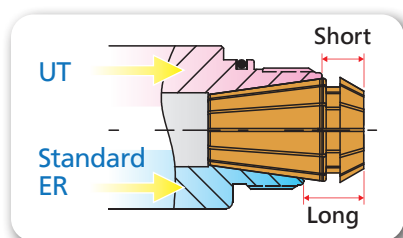
BT / UT COLLET CHUCK



BT / UT 立銑刀夾頭



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	SIZE RANGE	WEIGHT (KGS)
5010-753-016-070	BT30 x UT16 - 70	118.4	70	43	30	30	M10 x 1.5P	1 ~ 10	0.58
5010-753-016-100	BT30 x UT16 - 100	148.4	100	73	30	30	M10 x 1.5P	1 ~ 10	0.72
5010-753-016-125	BT30 x UT16 - 125	173.4	125	98	30	30	M10 x 1.5P	1 ~ 10	0.84
5010-753-016-150	BT30 x UT16 - 150	198.4	150	123	30	30	M10 x 1.5P	1 ~ 10	0.96
5010-753-020-070	BT30 x UT20 - 70	118.4	70	47	35	36	M12 x 1.75P	1 ~ 13	0.63
5010-753-020-100	BT30 x UT20 - 100	148.4	100	77	35	36	M12 x 1.75P	1 ~ 13	0.85
5010-753-020-125	BT30 x UT20 - 125	173.4	125	102	35	36	M12 x 1.75P	1 ~ 13	1.03
5010-753-020-150	BT30 x UT20 - 150	198.4	150	127	35	36	M12 x 1.75P	1 ~ 13	1.21
5010-753-025-070	BT30 x UT25 - 70	118.4	70	46	42	42	M16 x 2.0P	1 ~ 16	0.70
5010-753-025-100	BT30 x UT25 - 100	148.4	100	76	42	42	M16 x 2.0P	1 ~ 16	1.00
5010-753-025-150	BT30 x UT25 - 150	198.4	150	126	42	42	M16 x 2.0P	1 ~ 16	1.49
5010-753-032-070	BT30 x UT32 - 70	118.4	70	47.5	48	48	M16 x 2.0P	2 ~ 20	0.71
5010-753-032-100	BT30 x UT32 - 100	148.4	100	77.5	48	48	M16 x 2.0P	2 ~ 20	1.08
5010-753-032-125	BT30 x UT32 - 125	173.4	125	102.5	48	48	M16 x 2.0P	2 ~ 20	1.38
5010-753-032-150	BT30 x UT32 - 150	198.4	150	127.5	48	48	M16 x 2.0P	2 ~ 20	1.74



Features:

- ▶ The deeper holder gauge line optimizes the coverage of ER spring collet and increases machining stability.
- ▶ UT clamping nut is designed without eccentric. Used with ER and ERE spring collets.
- ▶ The O-ring design on the front of holders prevents chips and coolant from entering holders
- ▶ UT nuts without slots reduce the wind shear at high speed.

Product information:

- ▶ MAS/BT30 tool holders are without coolant supply over collars.

Standard Accessory: • NUT

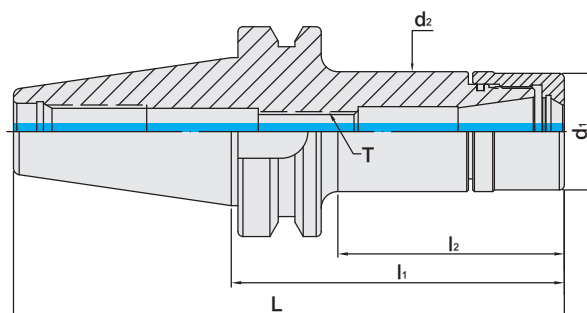
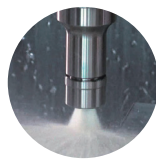
Collet	Nut	Pull Stud	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Preset Screw
P.X-19~22	P.X-61	P.X-72~73	P.X-81,83~84,91	P.X-85	P.X-86	P.X-121



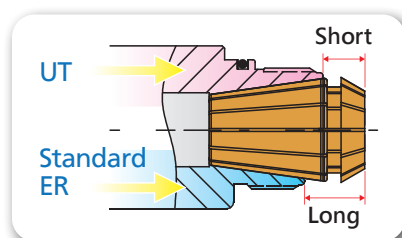
BT / UT COLLET CHUCK



BT / UT 立銑刀夾頭



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	SIZE RANGE	WEIGHT (KGS)
5011-753-016-070	BT40 x UT16 - 70	135.4	70	40	30	30	M10 x 1.5P	1 ~ 10	1.13
5011-753-016-100	BT40 x UT16 - 100	165.4	100	63	30	30	M10 x 1.5P	1 ~ 10	1.27
5011-753-016-125	BT40 x UT16 - 125	190.4	125	88	30	30	M10 x 1.5P	1 ~ 10	1.38
5011-753-016-150	BT40 x UT16 - 150	215.4	150	113	30	30	M10 x 1.5P	1 ~ 10	1.49
5011-753-020-070	BT40 x UT20 - 70	135.4	70	38	35	36	M12 x 1.75P	1 ~ 13	1.17
5011-753-020-100	BT40 x UT20 - 100	165.4	100	68	35	36	M12 x 1.75P	1 ~ 13	1.38
5011-753-020-125	BT40 x UT20 - 125	190.4	125	93	35	36	M12 x 1.75P	1 ~ 13	1.54
5011-753-020-150	BT40 x UT20 - 150	215.4	150	118	35	36	M12 x 1.75P	1 ~ 13	1.71
5011-753-025-070	BT40 x UT25 - 70	135.4	70	40	42	42	M16 x 2.0P	1 ~ 16	1.22
5011-753-025-100	BT40 x UT25 - 100	165.4	100	70	42	42	M16 x 2.0P	1 ~ 16	1.50
5011-753-025-150	BT40 x UT25 - 150	215.4	150	120	42	42	M16 x 2.0P	1 ~ 16	1.97
5011-753-032-070	BT40 x UT32 - 70	135.4	70	40	48	48	M16 x 2.0P	2 ~ 20	1.23
5011-753-032-100	BT40 x UT32 - 100	165.4	100	70	48	48	M16 x 2.0P	2 ~ 20	1.61
5011-753-032-125	BT40 x UT32 - 125	190.4	125	95	48	48	M16 x 2.0P	2 ~ 20	1.93
5011-753-032-150	BT40 x UT32 - 150	215.4	150	120	48	48	M16 x 2.0P	2 ~ 20	2.25



Features:

- ▶ The deeper holder gauge line optimizes the coverage of ER spring collet and increases machining stability.
- ▶ UT clamping nut is designed without eccentric. Used with ER and ERE spring collets.
- ▶ The O-ring design on the front of holders prevents chips and coolant from entering holders
- ▶ UT nuts without slots reduce the wind shear at high speed.

Product information:

- ▶ AD+B type is available, please inform us when making an order.

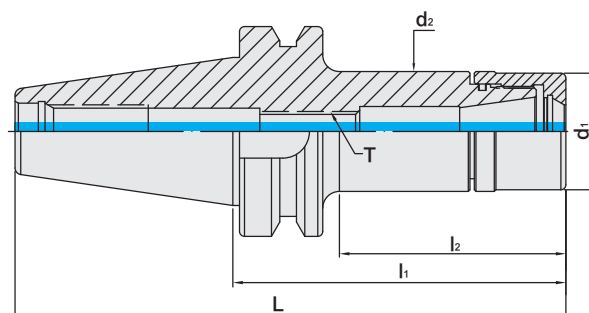
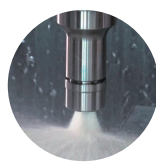
Standard Accessory: • NUT

Collet	Nut	Pull Stud	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Preset Screw
P.X-19~22	P.X-61	P.X-72~73	P.X-81,83~84,91	P.X-85	P.X-86	P.X-121

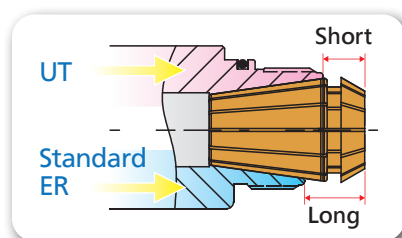
BT / UT COLLET CHUCK



BT / UT 立銑刀夾頭



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	SIZE RANGE	WEIGHT (KGS)
5012-753-016-070	BT50 x UT16 - 70	171.8	70	29	30	30	M10 x 1.5P	1 ~ 10	3.64
5012-753-016-100	BT50 x UT16 - 100	201.8	100	52	30	30	M10 x 1.5P	1 ~ 10	3.74
5012-753-016-125	BT50 x UT16 - 125	226.8	125	77	30	30	M10 x 1.5P	1 ~ 10	3.92
5012-753-016-150	BT50 x UT16 - 150	251.8	150	102	30	30	M10 x 1.5P	1 ~ 10	4.00
5012-753-020-070	BT50 x UT20 - 70	171.8	70	31.6	35	36	M12 x 1.75P	1 ~ 13	3.68
5012-753-020-100	BT50 x UT20 - 100	201.8	100	52	35	36	M12 x 1.75P	1 ~ 13	3.86
5012-753-020-125	BT50 x UT20 - 125	226.8	125	77	35	36	M12 x 1.75P	1 ~ 13	3.99
5012-753-020-150	BT50 x UT20 - 150	251.8	150	102	35	36	M12 x 1.75P	1 ~ 13	4.24
5012-753-025-070	BT50 x UT25 - 70	171.8	70	31.6	42	42	M16 x 2.0P	1 ~ 16	3.70
5012-753-025-100	BT50 x UT25 - 100	201.8	100	52	42	42	M16 x 2.0P	1 ~ 16	4.01
5012-753-025-150	BT50 x UT25 - 150	251.8	150	102	42	42	M16 x 2.0P	1 ~ 16	4.36
5012-753-032-080	BT50 x UT32 - 80	181.8	80	41	48	48	M16 x 2.0P	2 ~ 20	3.80
5012-753-032-100	BT50 x UT32 - 100	201.8	100	57	48	48	M16 x 2.0P	2 ~ 20	4.03
5012-753-032-125	BT50 x UT32 - 125	226.8	125	82	48	48	M16 x 2.0P	2 ~ 20	4.31
5012-753-032-150	BT50 x UT32 - 150	251.8	150	102	48	48	M16 x 2.0P	2 ~ 20	4.62



Features:

- ▶ The deeper holder gauge line optimizes the coverage of ER spring collet and increases machining stability.
- ▶ UT clamping nut is designed without eccentric. Used with ER and ERE spring collets.
- ▶ The O-ring design on the front of holders prevents chips and coolant from entering holders
- ▶ UT nuts without slots reduce the wind shear at high speed.

Product information:

- ▶ AD+B type is available, please inform us when making an order.

Standard Accessory: • NUT

Collet	Nut	Pull Stud	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Preset Screw
P.X-19~22	P.X-61	P.X-72~73	P.X-81,83~84,91	P.X-85	P.X-86	P.X-121

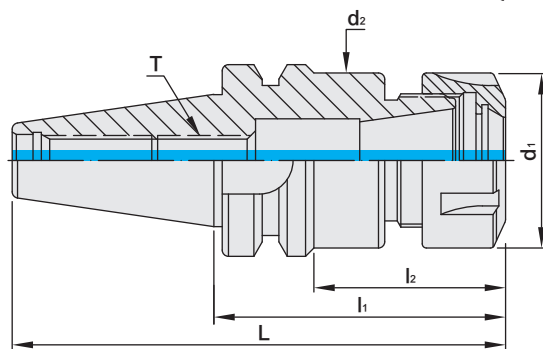


BT / ER TOOL HOLDER



BT / ER 刀桿

(ISO 15488)



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	SIZE RANGE	WEIGHT (KGS)
5010-108-016-050	BT30 x ER16A - 50	98.4	50	27	28	25.1	M10 x 1.5P	1 ~ 10	0.45
5010-108-016-060	BT30 x ER16A - 60	108.4	60	35	28	28	M10 x 1.5P	1 ~ 10	0.60
5010-108-016-070	BT30 x ER16A - 70	118.4	70	40	28	28	M10 x 1.5P	1 ~ 10	0.55
5010-108-016-080	BT30 x ER16A - 80	128.4	80	50	28	28	M10 x 1.5P	1 ~ 10	0.57
5010-108-016-090	BT30 x ER16A - 90	138.4	90	60	28	28	M10 x 1.5P	1 ~ 10	0.12
5010-108-016-100	BT30 x ER16A - 100	148.4	100	70	28	28	M10 x 1.5P	1 ~ 10	0.70
5010-108-016-120	BT30 x ER16A - 120	168.4	120	93	28	28	M10 x 1.5P	1 ~ 10	0.78
5010-108-020-050	BT30 x ER20A - 50	98.4	50	28	34	-	M12 x 1.75P	1 ~ 13	0.48
5010-108-020-060	BT30 x ER20A - 60	108.4	60	35	34	34	M12 x 1.75P	1 ~ 13	0.54
5010-108-020-070	BT30 x ER20A - 70	118.4	70	45	34	34	M12 x 1.75P	1 ~ 13	0.62
5010-108-020-080	BT30 x ER20A - 80	128.4	80	55	34	34	M12 x 1.75P	1 ~ 13	0.66
5010-108-020-090	BT30 x ER20A - 90	138.4	90	65	34	34	M12 x 1.75P	1 ~ 13	0.14
5010-108-020-135	BT30 x ER20A - 135	183.4	135	110	34	34	M12 x 1.75P	1 ~ 13	1.10
5010-110-025-060	BT30 x ER25 - 60	108.4	60	36	42	42	M16 x 2.0P	1 ~ 16	0.46
5010-110-025-070	BT30 x ER25 - 70	118.4	70	46	42	42	M16 x 2.0P	1 ~ 16	0.70
5010-110-025-080	BT30 x ER25 - 80	128.4	80	56	42	42	M16 x 2.0P	1 ~ 16	0.72
5010-110-025-090	BT30 x ER25 - 90	138.4	90	66	42	42	M16 x 2.0P	1 ~ 16	0.24
5010-110-025-100	BT30 x ER25 - 100	148.4	100	76	42	42	M16 x 2.0P	1 ~ 16	1.20
5010-110-025-135	BT30 x ER25 - 135	183.4	135	111	42	42	M16 x 2.0P	1 ~ 16	1.45
5010-110-032-060	BT30 x ER32 - 60	108.4	60	38	50	45	M16 x 2.0P	2 ~ 20	0.65
5010-110-032-070	BT30 x ER32 - 70	118.4	70	48	50	45	M16 x 2.0P	2 ~ 20	0.70
5010-110-032-090	BT30 x ER32 - 90	138.4	90	67.5	50	45	M16 x 2.0P	2 ~ 20	0.30
5010-110-032-100	BT30 x ER32 - 100	148.4	100	78	50	45	M16 x 2.0P	2 ~ 20	1.00
5010-110-040-080	BT30 x ER40 - 80	128.4	80	58	63	53	M16 x 2.0P	3 ~ 26	1.10
5010-110-040-090	BT30 x ER40 - 90	138.4	90	67	63	53	M16 x 2.0P	3 ~ 26	0.40

Features:

- ▶ This ER tool holder has superior flexibility for use with all tool types, e.g. drills, taps, mills, reamers.
- ▶ It is recommended to tighten the clamping nuts using a torque wrench. Refer to the catalogue page of ER POWER GOOD NUT for the info. of recommended tightening torque.

Product information:

- ▶ MAS/BT30 tool holders are without coolant supply over collars.

Standard Accessory: • NUT

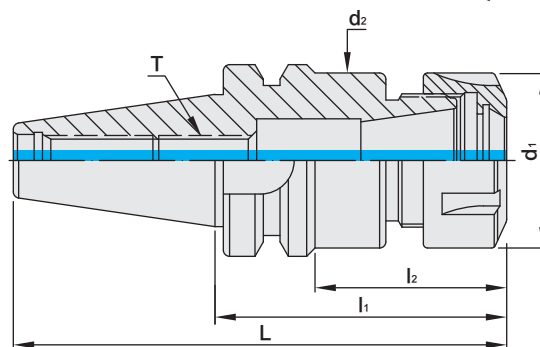
Collet	Nut	Pull Stud	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Preset Screw
P.X-19~45	P.X-63,65~67	P.X-72~73	P.X-81~84,87~88,91	P.X-85	P.X-86	P.X-121

BT / ER TOOL HOLDER



BT / ER 刀桿

(ISO 15488)



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	SIZE RANGE	WEIGHT (KGS)
5011-108-016-070	BT40 x ER16A - 70	135.4	70	40	28	28	M10 x 1.5P	1 ~ 10	1.20
5011-108-016-090	BT40 x ER16A - 90	155.4	90	60.5	28	28	M10 x 1.5P	1 ~ 10	1.16
5011-108-016-100	BT40 x ER16A - 100	165.4	100	63	28	28	M10 x 1.5P	1 ~ 10	1.30
5011-108-016-120	BT40 x ER16A - 120	185.4	120	83	28	28	M10 x 1.5P	1 ~ 10	1.28
5011-108-016-125	BT40 x ER16A - 125	190.4	125	88	28	28	M10 x 1.5P	1 ~ 10	1.36
5011-108-016-150	BT40 x ER16A - 150	215.4	150	113	28	28	M10 x 1.5P	1 ~ 10	1.54
5011-108-016-180	BT40 x ER16A - 180	245.4	180	143	28	28	M10 x 1.5P	1 ~ 10	2.00
5011-108-016-200	BT40 x ER16A - 200	265.4	200	163	28	28	M10 x 1.5P	1 ~ 10	1.57
5011-108-020-070	BT40 x ER20A - 70	135.4	70	40	34	34	M12 x 1.75P	1 ~ 13	1.20
5011-108-020-090	BT40 x ER20A - 90	155.4	90	53	34	34	M12 x 1.75P	1 ~ 13	1.28
5011-108-020-100	BT40 x ER20A - 100	165.4	100	63	34	34	M12 x 1.75P	1 ~ 13	1.80
5011-108-020-120	BT40 x ER20A - 120	185.4	120	83	34	34	M12 x 1.75P	1 ~ 13	1.46
5011-108-020-135	BT40 x ER20A - 135	200.4	135	98	34	34	M12 x 1.75P	1 ~ 13	1.70
5011-108-020-150	BT40 x ER20A - 150	215.4	150	113	34	34	M12 x 1.75P	1 ~ 13	1.80
5011-108-020-200	BT40 x ER20A - 200	265.4	200	163	34	34	M12 x 1.75P	1 ~ 13	1.87
5011-108-020-250	BT40 x ER20A - 250	315.4	250	213	34	34	M12 x 1.75P	1 ~ 13	2.17
5011-110-025-070	BT40 x ER25 - 70	135.4	70	40	42	42	M16 x 2.0P	1 ~ 16	1.30
5011-110-025-090	BT40 x ER25 - 90	155.4	90	60	42	42	M16 x 2.0P	1 ~ 16	1.34
5011-110-025-100	BT40 x ER25 - 100	165.4	100	70	42	42	M16 x 2.0P	1 ~ 16	1.50
5011-110-025-120	BT40 x ER25 - 120	185.4	120	90	42	42	M16 x 2.0P	1 ~ 16	1.67
5011-110-025-125	BT40 x ER25 - 125	190.4	125	95	42	42	M16 x 2.0P	1 ~ 16	1.80
5011-110-025-150	BT40 x ER25 - 150	215.4	150	115	42	42	M16 x 2.0P	1 ~ 16	2.10
5011-110-025-200	BT40 x ER25 - 200	265.4	200	165	42	42	M16 x 2.0P	1 ~ 16	2.32
5011-110-025-250	BT40 x ER25 - 250	315.4	250	215	42	42	M16 x 2.0P	1 ~ 16	2.92

Features:

- ▶ This ER tool holder has superior flexibility for use with all tool types, e.g. drills, taps, mills, reamers.
- ▶ It is recommended to tighten the clamping nuts using a torque wrench. Refer to the catalogue page of ER POWER GOOD NUT for the info. of recommended tightening torque.

Product information:

- ▶ AD+B type is available, please inform us when making an order.

Standard Accessory: • NUT

Collet	Nut	Pull Stud	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Preset Screw
P.X-19~45	P.X-63,65~67	P.X-72~73	P.X-81~84,87~88,91	P.X-85	P.X-86	P.X-121

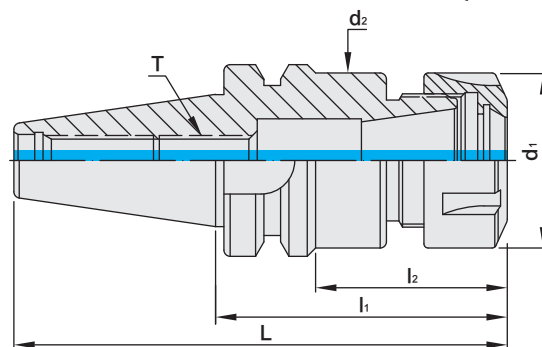


BT / ER TOOL HOLDER



BT / ER 刀桿

(ISO 15488)



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	SIZE RANGE	WEIGHT (KGS)
5011-110-032-070	BT40 x ER32 - 70	135.4	70	40	50	50	M16 x 2.0P	2 ~ 20	1.30
5011-110-032-090	BT40 x ER32 - 90	155.4	90	60	50	50	M16 x 2.0P	2 ~ 20	1.48
5011-110-032-100	BT40 x ER32 - 100	165.4	100	70	50	50	M16 x 2.0P	2 ~ 20	1.70
5011-110-032-120	BT40 x ER32 - 120	185.4	120	90	50	50	M16 x 2.0P	2 ~ 20	1.95
5011-110-032-150	BT40 x ER32 - 150	215.4	150	118	50	50	M16 x 2.0P	2 ~ 20	2.50
5011-110-032-200	BT40 x ER32 - 200	265.4	200	168	50	50	M16 x 2.0P	2 ~ 20	3.00
5011-110-032-250	BT40 x ER32 - 250	315.4	250	218	50	50	M16 x 2.0P	2 ~ 20	2.93
5011-110-040-080	BT40 x ER40 - 80	145.4	80	53	63	60	-	3 ~ 26	1.50
5011-110-040-090	BT40 x ER40 - 90	155.4	90	61.5	63	60	M20 x 2.0P	3 ~ 26	0.48
5011-110-040-100	BT40 x ER40 - 100	165.4	100	73	63	60	M20 x 2.0P	3 ~ 26	2.00
5011-110-040-120	BT40 x ER40 - 120	185.4	120	93	63	60	M20 x 2.0P	3 ~ 26	2.50
5011-110-040-150	BT40 x ER40 - 150	215.4	150	123	63	60	M20 x 2.0P	3 ~ 26	3.10
5011-110-040-200	BT40 x ER40 - 200	265.4	200	173	63	60	M20 x 2.0P	3 ~ 26	3.83
5011-110-040-250	BT40 x ER40 - 250	315.4	250	223	63	60	M20 x 2.0P	3 ~ 26	4.86
5011-110-050-085	BT40 x ER50 - 85	150.4	85	58	78	60	M24 x 2.0P	6 ~ 34	1.70
5011-110-050-090	BT40 x ER50 - 90	155.4	90	61.5	78	60	M24 x 2.0P	6 ~ 34	0.65
5011-110-050-100	BT40 x ER50 - 100	165.4	100	73	78	60	M24 x 2.0P	6 ~ 34	2.10
5011-110-050-200	BT40 x ER50 - 200	265.4	200	173	78	60	M24 x 2.0P	6 ~ 34	3.82
5011-110-050-250	BT40 x ER50 - 250	315.4	250	223	78	60	M24 x 2.0P	6 ~ 34	4.85

Features:

- ▶ This ER tool holder has superior flexibility for use with all tool types, e.g. drills, taps, mills, reamers.
- ▶ It is recommended to tighten the clamping nuts using a torque wrench. Refer to the catalogue page of ER POWER GOOD NUT for the info. of recommended tightening torque.

Product information:

- ▶ AD+B type is available, please inform us when making an order.

Standard Accessory: • NUT

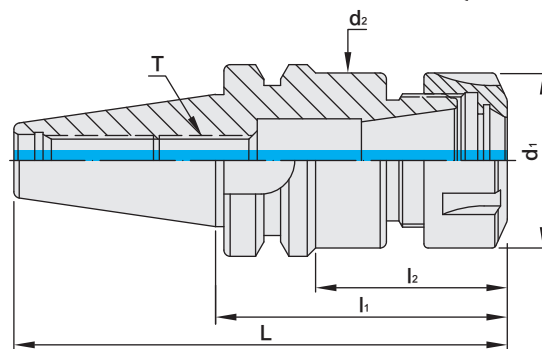
Collet	Nut	Pull Stud	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Preset Screw
P.X-19~45	P.X-63,65~67	P.X-72~73	P.X-81~84,87~88,91	P.X-85	P.X-86	P.X-121

BT / ER TOOL HOLDER



BT / ER 刀桿

(ISO 15488)



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	SIZE RANGE	WEIGHT (KGS)
5012-108-016-070	BT50 x ER16A - 70	171.8	70	29	28	28	M10 x 1.5P	1 ~ 10	4.05
5012-108-016-090	BT50 x ER16A - 90	191.8	90	47	28	28	M10 x 1.5P	1 ~ 10	4.20
5012-108-016-105	BT50 x ER16A - 105	206.8	105	57	28	28	M10 x 1.5P	1 ~ 10	4.30
5012-108-016-135	BT50 x ER16A - 135	236.8	135	87	28	28	M10 x 1.5P	1 ~ 10	4.40
5012-108-016-150	BT50 x ER16A - 150	251.8	150	102	28	28	M10 x 1.5P	1 ~ 10	4.50
5012-108-016-165	BT50 x ER16A - 165	266.8	165	117	28	28	M10 x 1.5P	1 ~ 10	4.50
5012-108-016-200	BT50 x ER16A - 200	301.8	200	152	28	28	M10 x 1.5P	1 ~ 10	4.60
5012-108-016-250	BT50 x ER16A - 250	351.8	250	202	28	28	M10 x 1.5P	1 ~ 10	4.70
5012-108-016-300	BT50 x ER16A - 300	401.8	300	252	28	28	M10 x 1.5P	1 ~ 10	4.80
5012-108-020-070	BT50 x ER20A - 70	171.8	70	29	34	34	M12 x 1.75P	1 ~ 13	4.20
5012-108-020-090	BT50 x ER20A - 90	191.8	90	47	34	34	M12 x 1.75P	1 ~ 13	4.25
5012-108-020-105	BT50 x ER20A - 105	206.8	105	57	34	34	M12 x 1.75P	1 ~ 13	4.30
5012-108-020-135	BT50 x ER20A - 135	236.8	135	87	34	34	M12 x 1.75P	1 ~ 13	4.55
5012-108-020-150	BT50 x ER20A - 150	251.8	150	102	34	34	M12 x 1.75P	1 ~ 13	4.70
5012-108-020-165	BT50 x ER20A - 165	266.8	165	117	34	34	M12 x 1.75P	1 ~ 13	4.80
5012-108-020-200	BT50 x ER20A - 200	301.8	200	152	34	34	M12 x 1.75P	1 ~ 13	4.90
5012-108-020-250	BT50 x ER20A - 250	351.8	250	202	34	34	M12 x 1.75P	1 ~ 13	5.10
5012-108-020-300	BT50 x ER20A - 300	401.8	300	252	34	34	M12 x 1.75P	1 ~ 13	5.30
5012-110-025-070	BT50 x ER25 - 70	171.8	70	29	42	42	M16 x 2.0P	1 ~ 16	4.20
5012-110-025-090	BT50 x ER25 - 90	191.8	90	42	42	42	M16 x 2.0P	1 ~ 16	3.88
5012-110-025-105	BT50 x ER25 - 105	206.8	105	57	42	42	M16 x 2.0P	1 ~ 16	4.40
5012-110-025-135	BT50 x ER25 - 135	236.8	135	87	42	42	M16 x 2.0P	1 ~ 16	4.70
5012-110-025-165	BT50 x ER25 - 165	266.8	165	117	42	42	M16 x 2.0P	1 ~ 16	5.00
5012-110-025-250	BT50 x ER25 - 250	351.8	250	202	42	42	M16 x 2.0P	1 ~ 16	5.30
5012-110-025-300	BT50 x ER25 - 300	401.8	300	252	42	42	M16 x 2.0P	1 ~ 16	5.70
5012-110-025-350	BT50 x ER25 - 350	451.8	350	302	42	42	M16 x 2.0P	1 ~ 16	6.10

Features:

- ▶ This ER tool holder has superior flexibility for use with all tool types, e.g. drills, taps, mills, reamers.
- ▶ It is recommended to tighten the clamping nuts using a torque wrench. Refer to the catalogue page of ER POWER GOOD NUT for the info. of recommended tightening torque.

Product information:

- ▶ AD+B type is available, please inform us when making an order.

Standard Accessory: • NUT

Collet	Nut	Pull Stud	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Preset Screw
P.X-19~45	P.X-63,65~67	P.X-72~73	P.X-81~84,87~88,91	P.X-85	P.X-86	P.X-121

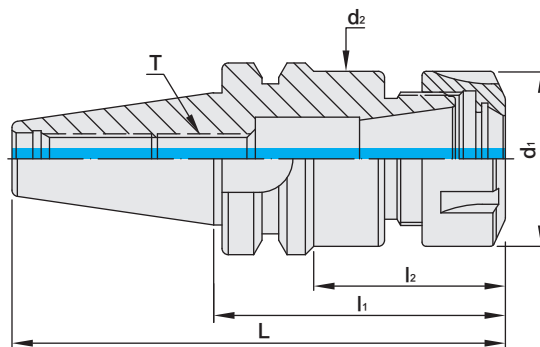


BT / ER TOOL HOLDER



BT / ER 刀桿

(ISO 15488)



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	SIZE RANGE	WEIGHT (KGS)
5012-110-032-080	BT50 x ER32 - 80	181.8	80	39	50	50	M16 x 2.0P	2 ~ 20	4.70
5012-110-032-090	BT50 x ER32 - 90	191.8	90	47	50	50	M16 x 2.0P	2 ~ 20	3.92
5012-110-032-100	BT50 x ER32 - 100	201.8	100	57	50	50	M16 x 2.0P	2 ~ 20	4.80
5012-110-032-120	BT50 x ER32 - 120	221.8	120	72	50	50	M16 x 2.0P	2 ~ 20	4.70
5012-110-032-135	BT50 x ER32 - 135	236.8	135	87	50	50	M16 x 2.0P	2 ~ 20	4.44
5012-110-032-150	BT50 x ER32 - 150	251.8	150	102	50	50	M16 x 2.0P	2 ~ 20	5.30
5012-110-032-165	BT50 x ER32 - 165	266.8	165	117	50	50	M16 x 2.0P	2 ~ 20	4.80
5012-110-032-200	BT50 x ER32 - 200	301.8	200	152	50	50	M16 x 2.0P	2 ~ 20	5.50
5012-110-032-250	BT50 x ER32 - 250	351.8	250	202	50	50	M16 x 2.0P	2 ~ 20	5.96
5012-110-032-300	BT50 x ER32 - 300	401.8	300	252	50	50	M16 x 2.0P	2 ~ 20	6.70
5012-110-032-350	BT50 x ER32 - 350	451.8	350	302	50	50	M16 x 2.0P	2 ~ 20	7.40
5012-110-032-400	BT50 x ER32 - 400	501.8	400	352	50	50	M16 x 2.0P	2 ~ 20	8.00
5012-110-032-450	BT50 x ER32 - 450	551.8	450	402	50	50	M16 x 2.0P	2 ~ 20	8.50
5012-110-040-080	BT50 x ER40 - 80	181.8	80	39.5	63	63	M20 x 2.0P	3 ~ 26	4.30
5012-110-040-090	BT50 x ER40 - 90	191.8	90	47	63	63	M20 x 2.0P	3 ~ 26	4.09
5012-110-040-100	BT50 x ER40 - 100	201.8	100	57	63	63	M20 x 2.0P	3 ~ 26	4.64
5012-110-040-120	BT50 x ER40 - 120	221.8	120	72	63	63	M20 x 2.0P	3 ~ 26	5.10
5012-110-040-135	BT50 x ER40 - 135	236.8	135	87	63	63	M20 x 2.0P	3 ~ 26	5.50
5012-110-040-250	BT50 x ER40 - 250	351.8	250	202	63	63	M20 x 2.0P	3 ~ 26	7.90
5012-110-040-300	BT50 x ER40 - 300	401.8	300	252	63	63	M20 x 2.0P	3 ~ 26	9.00
5012-110-040-350	BT50 x ER40 - 350	451.8	350	302	63	63	M20 x 2.0P	3 ~ 26	10.1
5012-110-040-400	BT50 x ER40 - 400	501.8	400	352	63	63	M20 x 2.0P	3 ~ 26	11.1
5012-110-050-090	BT50 x ER50 - 90	191.8	90	49.5	78	78	M24 x 2.0P	6 ~ 34	4.60
5012-110-050-120	BT50 x ER50 - 120	221.8	120	79	78	78	M24 x 2.0P	6 ~ 34	5.50
5012-110-050-165	BT50 x ER50 - 165	266.8	165	124	78	78	M24 x 2.0P	6 ~ 34	6.10
5012-110-050-200	BT50 x ER50 - 200	301.8	200	157	78	78	M24 x 2.0P	6 ~ 34	8.60
5012-110-050-250	BT50 x ER50 - 250	351.8	250	207	78	78	M24 x 2.0P	6 ~ 34	10.3
5012-110-050-300	BT50 x ER50 - 300	401.8	300	257	78	78	M24 x 2.0P	6 ~ 34	12.0
5012-110-050-350	BT50 x ER50 - 350	451.8	350	307	78	78	M24 x 2.0P	6 ~ 34	13.7
5012-110-050-400	BT50 x ER50 - 400	501.8	400	357	78	78	M24 x 2.0P	6 ~ 34	15.4

Features:

- ▶ This ER tool holder has superior flexibility for use with all tool types, e.g. drills, taps, mills, reamers.
- ▶ It is recommended to tighten the clamping nuts using a torque wrench. Refer to the catalogue page of ER POWER GOOD NUT for the info. of recommended tightening torque.

Product information:

- ▶ AD+B type is available, please inform us when making an order.

Standard Accessory: • NUT

Collet	Nut	Pull Stud	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Preset Screw
P.X-19~45	P.X-63,65~67	P.X-72~73	P.X-81~84,87~88,91	P.X-85	P.X-86	P.X-121



BT / ER TOOL HOLDER

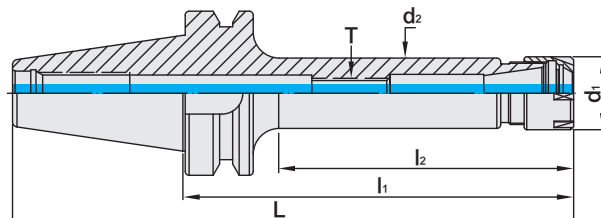
M TYPE

BT



M 型 BT / ER 刀桿

(ISO 15488)



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	SIZE RANGE	WEIGHT (KGS)
5010-123-011-070	BT30 x ER11M - 70	118.4	70	40	16	15	M6 x 1.0P	1 ~ 7	0.50
5010-123-011-090	BT30 x ER11M - 90	138.4	90	60	16	15	M6 x 1.0P	1 ~ 7	0.07
5010-123-011-100	BT30 x ER11M - 100	148.4	100	70	16	15	M6 x 1.0P	1 ~ 7	0.60
5010-123-011-120	BT30 x ER11M - 120	168.4	120	88	16	15	M6 x 1.0P	1 ~ 7	0.70
5010-123-016-070	BT30 x ER16M - 70	118.4	70	43	22	21	M10 x 1.5P	1 ~ 10	0.55
5010-123-016-090	BT30 x ER16M - 90	138.4	90	58	22	21	M10 x 1.5P	1 ~ 10	0.11
5010-123-016-100	BT30 x ER16M - 100	148.4	100	68	22	21	M10 x 1.5P	1 ~ 10	0.56
5010-123-016-120	BT30 x ER16M - 120	168.4	120	88	22	21	M10 x 1.5P	1 ~ 10	0.75
5010-123-020-070	BT30 x ER20M - 70	118.4	70	45.5	28	27	M12 x 1.75P	1 ~ 13	0.65
5010-123-020-090	BT30 x ER20M - 90	138.4	90	61	28	27	M12 x 1.75P	1 ~ 13	0.12
5010-123-020-100	BT30 x ER20M - 100	148.4	100	71	28	27	M12 x 1.75P	1 ~ 13	0.70
5010-123-020-120	BT30 x ER20M - 120	168.4	120	91	28	27	M12 x 1.75P	1 ~ 13	0.80
5010-123-020-150	BT30 x ER20M - 150	198.4	150	121	28	27	M12 x 1.75P	1 ~ 13	1.00
5011-123-011-070	BT40 x ER11M - 70	135.4	70	33	16	15	M6 x 1.0P	1 ~ 7	1.10
5011-123-011-090	BT40 x ER11M - 90	155.4	90	53	16	15	M6 x 1.0P	1 ~ 7	0.14
5011-123-011-100	BT40 x ER11M - 100	165.4	100	63	16	15	M6 x 1.0P	1 ~ 7	1.10
5011-123-011-125	BT40 x ER11M - 125	190.4	125	88	16	15	M6 x 1.0P	1 ~ 7	1.12
5011-123-011-150	BT40 x ER11M - 150	215.4	150	113	16	15	M6 x 1.0P	1 ~ 7	1.20
5011-123-016-070	BT40 x ER16M - 70	135.4	70	38	22	21	M10 x 1.5P	1 ~ 10	1.10
5011-123-016-090	BT40 x ER16M - 90	155.4	90	53	22	21	M10 x 1.5P	1 ~ 10	0.18
5011-123-016-100	BT40 x ER16M - 100	165.4	100	63	22	21	M10 x 1.5P	1 ~ 10	1.16
5011-123-016-125	BT40 x ER16M - 125	190.4	125	88	22	21	M10 x 1.5P	1 ~ 10	1.20
5011-123-016-150	BT40 x ER16M - 150	215.4	150	113	22	21	M10 x 1.5P	1 ~ 10	1.30
5011-123-020-070	BT40 x ER20M - 70	135.4	70	38	28	27	M12 x 1.75P	1 ~ 13	1.20
5011-123-020-090	BT40 x ER20M - 90	155.4	90	53	28	27	M12 x 1.75P	1 ~ 13	0.19
5011-123-020-100	BT40 x ER20M - 100	165.4	100	63	28	27	M12 x 1.75P	1 ~ 13	1.25
5011-123-020-125	BT40 x ER20M - 125	190.4	125	88	28	27	M12 x 1.75P	1 ~ 13	1.30
5011-123-020-150	BT40 x ER20M - 150	215.4	150	113	28	27	M12 x 1.75P	1 ~ 13	1.45

Features:

- ▶ This ER tool holder has superior flexibility for use with all tool types, e.g. drills, taps, mills, reamers.
- ▶ It is recommended to tighten the clamping nuts using a torque wrench. Refer to the catalogue page of ER POWER GOOD NUT for the info. of recommended tightening torque.

Product information:

- ▶ 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	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Preset Screw
P.X-19~45	P.X-64	P.X-72~73	P.X-81~82,87	P.X-85	P.X-86	P.X-121



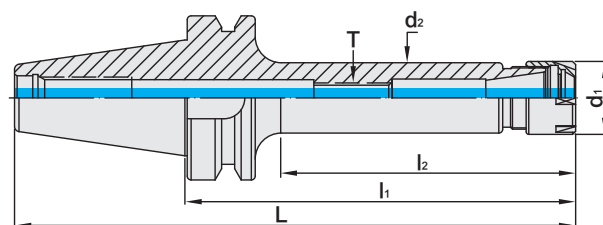
BT / ER TOOL HOLDER

M TYPE



M 型 BT / ER 刀桿

(ISO 15488)



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	SIZE RANGE	WEIGHT (KGS)
5012-123-011-070	BT50 x ER11M - 70	171.8	70	22	16	15	M6 x 1.0P	1 ~ 7	3.80
5012-123-011-090	BT50 x ER11M - 90	191.8	90	42	16	15	M6 x 1.0P	1 ~ 7	3.90
5012-123-011-105	BT50 x ER11M - 105	206.8	105	57	16	15	M6 x 1.0P	1 ~ 7	4.00
5012-123-011-135	BT50 x ER11M - 135	236.8	135	87	16	15	M6 x 1.0P	1 ~ 7	4.10
5012-123-011-165	BT50 x ER11M - 165	266.8	165	92.42	16	15	M6 x 1.0P	1 ~ 7	4.20
5012-123-016-070	BT50 x ER16M - 70	171.8	70	29	22	21	M10 x 1.5P	1 ~ 10	3.90
5012-123-016-090	BT50 x ER16M - 90	191.8	90	42	22	21	M10 x 1.5P	1 ~ 10	4.00
5012-123-016-105	BT50 x ER16M - 105	206.8	105	57	22	21	M10 x 1.5P	1 ~ 10	4.10
5012-123-016-135	BT50 x ER16M - 135	236.8	135	87	22	21	M10 x 1.5P	1 ~ 10	4.20
5012-123-016-165	BT50 x ER16M - 165	266.8	165	117	22	21	M10 x 1.5P	1 ~ 10	4.30
5012-123-020-090	BT50 x ER20M - 90	191.8	90	42	28	27	M12 x 1.75P	1 ~ 13	4.10
5012-123-020-105	BT50 x ER20M - 105	206.8	105	57	28	27	M12 x 1.75P	1 ~ 13	4.20
5012-123-020-135	BT50 x ER20M - 135	236.8	135	87	28	27	M12 x 1.75P	1 ~ 13	4.40
5012-123-020-165	BT50 x ER20M - 165	266.8	165	117	28	27	M12 x 1.75P	1 ~ 13	4.60

Features:

- ▶ This ER tool holder has superior flexibility for use with all tool types, e.g. drills, taps, mills, reamers.
- ▶ It is recommended to tighten the clamping nuts using a torque wrench. Refer to the catalogue page of ER POWER GOOD NUT for the info. of recommended tightening torque.

Product information:

- ▶ AD+B type is available, please inform us when making an order.

Standard Accessory: • NUT

Collet	Nut	Pull Stud	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Preset Screw
P.X-19~45	P.X-64	P.X-72~73	P.X-81~82,87	P.X-85	P.X-86	P.X-121

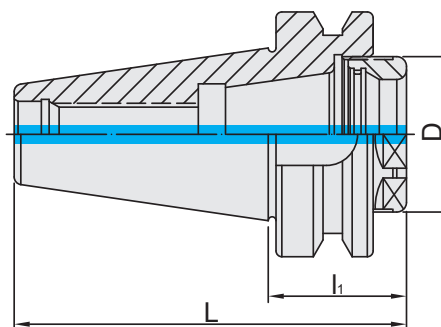


BT / ER SHORT LENGTH TOOL HOLDER

BT

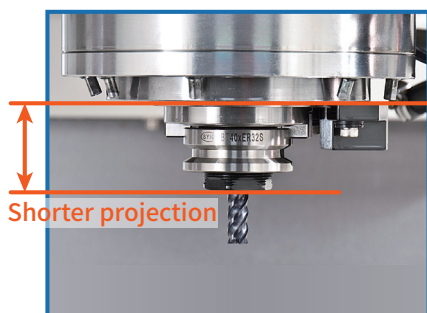


BT / ER 短頸刀桿

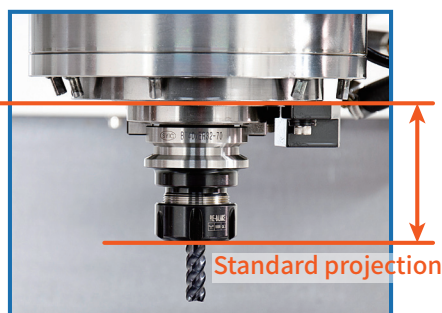


MODEL NO.	TYPE	L	l ₁	D	SIZE RANGE	WEIGHT (KGS)
5010-125-020-031	BT30 x ER20S	79.2	30.8	22	1~13	0.33
5011-125-016-031	BT40 x ER16S	96.5	31.1	19	1~10	0.94
5011-125-020-036	BT40 x ER20S	101.2	35.8	22	1~13	0.92
5011-125-025-033	BT40 x ER25S	98	32.6	25	1~16	0.84
5011-125-032-032	BT40 x ER32S	97.8	32.4	36	2~20	0.77
5012-125-016-042	BT50 x ER16S	143.9	42.1	19	1~10	3.55
5012-125-020-047	BT50 x ER20S	148.6	46.8	22	1~13	3.5
5012-125-025-044	BT50 x ER25S	145.4	43.6	25	1~16	3.45
5012-125-032-043	BT50 x ER32S	145.2	43.4	36	2~20	3.38

ER Short Length Tool Holder:



Standard ER Tool Holder:



Features:

- ▶ Used with all ER collets.
- ▶ The front short design improves machining rigidity, reduces the vibration and prolongs tool life!
- ▶ With special surface treatment, the clamping power of nuts is increased by 75%.
- ▶ Suitable for high-speed and high-torque processing, or machining with tall workpieces and limited Z-axis space.

Standard Accessory: • NUT

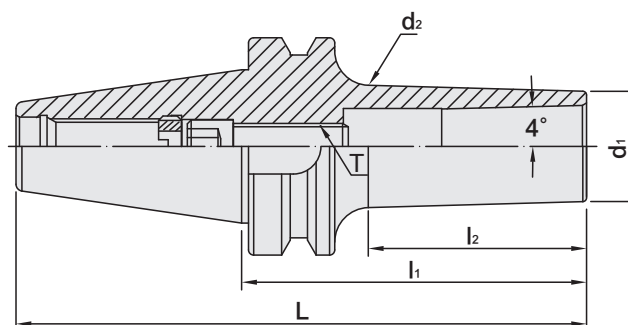
Collet	Nut	Pull Stud	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)
P.X-19~45	P.X-64	P.X-72~73	P.X-87	P.X-81, 85	P.X-86



BT / SBL SLIM-FIT COLLET CHUCK



BT / SBL 後拉式立銑刀夾頭



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	RECOMMENDED TORQUE		SIZE RANGE	WEIGHT (KGS)
								N.m	lbf-ft		
5010-648-006-070	BT30 x SBL6 - 70	118.4	70	38	14	18.1	M6 x 1.0P	12	9	3 ~ 6	1.00
5010-648-006-100	BT30 x SBL6 - 100	148.4	100	68	14	21.2	M6 x 1.0P	12	9	3 ~ 6	1.25
5010-648-012-070	BT30 x SBL12 - 70	118.4	70	47	26	33.4	M10 x 1.5P	45	33	3 ~ 12	1.20
5010-648-012-100	BT30 x SBL12 - 100	148.4	100	77	26	38.1	M10 x 1.5P	45	33	3 ~ 12	1.45
5010-648-012-130	BT30 x SBL12 - 130	178.4	130	106	26	35.2	M10 x 1.5P	45	33	3 ~ 12	1.65
5010-648-020-080	BT30 x SBL20 - 80	128.4	80	55	34	37.7	M12 x 1.75P	60	44	3 ~ 20	1.20
5010-648-020-100	BT30 x SBL20 - 100	148.4	100	77	34	39.2	M12 x 1.75P	60	44	3 ~ 20	1.45
5011-648-006-070	BT40 x SBL6 - 70	135.4	70	28	14	17.1	M6 x 1.0P	12	9	3 ~ 6	1.20
5011-648-006-100	BT40 x SBL6 - 100	165.4	100	58	14	20.1	M6 x 1.0P	12	9	3 ~ 6	1.60
5011-648-006-130	BT40 x SBL6 - 130	195.4	130	88	14	23.3	M6 x 1.0P	12	9	3 ~ 6	1.80
5011-648-006-200	BT40 x SBL6 - 200	265.4	200	161	14	30.9	M6 x 1.0P	12	9	3 ~ 6	2.00
5011-648-008-100	BT40 x SBL8 - 100	165.4	100	58.7	20	26.1	M8 x 1.25P	29	21	3 ~ 8	1.25
5011-648-008-130	BT40 x SBL8 - 130	195.4	130	93.5	20	29.8	M8 x 1.25P	29	21	3 ~ 8	1.38
5011-648-008-150	BT40 x SBL8 - 150	215.4	150	113.5	20	31.8	M8 x 1.25P	29	21	3 ~ 8	1.50
5011-648-012-070	BT40 x SBL12 - 70	135.4	70	33	26	31	M10 x 1.5P	45	33	3 ~ 12	1.50
5011-648-012-100	BT40 x SBL12 - 100	165.4	100	63	26	31.6	M10 x 1.5P	45	33	3 ~ 12	1.70
5011-648-012-130	BT40 x SBL12 - 130	195.4	130	93	26	34.2	M10 x 1.5P	45	33	3 ~ 12	1.90
5011-648-012-150	BT40 x SBL12 - 150	215.4	150	113	26	36	M10 x 1.5P	45	33	3 ~ 12	2.10
5011-648-012-170	BT40 x SBL12 - 170	235.4	170	133	26	37.7	M10 x 1.5P	45	33	3 ~ 12	2.30
5011-648-020-070	BT40 x SBL20 - 70	135.4	70	33	35	38.1	M12 x 1.75P	60	44	3 ~ 20	1.50
5011-648-020-100	BT40 x SBL20 - 100	165.4	100	68	35	41	M12 x 1.75P	60	44	3 ~ 20	1.70
5011-648-020-130	BT40 x SBL20 - 130	195.4	130	98	35	43.6	M12 x 1.75P	60	44	3 ~ 20	1.90
5011-648-020-150	BT40 x SBL20 - 150	215.4	150	118	35	45.3	M12 x 1.75P	60	44	3 ~ 20	2.10
5011-648-020-170	BT40 x SBL20 - 170	235.4	170	138	35	47.1	M12 x 1.75P	60	44	3 ~ 20	2.30
5011-648-025-080	BT40 x SBL25 - 80	145.4	80	50.1	40	44.3	M16 x 1.5P	90	66	6 ~ 25.4	1.70
5011-648-025-100	BT40 x SBL25 - 100	165.4	100	70.1	40	46.1	M16 x 1.5P	90	66	6 ~ 25.4	1.90

Features:

- ▶ The design of non-clamping nut and slim front ends reduces interference, ideal for deep hole machining.
- ▶ Taper angle 4° increases the stability of clamping precision.
- ▶ T.I.R. is within 5μm at 4D distance.

Product information:

- ▶ Higher balancing grade and revolution can be done upon request but additional charge is needed.

Collet	Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Screw	Spanner
P.X-49	P.X-72~73	P.X-81, 85	P.X-86	P.X-89	P.X-125

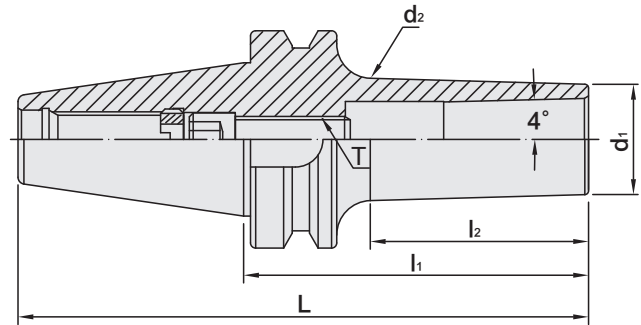


BT / SBL SLIM-FIT COLLET CHUCK

BT



BT / SBL 後拉式立銑刀夾頭



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	RECOMMENDED TORQUE		SIZE RANGE	WEIGHT (KGS)
								N.m	lbf-ft		
5012-648-006-070	BT50 x SBL6 - 70	171.8	70	17	14	15.9	M6 x 1.0P	12	9	3 ~ 6	4.00
5012-648-006-100	BT50 x SBL6 - 100	201.8	100	47	14	19.1	M6 x 1.0P	12	9	3 ~ 6	4.10
5012-648-006-150	BT50 x SBL6 - 150	251.8	150	97.7	14	24.2	M6 x 1.0P	12	9	3 ~ 6	4.30
5012-648-006-200	BT50 x SBL6 - 200	301.8	200	147.7	14	29.4	M6 x 1.0P	12	9	3 ~ 6	4.60
5012-648-008-100	BT50 x SBL8 - 100	201.8	100	47.7	20	25	M8 x 1.25P	29	21	3 ~ 8	3.78
5012-648-008-130	BT50 x SBL8 - 130	231.8	130	77.7	20	28.1	M8 x 1.25P	29	21	3 ~ 8	3.92
5012-648-008-150	BT50 x SBL8 - 150	251.8	150	97.7	20	30.2	M8 x 1.25P	29	21	3 ~ 8	4.04
5012-648-012-070	BT50 x SBL12 - 70	171.8	70	22	26	28.1	M10 x 1.5P	45	33	3 ~ 12	4.20
5012-648-012-100	BT50 x SBL12 - 100	201.8	100	52	26	30.6	M10 x 1.5P	45	33	3 ~ 12	4.30
5012-648-012-125	BT50 x SBL12 - 125	226.8	125	77	26	32.9	M10 x 1.5P	45	33	3 ~ 12	4.50
5012-648-012-150	BT50 x SBL12 - 150	251.8	150	102	26	35	M10 x 1.5P	45	33	3 ~ 12	4.80
5012-648-012-170	BT50 x SBL12 - 170	271.8	170	122	26	36.7	M10 x 1.5P	45	33	3 ~ 12	5.00
5012-648-020-070	BT50 x SBL20 - 70	171.8	70	22	35	36.9	M12 x 1.75P	60	44	3 ~ 20	4.60
5012-648-020-100	BT50 x SBL20 - 100	201.8	100	52	35	39.6	M12 x 1.75P	60	44	3 ~ 20	4.70
5012-648-020-125	BT50 x SBL20 - 125	226.8	125	77	35	41.8	M12 x 1.75P	60	44	3 ~ 20	4.90
5012-648-020-170	BT50 x SBL20 - 170	271.8	170	122	35	45.6	M12 x 1.75P	60	44	3 ~ 20	5.30
5012-648-020-200	BT50 x SBL20 - 200	301.8	200	152	35	48.3	M12 x 1.75P	60	44	3 ~ 20	5.60
5012-648-025-070	BT50 x SBL25 - 70	171.8	70	22.4	40	41.9	M16 x 1.5P	90	66	6 ~ 25.4	4.80
5012-648-025-100	BT50 x SBL25 - 100	201.8	100	52.4	40	44.5	M16 x 1.5P	90	66	6 ~ 25.4	5.00

Features:

- ▶ The design of non-clamping nut and slim front ends reduces interference, ideal for deep hole machining.
- ▶ Taper angle 4° increases the stability of clamping precision.
- ▶ T.I.R. is within 5μm at 4D distance.

Product information:

- ▶ Higher balancing grade and revolution can be done upon request but additional charge is needed.

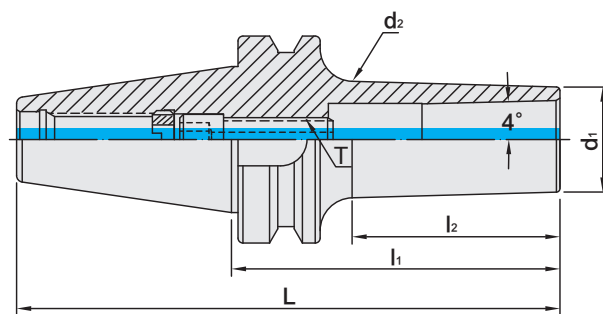
Collet	Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Screw	Spanner
P.X-49	P.X-72~73	P.X-81, 85	P.X-86	P.X-89	P.X-125



BT / SBLC SLIM-FIT COLLET CHUCK



BT / SBLC 後拉式立銑刀夾頭



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	RECOMMENDED TORQUE		SIZE RANGE	WEIGHT (KGS)
								N.m	lbf-ft		
5010-623-006-070	BT30 x SBLC6 - 70	118.4	70	38	14	18.1	M6 x 1.0P	12	9	3 ~ 6	1.00
5010-623-006-100	BT30 x SBLC6 - 100	148.4	100	68	14	21.2	M6 x 1.0P	12	9	3 ~ 6	1.25
5010-623-012-070	BT30 x SBLC12 - 70	118.4	70	47	26	33.4	M10 x 1.5P	45	33	3 ~ 12	1.20
5010-623-012-100	BT30 x SBLC12 - 100	148.4	100	77	26	38.1	M10 x 1.5P	45	33	3 ~ 12	1.45
5010-623-012-130	BT30 x SBLC12 - 130	178.4	130	106	26	35.2	M10 x 1.5P	45	33	3 ~ 12	1.65
5010-623-020-080	BT30 x SBLC20 - 80	128.4	80	55	34	37.7	M12 x 1.75P	60	44	3 ~ 20	1.20
5010-623-020-100	BT30 x SBLC20 - 100	148.4	100	77	34	39.2	M12 x 1.75P	60	44	3 ~ 20	1.45
5011-623-006-070	BT40 x SBLC6 - 70	135.4	70	28	14	17.1	M6 x 1.0P	12	9	3 ~ 6	1.20
5011-623-006-100	BT40 x SBLC6 - 100	165.4	100	58	14	20.1	M6 x 1.0P	12	9	3 ~ 6	1.60
5011-623-006-130	BT40 x SBLC6 - 130	195.4	130	88	14	23.3	M6 x 1.0P	12	9	3 ~ 6	1.80
5011-623-006-200	BT40 x SBLC6 - 200	265.4	200	161	14	30.9	M6 x 1.0P	12	9	3 ~ 6	2.00
5011-623-008-100	BT40 x SBLC8 - 100	165.4	100	58.7	20	26.1	M8 x 1.25P	29	21	3 ~ 8	1.25
5011-623-008-130	BT40 x SBLC8 - 130	195.4	130	93.5	20	29.8	M8 x 1.25P	29	21	3 ~ 8	1.38
5011-623-008-150	BT40 x SBLC8 - 150	215.4	150	113.5	20	31.8	M8 x 1.25P	29	21	3 ~ 8	1.50
5011-623-012-070	BT40 x SBLC12 - 70	135.4	70	33	26	31	M10 x 1.5P	45	33	3 ~ 12	1.50
5011-623-012-100	BT40 x SBLC12 - 100	165.4	100	63	26	31.6	M10 x 1.5P	45	33	3 ~ 12	1.70
5011-623-012-130	BT40 x SBLC12 - 130	195.4	130	93	26	34.2	M10 x 1.5P	45	33	3 ~ 12	1.90
5011-623-012-150	BT40 x SBLC12 - 150	215.4	150	113	26	36	M10 x 1.5P	45	33	3 ~ 12	2.10
5011-623-012-170	BT40 x SBLC12 - 170	235.4	170	133	26	37.7	M10 x 1.5P	45	33	3 ~ 12	2.30
5011-623-020-070	BT40 x SBLC20 - 70	135.4	70	33	35	38.1	M12 x 1.75P	60	44	3 ~ 20	1.50
5011-623-020-100	BT40 x SBLC20 - 100	165.4	100	68	35	41	M12 x 1.75P	60	44	3 ~ 20	1.70
5011-623-020-130	BT40 x SBLC20 - 130	195.4	130	98	35	43.6	M12 x 1.75P	60	44	3 ~ 20	1.90
5011-623-020-150	BT40 x SBLC20 - 150	215.4	150	118	35	45.3	M12 x 1.75P	60	44	3 ~ 20	2.10
5011-623-020-170	BT40 x SBLC20 - 170	235.4	170	138	35	47.1	M12 x 1.75P	60	44	3 ~ 20	2.30
5011-623-025-080	BT40 x SBLC25 - 80	145.4	80	50.1	40	44.3	M16 x 1.5P	90	66	6 ~ 25.4	1.70
5011-623-025-100	BT40 x SBLC25 - 100	165.4	100	70.1	40	46.1	M16 x 1.5P	90	66	6 ~ 25.4	1.90

Features:

- ▶ SBLC collet chuck used for center coolant improves the metal chip removal capability and the surface finish of the workpiece.
- ▶ The design of non-clamping nut and slim front ends reduces interference, ideal for deep hole machining.
- ▶ T.I.R. is within 5μm at 4D distance.
- ▶ Taper angle 4° increases the stability of clamping precision.

Product information:

- ▶ 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**

Sealed Collet	Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Screw	Spanner
P.X-50~51	P.X-72~73	P.X-81, 85	P.X-86	P.X-89	P.X-125

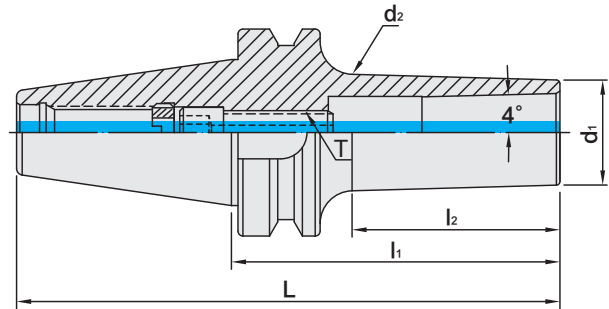


BT / SBLC SLIM-FIT COLLET CHUCK

BT



BT / SBLC 後拉式立銑刀夾頭



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	RECOMMENDED TORQUE		SIZE RANGE	WEIGHT (KGS)
								N.m	lbf-ft		
5012-623-006-070	BT50 x SBLC6 - 70	171.8	70	17	14	15.9	M6 x 1.0P	12	9	3 ~ 6	4.00
5012-623-006-100	BT50 x SBLC6 - 100	201.8	100	47	14	19.1	M6 x 1.0P	12	9	3 ~ 6	4.10
5012-623-006-150	BT50 x SBLC6 - 150	251.8	150	97.7	14	24.2	M6 x 1.0P	12	9	3 ~ 6	4.30
5012-623-006-200	BT50 x SBLC6 - 200	301.8	200	147.7	14	29.4	M6 x 1.0P	12	9	3 ~ 6	4.60
5012-623-008-100	BT50 x SBLC8 - 100	201.8	100	47.7	20	25	M8 x 1.25P	29	21	3 ~ 8	3.78
5012-623-008-130	BT50 x SBLC8 - 130	231.8	130	77.7	20	28.1	M8 x 1.25P	29	21	3 ~ 8	3.92
5012-623-008-150	BT50 x SBLC8 - 150	251.8	150	97.7	20	30.2	M8 x 1.25P	29	21	3 ~ 8	4.04
5012-623-012-070	BT50 x SBLC12 - 70	171.8	70	22	26	28.1	M10 x 1.5P	45	33	3 ~ 12	4.20
5012-623-012-100	BT50 x SBLC12 - 100	201.8	100	52	26	30.6	M10 x 1.5P	45	33	3 ~ 12	4.30
5012-623-012-125	BT50 x SBLC12 - 125	226.8	125	77	26	32.9	M10 x 1.5P	45	33	3 ~ 12	4.50
5012-623-012-150	BT50 x SBLC12 - 150	251.8	150	102	26	35	M10 x 1.5P	45	33	3 ~ 12	4.80
5012-623-012-170	BT50 x SBLC12 - 170	271.8	170	122	26	36.7	M10 x 1.5P	45	33	3 ~ 12	5.00
5012-623-020-070	BT50 x SBLC20 - 70	171.8	70	22	35	36.9	M12 x 1.75P	60	44	3 ~ 20	4.60
5012-623-020-100	BT50 x SBLC20 - 100	201.8	100	52	35	39.6	M12 x 1.75P	60	44	3 ~ 20	4.70
5012-623-020-125	BT50 x SBLC20 - 125	226.8	125	77	35	41.8	M12 x 1.75P	60	44	3 ~ 20	4.90
5012-623-020-170	BT50 x SBLC20 - 170	271.8	170	122	35	45.6	M12 x 1.75P	60	44	3 ~ 20	5.30
5012-623-020-200	BT50 x SBLC20 - 200	301.8	200	152	35	48.3	M12 x 1.75P	60	44	3 ~ 20	5.60
5012-623-025-070	BT50 x SBLC25 - 70	171.8	70	22.4	40	41.9	M16 x 1.5P	90	66	6 ~ 25.4	4.80
5012-623-025-100	BT50 x SBLC25 - 100	201.8	100	52.4	40	44.5	M16 x 1.5P	90	66	6 ~ 25.4	5.00

Features:

- ▶ SBLC collet chuck used for center coolant improves the metal chip removal capability and the surface finish of the workpiece.
- ▶ The design of non-clamping nut and slim front ends reduces interference, ideal for deep hole machining.
- ▶ T.I.R. is within 5μm at 4D distance.
- ▶ Taper angle 4° increases the stability of clamping precision.

Product information:

- ▶ 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

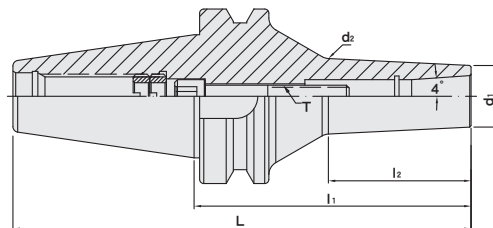
Sealed Collet	Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Screw	Spanner
P.X-50~51	P.X-72~73	P.X-81, 85	P.X-86	P.X-89	P.X-125



BT / EBL SLIM-FIT COLLET CHUCK

5 μ mBALANCE
G2.5
25,000 RPM

BT / EBL 後拉式刀桿



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	RECOMMENDED TORQUE		SIZE RANGE	WEIGHT (KGS)
								N.m	lbf-ft		
5010-277-006-070	BT30 x EBL6 - 70	118.4	70	40.6	19.05	23	M6 x 1.0P	12	9	3 ~ 6	0.50
5010-277-006-100	BT30 x EBL6 - 100	148.4	100	72.2	19.05	26	M6 x 1.0P	12	9	3 ~ 6	0.61
5011-277-006-070	BT40 x EBL6 - 70	135.4	70	29.9	19.05	21.9	M6 x 1.0P	12	9	3 ~ 6	1.20
5011-277-006-100	BT40 x EBL6 - 100	165.4	100	61.4	19.05	25	M6 x 1.0P	12	9	3 ~ 6	1.22
5011-277-006-125	BT40 x EBL6 - 125	190.4	125	87.7	19.05	27.6	M6 x 1.0P	12	9	3 ~ 6	1.40
5011-277-006-200	BT40 x EBL6 - 200	265.4	200	163.7	19.05	35	M6 x 1.0P	12	9	3 ~ 6	1.77
5011-277-008-070	BT40 x EBL8 - 70	135.4	70	28.2	22.225	24.9	M8 x 1.25P	29	21	3 ~ 8	1.14
5011-277-008-100	BT40 x EBL8 - 100	165.4	100	59.8	22.225	28	M8 x 1.25P	29	21	3 ~ 8	1.26
5011-277-008-125	BT40 x EBL8 - 125	190.4	125	85.09	22.225	30.6	M8 x 1.25P	29	21	3 ~ 8	1.40
5011-277-008-200	BT40 x EBL8 - 200	265.4	200	160.7	22.225	37.9	M8 x 1.25P	29	21	3 ~ 8	1.91
5012-277-006-070	BT50 x EBL6 - 70	171.8	70	18.3	19.05	20.8	M6 x 1.0P	12	9	3 ~ 6	3.68
5012-277-006-100	BT50 x EBL6 - 100	201.8	100	49.9	19.05	23.9	M6 x 1.0P	12	9	3 ~ 6	3.77
5012-277-006-125	BT50 x EBL6 - 125	226.8	125	69.8	19.05	25.9	M6 x 1.0P	12	9	3 ~ 6	3.95
5012-277-006-200	BT50 x EBL6 - 200	301.8	200	151.7	19.05	33.8	M6 x 1.0P	12	9	3 ~ 6	4.22
5012-277-008-070	BT50 x EBL8 - 70	171.8	70	16.6	22.225	23.8	M8 x 1.25P	29	21	3 ~ 8	3.71
5012-277-008-100	BT50 x EBL8 - 100	201.8	100	48.2	22.225	26.9	M8 x 1.25P	29	21	3 ~ 8	3.83
5012-277-008-125	BT50 x EBL8 - 125	226.8	125	66.8	22.225	28.7	M8 x 1.25P	29	21	3 ~ 8	3.95
5012-277-008-200	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:

- ▶ EBL collet with extended length shortens tool overhanging length and improves the machining stability.
- ▶ The optimized design of thicker neck improves the machining rigidity and eliminates vibration, resulting in excellent surface finish of workpiece.

Standard Accessory: • SPANNER

Sealed Collet	Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Screw	Spanner
P.X-52	P.X-72~73	P.X-81, 85	P.X-86	P.X-89	P.X-125

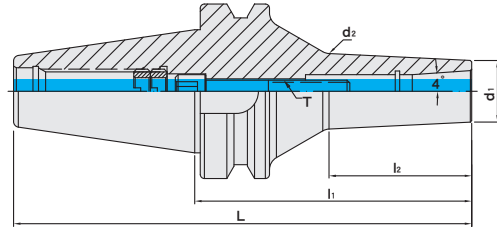


BT / EBLC SLIM-FIT COLLET CHUCK

BT



BT / EBLC 後拉式刀桿



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	RECOMMENDED TORQUE		SIZE RANGE	WEIGHT (KGS)
								N.m	lbf-ft		
5010-195-006-070	BT30 x EBLC6 - 70	118.4	70	40.6	19.05	23	M6 x 1.0P	12	9	3 ~ 6	0.50
5010-195-006-100	BT30 x EBLC6 - 100	148.4	100	72.2	19.05	26	M6 x 1.0P	12	9	3 ~ 6	0.61
5011-195-006-070	BT40 x EBLC6 - 70	135.4	70	29.9	19.05	21.9	M6 x 1.0P	12	9	3 ~ 6	1.20
5011-195-006-100	BT40 x EBLC6 - 100	165.4	100	61.4	19.05	25	M6 x 1.0P	12	9	3 ~ 6	1.22
5011-195-006-125	BT40 x EBLC6 - 125	190.4	125	87.7	19.05	27.6	M6 x 1.0P	12	9	3 ~ 6	1.40
5011-195-006-200	BT40 x EBLC6 - 200	265.4	200	163.7	19.05	35	M6 x 1.0P	12	9	3 ~ 6	1.77
5011-195-008-070	BT40 x EBLC8 - 70	135.4	70	28.2	22.225	24.9	M8 x 1.25P	29	21	3 ~ 8	1.14
5011-195-008-100	BT40 x EBLC8 - 100	165.4	100	59.8	22.225	28	M8 x 1.25P	29	21	3 ~ 8	1.26
5011-195-008-125	BT40 x EBLC8 - 125	190.4	125	85.09	22.225	30.6	M8 x 1.25P	29	21	3 ~ 8	1.40
5011-195-008-200	BT40 x EBLC8 - 200	265.4	200	160.7	22.225	37.9	M8 x 1.25P	29	21	3 ~ 8	1.91
5012-195-006-070	BT50 x EBLC6 - 70	171.8	70	18.3	19.05	20.8	M6 x 1.0P	12	9	3 ~ 6	3.68
5012-195-006-100	BT50 x EBLC6 - 100	201.8	100	49.9	19.05	23.9	M6 x 1.0P	12	9	3 ~ 6	3.77
5012-195-006-125	BT50 x EBLC6 - 125	226.8	125	69.8	19.05	25.9	M6 x 1.0P	12	9	3 ~ 6	3.95
5012-195-006-200	BT50 x EBLC6 - 200	301.8	200	151.7	19.05	33.8	M6 x 1.0P	12	9	3 ~ 6	4.22
5012-195-008-070	BT50 x EBLC8 - 70	171.8	70	16.6	22.225	23.8	M8 x 1.25P	29	21	3 ~ 8	3.71
5012-195-008-100	BT50 x EBLC8 - 100	201.8	100	48.2	22.225	26.9	M8 x 1.25P	29	21	3 ~ 8	3.83
5012-195-008-125	BT50 x EBLC8 - 125	226.8	125	66.8	22.225	28.7	M8 x 1.25P	29	21	3 ~ 8	3.95
5012-195-008-200	BT50 x EBLC8 - 200	301.8	200	148.7	22.225	36.7	M8 x 1.25P	29	21	3 ~ 8	4.34



▶ SBLC



▶ EBLC

Features:

- ▶ EBLC collet chuck used for center coolant improves the metal chip removal capability and the surface finish of the workpiece.
- ▶ EBL sealed collet with extended length shortens tool overhanging length and improves the machining stability.
- ▶ The optimized design of thicker neck improves the machining rigidity and eliminates vibration, resulting in excellent surface finish of workpiece.
- ▶ EBL sealed collet is capable of coolant pressure up to 25bar.

Standard Accessory: • SPANNER

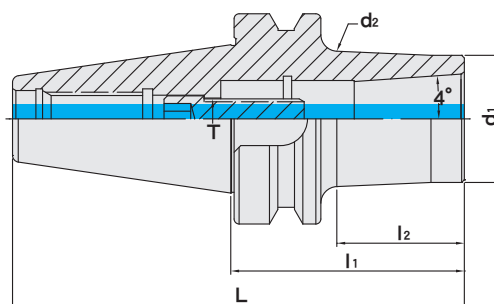
Sealed Collet	Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Screw	Spanner
P.X-52	P.X-72~73	P.X-81, 85	P.X-86	P.X-89	P.X-125



BT / HBL SLIM-FIT COLLET CHUCK

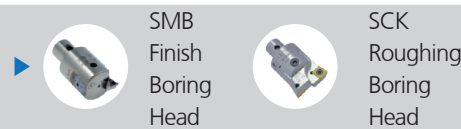
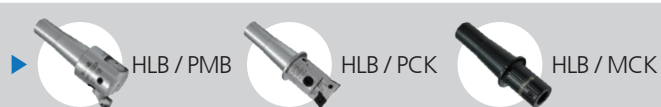
5 μ mBALANCE
G2.5
25,000 RPM

BT / HBL 後拉式立銑刀夾頭



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	WEIGHT (KGS)
5010-275-012-070	BT30 x HBL12 - 70	118.4	70	47	31.75	34.9	M10 x 1.5P	1.14
5010-275-012-100	BT30 x HBL12 - 100	148.4	100	77	31.75	37.6	M10 x 1.5P	1.65
5010-275-020-080	BT30 x HBL20 - 80	128.4	80	56	38.1	42.1	M12 x 1.75P	1.40
5010-275-020-100	BT30 x HBL20 - 100	148.4	100	76	38.1	43.9	M12 x 1.75P	1.65
5011-275-012-070	BT40 x HBL12 - 70	135.4	70	33	31.75	33.7	M10 x 1.5P	1.70
5011-275-012-100	BT40 x HBL12 - 100	165.4	100	63	31.75	36.4	M10 x 1.5P	1.90
5011-275-020-070	BT40 x HBL20 - 70	135.4	70	38	38.1	40.5	M12 x 1.75P	1.70
5011-275-020-100	BT40 x HBL20 - 100	165.4	100	68	38.1	43.1	M12 x 1.75P	1.90
5011-275-025-080	BT40 x HBL25 - 80	145.4	80	00	44.45	47.9	M16 x 1.5P	1.90
5011-275-025-100	BT40 x HBL25 - 100	165.4	100	70	44.45	49.7	M16 x 1.5P	2.10
5012-275-012-070	BT50 x HBL12 - 70	171.8	70	22	31.75	32.8	M10 x 1.5P	4.40
5012-275-012-100	BT50 x HBL12 - 100	201.8	100	52	31.75	35.4	M10 x 1.5P	4.50
5012-275-020-070	BT50 x HBL20 - 70	171.8	70	22	38.1	39.1	M12 x 1.75P	4.80
5012-275-020-100	BT50 x HBL20 - 100	201.8	100	52	38.1	41.8	M12 x 1.75P	4.90
5012-275-025-070	BT50 x HBL25 - 70	171.8	70	22	44.45	45.5	M16 x 1.5P	5.00
5012-275-025-100	BT50 x HBL25 - 100	201.8	100	52	44.45	48.1	M16 x 1.5P	5.20

HLB Cutter for HBL Slim-Fit Collet Chuck



Features:

- ▶ Two-face contact between collet taper, collet flange and the end of HBL tool holder, increases the rigidity of machining.
- ▶ Modular system, assembled with HLB tools.
- ▶ HBL drawbar clamping design strengthens the axial clamping force.

Product information:

- ▶ When assembling with coolant through HLB cutter SLC sealed collet, please change the screw into coolant screw, which is available to order separately.
- ▶ 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: ● SPANNER

SLC Collet	Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Spanner	HLB CUTTER	Screw
P.X-49~51	P.X-72~73	P.X-81, 85	P.X-86	P.X-89	P.X-92~106	P.X-125

BT / MLD MULTI-LOCK MILLING CHUCK

BT

BT / MLD 直式筒夾 銑床夾頭



Fig.1

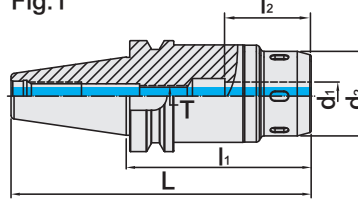
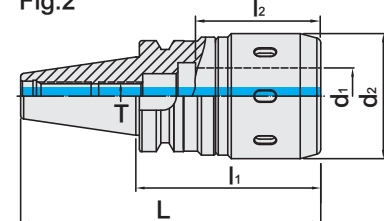
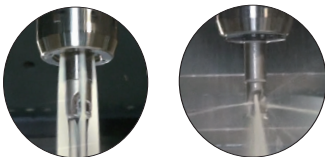


Fig.2



METRIC

MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	Fig	WEIGHT (KGS)
5010-460-012-080	BT30 x MLD12 - 80	128.4	80	46.7	12	42	M10 x 1.5P	2	1.00
5010-460-016-075	BT30 x MLD16 - 75	123.4	75	56.7	16	48	M12 x 1.75P	1	1.20
5010-460-020-080	BT30 x MLD20 - 80	128.4	80	59.3	20	56.5	M12 x 1.75P	2	1.90
5010-460-020-090	BT30 x MLD20 - 90	138.4	90	59.3	20	56.5	M16 x 2.0P	2	2.00
5010-460-025-090	BT30 x MLD25 - 90	138.4	90	58.2	25	60	M16 x 2.0P	2	1.80
5011-460-012-075	BT40 x MLD12 - 75	140.4	75	46.7	12	42	M12 x 1.75P	1	1.50
5011-460-012-105	BT40 x MLD12 - 105	170.4	105	46.7	12	42	M12 x 1.75P	1	2.00
5011-460-012-135	BT40 x MLD12 - 135	200.4	135	46.7	12	42	M12 x 1.75P	1	2.10
5011-460-016-075	BT40 x MLD16 - 75	140.4	75	56.7	16	48	M12 x 1.75P	1	1.70
5011-460-016-105	BT40 x MLD16 - 105	170.4	105	56.7	16	48	M12 x 1.75P	1	2.30
5011-460-016-135	BT40 x MLD16 - 135	200.4	135	56.7	16	48	M12 x 1.75P	1	2.40
5011-460-020-080	BT40 x MLD20 - 80	145.4	80	59.3	20	56.5	M16 x 2.0P	1	2.30
5011-460-020-100	BT40 x MLD20 - 100	165.4	100	59.3	20	56.5	M16 x 2.0P	1	2.50
5011-460-020-135	BT40 x MLD20 - 135	200.4	135	59.3	20	56.5	M16 x 2.0P	1	2.80
5011-460-025-085	BT40 x MLD25 - 85	150.4	85	58.2	25	60	M16 x 2.0P	1	2.20
5011-460-025-100	BT40 x MLD25 - 100	165.4	100	58.2	25	60	M16 x 2.0P	1	2.40
5011-460-032-095	BT40 x MLD32 - 95	160.4	95	71.7	32	71	M16 x 2.0P	2	2.70
5011-460-032-105	BT40 x MLD32 - 105	170.4	105	71.7	32	71	M16 x 2.0P	2	2.70
5011-460-032-135	BT40 x MLD32 - 135	200.4	135	71.7	32	71	M16 x 2.0P	2	3.00



Features:

- ▶ The special slotted design of the internal hole increases the clamping force and decreases vibration, making this milling chuck set suitable for heavy-duty machining.
- ▶ Collet runout accuracy: HSC collet 5μm, 8μm and SSC collet 10μm< two options to choose from.
- ▶ After fastening, the nuts and tool holders contact tight to enhance the cutting rigidity and achieve dustproof purposes.
- ▶ Coolant options: through the center of the holder or cutter. Use a sealed cap and SR ring for coolant through the cutter.

Product information:

- ▶ 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	Sealed Cap	SR Sealed Ring	Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Spanner	Spanner	Set Screw
P.X-54~55	P.X-70	P.X-71	P.X-72~73	P.X-81, 85	P.X-86	P.X-87~89	P.X-91	P.X-121



BT / MLD MULTI-LOCK MILLING CHUCK

BT / MLD 直式筒夾 銑床夾頭



台灣精品 2014
TAIWAN EXCELLENCE



Fig.1

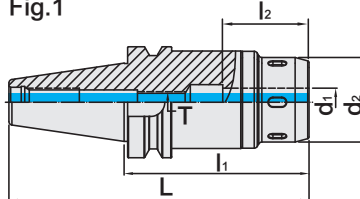
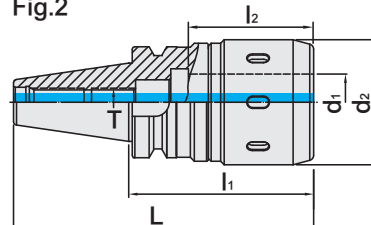
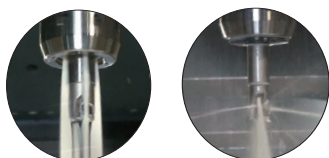


Fig.2



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	Fig	WEIGHT (KGS)
5012-460-012-105	BT50 x MLD12 - 105	206.8	105	46.7	12	42	M12 x 1.75P	1	4.60
5012-460-012-135	BT50 x MLD12 - 135	236.8	135	46.7	12	42	M12 x 1.75P	1	5.10
5012-460-012-165	BT50 x MLD12 - 165	266.8	165	46.7	12	42	M12 x 1.75P	1	5.80
5012-460-016-105	BT50 x MLD16 - 105	206.8	105	56.7	16	48	M12 x 1.75P	1	4.90
5012-460-016-135	BT50 x MLD16 - 135	236.8	135	56.7	16	48	M12 x 1.75P	1	5.60
5012-460-016-165	BT50 x MLD16 - 165	266.8	165	56.7	16	48	M12 x 1.75P	1	6.50
5012-460-020-105	BT50 x MLD20 - 105	206.8	105	59.3	20	56.5	M16 x 2.0P	1	4.50
5012-460-020-150	BT50 x MLD20 - 150	251.8	150	59.3	20	56.5	M16 x 2.0P	1	4.90
5012-460-025-100	BT50 x MLD25 - 100	201.8	100	58.2	25	60	M16 x 2.0P	1	4.80
5012-460-025-130	BT50 x MLD25 - 130	231.8	130	58.2	25	60	M16 x 2.0P	1	5.70
5012-460-032-105	BT50 x MLD32 - 105	206.8	105	71.7	32	71	M24 x 3.0P	1	5.00
5012-460-032-135	BT50 x MLD32 - 135	236.8	135	71.7	32	71	M24 x 3.0P	1	5.20
5012-460-032-165	BT50 x MLD32 - 165	266.8	165	71.7	32	71	M24 x 3.0P	1	6.70
5012-460-042-115	BT50 x MLD42 - 115	216.8	115	84.8	42	90	M24 x 3.0P	1	5.50
5012-460-042-130	BT50 x MLD42 - 130	231.8	130	84.8	42	90	M24 x 3.0P	1	6.50
5012-460-042-165	BT50 x MLD42 - 165	266.8	165	84.8	42	90	M24 x 3.0P	1	7.70



Features:

- ▶ The special slotted design of the internal hole increases the clamping force and decreases vibration, making this milling chuck set suitable for heavy-duty machining.
- ▶ Collet runout accuracy: HSC collet 5μm, 8μm and SSC collet 10μm < two options to choose from.
- ▶ After fastening, the nuts and tool holders contact tight to enhance the cutting rigidity and achieve dustproof purposes.
- ▶ Coolant options: through the center of the holder or cutter. Use a sealed cap and SR ring for coolant through the cutter.

Product information:

- ▶ AD+B type is available, please inform us when making an order.

Standard Accessory: • NUT

Collet	Sealed Cap	SR Sealed Ring	Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Spanner	Spanner	Set Screw
P.X-54~55	P.X-70	P.X-71	P.X-72~73	P.X-81, 85	P.X-86	P.X-87~89	P.X-91	P.X-121



BT / MLD MULTI-LOCK MILLING CHUCK

BT

BT / MLD 直式筒夾 銑床夾頭



台灣精品 2014
TAIWAN EXCELLENCE



Fig.1

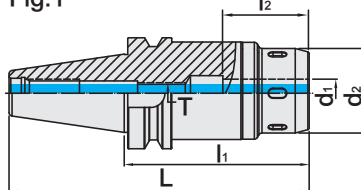
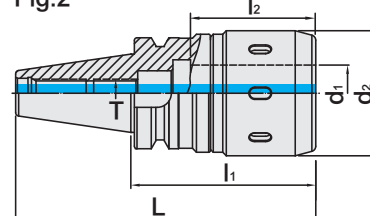
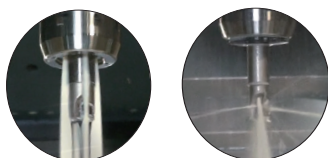


Fig.2



INCHES

MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	Fig	WEIGHT (KGS)
5010-460-A32-315	BT30 x MLD1/2" - 3.15"	5.05	3.15	1.84	0.5	1.654	M12 x 1.75P	2	1.00
5010-460-A40-295	BT30 x MLD5/8" - 2.95"	4.86	2.95	2.23	0.625	1.889	M12 x 1.75P	1	1.20
5010-460-A48-354	BT30 x MLD3/4" - 3.54"	5.449	3.54	2.34	0.75	2.224	M12 x 1.75P	2	1.90
5010-460-A64-354	BT30 x MLD1" - 3.54"	5.449	3.54	2.49	1	2.362	M16 x 2.0P	2	1.80
5011-460-A32-295	BT40 x MLD1/2" - 2.95"	5.528	2.95	1.84	0.5	1.654	M12 x 1.75P	1	1.50
5011-460-A40-295	BT40 x MLD5/8" - 2.95"	5.528	2.95	2.23	0.625	1.889	M12 x 1.75P	1	1.70
5011-460-A48-315	BT40 x MLD3/4" - 3.15"	5.724	3.15	2.34	0.75	2.224	M16 x 2.0P	1	2.30
5011-460-A64-315	BT40 x MLD1" - 3.15"	5.724	3.15	2.49	1	2.362	M16 x 2.0P	1	2.20
5011-460-A72-400	BT40 x MLD1-1/4" - 4"	6.575	4	2.8	1.25	2.795	M16 x 2.0P	2	2.70
5012-460-A32-400	BT50 x MLD1/2" - 4"	8.008	4	1.84	0.5	1.654	M12 x 1.75P	1	4.60
5012-460-A40-400	BT50 x MLD5/8" - 4"	8.008	4	2.23	0.625	1.889	M12 x 1.75P	1	4.90
5012-460-A48-400	BT50 x MLD3/4" - 4"	8.008	4	2.34	0.75	2.224	M16 x 2.0P	1	4.50
5012-460-A64-413	BT50 x MLD1" - 4.13"	8.14	4.13	2.49	1	2.362	M16 x 2.0P	1	4.80
5012-460-A64-512	BT50 x MLD1" - 5.12"	9.126	5.12	2.49	1	2.362	M16 x 2.0P	1	5.70
5012-460-A72-400	BT50 x MLD1-1/4" - 4"	8.008	4	2.8	1.25	2.795	M24 x 3.0P	1	4.90



Features:

- ▶ The special slotted design of the internal hole increases the clamping force and decreases vibration, making this milling chuck set suitable for heavy-duty machining.
- ▶ Collet runout accuracy: HSC collet 5μm, 8μm and SSC collet 10μm< two options to choose from.
- ▶ After fastening, the nuts and tool holders contact tight to enhance the cutting rigidity and achieve dustproof purposes.
- ▶ Coolant options: through the center of the holder or cutter. Use a sealed cap and SR ring for coolant through the cutter.

Product information:

- ▶ 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	Sealed Cap	SR Sealed Ring	Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Spanner	Set Screw
P.X-54~55	P.X-70	P.X-71	P.X-72~73	P.X-81, 85	P.X-86	P.X-87~89	P.X-121

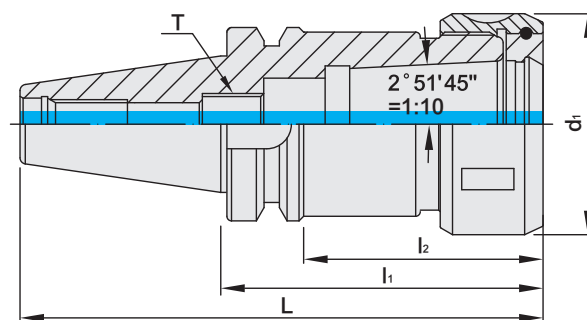


BT / EOC TOOL HOLDER



BT / EOC 刀桿

[ISO 10897]



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	T	SIZE RANGE	WEIGHT (KGS)
5010-121-025-070	BT30 x EOC25 - 70	118.4	70	48	60	M12 x 1.75P	3 ~ 25	1.00
5011-121-025-070	BT40 x EOC25 - 70	135.4	70	40.5	60	M16 x 2.0P	3 ~ 25	1.38
5011-121-025-100	BT40 x EOC25 - 100	165.4	100	70.5	60	M16 x 2.0P	3 ~ 25	1.74
5011-121-025-120	BT40 x EOC25 - 120	185.4	120	88	60	M16 x 2.0P	3 ~ 25	1.74
5011-121-032-090	BT40 x EOC32 - 90	155.4	90	63	72	M20 x 2.0P	4 ~ 32	2.00
5011-121-032-105	BT40 x EOC32 - 105	170.4	105	78	72	M20 x 2.0P	4 ~ 32	2.20
5011-121-032-120	BT40 x EOC32 - 120	185.4	120	93	72	M20 x 2.0P	4 ~ 32	2.45
5012-121-025-085	BT50 x EOC25 - 85	186.8	85	44.5	60	M16 x 2.0P	3 ~ 25	4.40
5012-121-025-100	BT50 x EOC25 - 100	201.8	100	59.5	60	M16 x 2.0P	3 ~ 25	4.80
5012-121-025-120	BT50 x EOC25 - 120	221.8	120	77	60	M16 x 2.0P	3 ~ 25	5.20
5012-121-032-090	BT50 x EOC32 - 90	191.8	90	44	72	M24 x 2.0P	4 ~ 32	4.60
5012-121-032-105	BT50 x EOC32 - 105	206.8	105	59	72	M24 x 2.0P	4 ~ 32	4.85
5012-121-032-120	BT50 x EOC32 - 120	221.8	120	74	72	M24 x 2.0P	4 ~ 32	5.35

Features:

- ▶ Attached with POWER GOOD EOC clamping nuts, good clamping force, and suitable for heavy-duty machining.
- ▶ Used with DIN 6388 EOC and SYOZ collets.
- ▶ Standard tool kits of 7PC and 15PC are available.

Product information:

- ▶ 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

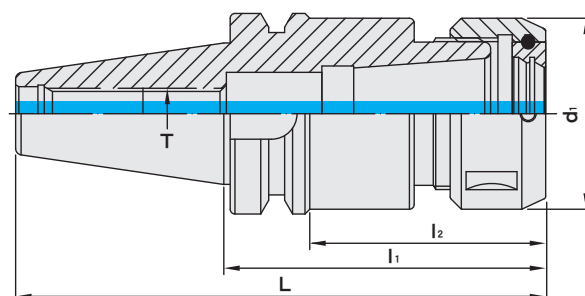
Collet	Nut	Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Spanner	Preset Screw
P.X-57	P.X-69	P.X-72~73	P.X-85	P.X-86	P.X-81~82,89	P.X-121



BT / TG TOOL HOLDER



BT / TG 刀桿



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	T	SIZE RANGE	WEIGHT (KGS)
5010-691-075-070	BT30 x TG75 - 70	118.4	70	47	50	M16 x 2.0P	3 ~ 16	1.10
5010-691-075-100	BT30 x TG75 - 100	148.4	100	77	50	M16 x 2.0P	3 ~ 16	1.15
5010-691-100-100	BT30 x TG100 - 100	148.4	100	78	60	-	3 ~ 25	1.20
5011-691-100-070	BT40 x TG100 - 70	135.4	70	43	60	M16 x 2.0P	3 ~ 25	1.20
5011-691-100-100	BT40 x TG100 - 100	165.4	100	73	60	M16 x 2.0P	3 ~ 25	1.90
5011-691-100-120	BT40 x TG100 - 120	185.4	120	93	60	M16 x 2.0P	3 ~ 25	2.40
5011-691-150-105	BT40 x TG150 - 105	170.4	105	78	82	M24 x 2.0P	4 ~ 38	2.70
5011-691-150-120	BT40 x TG150 - 120	185.4	120	93	82	M24 x 2.0P	4 ~ 38	2.90
5011-691-150-135	BT40 x TG150 - 135	200.4	135	108	82	M24 x 2.0P	4 ~ 38	3.20
5012-691-100-085	BT50 x TG100 - 85	186.8	85	44	60	M24 x 2.0P	3 ~ 25	3.40
5012-691-100-100	BT50 x TG100 - 100	201.8	100	57	60	M24 x 2.0P	3 ~ 25	4.40
5012-691-100-120	BT50 x TG100 - 120	221.8	120	77	60	M24 x 2.0P	3 ~ 25	5.10
5012-691-150-090	BT50 x TG150 - 90	191.8	90	50	82	M24 x 2.0P	4 ~ 38	5.70
5012-691-150-105	BT50 x TG150 - 105	206.8	105	64	82	M24 x 2.0P	4 ~ 38	6.10
5012-691-150-120	BT50 x TG150 - 120	221.8	120	79	82	M24 x 2.0P	4 ~ 38	6.50

Features:

- ▶ Using with 4.1751° taper angle TG collets enables better clamping force than 8° ER collets.
- ▶ Design of square threads for POWER GOOD nuts allows high clamping torque, suitable for heavy-duty machining.
- ▶ TG sealed collets are available for coolant through tools.

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	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Spanner	Preset Screw
P.X-58~59	P.X-69	P.X-72~73	P.X-81, 85	P.X-86	P.X-89	P.X-121



BT / SAF RUNOUT ADJUSTABLE HOLDER

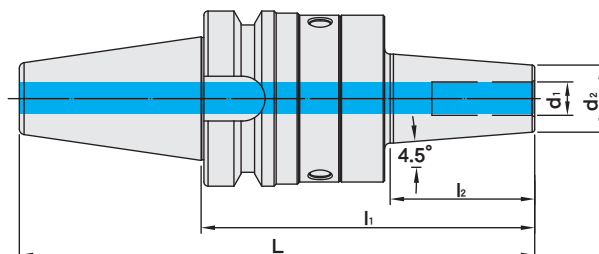
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BT / SAF 可調式刀桿

[SFC TYPE]



TW PAT NO. I805264
J P PAT NO. 3237773
D E PAT NO. 202022102696
C N PAT NO. ZL202221891039.3



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	COMBINATION		WEIGHT (KGS)
							BODY	FLANGE ADAPTER	
5010-S27-006-110	BT30 x SAF6C - 110	158.4	110	52	6	21	BT30 x SAF25	SFC6 - 70	1.13
5010-S27-008-110	BT30 x SAF8C - 110	158.4	110	52	8	21	BT30 x SAF25	SFC8 - 70	1.12
5010-S27-010-110	BT30 x SAF10C - 110	158.4	110	52	10	24	BT30 x SAF25	SFC10 - 70	1.17
5010-S27-012-110	BT30 x SAF12C - 110	158.4	110	52	12	24	BT30 x SAF25	SFC12 - 70	1.15
5010-S27-016-115	BT30 x SAF16C - 115	163.4	115	57	16	27	BT30 x SAF25	SFC16 - 75	1.20
5011-S27-006-120	BT40 x SAF6C - 120	185.4	120	52	6	21	BT40 x SAF25	SFC6 - 70	1.86
5011-S27-008-120	BT40 x SAF8C - 120	185.4	120	52	8	21	BT40 x SAF25	SFC8 - 70	1.85
5011-S27-010-120	BT40 x SAF10C - 120	185.4	120	52	10	24	BT40 x SAF25	SFC10 - 70	1.90
5011-S27-012-120	BT40 x SAF12C - 120	185.4	120	52	12	24	BT40 x SAF25	SFC12 - 70	1.88
5011-S27-016-125	BT40 x SAF16C - 125	190.4	125	57	16	27	BT40 x SAF25	SFC16 - 75	1.93
5011-S27-020-130	BT40 x SAF20C - 130	195.4	130	60	20	33	BT40 x SAF40	SFC20 - 80	2.67
5011-S27-025-150	BT40 x SAF25C - 150	215.4	150	81	25	44	BT40 x SAF40	SFC25 - 100	3.20
5011-S27-032-150	BT40 x SAF32C - 150	215.4	150	81	32	44	BT40 x SAF40	SFC32 - 100	3.06
5012-S27-006-130	BT50 x SAF6C - 130	231.8	130	52	6	21	BT50 x SAF25	SFC6 - 70	4.34
5012-S27-008-130	BT50 x SAF8C - 130	231.8	130	52	8	21	BT50 x SAF25	SFC8 - 70	4.33
5012-S27-010-130	BT50 x SAF10C - 130	231.8	130	52	10	24	BT50 x SAF25	SFC10 - 70	4.38
5012-S27-012-130	BT50 x SAF12C - 130	231.8	130	52	12	24	BT50 x SAF25	SFC12 - 70	4.36
5012-S27-016-135	BT50 x SAF16C - 135	236.8	135	57	16	27	BT50 x SAF25	SFC16 - 75	4.41
5012-S27-020-140	BT50 x SAF20C - 140	241.8	140	60	20	33	BT50 x SAF40	SFC20 - 80	5.26
5012-S27-025-160	BT50 x SAF25C - 160	261.8	160	81	25	44	BT50 x SAF40	SFC25 - 100	5.79
5012-S27-032-160	BT50 x SAF32C - 160	261.8	160	81	32	44	BT50 x SAF40	SFC32 - 100	5.65

Features:

- ▶ The runout accuracy of tool edges can be adjusted within 5μm.
- ▶ Different output options to meet customer machining requirements.
- ▶ Suitable for reaming, drilling and milling.

Standard Accessory: • WRENCH (FOR ADJUSTMENT SCREW) • PIN

Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Shrink Fit Chuck Flange	Preset Screw
P.X-72~73	P.X-81, 85	P.X-86	P.X-107	P.X-121



BT / SAF RUNOUT ADJUSTABLE HOLDER

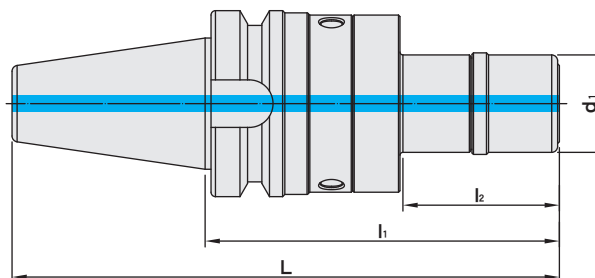
BT

BT / SAF 可調式刀桿

[SK3 TYPE]



TW PAT NO. I805264
J P PAT NO. 3237773
DE PAT NO. 202022102696
CN PAT NO. ZL202221891039.3



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	COMBINATION		COLLET	WEIGHT (KGS)
						BODY	FLANGE ADAPTER		
5010-S28-006-090	BT30 x SAF6K - 90	138.4	90	29	19.5	BT30 x SAF25	SK306 - 50	SKX6	1.00
5010-S28-010-090	BT30 x SAF10K - 90	138.4	90	32.5	27.5	BT30 x SAF25	SK310 - 50	SKX10	1.03
5010-S28-013-110	BT30 x SAF13K - 110	158.4	110	53	33	BT30 x SAF25	SK313 - 70	SKX13	1.16
5011-S28-006-100	BT40 x SAF6K - 100	165.4	100	29	19.5	BT40 x SAF25	SK306 - 50	SKX6	1.73
5011-S28-006-150	BT40 x SAF6K - 150	215.4	150	79	19.5	BT40 x SAF25	SK306 - 100	SKX6	1.82
5011-S28-010-100	BT40 x SAF10K - 100	165.4	100	32.5	27.5	BT40 x SAF25	SK310 - 50	SKX10	1.76
5011-S28-010-150	BT40 x SAF10K - 150	215.4	150	82.5	27.5	BT40 x SAF25	SK310 - 100	SKX10	1.95
5011-S28-013-120	BT40 x SAF13K - 120	185.4	120	53	33	BT40 x SAF25	SK313 - 70	SKX13	1.89
5011-S28-013-150	BT40 x SAF13K - 150	215.4	150	83	33	BT40 x SAF25	SK313 - 100	SKX13	2.07
5011-S28-016-120	BT40 x SAF16K - 120	185.4	120	49.9	40	BT40 x SAF40	SK316 - 70	SKX16	2.56
5011-S28-016-150	BT40 x SAF16K - 150	215.4	150	79.9	40	BT40 x SAF40	SK316 - 100	SKX16	2.82
5012-S28-006-110	BT50 x SAF6K - 110	211.8	110	29	19.5	BT50 x SAF25	SK306 - 50	SKX6	4.21
5012-S28-006-160	BT50 x SAF6K - 160	261.8	160	79	19.5	BT50 x SAF25	SK306 - 100	SKX6	4.30
5012-S28-010-110	BT50 x SAF10K - 110	211.8	110	32.5	27.5	BT50 x SAF25	SK310 - 50	SKX10	4.24
5012-S28-010-160	BT50 x SAF10K - 160	261.8	160	82.5	27.5	BT50 x SAF25	SK310 - 100	SKX10	4.43
5012-S28-013-130	BT50 x SAF13K - 130	231.8	130	53	33	BT50 x SAF25	SK313 - 70	SKX13	4.37
5012-S28-013-160	BT50 x SAF13K - 160	261.8	160	83	33	BT50 x SAF25	SK313 - 100	SKX13	4.55
5012-S28-016-130	BT50 x SAF16K - 130	231.8	130	49.9	40	BT50 x SAF40	SK316 - 70	SKX16	5.15
5012-S28-016-160	BT50 x SAF16K - 160	261.8	160	79.9	40	BT50 x SAF40	SK316 - 100	SKX16	5.41

Features:

- ▶ The runout accuracy of tool edges can be adjusted within 5μm.
- ▶ Different output options to meet customer machining requirements.
- ▶ Suitable for reaming, drilling and milling.

Standard Accessory: • NUT • WRENCH (FOR ADJUSTMENT SCREW) • PIN

Collet	Nut	Pull Stud	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	SK3 Collet Chuck Flange	Preset Screw
P.X-46~48	P.X-68	P.X-72~73	P.X-81,83~84,91	P.X-85	P.X-86	P.X-108	P.X-121



BT / SAF RUNOUT ADJUSTABLE HOLDER

BT

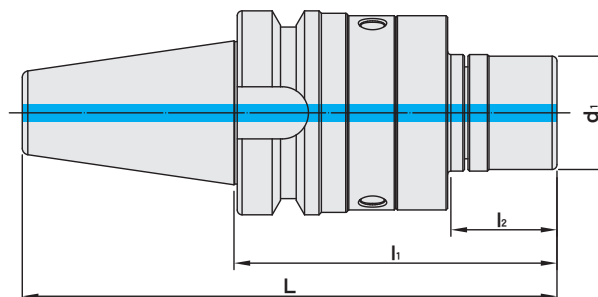


BT / SAF 可調式刀桿

(UT TYPE)



TW PAT NO. I805264
J P PAT NO. 3237773
D E PAT NO. 202022102696
C N PAT NO. ZL202221891039.3



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	COMBINATION		COLLET	WEIGHT (KGS)
						BODY	FLANGE ADAPTER		
5010-S30-016-090	BT30 x SAF16U - 90	138.4	90	32	30	BT30 x SAF25	UT16 - 50	ER16	1.08
5010-S30-020-090	BT30 x SAF20U - 90	138.4	90	33	35	BT30 x SAF25	UT20 - 50	ER20	1.10
5011-S30-016-100	BT40 x SAF16U - 100	165.4	100	32	30	BT40 x SAF25	UT16 - 50	ER16	1.81
5011-S30-020-100	BT40 x SAF20U - 100	165.4	100	33	35	BT40 x SAF25	UT20 - 50	ER20	1.83
5011-S30-025-110	BT40 x SAF25U - 110	175.4	110	38.9	42	BT40 x SAF40	UT25 - 60	ER25	2.57
5011-S30-032-110	BT40 x SAF32U - 110	175.4	110	40.9	48	BT40 x SAF40	UT32 - 60	ER32	2.60
5012-S30-016-110	BT50 x SAF16U - 110	211.8	110	32	30	BT50 x SAF25	UT16 - 50	ER16	4.29
5012-S30-020-110	BT50 x SAF20U - 110	211.8	110	33	35	BT50 x SAF25	UT20 - 50	ER20	4.31
5012-S30-025-120	BT50 x SAF25U - 120	221.8	120	38.9	42	BT50 x SAF40	UT25 - 60	ER25	5.16
5012-S30-032-120	BT50 x SAF32U - 120	221.8	120	40.9	48	BT50 x SAF40	UT32 - 60	ER32	5.19

Features:

- ▶ The runout accuracy of tool edges can be adjusted within 5μm.
- ▶ Different output options to meet customer machining requirements.
- ▶ Suitable for reaming, drilling and milling.

Standard Accessory: • NUT • WRENCH (FOR ADJUSTMENT SCREW) • PIN

Collet	Nut	Pull Stud	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	UT Collet Chuck Flange	Preset Screw
P.X-19~22	P.X-61	P.X-72~73	P.X-81,83~84,91	P.X-85	P.X-86	P.X-109	P.X-121

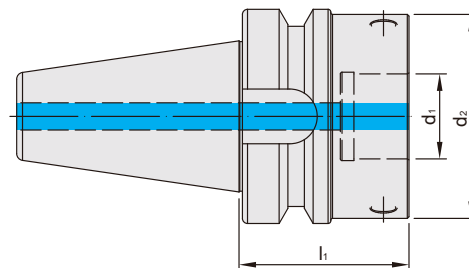


SAF RUNOUT ADJUSTABLE HOLDER BODY

SAF 可調式刀桿本體



TW PAT NO. 1805264
JP PAT NO. 3237773
DE PAT NO. 202022102696
CN PAT NO. ZL202221891039.3



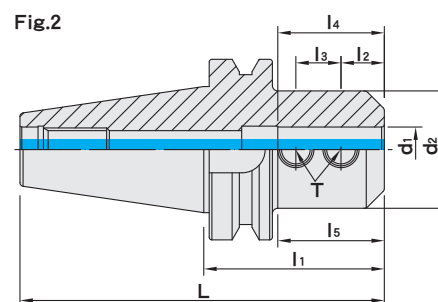
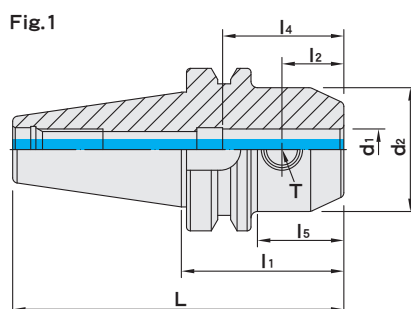
MODEL NO.	TYPE	l_1	d_1	d_2	SAF NO.	WEIGHT (KGS)
5010-783-025-040	BT30 x SAF25 - 40	40	25	60	1	0.61
5011-783-025-050	BT40 x SAF25 - 50	50	25	60	1	1.34
5011-783-040-050	BT40 x SAF40 - 50	50	40	80	2	1.48
5012-783-025-060	BT50 x SAF25 - 60	60	25	60	1	3.82
5012-783-040-060	BT50 x SAF40 - 60	60	40	80	2	4.07



BT / SLN SIDE LOCK END MILL HOLDER

BT / SLN 側固式立銑刀桿

(DIN 1835)



MODEL NO.	TYPE	L	l ₁	l ₂	l ₃	l ₄	l ₅	d ₁	d ₂	T	Fig	WEIGHT (KGS)
5010-653-006-060	BT30 x SLN6 - 60	108.4	60	18	-	35	33	6	25	M6 x 1.0P	1	0.55
5010-653-008-060	BT30 x SLN8 - 60	108.4	60	18	-	35	33	8	28	M8 x 1.25P	1	0.60
5010-653-010-060	BT30 x SLN10 - 60	108.4	60	20	-	39	35	10	35	M10 x 1.5P	1	0.70
5010-653-012-060	BT30 x SLN12 - 60	108.4	60	22.5	-	44	36	12	42	M12 x 1.75P	1	0.75
5010-653-016-075	BT30 x SLN16 - 75	123.4	75	24	-	47	53	16	48	M14 x 2.0P	1	1.05
5010-653-020-075	BT30 x SLN20 - 75	123.4	75	25	-	49	53	20	52	M16 x 2.0P	1	1.10
5010-653-025-090	BT30 x SLN25 - 90	138.4	90	24	25	58	68	25	65	M18 x 2.0P	2	1.70
5011-653-006-050	BT40 x SLN6 - 50	115.4	50	18	-	35	20	6	25	M6 x 1.0P	1	1.10
5011-653-006-150	BT40 x SLN6 - 150	215.4	150	18	-	35	113	6	25	M6 x 1.0P	1	1.32
5011-653-008-050	BT40 x SLN8 - 50	115.4	50	18	-	35	20	8	28	M8 x 1.25P	1	1.10
5011-653-008-150	BT40 x SLN8 - 150	215.4	150	18	-	35	113	8	28	M8 x 1.25P	1	1.30
5011-653-010-063	BT40 x SLN10 - 63	128.4	63	20	-	39	33	10	35	M10 x 1.5P	1	1.25
5011-653-010-150	BT40 x SLN10 - 150	215.4	150	20	-	39	113	10	35	M10 x 1.5P	1	1.40
5011-653-012-063	BT40 x SLN12 - 63	128.4	63	22.5	-	44	33	12	42	M12 x 1.75P	1	1.30
5011-653-012-150	BT40 x SLN12 - 150	215.4	150	22.5	-	44	116	12	42	M12 x 1.75P	1	1.53
5011-653-016-063	BT40 x SLN16 - 63	128.4	63	24	-	47	33	16	48	M14 x 2.0P	1	1.40
5011-653-016-150	BT40 x SLN16 - 150	215.4	150	24	-	47	120	16	48	M14 x 2.0P	1	1.60
5011-653-018-063	BT40 x SLN18 - 63	128.4	63	24	-	44	33	18	50	M14 x 2.0P	1	1.65
5011-653-020-063	BT40 x SLN20 - 63	128.4	63	25	-	49	33	20	52	M16 x 2.0P	1	1.40
5011-653-025-100	BT40 x SLN25 - 100	165.4	100	24	25	58	73	25	65	M18 x 2.0P	2	2.50
5011-653-032-100	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.
- ▶ Taking use of side lock screws to clamp tools with lateral flat surfaces. Good at heavy-duty machining.

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	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Lock Screw
P.X-72~73	P.X-81, 85	P.X-86	P.X-124



BT / SLN SIDE LOCK END MILL HOLDER

BT

BT / SLN 側固式立銑刀桿

(DIN 1835)



Fig.1

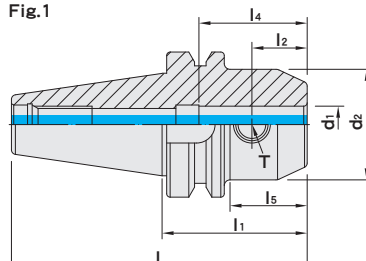
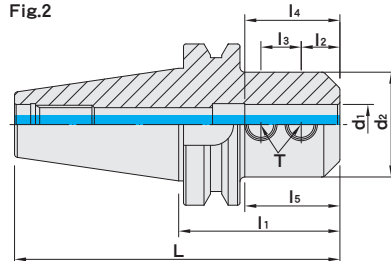


Fig.2



MODEL NO.	TYPE	L	l ₁	l ₂	l ₃	l ₄	l ₅	d ₁	d ₂	T	Fig	WEIGHT (KGS)
5012-653-006-063	BT50 x SLN6 - 63	164.8	63	18	-	35	20	6	25	M6 x 1.0P	1	3.80
5012-653-008-063	BT50 x SLN8 - 63	164.8	63	18	-	39	20	8	28	M8 x 1.25P	1	3.80
5012-653-010-063	BT50 x SLN10 - 63	164.8	63	20	-	39	22	10	35	M10 x 1.5P	1	3.00
5012-653-012-080	BT50 x SLN12 - 80	181.8	80	22.5	-	44	39	12	42	M12 x 1.75P	1	4.00
5012-653-016-080	BT50 x SLN16 - 80	181.8	80	24	-	47	32	16	48	M14 x 2.0P	1	4.40
5012-653-020-080	BT50 x SLN20 - 80	181.8	80	25	-	49	37	20	52	M16 x 2.0P	1	4.40
5012-653-025-100	BT50 x SLN25 - 100	201.8	100	24	25	58	59	25	65	M18 x 2.0P	2	5.10
5012-653-032-105	BT50 x SLN32 - 105	206.8	105	24	28	63	64	32	72	M20 x 2.0P	2	5.20
5012-653-040-115	BT50 x SLN40 - 115	216.8	115	30	32	75	74	40	90	M20 x 2.0P	2	6.70
5012-653-040-120	BT50 x SLN40 - 120	221.8	120	30	32	75	79	40	90	M20 x 2.0P	2	6.70
5012-653-042-120	BT50 x SLN42 - 120	221.8	120	30	32	75	79	42	90	M20 x 2.0P	2	6.70
5012-653-050-120	BT50 x SLN50 - 120	221.8	120	35	35	78	82	50	98	M24 x 2.0P	2	7.16
5012-653-A96-472	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.
- ▶ Taking use of side lock screws to clamp tools with lateral flat surfaces. Good at heavy-duty machining.

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.

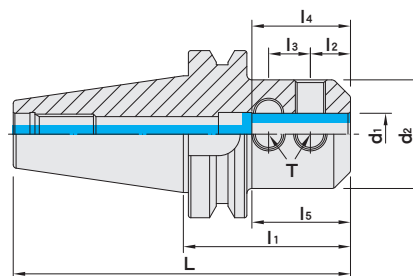
Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Lock Screw
			
P.X-72~73	P.X-81, 85	P.X-86	P.X-124



BT / SLN SIDE LOCK END MILL HOLDER

BT / SLN 側固式立銑刀桿

(DIN 1835)



MODEL NO.	TYPE	L	l ₁	l ₂	l ₃	l ₄	l ₅	d ₁	d ₂	T	WEIGHT (KGS)
5012-677-A96-472	BT50 x SLN50.8 - 120	221.8	120	33.1	28.58	75	81	50.8	95	M20 x 2.0P	7.20
5012-677-063-120	BT50 x SLN63 - 120	221.8	120	33.1	28.58	80	82	63	125	M16 x 2.0P	6.60

Features:

- ▶ Internal hole tolerance: H5 (DIN-1835-B standard).
- ▶ It is designed with a pin for improving the clamping stability.
- ▶ The tolerance requirement of tool shank diameter is h6.
- ▶ Taking use of side lock screws to clamp tools with lateral flat surfaces. Good at heavy-duty machining.

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	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Lock Screw
			
P.X-72~73	P.X-81, 85	P.X-86	P.X-124

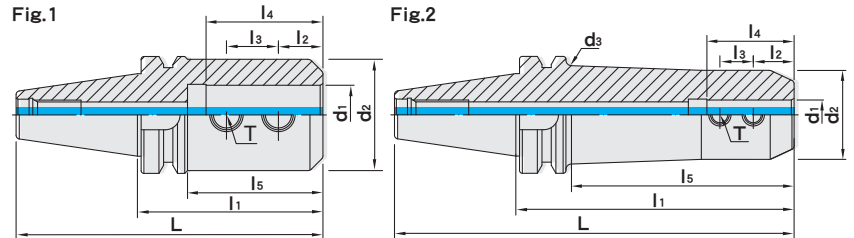


BT / SLN SIDE LOCK END MILL HOLDER

JIS TYPE

BT

BT / SLN 側固式立銑刀桿 [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)
5011-654-006-075	BT40 x SLN6 - 75JIS	140.4	75	12	10	35	45	6	25	-	M6 x 1.0P	1	1.20
5011-654-006-150	BT40 x SLN6 - 150JIS	215.4	150	12	10	35	113	6	25	30	M6 x 1.0P	2	1.50
5011-654-008-075	BT40 x SLN8 - 75JIS	140.4	75	14	12	35	45	8	28	-	M8 x 1.25P	1	1.20
5011-654-008-150	BT40 x SLN8 - 150JIS	215.4	150	14	12	35	113	8	28	33	M8 x 1.25P	2	1.50
5011-654-010-075	BT40 x SLN10 - 75JIS	140.4	75	15	14	39	45	10	35	-	M10 x 1.5P	1	1.40
5011-654-010-150	BT40 x SLN10 - 150JIS	215.4	150	15	14	39	118	10	35	40	M10 x 1.5P	2	1.50
5011-654-012-075	BT40 x SLN12 - 75JIS	140.4	75	20	16	44	45	12	42	-	M10 x 1.5P	1	1.50
5011-654-012-150	BT40 x SLN12 - 150JIS	215.4	150	20	16	44	118	12	42	47	M10 x 1.5P	2	1.70
5011-654-016-075	BT40 x SLN16 - 75JIS	140.4	75	22	18	47	45	16	48	-	M10 x 1.5P	1	1.60
5011-654-016-150	BT40 x SLN16 - 150JIS	215.4	150	22	18	47	120	16	48	53	M10 x 1.5P	2	1.70
5011-654-020-090	BT40 x SLN20 - 90JIS	155.4	90	25	20	55	60	20	50	-	M12 x 1.75P	1	1.75
5011-654-020-150	BT40 x SLN20 - 150JIS	215.4	150	25	20	55	120	20	52	57	M12 x 1.75P	2	1.80
5011-654-025-090	BT40 x SLN25 - 90JIS	155.4	90	24	25	58	60	25	50	-	M12 x 1.75P	1	1.70
5011-654-032-100	BT40 x SLN32 - 100JIS	165.4	100	24	28	63	73	32	60	-	M16 x 2.0P	1	2.10
5011-654-032-150	BT40 x SLN32 - 150JIS	215.4	150	24	28	63	122.5	32	60	62	M16 x 2.0P	2	3.11
5011-654-040-105	BT40 x SLN40 - 105JIS	170.4	105	28	28	68	78	40	72	-	M16 x 2.0P	1	2.45

Features:

- ▶ Internal hole tolerance: H5.
- ▶ The tolerance requirement of tool shank diameter is h6.
- ▶ Taking use of side lock screws to clamp tools with lateral flat surfaces. Good at heavy-duty machining.
- ▶ JIS type: standard length is longer than DIN type; types from SLN20 to SLN32 have smaller d2 OD dimensions than DIN type to avoid interference.

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	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Lock Screw
			
P.X-72~73	P.X-81, 85	P.X-86	P.X-124



BT / SLN SIDE LOCK END MILL HOLDER

JIS TYPE

BT / SLN 側固式立銑刀桿 [JIS 型]



Fig.1

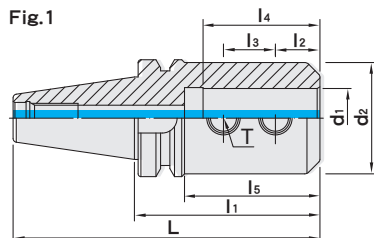
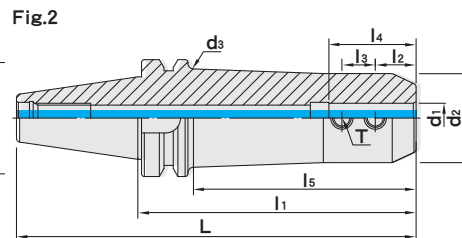


Fig.2



MODEL NO.	TYPE	L	l ₁	l ₂	l ₃	l ₄	l ₅	d ₁	d ₂	d ₃	T	Fig	WEIGHT (KGS)
5012-654-006-075	BT50 x SLN6 - 75JIS	176.8	75	12	10	35	27	6	25	-	M6 x 1.0P	1	3.90
5012-654-008-075	BT50 x SLN8 - 75JIS	176.8	75	14	12	35	27	8	28	-	M8 x 1.25P	1	3.90
5012-654-010-075	BT50 x SLN10 - 75JIS	176.8	75	15	14	39	32	10	35	-	M10 x 1.5P	1	3.90
5012-654-010-150	BT50 x SLN10 - 150JIS	251.8	150	15	14	39	102.39	10	35	40.03	M10 x 1.5P	2	4.24
5012-654-012-090	BT50 x SLN12 - 90JIS	191.8	90	20	16	44	42	12	42	-	M10 x 1.5P	1	3.90
5012-654-012-150	BT50 x SLN12 - 150JIS	251.8	150	20	16	44	102	12	42	47	M10 x 1.5P	2	4.51
5012-654-012-165	BT50 x SLN12 - 165JIS	266.8	165	20	16	44	124	12	42	47	M10 x 1.5P	2	5.00
5012-654-016-090	BT50 x SLN16 - 90JIS	191.8	90	22	18	47	42	16	48	-	M10 x 1.5P	1	3.90
5012-654-016-150	BT50 x SLN16 - 150JIS	251.8	150	22	18	47	102	16	48	53	M10 x 1.5P	2	4.98
5012-654-016-165	BT50 x SLN16 - 165JIS	266.8	165	22	18	47	117	16	48	53	M10 x 1.5P	2	5.00
5012-654-020-090	BT50 x SLN20 - 90JIS	191.8	90	25	20	55	49	20	50	-	M12 x 1.75P	1	4.50
5012-654-020-150	BT50 x SLN20 - 150JIS	251.8	150	25	20	55	102	20	50	57	M12 x 1.75P	2	5.98
5012-654-020-165	BT50 x SLN20 - 165JIS	266.8	165	25	20	55	117	20	50	57	M12 x 1.75P	2	6.00
5012-654-020-210	BT50 x SLN20 - 210JIS	311.8	210	25	20	55	162	20	50	57	M12 x 1.75P	2	7.00
5012-654-020-450	BT50 x SLN20 - 450JIS	551.8	450	25	20	55	402	20	50	57	M12 x 1.75P	2	9.37
5012-654-025-100	BT50 x SLN25 - 100JIS	201.8	100	24	25	58	59	25	50	-	M12 x 1.75P	1	4.58
5012-654-025-150	BT50 x SLN25 - 150JIS	251.8	150	24	25	58	102	25	50	57	M12 x 1.75P	2	5.48
5012-654-025-165	BT50 x SLN25 - 165JIS	266.8	165	24	25	58	117	25	50	57	M12 x 1.75P	2	5.50
5012-654-025-210	BT50 x SLN25 - 210JIS	311.8	210	24	25	58	169	25	50	57	M12 x 1.75P	2	6.00
5012-654-025-250	BT50 x SLN25 - 250JIS	351.8	250	24	25	58	202	25	50	60	M12 x 1.75P	2	7.00
5012-654-025-300	BT50 x SLN25 - 300JIS	401.8	300	24	25	58	252	25	50	65	M12 x 1.75P	2	7.66
5012-654-025-400	BT50 x SLN25 - 400JIS	501.8	400	24	25	58	352	25	50	65	M12 x 1.75P	2	9.40
5012-654-025-500	BT50 x SLN25 - 500JIS	601.8	500	24	25	58	452	25	50	65	M12 x 1.75P	2	11.14

Features:

- ▶ Internal hole tolerance: H5.
- ▶ The tolerance requirement of tool shank diameter is h6.
- ▶ Taking use of side lock screws to clamp tools with lateral flat surfaces. Good at heavy-duty machining.
- ▶ JIS type: standard length is longer than DIN type; types from SLN20 to SLN32 have smaller d2 OD dimensions than DIN type to avoid interference.

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	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Lock Screw
			
P.X-72~73	P.X-81, 85	P.X-86	P.X-124

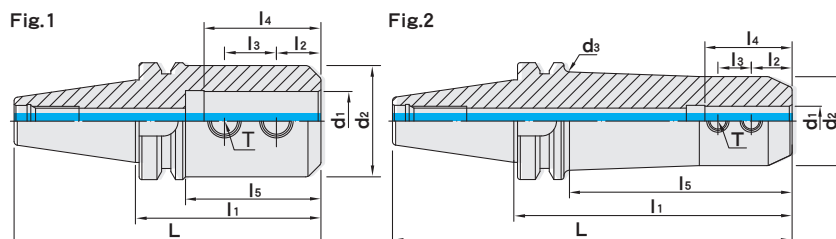


BT / SLN SIDE LOCK END MILL HOLDER

JIS TYPE

BT

BT / SLN 側固式立銑刀桿 [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)
5012-654-032-105	BT50 x SLN32 - 105JIS	206.8	105	24	28	63	64	32	60	-	M16 x 2.0P	1	4.89
5012-654-032-150	BT50 x SLN32 - 150JIS	251.8	150	24	28	63	102	32	50	60	M16 x 2.0P	2	7.48
5012-654-032-165	BT50 x SLN32 - 165JIS	266.8	165	24	28	63	117	32	60	65	M16 x 2.0P	2	6.22
5012-654-032-210	BT50 x SLN32 - 210JIS	311.8	210	24	28	63	162	32	50	60	M16 x 2.0P	2	6.34
5012-654-032-250	BT50 x SLN32 - 250JIS	351.8	250	24	28	63	207	32	50	60	M16 x 2.0P	2	7.50
5012-654-032-300	BT50 x SLN32 - 300JIS	401.8	300	24	28	63	257	32	60	65	M16 x 2.0P	2	8.00
5012-654-032-350	BT50 x SLN32 - 350JIS	451.8	350	24	28	63	307	32	60	65	M16 x 2.0P	2	9.61
5012-654-032-400	BT50 x SLN32 - 400JIS	501.8	400	24	28	63	357	32	60	65	M16 x 2.0P	2	10.66
5012-654-040-200	BT50 x SLN40 - 200JIS	301.8	200	30	32	75	159	40	90	-	M20 x 2.0P	1	10.15
5012-654-040-250	BT50 x SLN40 - 250JIS	351.8	250	30	32	75	209	40	90	-	M20 x 2.0P	1	12.46
5012-654-040-300	BT50 x SLN40 - 300JIS	401.8	300	30	32	75	259	40	90	-	M20 x 2.0P	1	14.78

Features:

- ▶ Internal hole tolerance: H5.
- ▶ The tolerance requirement of tool shank diameter is h6.
- ▶ Taking use of side lock screws to clamp tools with lateral flat surfaces. Good at heavy-duty machining.
- ▶ JIS type: standard length is longer than DIN type; types from SLN20 to SLN32 have smaller d2 OD dimensions than DIN type to avoid interference.

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	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Lock Screw
			
P.X-72~73	P.X-81, 85	P.X-86	P.X-124



BT / SLN SIDE LOCK END MILL HOLDER

FID TYPE

BT / SLN 側固式立銑刀桿 [FID 型]



Fig.1

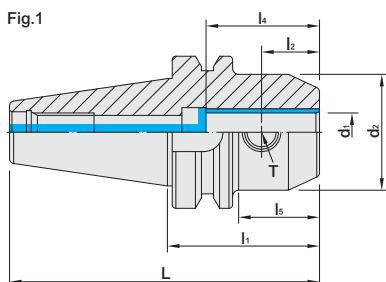
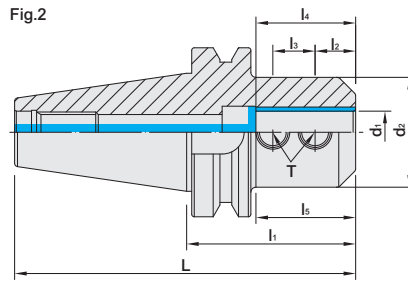


Fig.2



MODEL NO.	TYPE	L	l ₁	l ₂	l ₃	l ₄	l ₅	d ₁	d ₂	T	Fig	WEIGHT (KGS)
5011-S35-006-050	BT40 x SLN6 - 50 - FID	115.4	50	18	-	35	20	6	25	M6 x 1.0P	1	1.10
5011-S35-006-150	BT40 x SLN6 - 150 - FID	215.4	150	18	-	35	113	6	25	M6 x 1.0P	1	1.32
5011-S35-008-050	BT40 x SLN8 - 50 - FID	115.4	50	18	-	35	20	8	28	M8 x 1.25P	1	1.10
5011-S35-008-150	BT40 x SLN8 - 150 - FID	215.4	150	18	-	35	113	8	28	M8 x 1.25P	1	1.30
5011-S35-010-063	BT40 x SLN10 - 63 - FID	128.4	63	20	-	39	33	10	35	M10 x 1.5P	1	1.25
5011-S35-010-150	BT40 x SLN10 - 150 - FID	215.4	150	20	-	39	113	10	35	M10 x 1.5P	1	1.40
5011-S35-012-063	BT40 x SLN12 - 63 - FID	128.4	63	22.5	-	44	33	12	42	M12 x 1.75P	1	1.30
5011-S35-012-150	BT40 x SLN12 - 150 - FID	215.4	150	22.5	-	44	116	12	42	M12 x 1.75P	1	1.53
5011-S35-016-063	BT40 x SLN16 - 63 - FID	128.4	63	24	-	47	33	16	48	M14 x 2.0P	1	1.40
5011-S35-016-150	BT40 x SLN16 - 150 - FID	215.4	150	24	-	47	120	16	48	M14 x 2.0P	1	1.60
5011-S35-018-063	BT40 x SLN18 - 63 - FID	128.4	63	24	-	44	33	18	50	M14 x 2.0P	1	1.65
5011-S35-020-063	BT40 x SLN20 - 63 - FID	128.4	63	25	-	49	33	20	52	M16 x 2.0P	1	1.40
5011-S35-025-100	BT40 x SLN25 - 100 - FID	165.4	100	24	25	58	73	25	65	M18 x 2.0P	2	2.50
5011-S35-032-100	BT40 x SLN32 - 100 - FID	165.4	100	24	28	63	73	32	72	M20 x 2.0P	2	2.75
5012-S35-006-063	BT50 x SLN6 - 63 - FID	164.8	63	18	-	35	20	6	25	M6 x 1.0P	1	3.80
5012-S35-008-063	BT50 x SLN8 - 63 - FID	164.8	63	18	-	39	20	8	28	M8 x 1.25P	1	3.80
5012-S35-010-063	BT50 x SLN10 - 63 - FID	164.8	63	20	-	39	22	10	35	M10 x 1.5P	1	3.00
5012-S35-012-080	BT50 x SLN12 - 80 - FID	181.8	80	22.5	-	44	39	12	42	M12 x 1.75P	1	4.00
5012-S35-016-080	BT50 x SLN16 - 80 - FID	181.8	80	24	-	47	32	16	48	M14 x 2.0P	1	4.40
5012-S35-020-080	BT50 x SLN20 - 80 - FID	181.8	80	25	-	49	37	20	52	M16 x 2.0P	1	4.40
5012-S35-025-100	BT50 x SLN25 - 100 - FID	201.8	100	24	25	58	59	25	65	M18 x 2.0P	2	5.10
5012-S35-032-105	BT50 x SLN32 - 105 - FID	206.8	105	24	28	63	64	32	72	M20 x 2.0P	2	5.20
5012-S35-040-115	BT50 x SLN40 - 115 - FID	216.8	115	30	32	75	74	40	90	M20 x 2.0P	2	6.70
5012-S35-040-120	BT50 x SLN40 - 120 - FID	221.8	120	30	32	75	79	40	90	M20 x 2.0P	2	6.70
5012-S35-042-120	BT50 x SLN42 - 120 - FID	221.8	120	30	32	75	79	42	90	M20 x 2.0P	2	6.70
5012-S35-050-120	BT50 x SLN50 - 120 - FID	221.8	120	35	35	78	82	50	98	M24 x 2.0P	2	7.16
5012-S35-A96-472	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

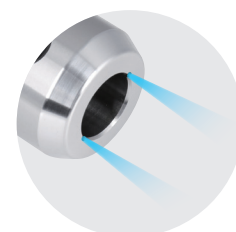
Features:

- ▶ Internal hole tolerance: H5 (DIN-1835-B standard).
- ▶ The tolerance requirement of tool shank diameter is h6.
- ▶ Taking use of side lock screws to clamp tools with lateral flat surfaces. Good at heavy-duty machining.
- ▶ FID type: two coolant flutes enable coolant on tool path, no need for expensive coolant-thru tools.

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	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Lock Screw
			
P.X-72~73	P.X-81, 85	P.X-86	P.X-124

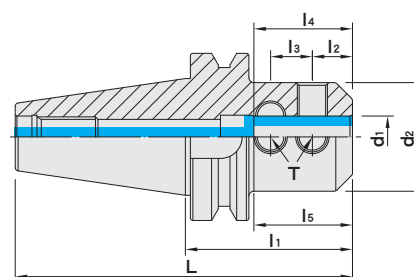


BT / SLN SIDE LOCK END MILL HOLDER

FID TYPE

BT

BT / SLN 側固式立銑刀桿 [FID 型]



MODEL NO.	TYPE	L	l ₁	l ₂	l ₃	l ₄	l ₅	d ₁	d ₂	T	WEIGHT (KGS)
5012-S81-A96-472	BT50 x SLN50.8 - 120 - FID	221.8	120	33.1	28.58	75	81	50.8	95	M20 x 2.0P	7.20
5012-S81-063-120	BT50 x SLN63 - 120 - FID	221.8	120	33.1	28.58	80	82	63	125	M16 x 2.0P	6.60

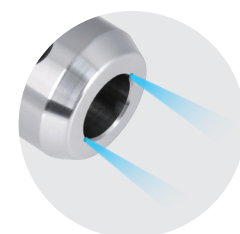
Features:

- ▶ Internal hole tolerance: H5 (DIN-1835-B standard).
- ▶ It is designed with a pin for improving the clamping stability.
- ▶ The tolerance requirement of tool shank diameter is h6.
- ▶ Taking use of side lock screws to clamp tools with lateral flat surfaces. Good at heavy-duty machining.
- ▶ FID type: two coolant flutes enable coolant on tool path, no need for expensive coolant-thru tools.

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.

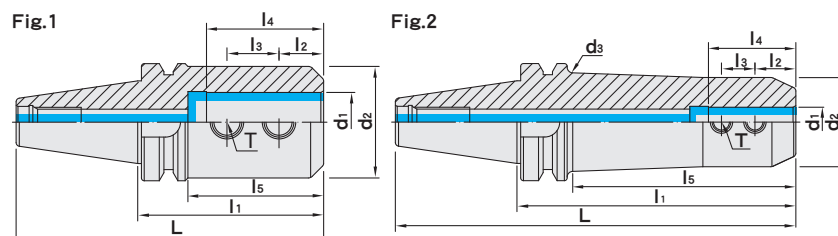
Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Lock Screw
			
P.X-72~73	P.X-81, 85	P.X-86	P.X-124



BT / SLN SIDE LOCK END MILL HOLDER

JIS-FID TYPE

BT / SLN 側固式立銑刀桿 [JIS-FID 型]



MODEL NO.	TYPE	L	l ₁	l ₂	l ₃	l ₄	l ₅	d ₁	d ₂	d ₃	T	Fig	WEIGHT (KGS)
5011-S34-006-075	BT40 x SLN6 - 75JIS - FID	140.4	75	12	10	35	45	6	25	-	M6 x 1.0P	1	1.20
5011-S34-006-150	BT40 x SLN6 - 150JIS - FID	215.4	150	12	10	35	113	6	25	30	M6 x 1.0P	2	1.50
5011-S34-008-075	BT40 x SLN8 - 75JIS - FID	140.4	75	14	12	35	45	8	28	-	M8 x 1.25P	1	1.20
5011-S34-008-150	BT40 x SLN8 - 150JIS - FID	215.4	150	14	12	35	113	8	28	33	M8 x 1.25P	2	1.50
5011-S34-010-075	BT40 x SLN10 - 75JIS - FID	140.4	75	15	14	39	45	10	35	-	M10 x 1.5P	1	1.40
5011-S34-010-150	BT40 x SLN10 - 150JIS - FID	215.4	150	15	14	39	118	10	35	40	M10 x 1.5P	2	1.50
5011-S34-012-075	BT40 x SLN12 - 75JIS - FID	140.4	75	20	16	44	45	12	42	-	M10 x 1.5P	1	1.50
5011-S34-012-150	BT40 x SLN12 - 150JIS - FID	215.4	150	20	16	44	118	12	42	47	M10 x 1.5P	2	1.70
5011-S34-016-075	BT40 x SLN16 - 75JIS - FID	140.4	75	22	18	47	45	16	48	-	M10 x 1.5P	1	1.60
5011-S34-016-150	BT40 x SLN16 - 150JIS - FID	215.4	150	22	18	47	120	16	48	53	M10 x 1.5P	2	1.70
5011-S34-020-090	BT40 x SLN20 - 90JIS - FID	155.4	90	25	20	55	60	20	50	-	M12 x 1.75P	1	1.75
5011-S34-020-150	BT40 x SLN20 - 150JIS - FID	215.4	150	25	20	55	120	20	52	57	M12 x 1.75P	2	1.80
5011-S34-025-090	BT40 x SLN25 - 90JIS - FID	155.4	90	24	25	58	60	25	50	-	M12 x 1.75P	1	1.70
5011-S34-032-100	BT40 x SLN32 - 100JIS - FID	165.4	100	24	28	63	73	32	60	-	M16 x 2.0P	1	2.10

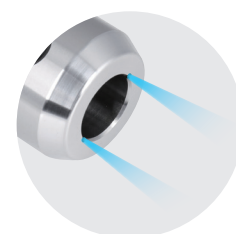
Features:

- ▶ Internal hole tolerance: H5.
- ▶ The tolerance requirement of tool shank diameter is h6.
- ▶ Taking use of side lock screws to clamp tools with lateral flat surfaces. Good at heavy-duty machining.
- ▶ JIS type: standard length is longer than DIN type; types from SLN20 to SLN32 have smaller d2 OD dimensions than DIN type to avoid interference.
- ▶ FID type: two coolant flutes enable coolant on tool path, no need for expensive coolant-thru tools.

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	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Lock Screw
			
P.X-72~73	P.X-81, 85	P.X-86	P.X-124



BT / SLN SIDE LOCK END MILL HOLDER

JIS-FID TYPE

BT

BT / SLN 側固式立銑刀桿 [JIS-FID 型]



Fig.1

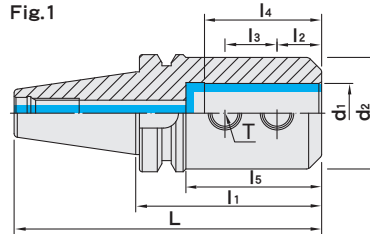
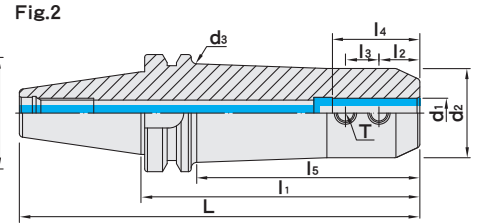


Fig.2



MODEL NO.	TYPE	L	l ₁	l ₂	l ₃	l ₄	l ₅	d ₁	d ₂	d ₃	T	Fig	WEIGHT (KGS)
5012-S34-006-075	BT50 x SLN6 - 75JIS - FID	176.8	75	12	10	35	27	6	25	-	M6 x 1.0P	1	3.90
5012-S34-008-075	BT50 x SLN8 - 75JIS - FID	176.8	75	14	12	35	27	8	28	-	M8 x 1.25P	1	3.90
5012-S34-010-075	BT50 x SLN10 - 75JIS - FID	176.8	75	15	14	39	32	10	35	-	M10 x 1.5P	1	3.90
5012-S34-012-090	BT50 x SLN12 - 90JIS - FID	191.8	90	20	16	44	42	12	42	-	M10 x 1.5P	1	3.90
5012-S34-012-165	BT50 x SLN12 - 165JIS - FID	266.8	165	20	16	44	124	12	42	47	M10 x 1.5P	2	5.00
5012-S34-016-090	BT50 x SLN16 - 90JIS - FID	191.8	90	22	18	47	42	16	48	-	M10 x 1.5P	1	3.90
5012-S34-016-165	BT50 x SLN16 - 165JIS - FID	266.8	165	22	18	47	117	16	48	53	M10 x 1.5P	2	5.00
5012-S34-020-090	BT50 x SLN20 - 90JIS - FID	191.8	90	25	20	55	49	20	50	-	M12 x 1.75P	1	4.50
5012-S34-020-165	BT50 x SLN20 - 165JIS - FID	266.8	165	25	20	55	117	20	50	57	M12 x 1.75P	2	6.00
5012-S34-020-210	BT50 x SLN20 - 210JIS - FID	311.8	210	25	20	55	162	20	50	57	M12 x 1.75P	2	7.00
5012-S34-025-100	BT50 x SLN25 - 100JIS - FID	201.8	100	24	25	58	59	25	50	-	M12 x 1.75P	1	4.58
5012-S34-025-165	BT50 x SLN25 - 165JIS - FID	266.8	165	24	25	58	117	25	50	57	M12 x 1.75P	2	5.50
5012-S34-025-210	BT50 x SLN25 - 210JIS - FID	311.8	210	24	25	58	169	25	50	57	M12 x 1.75P	2	6.00
5012-S34-025-250	BT50 x SLN25 - 250JIS - FID	351.8	250	24	25	58	202	25	50	60	M12 x 1.75P	2	7.00
5012-S34-032-105	BT50 x SLN32 - 105JIS - FID	206.8	105	24	28	63	64	32	60	-	M16 x 2.0P	1	4.89
5012-S34-032-165	BT50 x SLN32 - 165JIS - FID	266.8	165	24	28	63	117	32	60	65	M16 x 2.0P	2	6.22
5012-S34-032-210	BT50 x SLN32 - 210JIS - FID	311.8	210	24	28	63	162	32	50	60	M16 x 2.0P	2	6.34
5012-S34-032-250	BT50 x SLN32 - 250JIS - FID	351.8	250	24	28	63	207	32	50	60	M16 x 2.0P	2	7.50
5012-S34-032-300	BT50 x SLN32 - 300JIS - FID	401.8	300	24	28	63	257	32	60	65	M16 x 2.0P	2	8.00

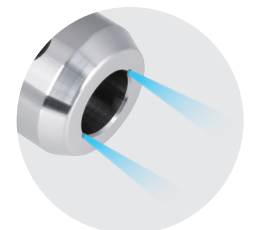
Features:

- ▶ Internal hole tolerance: H5.
- ▶ The tolerance requirement of tool shank diameter is h6.
- ▶ Taking use of side lock screws to clamp tools with lateral flat surfaces. Good at heavy-duty machining.
- ▶ JIS type: standard length is longer than DIN type; types from SLN20 to SLN32 have smaller d2 OD dimensions than DIN type to avoid interference.
- ▶ FID type: two coolant flutes enable coolant on tool path, no need for expensive coolant-thru tools.

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	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Lock Screw
			
P.X-72~73	P.X-81, 85	P.X-86	P.X-124



BT FACE MILL ARBOR

FMA TYPE

BT / FMA 平面銑刀桿



Fig.1

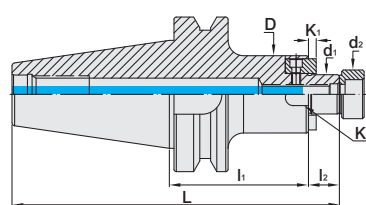
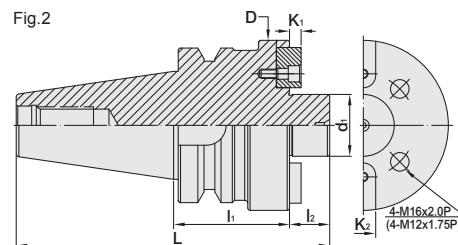


Fig.2



INCHES

MODEL NO.	TYPE	L	l ₁	l ₂	D	d ₁	d ₂	K ₁	K ₂	Fig	WEIGHT (KGS)
5010-151-A64-177	BT30 x FMA25.4 - 45	113.4	45	20	50	25.4	31.5	5	9.52	1	1.00
5010-151-A64-236	BT30 x FMA25.4 - 60	128.4	60	20	50	25.4	31.5	5	9.52	1	1.30
5010-151-A72-177	BT30 x FMA31.75 - 45	115.4	45	22	60	31.75	41	6	12.7	1	1.20
5010-151-A72-197	BT30 x FMA31.75 - 50	120.4	50	22	60	31.75	41	6	12.7	1	1.21
5011-151-A64-177	BT40 x FMA25.4 - 45	130.4	45	20	50	25.4	31.5	5	9.52	1	1.80
5011-151-A64-236	BT40 x FMA25.4 - 60	145.4	60	20	50	25.4	31.5	5	9.52	1	1.45
5011-151-A64-354	BT40 x FMA25.4 - 90	175.4	90	20	50	25.4	31.5	5	9.52	1	2.10
5011-151-A64-413	BT40 x FMA25.4 - 105	190.4	105	20	50	25.4	31.5	5	9.52	1	2.70
5011-151-A64-591	BT40 x FMA25.4 - 150	235.4	150	20	50	25.4	31.5	5	9.52	1	3.00
5011-151-A72-177	BT40 x FMA31.75 - 45	132.4	45	22	60	31.75	41	6	12.7	1	1.70
5011-151-A72-295	BT40 x FMA31.75 - 75	162.4	75	22	60	31.75	41	6	12.7	1	2.70
5011-151-A72-354	BT40 x FMA31.75 - 90	177.4	90	22	60	31.75	41	6	12.7	1	2.65
5011-151-A80-236	BT40 x FMA38.1 - 60	150.4	60	25	75	38.1	44.5	8	15.87	1	2.25
5011-151-A80-295	BT40 x FMA38.1 - 75	165.4	75	25	75	38.1	44.5	8	15.87	1	2.55
5011-151-A80-413	BT40 x FMA38.1 - 105	195.4	105	25	75	38.1	44.5	8	15.87	1	3.20
5011-151-A80-591	BT40 x FMA38.1 - 150	240.4	150	25	75	38.1	44.5	8	15.87	1	2.85
5011-151-A96-236	BT40 x FMA50.8 - 60	161.4	60	36	98	50.8	65	10	19.05	1	2.25
5012-151-A64-177	BT50 x FMA25.4 - 45	166.8	45	20	50	25.4	31.5	4.52	9.52	1	4.40
5012-151-A64-354	BT50 x FMA25.4 - 90	211.8	90	20	50	25.4	31.5	5	9.52	1	5.10
5012-151-A64-591	BT50 x FMA25.4 - 150	271.8	150	20	50	25.4	31.5	5	9.52	1	6.10
5012-151-A72-177	BT50 x FMA31.75 - 45	168.8	45	22	60	31.75	41	6.2	12.7	1	4.50
5012-151-A72-295	BT50 x FMA31.75 - 75	198.8	75	22	60	31.75	41	6	12.7	1	5.70
5012-151-A72-413	BT50 x FMA31.75 - 105	228.8	105	22	60	31.75	41	6	12.7	1	5.70
5012-151-A80-177	BT50 x FMA38.1 - 45	171.8	45	25	80	38.1	44.5	8.87	15.87	1	5.20
5012-151-A80-295	BT50 x FMA38.1 - 75	201.8	75	25	80	38.1	44.5	8	15.87	1	6.00
5012-151-A96-177	BT50 x FMA50.8 - 45	182.8	45	36	98	50.8	65	9.75	19.05	1	5.70
5012-151-A96-295	BT50 x FMA50.8 - 75	212.8	75	36	98	50.8	65	10	19.05	1	6.80
5012-155-A92-295	BT50 x FMA47.62 - 75	208.8	75	32	128.75	47.62	-	12.4	25.4	2	7.90

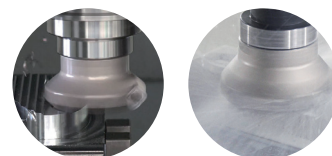
Features:

- ▶ Tolerance of d1 the connection part with cutter: h6, which is good for less chatter and longer cutter life.
- ▶ Standard screw attached is w/o coolant hole.
- ▶ To use with face mill cutters with coolant holes, the standard screw has to be changed into the screw with coolant flute, which is available to order separately.

Product information:

- ▶ AD+B type is available, please inform us when making an order.
- ▶ MAS/BT30 tool holders are without coolant supply over collars.

Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Screw
P.X-72~73	P.X-81, 85	P.X-86	P.X-124

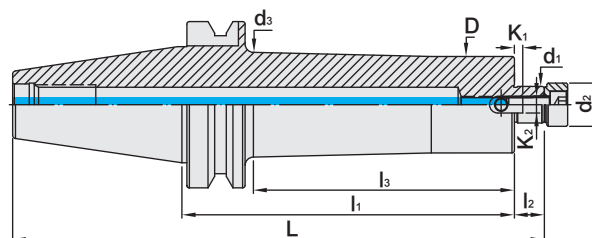
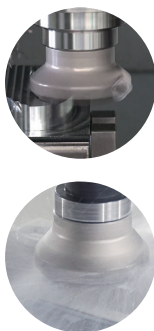


BT FACE MILL ARBOR

EXTENSION TYPE

BT

BT / FMA 平面銑刀桿 [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)
5012-152-A64-492	BT50 x FMA25.4 - 125BG	246.8	125	20	79	48	25.4	31.5	60	5	9.52	5.30
5012-152-A64-591	BT50 x FMA25.4 - 150BG	271.8	150	20	102	48	25.4	31.5	60	5	9.52	6.40
5012-152-A64-787	BT50 x FMA25.4 - 200BG	321.8	200	20	152	58	25.4	31.5	63	5	9.52	7.50
5012-152-A64-984	BT50 x FMA25.4 - 250BG	371.8	250	20	202	58	25.4	31.5	63	5	9.52	8.60
5012-152-A64-1181	BT50 x FMA25.4 - 300BG	421.8	300	20	252	58	25.4	31.5	63	5	9.52	9.70
5012-152-A64-1378	BT50 x FMA25.4 - 350BG	471.8	350	20	302	58	25.4	31.5	66	5	9.52	10.8
5012-152-A64-1575	BT50 x FMA25.4 - 400BG	521.8	400	20	352	58	25.4	31.5	66	5	9.52	11.9
5012-152-A72-492	BT50 x FMA31.75 - 125BG	248.8	125	22	82	70	31.75	41	75	6	12.7	5.60
5012-152-A72-591	BT50 x FMA31.75 - 150BG	273.8	150	22	107	70	31.75	41	75	6	12.7	6.30
5012-152-A72-689	BT50 x FMA31.75 - 175BG	298.8	175	22	132	70	31.75	41	75	6	12.7	8.30
5012-152-A72-787	BT50 x FMA31.75 - 200BG	323.8	200	22	157	70	31.75	41	75	6	12.7	9.10
5012-152-A72-984	BT50 x FMA31.75 - 250BG	373.8	250	22	207	70	31.75	41	75	6	12.7	10.6
5012-152-A72-1181	BT50 x FMA31.75 - 300BG	423.8	300	22	252	70	31.75	41	75	6	12.7	12.1
5012-152-A72-1378	BT50 x FMA31.75 - 350BG	473.8	350	22	302	70	31.75	41	75	6	12.7	13.6

Features:

- ▶ BG extension type: special design of enlarged neck for arbor prolonged length to improve the rigidity and achieve anti-vibration.
- ▶ Tolerance of d1 the connection part with cutter: h6, which is good for less chatter and longer cutter life.
- ▶ Standard screw attached is w/o coolant hole.
- ▶ To use with face mill cutters with coolant holes, the standard screw has to be changed into the screw with coolant flute, which is available to order separately

Product information:

- ▶ AD+B type is available, please inform us when making an order.

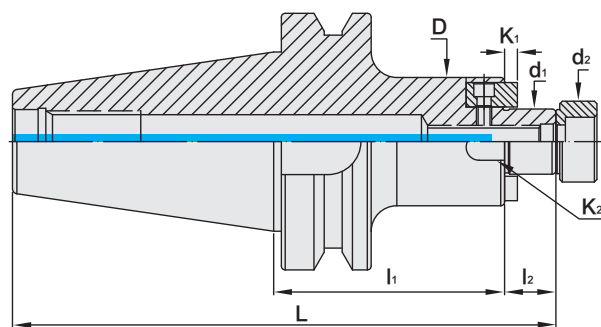
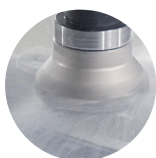
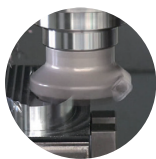
Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Screw
P.X-72~73	P.X-81, 85	P.X-86	P.X-124



BT FACE MILL ARBOR

FMB TYPE

BT / FMB 平面銑刀桿



MODEL NO.	TYPE	L	L ₁	L ₂	D	d ₁	d ₂	K ₁	K ₂	WEIGHT (KGS)
5010-153-016-050	BT30 x FMB16 - 50	115.4	50	17	34	16	13	5	8	0.60
5010-153-022-045	BT30 x FMB22 - 45	112.4	45	19	48	22	26	5	10	0.82
5010-153-022-060	BT30 x FMB22 - 60	127.4	60	19	48	22	26	5	10	1.02
5010-153-027-045	BT30 x FMB27 - 45	113.4	45	20	60	27	31.5	6	12	1.06
5010-153-027-060	BT30 x FMB27 - 60	128.4	60	20	60	27	31.5	6	12	1.34
5010-153-032-045	BT30 x FMB32 - 45	115.4	45	22	78	32	41	7	14	1.46
5011-153-016-050	BT40 x FMB16 - 50	132.4	50	17	34	16	13	5	8	1.15
5011-153-016-070	BT40 x FMB16 - 70	152.4	70	17	34	16	13	5	8	1.27
5011-153-016-090	BT40 x FMB16 - 90	172.4	90	17	34	16	13	5	8	1.39
5011-153-016-100	BT40 x FMB16 - 100	182.4	100	17	34	16	13	5	8	1.44
5011-153-016-140	BT40 x FMB16 - 140	222.4	140	17	34	16	13	5	8	2.28
5011-153-022-045	BT40 x FMB22 - 45	129.4	45	19	48	22	26	5	10	1.34
5011-153-022-060	BT40 x FMB22 - 60	144.4	60	19	48	22	26	5	10	1.54
5011-153-022-100	BT40 x FMB22 - 100	184.4	100	19	48	22	26	5	10	2.08
5011-153-027-045	BT40 x FMB27 - 45	130.4	45	20	60	27	31.5	6	12	1.56
5011-153-027-060	BT40 x FMB27 - 60	145.4	60	20	60	27	31.5	6	12	1.88
5011-153-027-090	BT40 x FMB27 - 90	175.4	90	20	60	27	31.5	6	12	2.30
5011-153-027-105	BT40 x FMB27 - 105	190.4	105	20	60	27	31.5	6	12	2.08
5011-153-032-060	BT40 x FMB32 - 60	147.4	60	22	78	32	41	6.8	14	2.34
5011-153-040-060	BT40 x FMB40 - 60	150.4	60	25	80	40	48	8	16	2.70
5011-153-040-075	BT40 x FMB40 - 75	165.4	75	25	80	40	48	8	16	2.90
5011-153-040-105	BT40 x FMB40 - 105	195.4	105	25	80	40	48	8	16	3.32

Features:

- Tolerance of d1 the connection part with cutter: h6, which is good for less chatter and longer cutter life.
- Standard screw attached is w/o coolant hole.
- To use with face mill cutters with coolant holes, the standard screw has to be changed into the screw with coolant flute, which is available to order separately.

Product information:

- AD+B type is available, please inform us when making an order.
- MAS/BT30 tool holders are without coolant supply over collars.

Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Screw
P.X-72~73	P.X-81, 85	P.X-86	P.X-124



BT FACE MILL ARBOR

FMB TYPE

BT

BT / FMB 平面銑刀桿



Fig.1

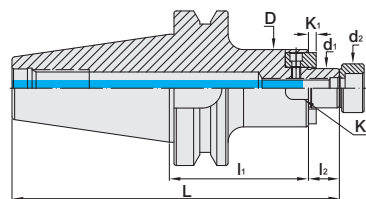
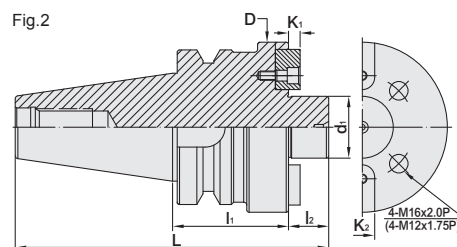


Fig.2



MODEL NO.	TYPE	L	l ₁	l ₂	D	d ₁	d ₂	K ₁	K ₂	Fig	WEIGHT (KGS)
5012-153-016-050	BT50 x FMB16 - 50	168.8	50	17	34	16	13	5	8	1	3.71
5012-153-016-075	BT50 x FMB16 - 75	193.8	75	17	34	16	13	5	8	1	3.80
5012-153-016-090	BT50 x FMB16 - 90	208.8	90	17	34	16	13	5	8	1	3.89
5012-153-016-100	BT50 x FMB16 - 100	218.8	100	17	34	16	13	5	8	1	3.94
5012-153-016-220	BT50 x FMB16 - 220	338.8	220	17	34	16	13	5	8	1	4.75
5012-153-022-045	BT50 x FMB22 - 45	165.8	45	19	48	22	26	4.8	10	1	4.10
5012-153-022-060	BT50 x FMB22 - 60	180.8	60	19	48	22	26	5	10	1	4.46
5012-153-022-090	BT50 x FMB22 - 90	210.8	90	19	48	22	26	5	10	1	4.80
5012-153-022-150	BT50 x FMB22 - 150	270.8	150	19	48	22	26	5	10	1	6.80
5012-153-022-200	BT50 x FMB22 - 200	320.8	200	19	48	22	26	5	10	1	7.00
5012-153-022-250	BT50 x FMB22 - 250	370.8	250	19	48	22	26	5	10	1	8.00
5012-153-027-050	BT50 x FMB27 - 50	171.8	50	20	60	27	31.5	5.8	12	1	4.30
5012-153-027-090	BT50 x FMB27 - 90	211.8	90	20	60	27	31.5	6	12	1	5.40
5012-153-027-150	BT50 x FMB27 - 150	271.8	150	20	60	27	31.5	6	12	1	6.50
5012-153-027-200	BT50 x FMB27 - 200	321.8	200	20	60	27	31.5	6	12	1	9.50
5012-153-027-250	BT50 x FMB27 - 250	371.8	250	20	60	27	31.5	6	12	1	11.0
5012-153-032-050	BT50 x FMB32 - 50	173.8	50	22	78	32	41	6.8	14	1	4.60
5012-153-032-090	BT50 x FMB32 - 90	213.8	90	22	78	32	41	7	14	1	5.80
5012-153-032-200	BT50 x FMB32 - 200	323.8	200	22	78	32	41	6.8	14	1	9.56
5012-153-040-050	BT50 x FMB40 - 50	176.8	50	25	89	40	48	7.9	16	1	5.20
5012-153-040-090	BT50 x FMB40 - 90	216.8	90	25	89	40	48	8	16	1	6.00
5012-153-040-105	BT50 x FMB40 - 105	231.8	105	25	89	40	48	8	16	1	7.20
5012-153-040-150	BT50 x FMB40 - 150	276.8	150	25	89	40	48	8	16	1	7.90
5012-153-040-200	BT50 x FMB40 - 200	326.8	200	25	89	40	48	8	16	1	11.41
5012-155-040-075	BT50 x FS40F - 75	202.8	75	26	110	40	-	7.5	16	2	6.00
5012-155-060-075	BT50 x FS60F - 75	201.8	75	25	138	60	-	12.4	25.4	2	8.50

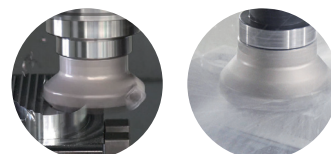
Features:

- ▶ Tolerance of d1 the connection part with cutter: h6, which is good for less chatter and longer cutter life.
- ▶ Standard screw attached is w/o coolant hole.
- ▶ To use with face mill cutters with coolant holes, the standard screw has to be changed into the screw with coolant flute, which is available to order separately.

Product information:

- ▶ AD+B type is available, please inform us when making an order.

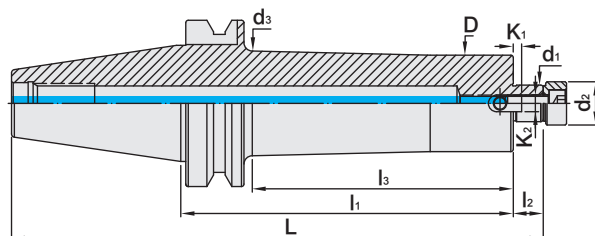
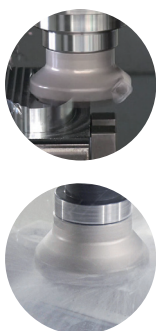
Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Screw
P.X-72~73	P.X-81, 85	P.X-86	P.X-124



BT FACE MILL ARBOR

EXTENSION TYPE

BT / FMB 平面銑刀桿 [加長斜度柄]



MODEL NO.	TYPE	L	l ₁	l ₂	l ₃	D	d ₁	d ₂	d ₃	K ₁	K ₂	WEIGHT (KGS)
5011-154-022-150	BT40 x FMB22 - 150BG	234.4	150	19	118	48	22	26	51	5	10	2.90
5011-154-022-200	BT40 x FMB22 - 200BG	284.4	200	19	168	48	22	26	51	5	10	3.60
5011-154-022-250	BT40 x FMB22 - 250BG	334.4	250	19	218	48	22	26	51	5	10	4.40
5012-154-022-150	BT50 x FMB22 - 150BG	270.8	150	19	107	58	22	26	62.5	5	10	6.80
5012-154-022-200	BT50 x FMB22 - 200BG	320.8	200	19	157	58	22	26	62.5	5	10	8.40
5012-154-022-250	BT50 x FMB22 - 250BG	370.8	250	19	207	58	22	26	62.5	5	10	9.40
5012-154-022-300	BT50 x FMB22 - 300BG	420.8	300	19	257	58	22	26	62.5	5	10	10.4
5012-154-022-350	BT50 x FMB22 - 350BG	470.8	350	19	307	58	22	26	62.5	5	10	11.4
5012-154-022-400	BT50 x FMB22 - 400BG	520.8	400	19	352	58	22	26	62.5	5	10	12.4
5012-154-022-450	BT50 x FMB22 - 450BG	570.8	450	19	402	58	22	26	62.5	5	10	13.4
5012-154-022-500	BT50 x FMB22 - 500BG	620.8	500	19	452	58	22	26	62.5	5	10	14.4
5012-154-027-150	BT50 x FMB27 - 150BG	271.8	150	20	107	60	27	31.5	78	6	12	6.90
5012-154-027-200	BT50 x FMB27 - 200BG	321.8	200	20	157	60	27	31.5	78	6	12	8.50
5012-154-027-250	BT50 x FMB27 - 250BG	371.8	250	20	207	60	27	31.5	78	6	12	9.50
5012-154-027-300	BT50 x FMB27 - 300BG	421.8	300	20	257	60	27	31.5	78	6	12	10.4
5012-154-027-350	BT50 x FMB27 - 350BG	471.8	350	20	307	60	27	31.5	78	6	12	11.4
5012-154-027-400	BT50 x FMB27 - 400BG	521.8	400	20	352	60	27	31.5	78	6	12	12.4
5012-154-027-450	BT50 x FMB27 - 450BG	571.8	450	20	402	60	27	31.5	78	6	12	13.4
5012-154-027-500	BT50 x FMB27 - 500BG	621.8	500	20	452	60	27	31.5	78	6	12	14.4
5012-154-032-150	BT50 x FMB32 - 150BG	273.8	150	22	107	78	32	41	85	7	14	7.00
5012-154-032-200	BT50 x FMB32 - 200BG	323.8	200	22	157	78	32	41	85	7	14	8.50
5012-154-032-250	BT50 x FMB32 - 250BG	373.8	250	22	207	78	32	41	85	7	14	9.50
5012-154-032-300	BT50 x FMB32 - 300BG	423.8	300	22	257	78	32	41	85	7	14	10.5
5012-154-032-350	BT50 x FMB32 - 350BG	473.8	350	22	307	78	32	41	85	7	14	11.5
5012-154-032-400	BT50 x FMB32 - 400BG	523.8	400	22	357	78	32	41	85	7	14	12.5
5012-154-032-450	BT50 x FMB32 - 450BG	573.8	450	22	407	78	32	41	85	7	14	13.5
5012-154-032-500	BT50 x FMB32 - 500BG	623.8	500	22	461.5	80	32	41	96	7	14	14.5
5012-154-040-200	BT50 x FMB40 - 200BG	326.8	200	25	161	89	40	48	96	8	16	11.42

Features:

- ▶ BG extension type: special design of enlarged neck for arbor prolonged length to improve the rigidity and achieve anti-vibration.
- ▶ Tolerance of d1 the connection part with cutter: h6, which is good for less chatter and longer cutter life.
- ▶ Standard screw attached is w/o coolant hole.
- ▶ To use with face mill cutters with coolant holes, the standard screw has to be changed into the screw with coolant flute, which is available to order separately.

Product information:

- ▶ AD+B type is available, please inform us when making an order.

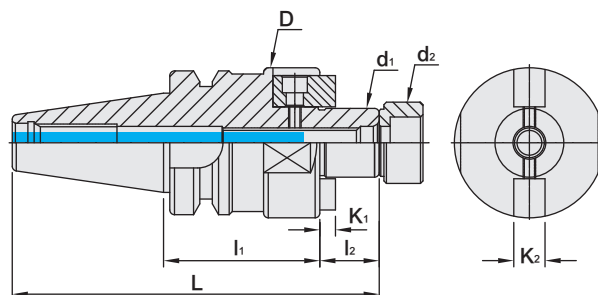
Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Screw
			
P.X-72~73	P.X-81, 85	P.X-86	P.X-124



BT FACE MILL ARBOR

LIGHT WEIGHT TYPE - WITH TWO FLAT SIDES

BT / FMA 平面銑刀桿 [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)
5010-165-A64-197	BT30 x FMA25.4 - 50 - B	118.4	50	20	50	25.4	31.5	5	9.52	1.00
5010-165-A72-197	BT30 x FMA31.75 - 50 - B	120.4	50	22	60	31.75	41	6	12.7	1.00
5010-166-022-050	BT30 x FMB22 - 50 - B	117.4	50	19	48	22	26	5	10	0.82
5010-166-027-050	BT30 x FMB27 - 50 - B	118.4	50	20	60	27	31.5	6	12	1.06

Features:

- ▶ Two flat sides for lighter weight reduces the loading for ATC system, ensures operational safety and extends machine life.
- ▶ The tool holder length is extended to avoid interference with ATC system.
- ▶ Tolerance of d₁ the connection part with cutter: h6, which is good for less chatter and longer cutter life.
- ▶ Suitable for general face milling cutter.

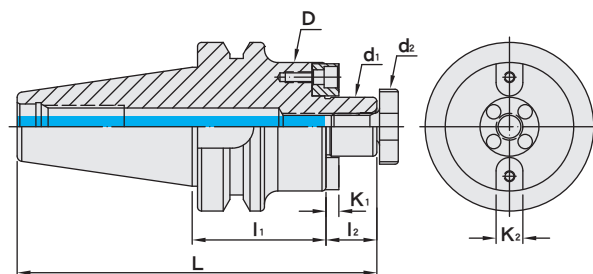
Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Screw
			
P.X-72~73	P.X-81, 85	P.X-86	P.X-124



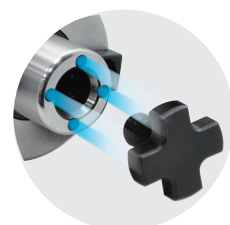
BT FACE MILL ARBOR

FMC TYPE

BT / FMC 平面銑刀桿



MODEL NO.	TYPE	L	l ₁	l ₂	D	d ₁	d ₂	K ₁	K ₂	WEIGHT (KGS)
5010-157-016-035	BT30 x FMC16 - 35	100.4	35	17	38	16	20	5	8	0.72
5010-157-022-040	BT30 x FMC22 - 40	107.4	40	19	48	22	28	4.8	10	0.80
5010-157-027-040	BT30 x FMC27 - 40	108.4	40	20	58	27	35	5.8	12	1.06
5011-157-016-045	BT40 x FMC16 - 45	127.4	45	17	38	16	20	5	8	1.20
5011-157-022-045	BT40 x FMC22 - 45	129.4	45	19	50	22	28	4.8	10	1.34
5011-157-027-045	BT40 x FMC27 - 45	130.4	45	20	60	27	35	5.8	12	1.56
5011-157-032-050	BT40 x FMC32 - 50	137.4	50	22	78	32	42	6.8	14	1.96
5012-157-016-050	BT50 x FMC16 - 50	168.8	50	17	40	16	20	5	8	4.00
5012-157-022-060	BT50 x FMC22 - 60	180.8	60	19	50	22	28	4.8	10	4.10
5012-157-027-060	BT50 x FMC27 - 60	181.8	60	20	60	27	35	5.8	12	4.30
5012-157-032-060	BT50 x FMC32 - 60	183.8	60	22	78	32	42	6.8	14	4.60
5012-157-040-070	BT50 x FMC40 - 70	196.8	70	25	89	40	52	7.9	16	5.20



Features:

- ▶ With four coolant holes on the face of tool holder to match with face mill cutters with coolant holes.
- ▶ Tolerance of d1 the connection part with cutter: h6, which is good for less chatter and longer cutter life

Product information:

- ▶ 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

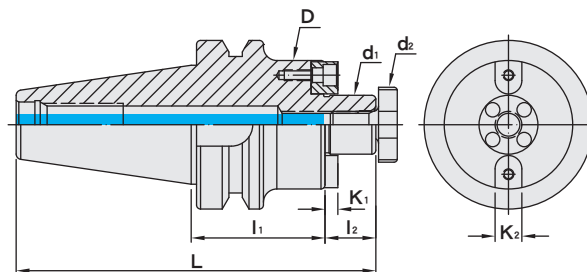
Pull Stud	Nut	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)
				
P.X-72~73	P.X-80	P.X-80	P.X-81, 85	P.X-86

BT FACE MILL ARBOR

FMC TYPE

BT

BT / FMC 平面銑刀桿



MODEL NO.	TYPE	L	l ₁	l ₂	D	d ₁	d ₂	K ₁	K ₂	WEIGHT (KGS)
5011-157-A56-177	BT40 x FMC22.225 - 45	127.4	45	17	47	22.225	28	3.5	8	1.50
5011-157-A56-236	BT40 x FMC22.225 - 60	142.4	60	17	47	22.225	28	3.5	8	1.80
5011-157-A56-354	BT40 x FMC22.225 - 90	172.4	90	17	47	22.225	28	3.5	8	2.50
5011-157-A64-236	BT40 x FMC25.4 - 60	145.4	60	20	50	25.4	35	5	9.525	2.00
5011-157-A64-354	BT40 x FMC25.4 - 90	175.4	90	20	50	25.4	35	5	9.525	2.70
5011-157-A64-413	BT40 x FMC25.4 - 105	190.4	105	20	50	25.4	35	5	9.525	3.40
5011-157-A72-236	BT40 x FMC31.75 - 60	147.4	60	22	76	31.75	42	7	12.7	2.50
5011-157-A72-354	BT40 x FMC31.75 - 90	177.4	90	22	76	31.75	42	7	12.7	3.20
5012-157-A56-354	BT50 x FMC22.225 - 90	208.8	90	17	47	22.225	28	3.5	8	4.40
5012-157-A56-413	BT50 x FMC22.225 - 105	223.8	105	17	47	22.225	28	3.5	8	4.70
5012-157-A56-591	BT50 x FMC22.225 - 150	268.8	150	17	47	22.225	28	3.5	8	5.30
5012-157-A56-787	BT50 x FMC22.225 - 200	318.8	200	17	47	22.225	28	3.5	8	6.00
5012-157-A56-984	BT50 x FMC22.225 - 250	368.8	250	17	47	22.225	28	3.5	8	6.60
5012-157-A56-1181	BT50 x FMC22.225 - 300	418.8	300	17	47	22.225	28	3.5	8	7.70
5012-157-A56-1378	BT50 x FMC22.225 - 350	468.8	350	17	47	22.225	28	3.5	8	8.90
5012-157-A64-177	BT50 x FMC25.4 - 45	166.8	45	20	50	25.4	35	4.525	9.525	4.00
5012-157-A64-236	BT50 x FMC25.4 - 60	181.8	60	20	50	25.4	35	5	9.525	4.50
5012-157-A64-354	BT50 x FMC25.4 - 90	211.8	90	20	50	25.4	35	5	9.525	5.40
5012-157-A64-591	BT50 x FMC25.4 - 150	271.8	150	20	50	25.4	35	5	9.525	7.20
5012-157-A64-787	BT50 x FMC25.4 - 200	321.8	200	20	50	25.4	35	5	9.525	8.70
5012-157-A64-984	BT50 x FMC25.4 - 250	371.8	250	20	50	25.4	35	5	9.525	10.3
5012-157-A64-1181	BT50 x FMC25.4 - 300	421.8	300	20	50	25.4	35	5	9.525	11.8
5012-157-A72-177	BT50 x FMC31.75 - 45	168.8	45	22	76	31.75	42	7	12.7	4.10
5012-157-A72-295	BT50 x FMC31.75 - 75	198.8	75	22	76	31.75	42	7	12.7	5.20
5012-157-A72-413	BT50 x FMC31.75 - 105	228.8	105	22	76	31.75	42	7	12.7	6.30
5012-157-A72-591	BT50 x FMC31.75 - 150	273.8	150	22	76	31.75	42	7	12.7	7.90
5012-157-A72-787	BT50 x FMC31.75 - 200	323.8	200	22	76	31.75	42	7	12.7	9.70
5012-157-A72-984	BT50 x FMC31.75 - 250	373.8	250	22	76	31.75	42	7	12.7	11.6
5012-157-A72-1181	BT50 x FMC31.75 - 300	423.8	300	22	76	31.75	42	7	12.7	13.4
5012-157-A80-177	BT50 x FMC38.1 - 45	171.8	45	25	100	38.1	52	9	15.9	4.40
5012-157-A80-295	BT50 x FMC38.1 - 75	201.8	75	25	100	38.1	52	9	15.9	6.30
5012-157-A80-413	BT50 x FMC38.1 - 105	231.8	105	25	100	38.1	52	9	15.9	8.10
5012-157-A80-591	BT50 x FMC38.1 - 150	276.8	150	25	100	38.1	52	9	15.9	10.9
5012-157-A80-787	BT50 x FMC38.1 - 200	326.8	200	25	100	38.1	52	9	15.9	14.5
5012-157-A80-984	BT50 x FMC38.1 - 250	376.8	250	25	100	38.1	52	9	15.9	17.5
5012-157-A80-1181	BT50 x FMC38.1 - 300	426.8	300	25	100	38.1	52	9	15.9	19.2

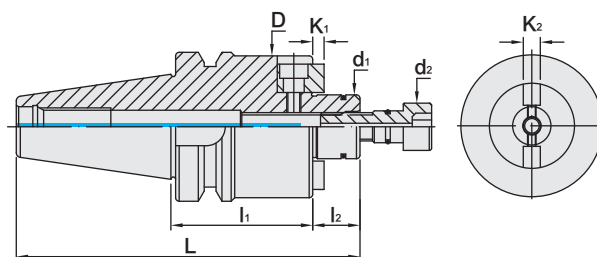
Standard Accessory: • NUT • SPANNER

Pull Stud	Nut	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)
				
P.X-72~73	P.X-80	P.X-80	P.X-81, 85	P.X-86



BT / SMA FACE MILL ARBOR

BT / SMA 平面铣刀桿



MODEL NO.	TYPE	L	l ₁	l ₂	D	d ₁	d ₂	K ₁	K ₂	WEIGHT (KGS)
5011-660-022-090	BT40 x SMA22 - 90	174.4	90	19	48	22	18	5	10	1.90
5011-660-022-105	BT40 x SMA22 - 105	189.4	105	19	48	22	18	5	10	1.10
5011-660-022-135	BT40 x SMA22 - 135	219.4	135	19	48	22	18	5	10	2.20
5011-660-027-090	BT40 x SMA27 - 90	175.4	90	20	60	27	20	6	12	2.00
5011-660-027-105	BT40 x SMA27 - 105	190.4	105	20	60	27	20	6	12	2.10
5011-660-027-135	BT40 x SMA27 - 135	220.4	135	20	60	27	20	6	12	2.20
5011-660-032-090	BT40 x SMA32 - 90	177.4	90	22	80	32	22	7	14	2.40
5011-660-032-105	BT40 x SMA32 - 105	192.4	105	22	80	32	22	7	14	2.50
5011-660-032-135	BT40 x SMA32 - 135	222.4	135	22	80	32	22	7	14	2.60
5012-660-022-090	BT50 x SMA22 - 90	210.8	90	19	48	22	18	5	10	4.80
5012-660-022-105	BT50 x SMA22 - 105	225.8	105	19	48	22	18	5	10	5.00
5012-660-022-135	BT50 x SMA22 - 135	255.8	135	19	48	22	18	5	10	5.10
5012-660-027-090	BT50 x SMA27 - 90	211.8	90	20	60	27	20	6	12	5.40
5012-660-027-105	BT50 x SMA27 - 105	226.8	105	20	60	27	20	6	12	5.50
5012-660-027-135	BT50 x SMA27 - 135	256.8	135	20	60	27	20	6	12	5.60
5012-660-032-090	BT50 x SMA32 - 90	213.8	90	22	80	32	22	7	14	5.80
5012-660-032-105	BT50 x SMA32 - 105	228.8	105	22	80	32	22	7	14	5.90
5012-660-032-135	BT50 x SMA32 - 135	258.8	135	22	80	32	22	7	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:

- ▶ AD+B type is available, please inform us when making an order.

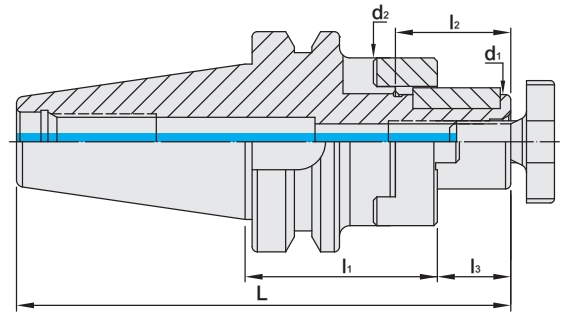
Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)
		
P.X-72~73	P.X-81, 85	P.X-86



BT / CSR COMBI SHELL END MILL ARBOR

BT

BT / CSR 聯結式銑刀桿



MODEL NO.	TYPE	L	l ₁	l ₂	l ₃	d ₁	d ₂	WEIGHT (KGS)
5010-061-016-050	BT30 x CSR16 - 50	115.4	50	27	17	16	32	1.40
5010-061-022-050	BT30 x CSR22 - 50	117.4	50	31	19	22	40	1.60
5010-061-027-055	BT30 x CSR27 - 55	124.4	55	33	21	27	48	1.80
5011-061-016-055	BT40 x CSR16 - 55	137.4	55	27	17	16	32	1.30
5011-061-022-055	BT40 x CSR22 - 55	139.4	55	31	19	22	40	1.60
5011-061-027-055	BT40 x CSR27 - 55	141.4	55	33	21	27	48	1.90
5011-061-032-060	BT40 x CSR32 - 60	149.4	60	38	24	32	58	2.40
5011-061-040-060	BT40 x CSR40 - 60	152.4	60	41	27	40	70	3.40
5012-061-016-060	BT50 x CSR16 - 60	178.8	60	27	17	16	32	4.40
5012-061-022-060	BT50 x CSR22 - 60	180.8	60	31	19	22	40	4.10
5012-061-027-060	BT50 x CSR27 - 60	182.8	60	33	21	27	48	4.50
5012-061-032-060	BT50 x CSR32 - 60	185.8	60	38	24	32	58	4.80
5012-061-040-070	BT50 x CSR40 - 70	198.8	70	41	27	40	70	5.20
5012-061-050-075	BT50 x CSR50 - 75	206.8	75	46	30	50	90	5.40

Features:

- Used with face milling cutters or side disc cutters.
- Removable ring, nut and spanner are included.

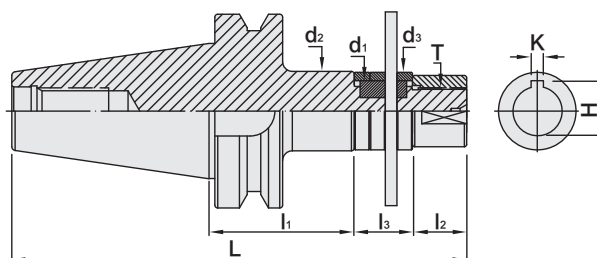
Standard Accessory: • Key • REMOVABLE RING • NUT • SPANNER

Pull Stud	Key	Removable Ring	Nut	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)
						
P.X-72~73	P.X-80	P.X-80	P.X-80	P.X-80	P.X-81, 85	P.X-86



BT / SCA SIDE CUTTER ADAPTER

BT / SCA 側銑刀桿



MODEL NO.	TYPE	L	l ₁	l ₂	l ₃	d ₁	d ₂	d ₃	K	H	T	WEIGHT (KGS)
5010-649-010-060	BT30 x SCA10 - 60	155.4	60	12	35	10	18	18	-	-	M8 x 1.25P	0.80
5010-649-016-060	BT30 x SCA16 - 60	154.4	60	16	30	16	26	26	4	17.7	M14 x 1.5P	1.00
5010-649-022-060	BT30 x SCA22 - 60	160.4	60	22	30	22	34	34	6	24.3	M20 x 1.5P	1.20
5010-649-022-075	BT30 x SCA22 - 75	175.4	75	22	30	22	34	34	6	24.3	M20 x 1.5P	1.40
5011-649-016-060	BT40 x SCA16 - 60	171.4	60	16	30	16	26	26	4	17.7	M14 x 1.5P	1.50
5011-649-022-060	BT40 x SCA22 - 60	177.4	60	22	30	22	34	34	6	24.3	M20 x 1.5P	1.60
5011-649-022-075	BT40 x SCA22 - 75	192.4	75	22	30	22	34	34	6	24.3	M20 x 1.5P	1.70
5011-649-022-120	BT40 x SCA22 - 120	237.4	120	22	30	22	34	34	6	24.3	M20 x 1.5P	2.00
5011-649-027-075	BT40 x SCA27 - 75	198.4	75	28	30	27	41	40	7	30	M24 x 1.5P	2.10
5011-649-027-120	BT40 x SCA27 - 120	243.4	120	28	30	27	41	40	7	30	M24 x 1.5P	2.50
5011-649-032-090	BT40 x SCA32 - 90	217.4	90	32	30	32	47	46	8	35.5	M30 x 1.5P	2.60
5012-649-022-090	BT50 x SCA22 - 90	243.8	90	22	30	22	34	34	6	24.3	M20 x 1.5P	4.40
5012-649-022-135	BT50 x SCA22 - 135	288.8	135	22	30	22	34	34	6	24.3	M20 x 1.5P	4.70
5012-649-027-090	BT50 x SCA27 - 90	249.8	90	28	30	27	41	40	7	30	M24 x 1.5P	4.60
5012-649-027-135	BT50 x SCA27 - 135	294.8	135	28	30	27	41	40	7	30	M24 x 1.5P	5.00
5012-649-032-090	BT50 x SCA32 - 90	253.8	90	32	30	32	47	46	8	35.5	M30 x 1.5P	4.70
5012-649-032-135	BT50 x SCA32 - 135	298.8	135	32	30	32	47	46	8	35.5	M30 x 1.5P	5.20
5012-649-040-090	BT50 x SCA40 - 90	261.8	90	40	30	40	55	55	10	43.7	M36 x 2.0P	5.00
5012-649-040-135	BT50 x SCA40 - 135	306.8	135	40	30	40	55	55	10	43.7	M36 x 2.0P	6.00

Features:

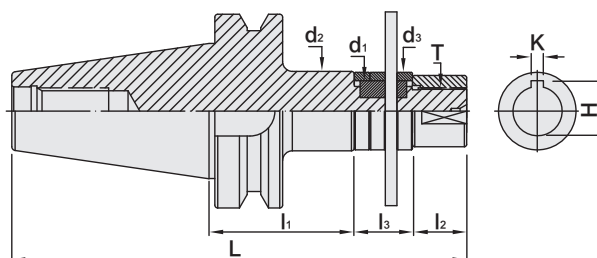
- ▶ Used with a side milling cutter.
- ▶ Attached with a nut (DIN-2082-1) and bushes (DIN-2084-B).

Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)
		
P.X-72~73	P.X-81, 85	P.X-86



BT / SCA SIDE CUTTER ADAPTER

BT / SCA 側銑刀桿



MODEL NO.	TYPE	L	l ₁	l ₂	l ₃	d ₁	d ₂	d ₃	K	H	T	WEIGHT (KGS)
5011-649-A56-295	BT40 x SCA22.22 - 75	192.4	75	22	30	22.22	34	34	3.18	24.6	M20 x 1.5P	1.70
5011-649-A56-472	BT40 x SCA22.22 - 120	237.4	120	22	30	22.22	34	34	3.18	24.6	M20 x 1.5P	2.00
5011-649-A64-295	BT40 x SCA25.4 - 75	198.4	75	28	30	25.4	41	40	6.35	28.4	M24 x 1.5P	2.00
5011-649-A64-472	BT40 x SCA25.4 - 120	243.4	120	28	30	25.4	41	40	6.35	28.4	M24 x 1.5P	2.40
5011-649-A72-354	BT40 x SCA31.75 - 90	217.4	90	32	30	31.75	47	46	7.93	34.8	M30 x 1.5P	2.60
5012-649-A56-354	BT50 x SCA22.22 - 90	243.8	90	22	30	22.22	34	34	3.18	24.6	M20 x 1.5P	4.40
5012-649-A56-531	BT50 x SCA22.22 - 135	288.8	135	22	30	22.22	34	34	3.18	24.6	M20 x 1.5P	4.70
5012-649-A64-354	BT50 x SCA25.4 - 90	249.8	90	28	30	25.4	41	40	6.35	28.4	M24 x 1.5P	4.50
5012-649-A64-531	BT50 x SCA25.4 - 135	294.8	135	28	30	25.4	41	40	6.35	28.4	M24 x 1.5P	4.90
5012-649-A72-354	BT50 x SCA31.75 - 90	253.8	90	32	30	31.75	47	46	7.93	34.8	M30 x 1.5P	4.70
5012-649-A72-531	BT50 x SCA31.75 - 135	298.8	135	32	30	31.75	47	46	7.93	34.8	M30 x 1.5P	5.20
5012-649-A80-354	BT50 x SCA38.1 - 90	261.8	90	40	30	38.1	55	55	9.525	42.4	M36 x 2.0P	4.90
5012-649-A80-531	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:

- ▶ Used with a side milling cutter.
- ▶ Attached with a nut (DIN-2082-1) and bushes (DIN-2084-B).

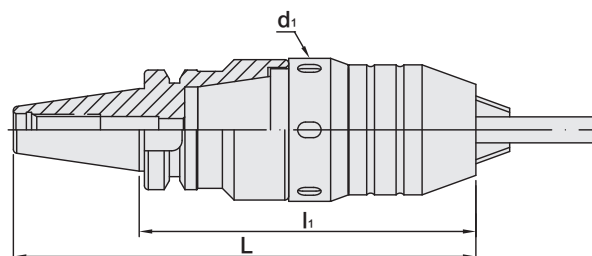
Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)
		
P.X-72~73	P.X-81, 85	P.X-86



BT / SPH DRILL CHUCK ADAPTER

INTEGRATED TYPE

BT / SPH 直結式鑽夾頭



MODEL NO.	TYPE	L	l ₁	d ₁	CLAMPING CAPACITY	WEIGHT (KGS)
5010-680-008-115	BT30 x SPH8 - 115	163.4	115	42	1 ~ 8	2.18
5010-680-013-130	BT30 x SPH13 - 130	178.4	130	54	1 ~ 13	2.45
5011-680-008-090	BT40 x SPH8 - 90	155.4	90	42	1 ~ 8	2.45
5011-680-013-105	BT40 x SPH13 - 105	170.4	105	54	1 ~ 13	2.33
5011-680-013-120	BT40 x SPH13 - 120	185.4	120	54	1 ~ 13	2.63
5012-680-008-100	BT50 x SPH8 - 100	201.8	100	42	1 ~ 8	4.93
5012-680-013-115	BT50 x SPH13 - 115	216.8	115	54	1 ~ 13	5.13
5012-680-013-135	BT50 x SPH13 - 135	236.8	135	54	1 ~ 13	5.43
5012-680-013-150	BT50 x SPH13 - 150	251.8	150	54	1 ~ 13	5.73
5012-680-016-128	BT50 x SPH16 - 128	229.8	128	62	3 ~ 16	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.

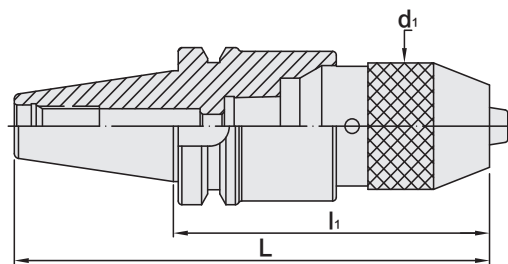
Standard Accessory: • SPANNER

Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)
		
P.X-72~73	P.X-81, 85	P.X-86



BT / SPU DRILL CHUCK ADAPTER

BT / SPU 直結式鑽夾頭



MODEL NO.	TYPE	L	l ₁	d ₁	CLAMPING CAPACITY	WEIGHT (KGS)
5010-669-008-080	BT30 x SPU8 - 80	128.4	80	37	1 ~ 8	0.72
5010-669-013-110	BT30 x SPU13 - 110	158.4	110	50	1 ~ 13	1.85
5010-669-016-115	BT30 x SPU16 - 115	163.4	115	57	3 ~ 16	2.18
5011-669-008-085	BT40 x SPU8 - 85	150.4	85	37	1 ~ 8	1.60
5011-669-013-100	BT40 x SPU13 - 100	165.4	100	50	1 ~ 13	2.00
5011-669-016-105	BT40 x SPU16 - 105	170.4	105	57	13 ~ 16	2.20
5012-669-008-090	BT50 x SPU8 - 90	191.8	90	37	1 ~ 8	4.16
5012-669-013-100	BT50 x SPU13 - 100	201.8	100	50	1 ~ 13	4.70
5012-669-013-120	BT50 x SPU13 - 120	221.8	120	50	1 ~ 13	5.00
5012-669-013-180	BT50 x SPU13 - 180	281.8	180	50	1 ~ 13	5.80
5012-669-016-105	BT50 x SPU16 - 105	206.8	105	57	3 ~ 16	5.03
5012-669-016-190	BT50 x SPU16 - 190	291.8	190	57	3 ~ 16	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.

Standard Accessory: • SPANNER

Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Spanner
			
P.X-72~73	P.X-81, 85	P.X-86	P.X-89



BT / STA SYNCHRONIZED TAPPING HOLDER

BT

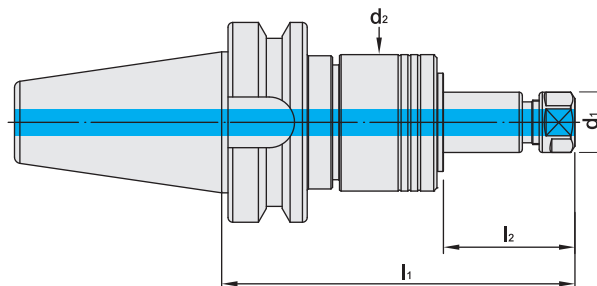


BT / STA 同步補償攻牙刀桿

[ER TYPE]



TW PAT NO. I615223
U S PAT NO. 9796059
C N PAT NO. ZL201620889099.X
I T PAT NO. 202023000000993



MODEL NO.	TYPE	l ₁	l ₂	d ₁	d ₂	COMBINATION		WEIGHT (KGS)
						BODY	TAP ADAPTER	
5010-S22-011-130	BT30 x STA11E - 130	130	70	19	42	BT30 x STA1	STA1 - ER11A - 70	0.92
5010-S22-016-085	BT30 x STA16E - 85	85	25	28	42	BT30 x STA1	STA1 - ER16A - 25	0.66
5010-S22-016-130	BT30 x STA16E - 130	130	70	28	42	BT30 x STA1	STA1 - ER16A - 70	0.86
5010-S22-016-210	BT30 x STA16E - 210	210	150	28	42	BT30 x STA1	STA1 - ER16A - 150	1.19
5010-S22-020-094	BT30 x STA20E - 94	94	34	34	42	BT30 x STA1	STA1 - ER20A - 34	0.70
5010-S22-020-130	BT30 x STA20E - 130	130	70	34	42	BT30 x STA1	STA1 - ER20A - 70	0.86
5011-S22-011-140	BT40 x STA11E - 140	140	70	19	42	BT40 x STA1	STA1 - ER11A - 70	1.54
5011-S22-016-095	BT40 x STA16E - 95	95	25	28	42	BT40 x STA1	STA1 - ER16A - 25	1.28
5011-S22-016-140	BT40 x STA16E - 140	140	70	28	42	BT40 x STA1	STA1 - ER16A - 70	1.48
5011-S22-016-220	BT40 x STA16E - 220	220	150	28	42	BT40 x STA1	STA1 - ER16A - 150	1.81
5011-S22-020-104	BT40 x STA20E - 104	104	34	34	42	BT40 x STA1	STA1 - ER20A - 34	1.32
5011-S22-020-140	BT40 x STA20E - 140	140	70	34	42	BT40 x STA1	STA1 - ER20A - 70	1.48
5011-S22-032-125	BT40 x STA32E - 125	125	40	50	58	BT40 x STA2	STA2 - ER32 - 40	1.92
5011-S22-032-155	BT40 x STA32E - 155	155	70	50	58	BT40 x STA2	STA2 - ER32 - 70	2.15
5012-S22-011-150	BT50 x STA11E - 150	150	70	19	42	BT50 x STA1	STA1 - ER11A - 70	1.54
5012-S22-016-105	BT50 x STA16E - 105	105	25	28	42	BT50 x STA1	STA1 - ER16A - 25	3.78
5012-S22-016-150	BT50 x STA16E - 150	150	70	28	42	BT50 x STA1	STA1 - ER16A - 70	3.98
5012-S22-016-230	BT50 x STA16E - 230	230	150	28	42	BT50 x STA1	STA1 - ER16A - 150	4.31
5012-S22-020-114	BT50 x STA20E - 114	114	34	34	42	BT50 x STA1	STA1 - ER20A - 34	3.82
5012-S22-020-150	BT50 x STA20E - 150	150	70	34	42	BT50 x STA1	STA1 - ER20A - 70	3.98
5012-S22-032-135	BT50 x STA32E - 135	135	40	50	58	BT50 x STA2	STA2 - ER32 - 40	4.42
5012-S22-032-165	BT50 x STA32E - 165	165	70	50	58	BT50 x STA2	STA2 - ER32 - 70	4.65

Features:

- ▶ Internal steel component allows the micro-compensation for the misfeed of spindle ballscrew and overload. Improve tapping quality and tap life. Optimum male and female threaded fitting is achieved due to the premium design!
- ▶ To prevent from interfering, the longer adapter can be custom-made.
- ▶ Coolant-through is available with coolant pressure up to 70 bar. STA has long use life even the synchronized micro-compensation mechanism is used at high coolant pressure..
- ▶ Modular design to meet more diverse demand.
- ▶ One of SYIC products patented by US invention.

Product information:

- ▶ AD+B type is available, please inform us when making an order.
- ▶ MAS/BT30 tool holders are without coolant supply over collars.

Application:

- ▶ Ideal for everyday tapping, high speed and high production tapping for modern CNC machines capable of rigid tapping.
- ▶ Also ideal for high-end tapping applications in modern CNC machines (small taps or difficult materials resulting in high torque loads).

Standard Accessory: • NUT

Collet	Nut	Pull Stud	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	TAP ADAPTER
P.X-19~45	P.X-63,65~67	P.X-72~73	PX-81~84,87~88,91	P.X-85	P.X-86	P.X-110

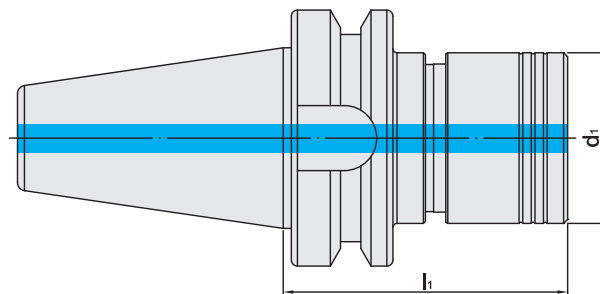


BT / STA SYNCHRONIZED TAPPING HOLDER BODY

BT / STA 同步補償攻牙刀桿本體



TW PAT NO. I615223
 US PAT NO. 9796059
 CN PAT NO. ZL201620889099.X
 IT PAT NO. 202023000000993



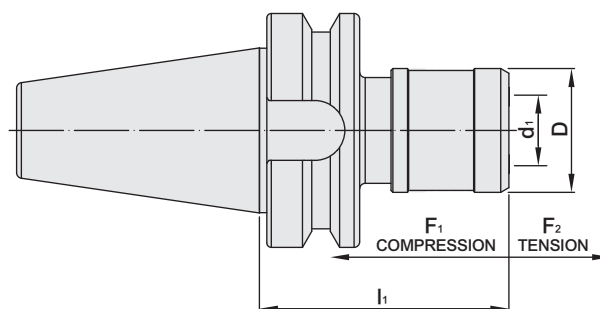
MODEL NO.	TYPE	l_1	d_1	STA NO.	WEIGHT (KGS)
5010-795-001-060	BT30 x STA1 - 60	60	42	1	0.56
5011-795-001-070	BT40 x STA1 - 70	70	42	1	1.18
5011-795-002-085	BT40 x STA2 - 85	85	58	2	1.48
5012-795-001-080	BT50 x STA1 - 80	80	42	1	3.68
5012-795-002-095	BT50 x STA2 - 95	95	58	2	3.98



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				
5010-580-001-070	BT30 x QTC1 - 70	TCS - 1B	M3 - M14	7.5	7.5	70	36	19	0.70
5010-580-002-105	BT30 x QTC2 - 105	TCS - 2B	M8 - M24	12.5	12.5	105	53	31	1.20
5011-580-001-075	BT40 x QTC1 - 75	TCS - 1B	M3 - M14	7.5	7.5	75	36	19	2.00
5011-580-002-095	BT40 x QTC2 - 95	TCS - 2B	M8 - M24	12.5	12.5	95	53	31	1.70
5011-580-003-160	BT40 x QTC3 - 160	TCS - 3B	M14 - M36	20	20	160	78	48	3.20
5012-580-001-085	BT50 x QTC1 - 85	TCS - 1B	M3 - M14	7.5	7.5	85	36	19	4.00
5012-580-002-105	BT50 x QTC2 - 105	TCS - 2B	M8 - M24	12.5	12.5	105	53	31	4.30
5012-580-003-150	BT50 x QTC3 - 150	TCS - 3B	M14 - M36	20	20	150	78	48	5.80

Features:

- ▶ Quick and easy tool change in seconds!
- ▶ Absorb any inaccuracies between the rotating spindle and the moving Z-axis, increasing tap life and the improving tapping quality.
- ▶ Also ideal for high-end tapping applications in modern CNC machines, such as: small taps or difficult materials resulting in high torque loads

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.
- ▶ Also ideal for high-end tapping applications in modern CNC machines, such as: small taps or difficult materials resulting in high torque loads.

Tapping Collet	Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)
			
P.A-58~60	P.X-72~73	P.X-81, 85	P.X-86

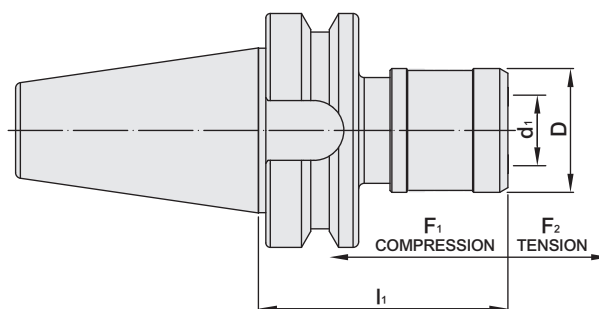


BT / QTC QUICK CHANGE TAPPING CHUCK

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				
5011-580-001-135	BT40 x QTC1 - 135	TCS - 1B	M3 - M14	7.5	7.5	135	38	19	2.00
5011-580-001-165	BT40 x QTC1 - 165	TCS - 1B	M3 - M14	7.5	7.5	165	38	19	2.50
5012-580-001-135	BT50 x QTC1 - 135	TCS - 1B	M3 - M14	7.5	7.5	135	38	19	4.40
5012-580-001-165	BT50 x QTC1 - 165	TCS - 1B	M3 - M14	7.5	7.5	165	38	19	4.70
5012-580-001-195	BT50 x QTC1 - 195	TCS - 1B	M3 - M14	7.5	7.5	195	38	19	5.00
5012-580-002-135	BT50 x QTC2 - 135	TCS - 2B	M8 - M24	12.5	12.5	135	58	31	5.30
5012-580-002-165	BT50 x QTC2 - 165	TCS - 2B	M8 - M24	12.5	12.5	165	58	31	6.20
5012-580-002-195	BT50 x QTC2 - 195	TCS - 2B	M8 - M24	12.5	12.5	195	58	31	7.00
5012-580-003-200	BT50 x QTC3 - 200	TCS - 3B	M14 - M36	20	20	200	62	48	7.20

Features:

- ▶ Quick and easy tool change in seconds!
- ▶ Absorb any inaccuracies between the rotating spindle and the moving Z-axis, increasing tap life and the improving tapping quality.
- ▶ Also ideal for high-end tapping applications in modern CNC machines, such as: small taps or difficult materials resulting in high torque loads

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.
- ▶ Also ideal for high-end tapping applications in modern CNC machines, such as: small taps or difficult materials resulting in high torque loads.

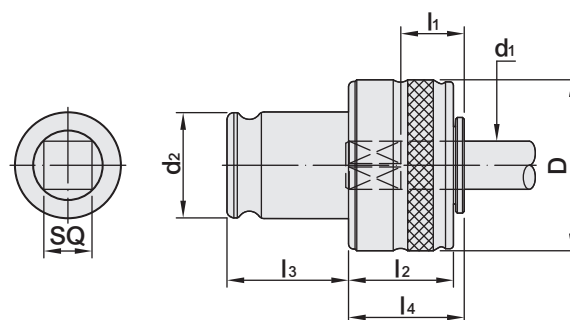
Tapping Collet	Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)
			
P.A-58~60	P.X-72~73	P.X-81, 85	P.X-86



QUICK CHANGE TAPPING COLLET

With safety clutch

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)
5250-690-001	TCS1B	32	19	17	25	25	21.5	0.18
5250-690-002	TCS2B	50	31	30	31	33	35.5	0.55
5250-690-003	TCS3B	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)
5250-695-001-01	2.24	1.8	M3.5	ISO529/2283	32	19	17	25	21.5	25	0.18
5250-695-001-02	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
5250-695-001-03	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
5250-695-001-04	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
5250-695-001-05	2.8	2.24	M2.2, M2.5	ISO529	32	19	17	25	21.5	25	0.18
5250-695-001-06	3	2.5	M2	JIS	32	19	17	25	21.5	25	0.18
5250-695-001-07	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
5250-695-001-08	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
5250-695-001-09	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
5250-695-001-10	4	3	M3.5	DIN371	32	19	17	25	21.5	25	0.18
5250-695-001-11	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
5250-695-001-12	4	3.2	M3	JIS	32	19	17	25	21.5	25	0.18
5250-695-001-13	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
5250-695-001-14	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
5250-695-001-15	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
5250-695-001-16	5.5	4.3	M7	DIN376	32	19	17	25	21.5	25	0.18
5250-695-001-17	5.5	4.5	M5, M5.5, #10	JIS	32	19	17	25	21.5	25	0.18
5250-695-001-18	5.6	4.5	M7	ISO529/2283	32	19	17	25	21.5	25	0.18
5250-695-001-19	6	4.5	M6, UNC 1/4	JIS	32	19	17	25	21.5	25	0.18
5250-695-001-20	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
5250-695-001-34	6.1	5	UNC 5/16	JIS	32	19	17	25	21.5	25	0.18



TYPE	D ₁	SQ	TAP	STANDARD	D	D ₂	l ₁	l ₂	l ₃	l ₄	WEIGHT (KGS)
5250-695-001-21	6.2	5	M8, M7	JIS	32	19	17	25	21.5	25	0.18
5250-695-001-22	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
5250-695-001-23	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
5250-695-001-24	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
5250-695-001-25	8	6	M11, UNC7/16	JIS	32	19	17	25	21.5	25	0.18
5250-695-001-26	8	6.2	M8	DIN371	32	19	17	25	21.5	25	0.18
5250-695-001-27	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
5250-695-001-28	8.5	6.5	M12	JIS	32	19	17	25	21.5	25	0.18
5250-695-001-29	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
5250-695-001-30	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
5250-695-001-31	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
5250-695-001-32	10.5	8	M14, M15, UNC9/16	JIS	32	19	17	25	21.5	25	0.18
5250-695-001-33	11	9	M14	DIN376	32	19	17	25	21.5	25	0.18

TCS - 2B

5250-695-002-01	5.5	4.5	M5.5, M5, #10	JIS	50	31	30	31	35.5	33	0.55
5250-695-002-02	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
5250-695-002-03	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
5250-695-002-27	6.1	5	UNC5/16	JIS	50	31	30	31	35.5	33	0.55
5250-695-002-04	6.2	5	M8, M7	JIS	50	31	30	31	35.5	33	0.55
5250-695-002-05	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
5250-695-002-06	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
5250-695-002-07	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
5250-695-002-08	8	6	M11, UNC7/16	JIS	50	31	30	31	35.5	33	0.55
5250-695-002-09	8	6.2	M8	DIN371	50	31	30	31	35.5	33	0.55
5250-695-002-10	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
5250-695-002-11	8.5	6.5	M12	JIS	50	31	30	31	35.5	33	0.55
5250-695-002-12	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
5250-695-002-13	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
5250-695-002-14	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
5250-695-002-15	10.5	8	M14, M15, UNC9/16	JIS	50	31	30	31	35.5	33	0.55
5250-695-002-16	11	9	M14	DIN376	50	31	30	31	35.5	33	0.55
5250-695-002-17	11.2	9	M14	ISO529/2283	50	31	30	31	35.5	33	0.55
5250-695-002-18	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
5250-695-002-19	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
5250-695-002-20	13	10	M17	JIS	50	31	30	31	35.5	33	0.55
5250-695-002-21	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
5250-695-002-22	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
5250-695-002-23	15	12	M20	JIS	50	31	30	31	35.5	33	0.55
5250-695-002-24	16	12	M20	DIN376	50	31	30	31	35.5	33	0.55
5250-695-002-25	16	12.5	M22	ISO529/2283	50	31	30	31	35.5	33	0.55
5250-695-002-26	17	13	M22, UNC7/8	JIS	50	31	30	31	35.5	33	0.55



TCS - 3B

TYPE	D ₁	SQ	TAP	STANDARD	D	D ₂	l ₁	l ₂	l ₃	l ₄	WEIGHT (KGS)
5250-695-003-01	18	14	M24	ISO529/2283	50	31	30	31	35.5	33	0.55
5250-695-003-02	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
5250-695-003-03	19	15	M24, M25	JIS	50	31	30	31	35.5	33	0.55
5250-695-003-04	10.5	8	M14, M15, UNC9/16	JIS	72	48	44	41	55.5	45	1.58
5250-695-003-05	11	9	M14	DIN376	72	48	44	41	55.5	45	1.58
5250-695-003-06	11.2	9	M14	ISO529/2283	72	48	44	41	55.5	45	1.58
5250-695-003-07	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
5250-695-003-08	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
5250-695-003-09	13	10	M17	JIS	72	48	44	41	55.5	45	1.58
5250-695-003-10	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
5250-695-003-11	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
5250-695-003-12	15	12	M20	JIS	72	48	44	41	55.5	45	1.58
5250-695-003-13	16	12	M20	DIN376	72	48	44	41	55.5	45	1.58
5250-695-003-14	16	12.5	M22	ISO529/2283	72	48	44	41	55.5	45	1.58
5250-695-003-15	17	13	M22, UNC7/8	JIS	72	48	44	41	55.5	45	1.58
5250-695-003-16	18	14	M24	ISO529/2283	72	48	44	41	55.5	45	1.58
5250-695-003-17	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
5250-695-003-18	19	15	M24, M25	JIS	72	48	44	41	55.5	45	1.58
5250-695-003-19	20	15	M27, M26, UNC1	JIS	72	48	44	41	55.5	45	1.58
5250-695-003-20	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
5250-695-003-21	21	17	M28	JIS	72	48	44	41	55.5	45	1.58
5250-695-003-31	22	17	UNC1-1/8	JIS	72	48	44	41	55.5	45	1.58
5250-695-003-22	22	18	M30	DIN376	72	48	44	41	55.5	45	1.58
5250-695-003-23	22.4	18	M33	ISO529/2283	72	48	44	41	55.5	45	1.58
5250-695-003-24	23	17	M30	JIS	72	48	44	41	55.5	45	1.58
5250-695-003-25	24	19	M32, UNC1-1/4	JIS	72	48	44	41	55.5	45	1.58
5250-695-003-26	25	19	M33	JIS	72	48	44	41	55.5	45	1.58
5250-695-003-27	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
5250-695-003-28	26	21	M35, M34, UNC1-3/8	JIS	72	48	44	41	55.5	45	1.58
5250-695-003-29	28	21	M36	JIS	72	48	44	41	55.5	45	1.58
5250-695-003-30	28	22	M36	DIN376	72	48	44	41	55.5	45	1.58

Features:

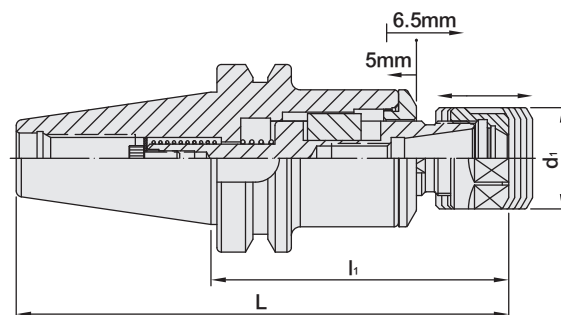
- ▶ Quick and easy tool change.
- ▶ With safety clutch which torque can be adjusted in advance.
- ▶ Safety clutch mechanism prevents tap breakage from excessive torque, such as: small taps or difficult materials. In this case, Quick Change Tapping Chuck with length compensation should be used together.
- ▶ Please confirm the sizes of D₁, SQ and TAP and inform TYPE when making an order.



BT / ETP EXPANSION ER TAPPER



BT / ETP 伸縮 ER 攻牙器



MODEL NO.	TYPE	L	l ₁	d ₁	COLLET	CAPACITY	WEIGHT (KGS)
5010-124-016-075	BT30 x ETP16A - 75	123.4	75	28	ER16	M3 - M12	0.55
5010-124-016-090	BT30 x ETP16A - 90	138.4	90	28	ER16	M3 - M12	0.60
5010-124-020-075	BT30 x ETP20A - 75	123.4	75	34	ER20	M3 - M17	0.58
5010-124-020-090	BT30 x ETP20A - 90	138.4	90	34	ER20	M3 - M17	0.62
5011-124-016-120	BT40 x ETP16A - 120	185.4	120	28	ER16	M3 - M12	1.65
5011-124-016-150	BT40 x ETP16A - 150	215.4	150	28	ER16	M3 - M12	1.85
5011-124-020-100	BT40 x ETP20A - 100	165.4	100	34	ER20	M3 - M17	1.65
5011-124-020-150	BT40 x ETP20A - 150	215.4	150	34	ER20	M3 - M17	1.90
5011-102-020-200	BT40 x ETP20M - 200	265.4	200	28	ER20	M3 - M17	2.15
5011-124-032-125	BT40 x ETP32 - 125	190.4	125	50	ER32	M3 - M27	2.10
5012-124-016-120	BT50 x ETP16A - 120	221.8	120	28	ER16	M3 - M12	4.30
5012-124-016-150	BT50 x ETP16A - 150	251.8	150	28	ER16	M3 - M12	4.50
5012-124-020-100	BT50 x ETP20A - 100	201.8	100	34	ER20	M3 - M17	4.30
5012-124-020-150	BT50 x ETP20A - 150	251.8	150	34	ER20	M3 - M17	4.60
5012-102-020-200	BT50 x ETP20M - 200	301.8	200	28	ER20	M3 - M17	4.70
5012-124-032-125	BT50 x ETP32 - 125	226.8	125	50	ER32	M3 - M27	4.65

Features:

- ▶ Tension: 6.5mm, compression: 5mm.
- ▶ Suitable for traditional CNC machines without rigid tapping program.
- ▶ Using with rigid tap collets increases the clamping force, prevents taps from falling off and improves the machining efficiency.

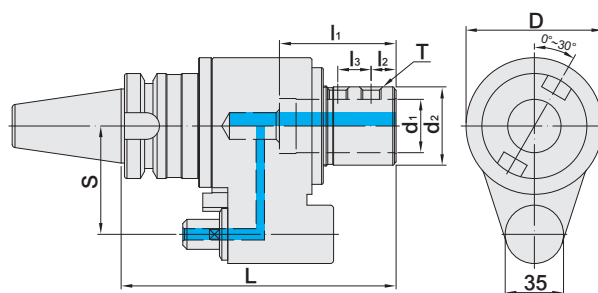
Standard Accessory: • NUT

Collet	Nut	Pull Stud	Preset Screw	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)
PX-19~22,37~38	P.X-63	P.X-72~73	P.X-121	P.X-81~82,87	P.X-85	P.X-86



BT / OSL SIDE LOCK OIL HOLE HOLDER

BT / OSL 側固式油路刀把



MODEL NO.	TYPE	L	l ₁	l ₂	l ₃	D	d ₁	d ₂	S	T	WEIGHT (KGS)
5011-604-161-165	BT40 x OSL16 - 165	165	58	25	-	82	16	46.5	65	M12 x 1.75P	3.10
5011-604-201-165	BT40 x OSL20 - 165	165	60	25	-	82	20	46.5	65	M12 x 1.75P	3.50
5011-604-251-165	BT40 x OSL25 - 165	165	66	15	20	82	25	46.5	65	M12 x 1.75P	3.50
5011-604-321-165	BT40 x OSL32 - 165	165	70	15	20	82	32	47	65	M12 x 1.75P	5.20
5011-604-162-165	BT40 x OSL16 - 165S	165	48	25	-	82	16	46.5	60	M12 x 1.75P	3.10
5011-604-202-165	BT40 x OSL20 - 165S	165	50	25	-	82	20	46.5	60	M12 x 1.75P	3.50
5011-604-252-165	BT40 x OSL25 - 165S	165	56	15	20	82	25	46.5	60	M12 x 1.75P	3.50
5011-604-322-165	BT40 x OSL32 - 165S	165	60	15	20	82	32	47	60	M12 x 1.75P	5.20
5012-604-163-165	BT50 x OSL16 - 165	165	58	24	-	98	16	56	80	M14 x 2.0P	7.00
5012-604-203-165	BT50 x OSL20 - 165	165	60	25	-	98	20	56	80	M12 x 1.75P	7.50
5012-604-253-165	BT50 x OSL25 - 165	165	70	15	20	98	25	56	80	M16 x 2.0P	7.50
5012-604-323-165	BT50 x OSL32 - 165	165	70	15	20	98	32	56	80	M16 x 2.0P	7.80
5012-604-403-170	BT50 x OSL40 - 170	170	70	15	25	105	40	56	80	M14 x 2.0P	8.50
5012-604-164-165	BT50 x OSL16 - 165M	165	48	25	-	98	16	56	82	M14 x 2.0P	7.10
5012-604-204-165	BT50 x OSL20 - 165M	165	50	25	-	98	20	56	82	M12 x 1.75P	7.60
5012-604-254-165	BT50 x OSL25 - 165M	165	56	15	20	98	25	56	82	M16 x 2.0P	7.70
5012-604-324-165	BT50 x OSL32 - 165M	165	60	15	20	98	32	56	82	M16 x 2.0P	7.80
5012-604-404-170	BT50 x OSL40 - 170M	170	62	15	25	105	40	56	82	M14 x 2.0P	8.50
5012-604-165-165	BT50 x OSL16 - 165L	165	48	25	-	98	16	56	85	M14 x 2.0P	7.20
5012-604-205-165	BT50 x OSL20 - 165L	165	50	25	-	98	20	56	85	M12 x 1.75P	7.80
5012-604-255-165	BT50 x OSL25 - 165L	165	56	15	20	98	25	56	85	M16 x 2.0P	7.80
5012-604-325-165	BT50 x OSL32 - 165L	165	60	15	20	98	32	56	85	M16 x 2.0P	8.00
5012-604-405-170	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:

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

Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Straight Sleeve	Lock Screw	Fixed Block
P.X-72~73	P.X-81, 85	P.X-86	P.X-116	P.X-124	P.X-129

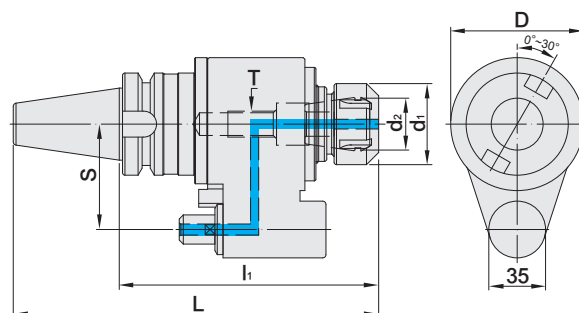


BT / OHER OIL HOLE COLLET CHUCK

BT



BT / OHER 油路刀把



MODEL NO.	TYPE	L	l ₁	D	d ₁	d ₂ ER	S	T	WEIGHT (KGS)
5011-601-161-160	BT40 x OHER16 - 160	225.4	160	82	28	16	65	M10	3.80
5011-601-201-160	BT40 x OHER20 - 160	225.4	160	82	34	20	65	M12	4.10
5011-601-251-160	BT40 x OHER25 - 160	225.4	160	82	42	25	65	M16	4.30
5011-601-321-160	BT40 x OHER32 - 160	225.4	160	82	50	32	65	M16	4.50
5012-601-163-160	BT50 x OHER16 - 160	261.8	160	98	28	16	80	M10	7.00
5012-601-203-160	BT50 x OHER20 - 160	261.8	160	98	34	20	80	M12	7.10
5012-601-253-160	BT50 x OHER25 - 160	261.8	160	98	42	25	80	M16	7.20
5012-601-323-160	BT50 x OHER32 - 160	261.8	160	98	50	32	80	M16	7.30
5012-601-403-160	BT50 x OHER40 - 160	261.8	160	98	63	40	80	M20	7.50

Features:

- Used for machines w/o center or side coolant and achieve coolant through tools.

Product information:

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

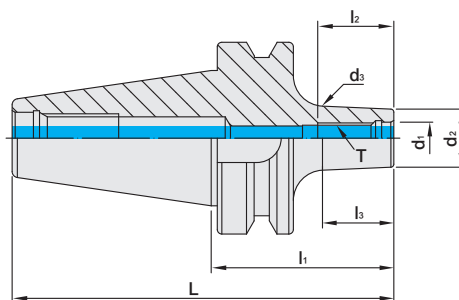
Standard Accessory: • NUT

Collet	Nut	Pull Stud	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Preset Screw	Fixed Block
P.X-19~45	P.X-63, 67	P.X-72~73	P.X-81~82,87	P.X-85	P.X-86	P.X-121	P.X-129



BT / SOM SCREWED END MILL HOLDER

BT / SOM 螺紋鎖固式刀桿



MODEL NO.	TYPE	L	l ₁	l ₂	l ₃	d ₁	d ₂	d ₃	T	WEIGHT (KGS)
5011-670-006-060	BT40 x SOM6 - 60	125.4	60	25	23.4	6.5	13	15.1	M6 x 1.0P	1.10
5011-670-008-060	BT40 x SOM8 - 60	125.4	60	25	23.4	8.5	15	17.1	M8 x 1.25P	1.10
5011-670-010-060	BT40 x SOM10 - 60	125.4	60	25	23.4	10.5	19	21.1	M10 x 1.5P	1.20
5011-670-012-070	BT40 x SOM12 - 70	135.4	70	31	31.5	12.5	21	22.8	M12 x 1.75P	1.20
5011-670-012-100	BT40 x SOM12 - 100	165.4	100	31	43.2	12.5	21	24.7	M12 x 1.75P	1.30
5011-670-016-080-0	BT40 x SOM16 - 80	145.4	80	30	48.2	17	25	29.2	M16 x 2.0P	1.20
5011-670-016-080-3	BT40 x SOM16 - 80	145.4	80	30	48.2	17	30	34.2	M16 x 2.0P	1.20
5012-670-006-060	BT50 x SOM6 - 60	161.8	60	25	12.4	6.5	13	14.1	M6 x 1.0P	3.00
5012-670-008-060	BT50 x SOM8 - 60	161.8	60	25	12.4	8.5	15	16.1	M8 x 1.25P	3.00
5012-670-010-060	BT50 x SOM10 - 60	161.8	60	25	12.4	10.5	19	20.1	M10 x 1.5P	3.00
5012-670-012-070	BT50 x SOM12 - 70	171.8	70	31	22.4	12.5	21	22.9	M12 x 1.75P	3.00
5012-670-012-100	BT50 x SOM12 - 100	201.8	100	31	52.4	12.5	21	25.6	M12 x 1.75P	3.00
5012-670-016-080	BT50 x SOM16 - 80	181.8	80	30	32.4	17	25	27.7	M16 x 2.0P	3.00

Product information:

- ▶ AD+B type is available, please inform us when making an order.

Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)
		
P.X-72~73	P.X-81, 85	P.X-86



BT / MTA MORSE TAPER ADAPTER

TANG TYPE

BT

BT / MTA 斜柄鑽頭套筒

(DIN 228-B)



Fig.1

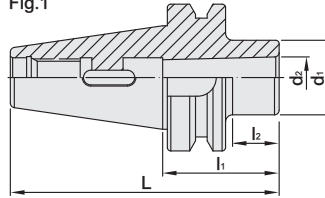
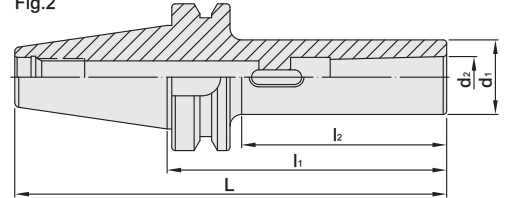


Fig.2



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	Fig	WEIGHT (KGS)
5010-465-001-045	BT30 x MTA1 - 45	93.4	45	20	25	12.065	1	0.50
5010-465-001-105	BT30 x MTA1 - 105	153.4	105	78	25	12.065	2	0.70
5010-465-002-060	BT30 x MTA2 - 60	108.4	60	35	32	17.78	1	0.54
5010-465-002-120	BT30 x MTA2 - 120	168.4	120	95	32	17.78	2	0.90
5010-465-003-080	BT30 x MTA3 - 80	128.4	80	56	40	23.825	1	0.72
5011-465-001-045	BT40 x MTA1 - 45	110.4	45	15	25	12.065	1	1.05
5011-465-001-120	BT40 x MTA1 - 120	185.4	120	83	25	12.065	2	1.32
5011-465-002-050	BT40 x MTA2 - 50	115.4	50	20	32	17.78	1	1.10
5011-465-002-120	BT40 x MTA2 - 120	185.4	120	88	32	17.78	2	1.42
5011-465-003-070	BT40 x MTA3 - 70	135.4	70	38	40	23.825	1	1.20
5011-465-003-135	BT40 x MTA3 - 135	200.4	135	102	40	23.825	2	1.70
5011-465-004-095	BT40 x MTA4 - 95	160.4	95	63	48	31.267	1	1.40
5011-465-004-165	BT40 x MTA4 - 165	230.4	165	133	48	31.267	2	2.50
5012-465-001-045	BT50 x MTA1 - 45	146.8	45	2	25	12.065	1	3.80
5012-465-001-120	BT50 x MTA1 - 120	221.8	120	74	25	12.065	2	4.30
5012-465-001-180	BT50 x MTA1 - 180	281.8	180	132	25	12.065	2	5.00
5012-465-002-060	BT50 x MTA2 - 60	161.8	60	17	32	17.78	1	4.00
5012-465-002-135	BT50 x MTA2 - 135	236.8	135	89	32	17.78	2	4.70
5012-465-002-180	BT50 x MTA2 - 180	281.8	180	132	32	17.78	2	5.00
5012-465-003-065	BT50 x MTA3 - 65	166.8	65	22	40	23.825	1	3.90
5012-465-003-150	BT50 x MTA3 - 150	251.8	150	107	40	23.825	2	5.00
5012-465-003-180	BT50 x MTA3 - 180	281.8	180	132	40	23.825	2	5.50
5012-465-004-095	BT50 x MTA4 - 95	196.8	95	52	48	31.267	1	4.20
5012-465-004-180	BT50 x MTA4 - 180	281.8	180	132	48	31.267	2	5.50
5012-465-005-105	BT50 x MTA5 - 105	206.8	105	62	63	44.399	2	4.30

Features:

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

Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)
		
P.X-72~73	P.X-81, 85	P.X-86

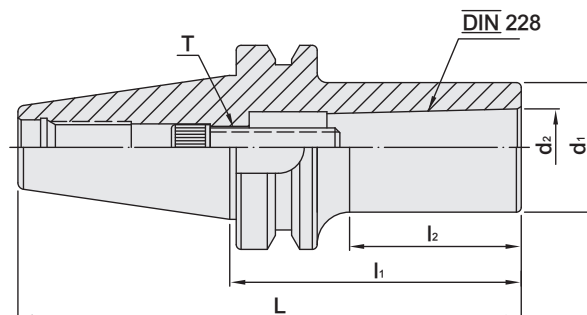


BT / MTB MORSE TAPER ADAPTER

DRAW BAR TYPE

BT / MTB 斜柄鑽頭套筒

[DIN 6364]



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	WEIGHT (KGS)
5010-466-011/5-045	BT30 x MTB1 - 45	93.4	45	20	25	12.065	M6 x 1.0P 1/4" - 20	0.55
5010-466-021/5-060	BT30 x MTB2 - 60	108.4	60	36	32	17.78	M10 x 1.5P 3/8" - 16	0.60
5011-466-011/5-045	BT40 x MTB1 - 45	110.4	45	13	25	12.065	M6 x 1.0P 1/4" - 20	1.10
5011-466-021/5-045	BT40 x MTB2 - 45	110.4	45	13	32	17.78	M10 x 1.5P 3/8" - 16	1.10
5011-466-021/5-185	BT40 x MTB2 - 185	250.4	185	148	32	17.78	M10 x 1.5P 3/8" - 16	1.90
5011-466-031/5-075	BT40 x MTB3 - 75	140.4	75	45	40	23.825	M12 x 1.75P 1/2" - 12	1.30
5011-466-031/5-090	BT40 x MTB3 - 90	155.4	90	53	40	23.825	M12 x 1.75P 1/2" - 12	1.40
5011-466-031/5-120	BT40 x MTB3 - 120	185.4	120	83	40	23.825	M12 x 1.75P 1/2" - 12	1.80
5011-466-031/5-180	BT40 x MTB3 - 180	245.4	180	143	40	23.825	M12 x 1.75P 1/2" - 12	2.40
5011-466-041/5-100	BT40 x MTB4 - 100	165.4	100	67	48	31.267	M16 x 2.0P 5/8" - 11	1.60
5011-466-041/5-120	BT40 x MTB4 - 120	185.4	120	87	48	31.267	M16 x 2.0P 5/8" - 11	1.80
5011-466-041/5-180	BT40 x MTB4 - 180	245.4	180	147	48	31.267	M16 x 2.0P 5/8" - 11	2.60
5012-466-011/5-045	BT50 x MTB1 - 45	146.8	45	6	25	12.065	M6 x 1.0P 1/4" - 20	3.80
5012-466-021/5-045	BT50 x MTB2 - 45	146.8	45	5	32	17.78	M10 x 1.5P 3/8" - 16	3.90
5012-466-031/5-060	BT50 x MTB3 - 60	161.8	60	12	40	23.825	M12 x 1.75P 1/2" - 12	3.90
5012-466-041/5-075	BT50 x MTB4 - 75	176.8	75	32	48	31.267	M16 x 2.0P 5/8" - 11	4.20
5012-466-051/5-120	BT50 x MTB5 - 120	221.8	120	77	63	44.399	M24 x 3.0P 1" - 8	4.30

Features:

- ▶ MTB Morse Taper Adapter : The tools used are consistent with Morse Taper DIN228 FROM A (with Threads).

Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)
		
P.X-72~73	P.X-81, 85	P.X-86



BT ADAPTER

BT

BT 套筒



Fig.1

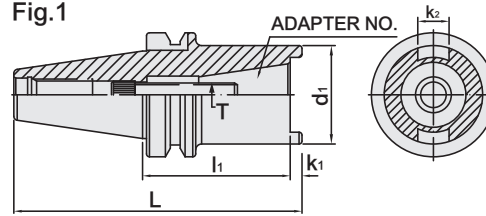
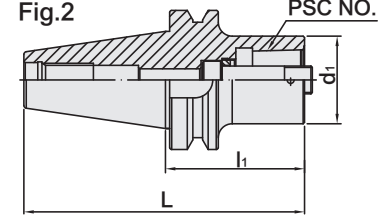


Fig.2



MODEL NO.	TYPE	NO.	L	l ₁	d ₁	k ₁	k ₂	T	MAX. TORQUE		Fig	WEIGHT (KGS)
									Nm	ft-lbs		
5010-013-032-030	BT30 x PSC32 - 30	PSC32	78.4	30	32	-	-	M12x1.5P	45	33	2	0.40
5010-013-032-050	BT30 x PSC32 - 50	PSC32	98.4	50	32	-	-	M12x1.5P	45	33	2	0.42
5011-692-301-075	BT40 x TSA30M - 75	#30	146.4	75	50	6	15.9	M12 x 1.75P	45	33	1	1.80
5011-692-303-075	BT40 x TSA30U - 75	#30	146.4	75	50	6	15.9	1/2" - 12	45	33	1	1.80
5011-013-140-030	BT40 x PSC32 - 30	PSC32	95.4	30	32	-	-	M12 x 1.5P	45	33	2	1.60
5011-013-141-030	BT40 x PSC40 - 30	PSC40	95.4	30	40	-	-	M14 x 1.5P	55	40	2	1.60
5011-013-142-030	BT40 x PSC50 - 30	PSC50	95.4	30	50	-	-	M16 x 1.5P	95	70	2	1.60
5011-013-143-075	BT40 x PSC63 - 75	PSC63	140.4	75	63	-	-	M20 x 2.0P	170	125	2	1.80
5011-013-144-135	BT40 x PSC80 - 135	PSC80	200.4	135	80	-	-	M20 x 2.0P	170	125	2	3.78
5012-692-301-075	BT50 x TSA30M - 75	#30	182.8	75	50	6	15.9	M12 x 1.75P	45	33	1	5.00
5012-692-303-075	BT50 x TSA30U - 75	#30	182.8	75	50	6	15.9	1/2" - 12	45	33	1	5.00
5012-692-401-075	BT50 x TSA40M - 75	#40	184.8	75	85	8	15.9	M16 x 2.0P	55	40	1	4.60
5012-692-403-075	BT50 x TSA40U - 75	#40	184.8	75	85	8	15.9	5/8" - 11	55	40	1	4.60
5012-013-140-040	BT50 x PSC32 - 40	PSC32	141.8	40	32	-	-	M12 x 1.5P	45	33	2	4.60
5012-013-141-040	BT50 x PSC40 - 40	PSC40	141.8	40	40	-	-	M14 x 1.5P	55	40	2	4.60
5012-013-142-040	BT50 x PSC50 - 40	PSC50	141.8	40	50	-	-	M16 x 1.5P	95	70	2	4.60
5012-013-143-100	BT50 x PSC63 - 100	PSC63	201.8	100	63	-	-	M20 x 2.0P	170	125	2	5.00
5012-013-143-150	BT50 x PSC63 - 150	PSC63	251.8	150	63	-	-	M20 x 2.0P	170	125	2	5.93
5012-013-143-200	BT50 x PSC63 - 200	PSC63	301.8	200	63	-	-	M20 x 2.0P	170	125	2	6.99
5012-013-143-250	BT50 x PSC63 - 250	PSC63	351.8	250	63	-	-	M20 x 2.0P	170	125	2	8.06
5012-013-143-300	BT50 x PSC63 - 300	PSC63	401.8	300	63	-	-	M20 x 2.0P	170	125	2	8.91
5012-013-144-070	BT50 x PSC80 - 70	PSC80	171.8	70	80	-	-	M20 x 2.0P	170	125	2	3.86
5012-013-144-120	BT50 x PSC80 - 120	PSC80	221.8	120	80	-	-	M20 x 2.0P	170	125	2	5.67
5012-013-146-140	BT50 x PSC100 - 140	PSC100	241.8	140	100	-	-	M24 x 2.0P	380	277	2	7.62

Features:

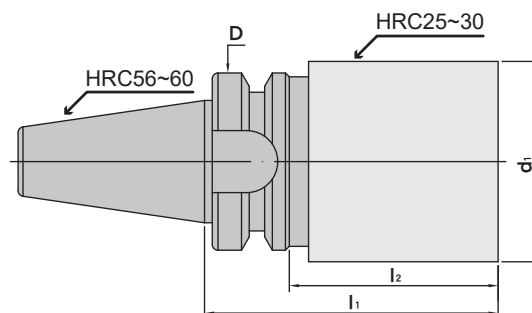
- Convert the machine taper for use with different taper types or taper sizes of tool holders.

Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)
P.X-72~73	P.X-81, 85	P.X-86



BT BLANK

BT 素材



MODEL NO.	TYPE	D	d ₁	l ₁	l ₂	WEIGHT (KGS)
5010-001-050-200	BT30 x Ø50 - 200	46	50	200	178	3.12
5011-001-041-160	BT40 x Ø40.5 - 160	63	40.5	160	133	2.30
5011-001-064-160	BT40 x Ø63.5 - 160	63	63.5	160	133	4.21
5011-001-064-250	BT40 x Ø63.5 - 250	63	63.5	250	223	6.41
5012-001-050-300	BT50 x Ø50 - 300	100	50	300	262	7.53
5012-001-080-160	BT50 x Ø80 - 160	100	80	160	122	8.29
5012-001-080-200	BT50 x Ø80 - 200	100	80	200	162	9.84
5012-001-080-300	BT50 x Ø80 - 300	100	80	300	262	13.71

Features:

- Blanks can be machined according to customer demands. It is not recommended to do heat treatment after machining.

Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)
		
P.X-72~73	P.X-81, 85	P.X-86

