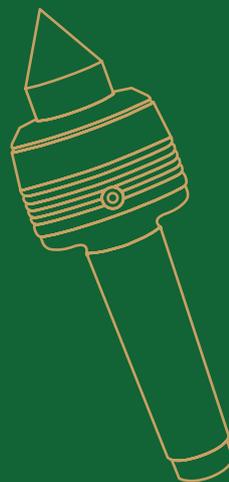
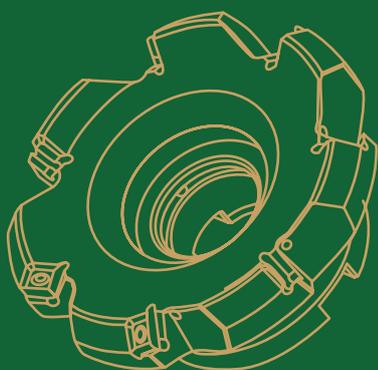


2025

Cutting Tools Catalog

СТАНОЧНАЯ ОСНАСТКА



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BT

JIS MAS 403 / B6339

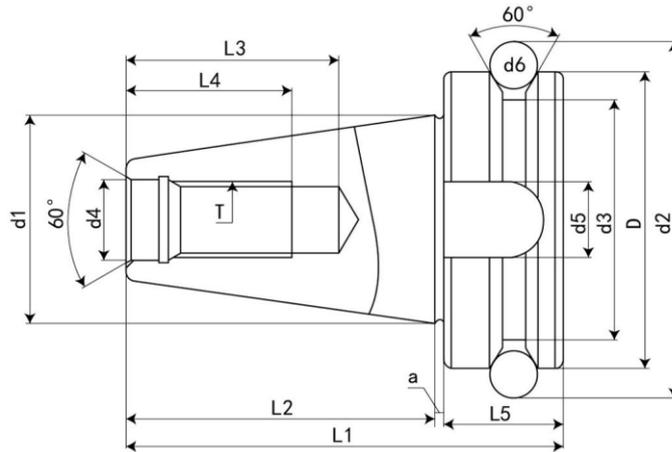
PRECISION TOOL HOLDERS SYSTEM



BT

CNC TOOL SYSTEMS

REFERENCE DETAILS



Model	D h8	d1	d2	d3	d H8	d5 H12	d6	L1	L2 ±0.2	L3 Min	L4 Min	L5	a ±0.4	T 6H
BT30	46	31.75	56.14	38	12.5	16.1	8	70.4	48.4	34	24	20	2	M12*1.75P
BT40	63	44.45	75.679	53	17	16.1	10	92.4	65.4	70	30	25	2	M16*2.0P
BT50	100	69.85	119.02	83	25	25.7	15	139.8	101.8	90	45	35	3	M24*3.0P

Features:

- ◎ Taper tolerance < AT3
- ◎ Basic Material: JIS-SCM415
- ◎ Hardness > HRC56° Carbon depth > 0.8mm
- ◎ Roundness < 0.8um
- ◎ Surface roughness: Ra < 0.5um
- ◎ if it is suitable for center coolant standard (DIN-69871-AD or B), it can be ordered
- ◎ ER, EOC, FMA, FMB, MLC, MLT, SCK, SFC, SKS, SLN(Din, FID, JIS), SOM, TG Are in compliance with: Water through the chuck body center type (DIN-69871-AD)
- ◎ The shank has pre-balance at G6.3 and can provide precision balance at G2.5, made by request
- ◎ Shank body standard: JIS MAS 403 and B6339

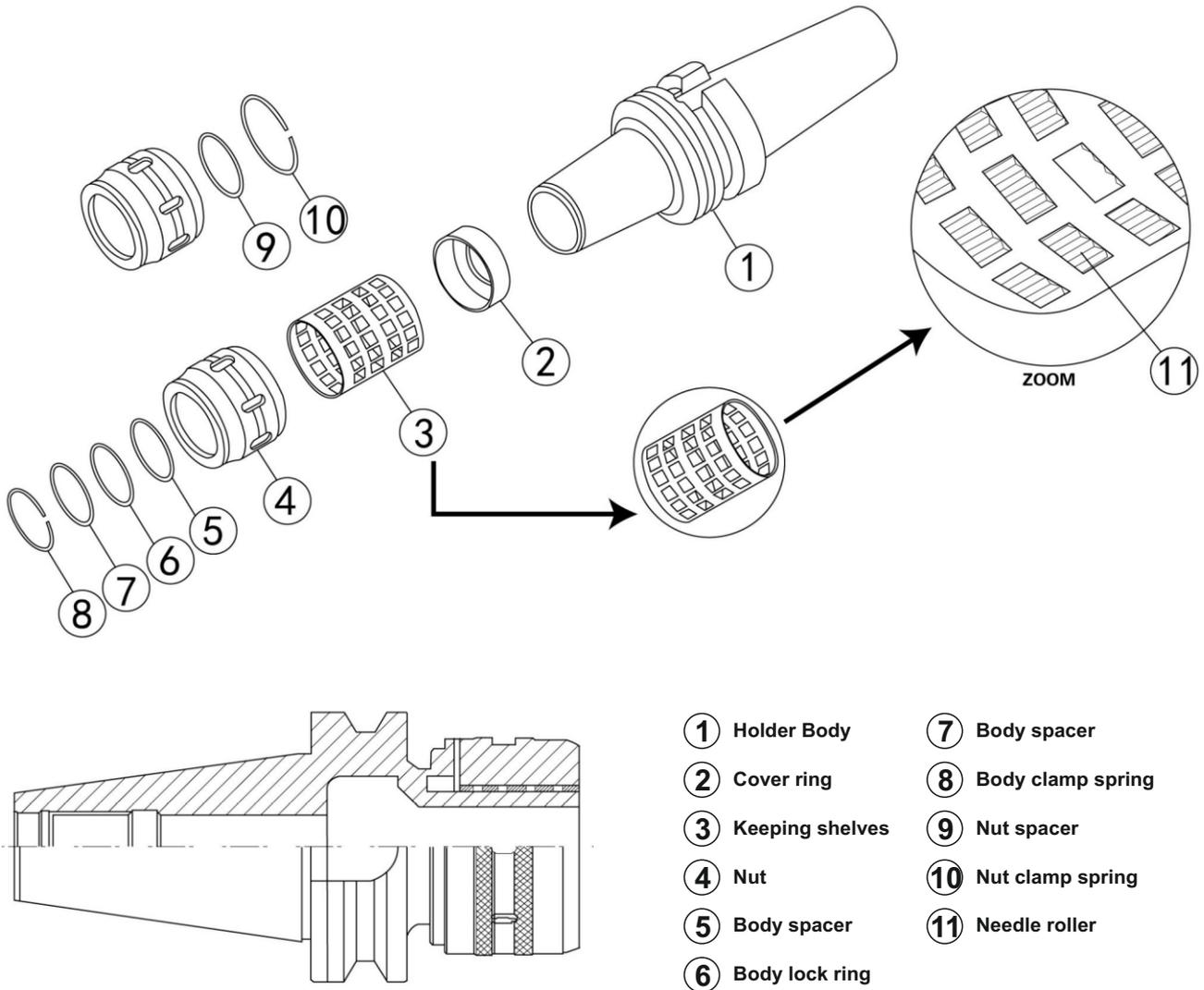


NC tools

BT-C FORCE MILLING CHUCK

Features:

- ⊙ This cover ring is connecting with the transfer screw cap by groove of hermetic circle
- ⊙ This new power chuck mill is belongs to the hermetic set for CNC cutting tools
- ⊙ The cover ring can prevent the water, dust and cutting scrap going to the spacing from chuck body and transfer cap. It can prolong the using time for the power milling chuck.

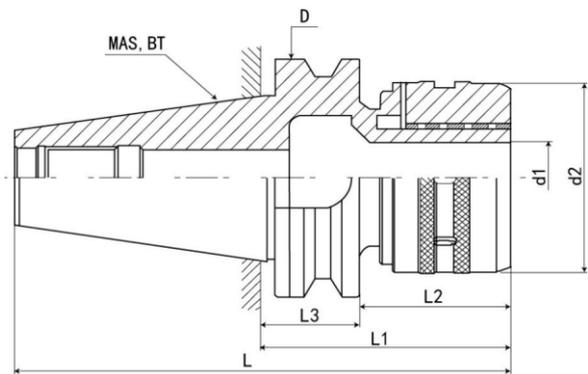


- | | |
|-------------------|---------------------|
| ① Holder Body | ⑦ Body spacer |
| ② Cover ring | ⑧ Body clamp spring |
| ③ Keeping shelves | ⑨ Nut spacer |
| ④ Nut | ⑩ Nut clamp spring |
| ⑤ Body spacer | ⑪ Needle roller |
| ⑥ Body lock ring | |

The shortcoming for the power milling chuck of standard type

The standard milling chuck has the spacing between chuck body and transfer screw cap. It easily makes water with dust and cutting scrap into the spacing, and it also will be move to take the dust and cutting scrap together running, it not only fret the surface of chuck body and transfer screw cap, but also break the needle roller bearing. The holding precision will be falling, at last it lose holding capacity.

BT-C FORCE MILLING CHUCK



P.O15

P.O12

P.O13

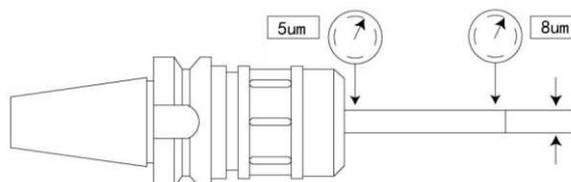
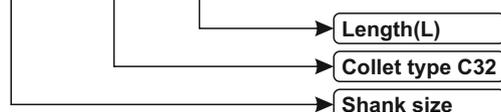
Model	L	L1	L2	L3	D	d1	d2	Range
BT30-C20-80L	128.4	80	58	22	46	20	56	3 4 5 6 8 10 12 14 16
BT30-C25-100L	148.4	100	78	22	46	25	61	3 4 5 6 8 10 12 14 16 18 20
BT30-C32-105L	153.4	105	83	22	46	32	68	3 4 5 6 8 10 12 14 16 18 20 22 24 25
Model	L	L1	L2	L3	D	d1	d2	Range
BT40-C20-100L	165.4	90	63	27	63	20	56	3 4 5 6 8 10 12 14 16
BT40-C25-100L	165.4	100	73	27	63	25	61	3 4 5 6 8 10 12 14 16 18 20
BT40-C25-135L	200.4	135	108	27	63	25	61	3 4 5 6 8 10 12 14 16 18 20
BT40-C32-105L	170.4	105	78	27	63	32	68	3 4 5 6 8 10 12 14 16 18 20 22 24 25
BT40-C32-135L	200.4	135	108	27	63	32	68	3 4 5 6 8 10 12 14 16 18 20 22 24 25
BT40-C32-165L	230.4	165	138	27	63	32	68	3 4 5 6 8 10 12 14 16 18 20 22 24 25
BT40-C32-200L	265.4	200	173	27	63	32	68	3 4 5 6 8 10 12 14 16 18 20 22 24 25
BT40-C32-250L	315.4	250	223	27	63	32	68	3 4 5 6 8 10 12 14 16 18 20 22 24 25
BT40-C42-130L	195.4	130	103	27	63	42	87	3 4 5 6 8 10 12 14 16 18 20 22 24 25 28 30 32 34 36
Model	L	L1	L2	L3	D	d1	d2	Range
BT50-C25-110L	211.8	110	72	38	100	25	61	3 4 5 6 8 10 12 14 16 18 20
BT50-C25-165L	236.8	165	127	38	100	25	61	3 4 5 6 8 10 12 14 16 18 20
BT50-C32-110L	211.8	110	72	38	100	32	68	3 4 5 6 8 10 12 14 16 18 20 22 24 25
BT50-C32-135L	236.8	135	97	38	100	32	68	3 4 5 6 8 10 12 14 16 18 20 22 24 25
BT50-C32-165L	266.8	165	127	38	100	32	68	3 4 5 6 8 10 12 14 16 18 20 22 24 25
BT50-C32-200L	301.8	200	162	38	100	32	68	3 4 5 6 8 10 12 14 16 18 20 22 24 25
BT50-C32-250L	351.8	250	212	38	100	32	68	3 4 5 6 8 10 12 14 16 18 20 22 24 25
BT50-C32-300L	401.8	300	262	38	100	32	68	3 4 5 6 8 10 12 14 16 18 20 22 24 25
BT50-C42-135L	236.8	135	97	38	100	42	87	3 4 5 6 8 10 12 14 16 18 20 22 24 25 28 30 32 34 36
BT50-C42-165L	266.8	165	127	38	100	42	87	3 4 5 6 8 10 12 14 16 18 20 22 24 25 28 30 32 34 36
BT50-C42-200L	301.8	200	162	38	100	42	87	3 4 5 6 8 10 12 14 16 18 20 22 24 25 28 30 32 34 36
BT60-C32-130L	291.8	130	92	48	155	32	68	3 4 5 6 8 10 12 14 16 18 20 22 24 25
BT60-C42-130L	291.8	130	92	48	155	42	87	3 4 5 6 8 10 12 14 16 18 20 22 24 25 28 30 32 34 36

Features:

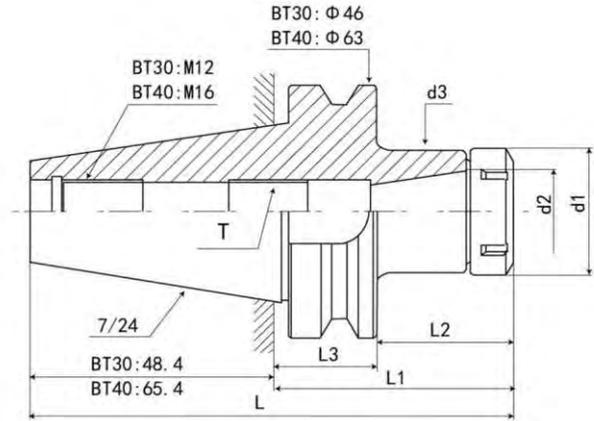
High speed, high accuracy, high durability C-STRAIGHT TOOL SERIES

- ◎ Material: 20CrMnTi/15CrMn;
- ◎ Hardness: HRC58-60, Carbon depth > 0.8 ◎ Tolerance class: ≤ AT3
- ◎ Inner hole of the shank divide into 6 troughs to prevent the insert remove, increase the grasp force
- ◎ Ball bearing cage is made of special material, improve the endurance, enhance the grasp force
- ◎ Grasp force strong, centering accuracy high, suit to heavy cutting
- ◎ Two kinds looks provide: polishing or chemical nickel-plating processing;
- ◎ Inner hole grinding for many times, so as to reach Ra0.4, has a mirror effect;
- ◎ End and the cylindrical are grinding for many times, can reach Ra0.4, has a mirror effect;
- ◎ Surface "environmental protection", special coating surface treatment, improve the hardness and endurance of the surface, cleanliness better, accuracy stable, surface more smooth, antirust, feel comfortable, appearance nice.
- ◎ The spanner, pull stud chuck must purchase alone.

BT40 - C32 - 105L



BT-ER COLLET CHUCK



P.O15

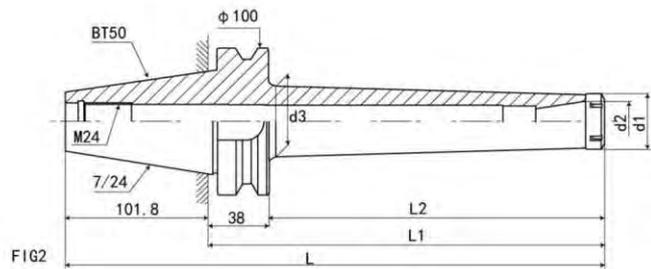
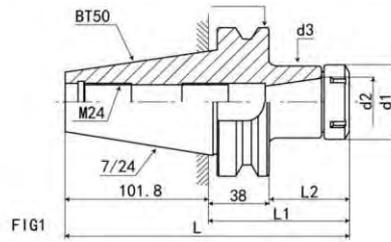
P.O03

P.O16

P.O13

Model	L	L1	L2	L3	d1	d2	d3	T	Range	KGS
BT30-ER11M-60L	108.4	60	38	22	16	11	16	M6*1.0P	1-7mm	0.53
BT30-ER11M-100L	148.4	100	38	22	16	11	16	M6*1.0P	1-7mm	0.53
BT30-ER16-60L	108.4	60	38	22	28	16	28	M10*1.5P	1-10mm	0.58
BT30-ER16-100L	148.4	100	78	22	28	16	28	M10*1.5P	1-10mm	0.7
BT30-ER20-60L	108.4	60	38	22	34	20	34	M12*1.75P	1-13mm	0.63
BT30-ER20-100L	148.4	100	78	22	34	20	34	M12*1.75P	1-13mm	0.8
BT30-ER20-150L	198.4	150	128	22	34	20	34	M12*1.75P	1-13mm	1.5
BT30-ER25-60L	108.4	60	38	22	42	25	42	M16*2.0P	1-16mm	0.61
BT30-ER25-100L	148.4	100	78	22	42	25	42	M16*2.0P	1-16mm	1
BT30-ER25-150L	198.4	150	128	22	42	25	42	M16*2.0P	1-16mm	1.5
BT30-ER32-60L	108.4	60	38	22	50	32	50	M16*2.0P	2-20mm	0.7
BT30-ER32-100L	148.4	100	78	22	50	32	50	M16*2.0P	2-20mm	1
BT30-ER32-150L	198.4	150	128	22	50	32	50	M16*2.0P	2-20mm	1.55
BT30-ER40-80L	128.4	80	58	22	63	40	63	M20*2.0P	2-26mm	1
BT40-ER11M-70L	135.4	70	43	27	16	11	16	M6*1.0P	1-7mm	1.15
BT40-ER11M-100L	165.4	100	73	27	16	11	16	M6*1.0P	1-7mm	1.2
BT40-ER11M-150L	215.4	150	123	27	16	11	16	M6*1.0P	1-7mm	1.5
BT40-ER16-70L	135.4	70	43	27	28	16	28	M10*1.5P	1-10mm	1.3
BT40-ER16-100L	165.4	100	73	27	28	16	28	M10*1.5P	1-10mm	1.3
BT40-ER16-150L	215.4	150	123	27	28	16	28	M10*1.5P	1-10mm	1.6
BT40-ER16-200L	265.4	200	173	27	28	16	28	M10*1.5P	1-10mm	1.7
BT40-ER16-250L	315.4	250	223	27	28	16	28	M10*1.5P	1-10mm	2
BT40-ER16-300L	365.4	300	273	27	28	16	28	M10*1.5P	1-10mm	2.3
BT40-ER20-70L	135.4	70	43	27	34	20	34	M12*1.75P	1-13mm	1.2
BT40-ER20-100L	165.4	100	73	27	34	20	34	M12*1.75P	1-13mm	1.4
BT40-ER20-150L	215.4	150	123	27	34	20	34	M12*1.75P	1-13mm	1.7
BT40-ER20-200L	265.4	200	173	27	34	20	34	M12*1.75P	1-13mm	2
BT40-ER20-250L	315.4	250	223	27	34	20	34	M12*1.75P	1-13mm	2.1
BT40-ER20-300L	365.4	300	273	27	34	20	34	M12*1.75P	1-13mm	2.4
BT40-ER25-70L	135.4	70	43	27	42	25	42	M16*2.0P	1-16mm	1.3
BT40-ER25-100L	165.4	100	73	27	42	25	42	M16*2.0P	1-16mm	1.6
BT40-ER25-150L	215.4	150	123	27	42	25	42	M16*2.0P	1-16mm	2.05
BT40-ER25-200L	265.4	250	173	27	42	25	42	M16*2.0P	1-16mm	2.5
BT40-ER25-250L	315.4	250	223	27	42	25	42	M16*2.0P	1-16mm	3.05
BT40-ER25-300L	365.4	300	273	27	42	25	42	M16*2.0P	1-16mm	3.55
BT40-ER32-70L	135.4	70	43	27	50	32	50	M16*2.0P	2-20mm	1.4
BT40-ER32-100L	165.4	100	73	27	50	32	50	M16*2.0P	2-20mm	1.7
BT40-ER32-150L	215.4	150	123	27	50	32	50	M16*2.0P	2-20mm	2.4
BT40-ER32-200L	265.4	200	173	27	50	32	50	M16*2.0P	2-20mm	3.15
BT40-ER32-250L	315.4	250	223	27	50	32	50	M16*2.0P	2-20mm	4
BT40-ER32-300L	365.4	300	273	27	50	32	50	M16*2.0P	2-20mm	4.4
BT40-ER40-80L	145.4	80	53	27	63	40	63	M20*2.0P	2-26mm	1.5
BT40-ER40-100L	165.4	100	73	27	63	40	63	M20*2.0P	2-26mm	2.1
BT40-ER40-150L	215.4	150	123	27	63	40	63	M20*2.0P	2-26mm	3.2
BT40-ER40-200L	265.4	200	173	27	63	40	63	M20*2.0P	2-26mm	3.3
BT40-ER40-250L	315.4	250	223	27	63	40	63	M20*2.0P	2-26mm	4.2
BT40-ER40-300L	365.4	300	273	27	63	40	63	M20*2.0P	2-26mm	4.5
BT40-ER50-100L	165.4	100	43	27	78	50	78	M24*2.0P	6-34mm	1.15

BT50-ER COLLET CHUCK



P.O15



P.O03



P.O16



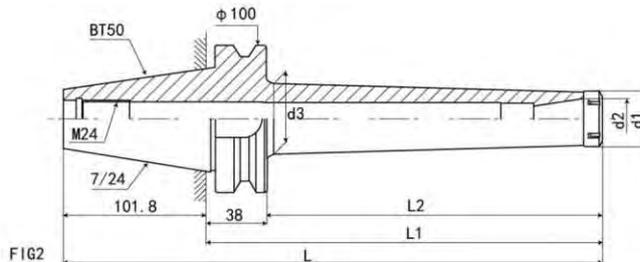
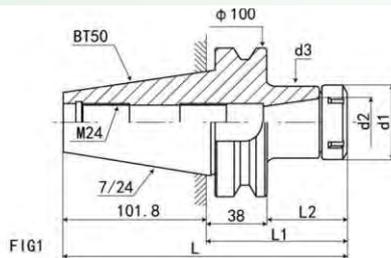
P.O13

Model	L	L1	L2	L3	d1	d2	d3	FIG	Range	KG
BT50-ER16-80L	171.8	80	42	38	28	16	28	1	1-10mm	
BT50-ER16-100L	201.8	100	62	38	28	16	28	1	1-10mm	3.9
BT50-ER16-150L	251.8	150	112	38	28	16	28	1	1-10mm	4.2
BT50-ER16-200L	301.8	200	162	38	28	16	28	1	1-10mm	4.3
BT50-ER16-250L	351.8	250	212	38	28	16	31	2	1-10mm	4.7
BT50-ER16-300L	401.8	300	262	38	28	16	33	2	1-10mm	5.5
BT50-ER16-350L	451.8	350	312	38	28	16	35	2	1-10mm	6.3
BT50-ER20-80L	181.8	80	42	38	34	20	34	1	1-13mm	3.8
BT50-ER20-100L	201.8	100	62	38	34	20	34	1	1-13mm	4
BT50-ER20-150L	251.8	150	112	38	34	20	34	1	1-13mm	4.3
BT50-ER20-200L	301.8	200	162	38	34	20	34	1	1-13mm	4.6
BT50-ER20-250L	351.8	250	212	38	34	20	37	2	1-13mm	5
BT50-ER20-300L	401.8	300	262	38	34	20	39	2	1-13mm	5.45
BT50-ER20-350L	451.8	350	312	38	34	20	41	2	1-13mm	5.1
BT50-ER20-400L	501.8	400	362	38	34	20	43	2	1-13mm	6.4
BT50-ER25-80L	181.8	80	42	38	42	25	42	1	1-16mm	4
BT50-ER25-100L	201.8	100	62	38	42	25	42	1	1-16mm	4.1
BT50-ER25-150L	251.8	150	112	38	42	25	42	1	1-16mm	4.6
BT50-ER25-200L	301.8	200	162	38	42	25	42	1	1-16mm	5.1
BT50-ER25-250L	351.8	250	212	38	42	25	45	2	1-16mm	5.8
BT50-ER25-300L	401.8	300	262	38	42	25	47	2	1-16mm	6.2
BT50-ER25-350L	451.8	350	312	38	42	25	49	2	1-16mm	7
BT50-ER25-400L	501.8	400	362	38	42	25	51	2	1-16mm	7.8



NC tools

BT50-ER COLLET CHUCK



P.O15

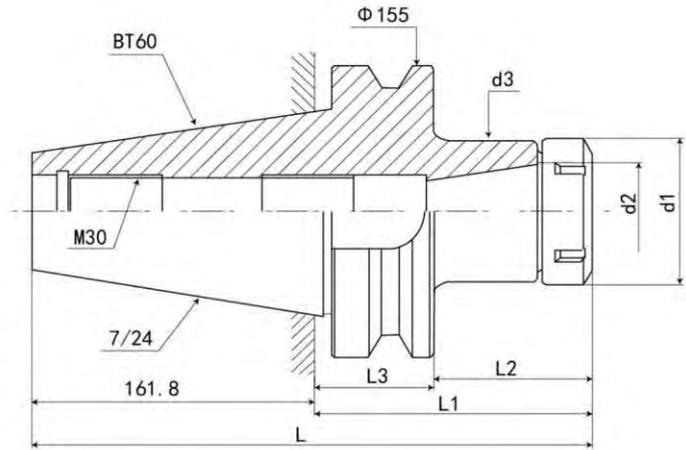
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P.O16

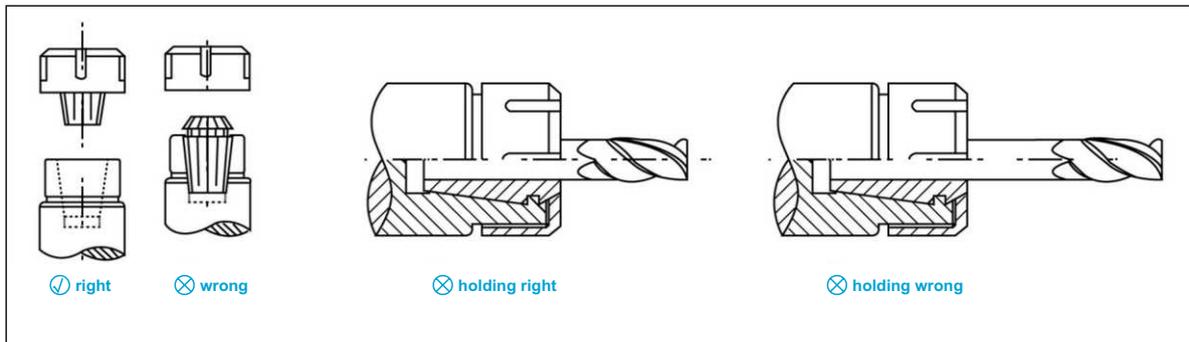
P.O13

Model	L	L1	L2	L3	d1	d2	d3	FIG	Range	KGS
BT50-ER32-80L	181.8	80	42	38	50	32	50	1	2-20mm	3.9
BT50-ER32-100L	201.8	100	62	38	50	32	50	1	2-20mm	4.2
BT50-ER32-150L	251.8	150	112	38	50	32	50	1	2-20mm	4.9
BT50-ER32-200L	301.8	200	162	38	50	32	50	1	2-20mm	5.7
BT50-ER32-250L	351.8	250	212	38	50	32	50	1	2-20mm	6.5
BT50-ER32-300L	401.8	300	262	38	50	32	53	2	2-20mm	7.2
BT50-ER32-350L	451.8	350	312	38	50	32	54	2	2-20mm	8
BT50-ER32-400L	501.8	400	362	38	50	32	56	2	2-20mm	8.9
BT50-ER32-450L	551.8	450	412	38	50	32	58	2	2-20mm	11.5
BT50-ER32-500L	601.8	500	462	38	50	32	60	2	2-20mm	12.5
BT50-ER32-550L	651.8	550	512	38	50	32	65	2	2-20mm	15
BT50-ER32-600L	701.8	600	562	38	50	32	68	2	2-20mm	16
BT50-ER40-80L	186.8	80	42	38	63	40	63	1	2-26mm	4.7
BT50-ER40-100L	201.8	100	62	38	63	40	63	1	2-26mm	5.2
BT50-ER40-150L	251.8	150	112	38	63	40	63	1	2-26mm	6.5
BT50-ER40-200L	301.8	200	162	38	63	40	63	1	2-26mm	7.5
BT50-ER40-250L	351.8	250	212	38	63	40	63	1	2-26mm	8.6
BT50-ER40-300L	401.8	300	262	38	63	40	66	2	2-26mm	9.8
BT50-ER40-350L	451.8	350	312	38	63	40	67	2	2-26mm	11.5
BT50-ER40-400L	501.8	400	362	38	63	40	70	2	2-26mm	13.5
BT50-ER40-450L	551.8	450	412	38	63	40	72	2	2-26mm	14
BT50-ER40-500L	601.8	500	462	38	63	40	73	2	2-26mm	16.5
BT50-ER40-550L	651.8	550	512	38	63	40	75	2	2-26mm	18.5
BT50-ER40-600L	701.8	600	562	38	63	40	78	2	2-26mm	21
BT50-ER50-100L	201.8	100	62	38	78	50	78	1	6-34mm	3.9
BT50-ER50-150L	251.8	150	112	38	78	50	78	1	6-34mm	6.2
BT50-ER50-200L	301.8	200	162	38	78	50	78	1	6-34mm	7.8

BT60-ER COLLET CHUCK

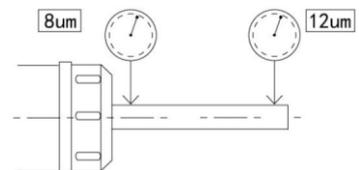
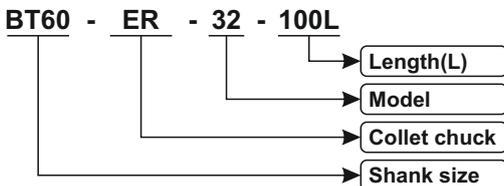


Model	L	L1	L2	L3	d1	d2	d3	FIG	Range
BT60-ER32-100L	261.8	100	52	48	50	32	50	1	2-20mm
BT60-ER32-150L	311.8	150	102	48	50	32	50	1	2-20mm
BT60-ER40-100L	261.8	100	52	48	63	40	63	1	2-26mm
BT60-ER40-150L	311.8	150	102	48	63	40	63	1	2-26mm
BT60-ER50-100L	261.8	100	52	48	78	50	78	1	6-34mm
BT60-ER50-150L	311.8	150	102	48	78	50	78	1	6-34mm

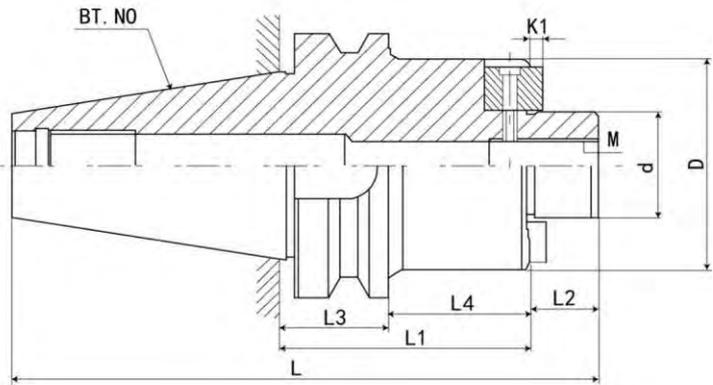


Features:

- © Spindle conicity standard: JIS MAS 403 BT
- © ER collet chuck set with ER collet with flexibility used for gripping cutting tool, drill bit, draw bolt and so on.
- © When using, nut should be clamped tensed firstly with cutting tools then locked into the main body.
- © Always use the recommended wrench or spanner, unless, there might cause damage of cutting tools.
- © The spanner. pull stud chuck must purchase alone.



BT30-FMB FACE MILL ARBOR



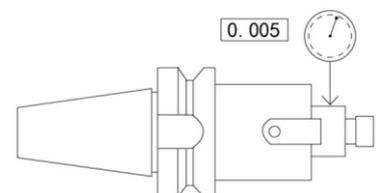
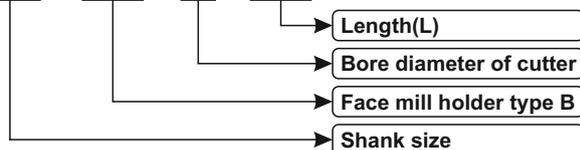
P.O13

Model	L1	L	L2	L3	L4	d	D	K1	K2	M	KGS
BT30-FMB16-60L	60	125.4	17	27	33	16	38	3.2	8	M8*1.25P	0.5
BT30-FMB22-45L	45	111.4	18	27	18	22	48	4.8	10	M10*1.5P	0.75
BT30-FMB22-60L	60	126.4	18	27	33	22	48	4.8	10	M10*1.5P	1.5
BT30-FMB27-45L	45	113.4	20	27	18	27	58	5.8	12	M12*1.75P	1.45
BT30-FMB27-60L	60	128.4	20	27	33	27	58	5.8	12	M12*1.75P	1.45
BT30-FMB32-45L	45	115.4	22	27	18	32	63	6.8	14	M16*2.0P	1.5
BT30-FMB32-60L	60	130.4	22	27	33	32	63	6.8	14	M16*2.0P	1.6
BT30-FMB40-60L	60	133.4	25	27	33	40	63	6.8	14	M16*2.0P	1.8

Features:

- ◎ Spindle conicity standard: JIS MAS 403 BT
- ◎ With water through design that reduces vibration and steady for cutting.
- ◎ Connecting part(d) designed for metric size.
- ◎ Tool holders with BT shank for face mill chuck, Face mill holders equipped with screws and drive keys to assemble the mill cutter to holder.
- ◎ Can be made upon requested dimensions.
- ◎ The pull stud must purchase alone.

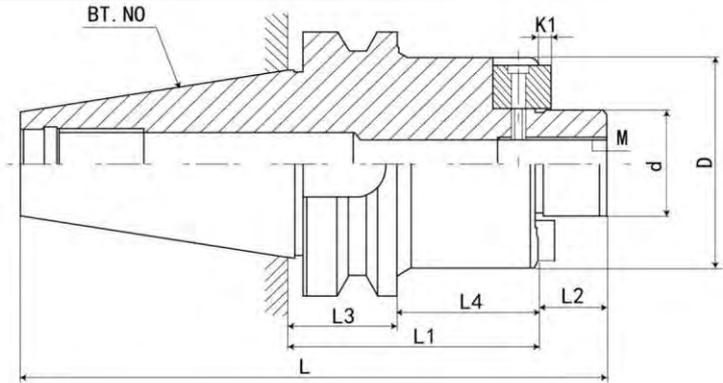
BT30 - FMB - 22 - 60L



BT40-FMB FACE MILL ARBOR



P.O13



Model	L1	L	L2	L3	L4	d	D	K1	K2	M	KGS
BT40-FMB16-60L	60	142.4	17	27	33	16	38	3.2	8	M8*1.25P	1.3
BT40-FMB16-100L	100	182.4	17	27	73	16	38	3.2	8	M8*1.25P	1.4
BT40-FMB22-60L	60	143.4	18	27	33	22	48	4.8	10	M10*1.5P	1.5
BT40-FMB22-100L	100	183.4	18	27	73	22	48	4.8	10	M10*1.5P	2.05
BT40-FMB22-150L	150	233.4	18	27	123	22	48	4.8	10	M10*1.5P	2.75
BT40-FMB22-200L	200	283.4	18	27	173	22	48	4.8	10	M10*1.5P	3.6
BT40-FMB22-250L	250	333.4	18	27	223	22	48	4.8	10	M10*1.5P	4.25
BT40-FMB22-300L	300	383.4	18	27	273	22	48	4.8	10	M10*1.5P	4.9
BT40-FMB22-350L	350	433.4	18	27	323	22	48	4.8	10	M10*1.5P	5.65
BT40-FMB22-400L	400	483.4	18	27	373	22	48	4.8	10	M10*1.5P	6.4
BT40-FMB27-60L	60	145.4	20	27	33	27	58	5.8	12	M12*1.75P	2.35
BT40-FMB27-100L	100	185.4	20	27	73	27	58	5.8	12	M12*1.75P	3.1
BT40-FMB27-150L	150	235.4	20	27	123	27	58	5.8	12	M12*1.75P	3.9
BT40-FMB27-200L	200	285.4	20	27	173	27	58	5.8	12	M12*1.75P	4.8
BT40-FMB32-60L	60	147.4	22	27	33	32	63	6.8	14	M16*2.0P	1.9
BT40-FMB32-100L	100	187.4	22	27	73	32	63	6.8	14	M16*2.0P	2.8
BT40-FMB32-150L	150	237.4	22	27	123	32	63	6.8	14	M16*2.0P	3.6
BT40-FMB32-200L	200	287.4	22	27	173	32	63	6.8	14	M16*2.0P	4.2
BT40-FMB40-60L	60	150.4	25	27	33	40	73	8.3	16	M16*2.0P	2.8
BT40-FMB40-100L	100	190.4	25	27	73	40	73	8.3	16	M16*2.0P	3.6
BT40-FMB40-150L	150	240.4	25	27	123	40	73	8.3	16	M16*2.0P	4.9
BT40-FMB40-200L	200	290.4	25	27	173	40	73	8.3	16	M16*2.0P	6.2

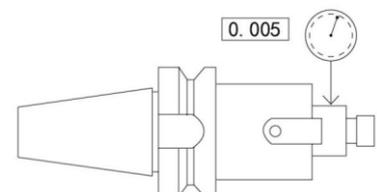
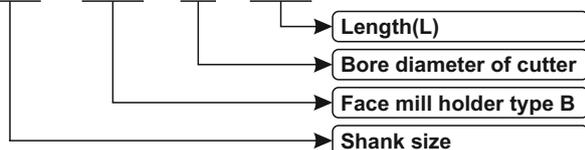


NC tools

Features:

- © Spindle conicity standard: JIS MAS 403 BT
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- © Connecting part(d) designed for metric size.
- © Tool holders with BT shank for face mill chuck, Face mill holders equipped with screws and drive keys to assemble the mill cutter to holder.
- © Can be made upon requested dimensions.
- © The pull stud must purchase alone.

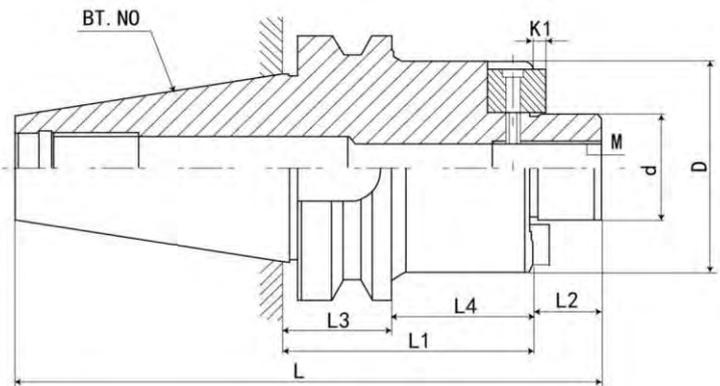
BT40 - FMB - 22 - 60L



BT50-FMB FACE MILL ARBOR



P.O13

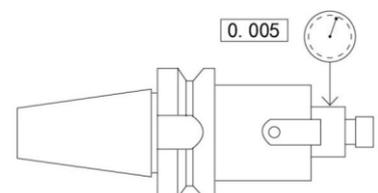
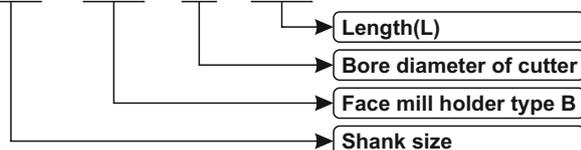


Model	L1	L	L2	L3	L4	d	D	K1	K2	M	KGS
BT50-FMB16-60L	60	178.8	17	38	22	16	38	3.2	8	M8*1.25P	4
BT50-FMB16-100L	100	218.8	17	38	62	16	38	3.2	8	M8*1.25P	4.2
BT50-FMB16-150L	150	268.8	17	38	112	16	38	3.2	8	M8*1.25P	4.5
BT50-FMB16-200L	200	318.8	17	38	162	16	38	3.2	8	M8*1.25P	4.8
BT50-FMB22-60L-D48	60	179.8	18	38	22	22	48	4.8	10	M10*1.5P	4.6
BT50-FMB22-100L-D48	100	219.8	18	38	62	22	48	4.8	10	M10*1.5P	4.55
BT50-FMB22-150L-D48	150	269.8	18	38	112	22	48	4.8	10	M10*1.5P	5.25
BT50-FMB22-200L-D48	200	319.8	18	38	162	22	48	4.8	10	M10*1.5P	6
BT50-FMB22-250L-D48	250	369.8	18	38	212	22	48	4.8	10	M10*1.5P	7
BT50-FMB22-300L-D48	300	419.8	18	38	262	22	48	4.8	10	M10*1.5P	7.7
BT50-FMB22-350L-D48	350	469.8	18	38	312	22	48	4.8	10	M10*1.5P	8.4
BT50-FMB22-400L-D48	400	519.8	18	38	362	22	48	4.8	10	M10*1.5P	9.2
BT50-FMB22-450L-D48	450	569.8	18	38	412	22	48	4.8	10	M10*1.5P	10
BT50-FMB22-500L-D48	500	619.8	18	38	462	22	48	4.8	10	M10*1.5P	11.2
BT50-FMB22-45L-D60	45	164.8	18	38	7	22	60	4.8	10	M10*1.5P	4
BT50-FMB22-60L-D60	60	179.8	18	38	22	22	60	4.8	10	M10*1.5P	4.8
BT50-FMB22-100L-D60	100	219.8	18	38	62	22	60	4.8	10	M10*1.5P	5.9
BT50-FMB22-150L-D60	150	269.8	18	38	112	22	60	4.8	10	M10*1.5P	5.9
BT50-FMB22-200L-D60	200	319.8	18	38	162	22	60	4.8	10	M10*1.5P	7.05
BT50-FMB22-250L-D60	250	369.8	18	38	212	22	60	4.8	10	M10*1.5P	8.4
BT50-FMB22-300L-D60	300	419.8	18	38	262	22	60	4.8	10	M10*1.5P	9.45
BT50-FMB22-350L-D62	350	469.8	18	38	312	22	62-58	4.8	10	M10*1.5P	10.5
BT50-FMB22-400L-D62	400	519.8	18	38	362	22	62-58	4.8	10	M10*1.5P	12
BT50-FMB22-450L-D62	450	569.8	18	38	412	22	62-58	4.8	10	M10*1.5P	13.25
BT50-FMB22-500L-D62	500	619.8	18	38	462	22	62-58	4.8	10	M10*1.5P	15.6
BT50-FMB22-550L-D62	550	669.8	18	38	512	22	62-58	4.8	10	M10*1.5P	16.95
BT50-FMB22-600L-D62	600	719.8	18	38	562	22	62-58	4.8	10	M10*1.5P	18
BT50-FMB22-650L-D62	650	769.8	18	38	612	22	62-58	4.8	10	M10*1.5P	22
BT50-FMB22-700L-D62	700	819.8	18	38	662	22	62-58	4.8	10	M10*1.5P	25

Features:

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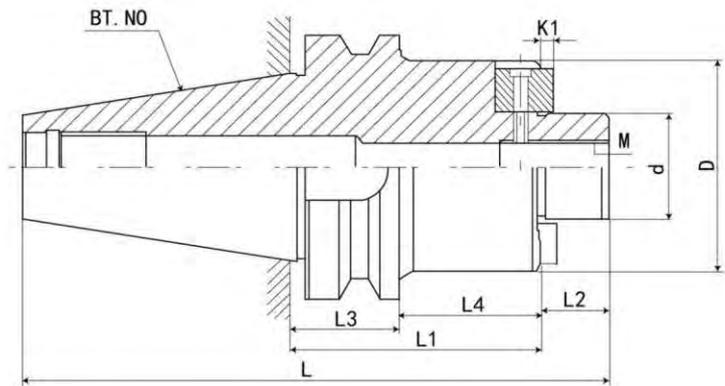
BT30 - FMB - 22 - 60L



BT50-FMB FACE MILL ARBOR



P.O13



Model	L1	L	L2	L3	L4	d	D	K1	K2	M	KGS
BT50-FMB27-45L	45	166.8	20	38	7	27	60	5.8	12	M12*1.75P	4
BT50-FMB27-60L	60	181.8	20	38	22	27	60	5.8	12	M12*1.75P	4.5
BT50-FMB27-100L	100	221.8	20	38	62	27	60	5.8	12	M12*1.75P	4.8
BT50-FMB27-150L	150	271.8	20	38	112	27	60	5.8	12	M12*1.75P	6.05
BT50-FMB27-200L	200	321.8	20	38	162	27	60	5.8	12	M12*1.75P	6.9
BT50-FMB27-250L	250	371.8	20	38	212	27	60	5.8	12	M12*1.75P	8.4
BT50-FMB27-300L	300	421.8	20	38	262	27	60	5.8	12	M12*1.75P	9.5
BT50-FMB27-350L	350	471.8	20	38	312	27	62	5.8	12	M12*1.75P	10.5
BT50-FMB27-400L	400	521.8	20	38	362	27	62	5.8	12	M12*1.75P	12
BT50-FMB27-450L	450	571.8	20	38	412	27	62	5.8	12	M12*1.75P	13.5
BT50-FMB27-500L	500	621.8	20	38	462	27	62	5.8	12	M12*1.75P	15
BT50-FMB27-550L	550	671.8	20	38	512	27	62	5.8	12	M12*1.75P	16.5
BT50-FMB27-600L	600	721.8	20	38	562	27	62	5.8	12	M12*1.75P	18
BT50-FMB32-60L	60	183.8	22	38	22	32	70	6.8	14	M16*2.0P	4.65
BT50-FMB32-100L	100	223.8	22	38	62	32	70	6.8	14	M16*2.0P	5.6
BT50-FMB32-150L	150	273.8	22	38	112	32	70	6.8	14	M16*2.0P	7.85
BT50-FMB32-200L	200	323.8	22	38	162	32	70	6.8	14	M16*2.0P	9.75
BT50-FMB32-250L	250	373.8	22	38	212	32	70	6.8	14	M16*2.0P	12
BT50-FMB32-300L	300	423.8	22	38	262	32	70	6.8	14	M16*2.0P	15
BT50-FMB32-350L	350	473.8	22	38	312	32	70	6.8	14	M16*2.0P	16.5
BT50-FMB32-400L	400	523.8	22	38	362	32	70	6.8	14	M16*2.0P	18
BT50-FMB32-450L	450	573.8	22	38	412	32	70	6.8	14	M16*2.0P	18.5
BT50-FMB32-500L	500	623.8	22	38	462	32	70	6.8	14	M16*2.0P	20
BT50-FMB40-60L	60	186.8	25	38	22	40	80	8.3	16	M16*2.0P	5.5
BT50-FMB40-100L	100	226.8	25	38	62	40	80	8.3	16	M16*2.0P	6.7
BT50-FMB40-150L	150	276.8	25	38	112	40	80	8.3	16	M16*2.0P	7.5
BT50-FMB40-200L	200	326.8	25	38	162	40	80	8.3	16	M16*2.0P	10.75
BT50-FMB40-250L	250	376.8	25	38	212	40	80	8.3	16	M16*2.0P	12.75
BT50-FMB40-300L	300	426.8	25	38	262	40	80	8.3	16	M16*2.0P	14.75
BT50-FMB40-350L	350	476.8	25	38	312	40	80	8.3	16	M16*2.0P	16.75
BT50-FMB40-400L	400	526.8	25	38	362	40	80	8.3	16	M16*2.0P	18.75
BT50-FMB40-450L	450	576.8	25	38	412	40	80	8.3	16	M16*2.0P	20.8
BT50-FMB40-500L	500	626.8	25	38	462	40	80	8.3	16	M16*2.0P	22.8



NC tools

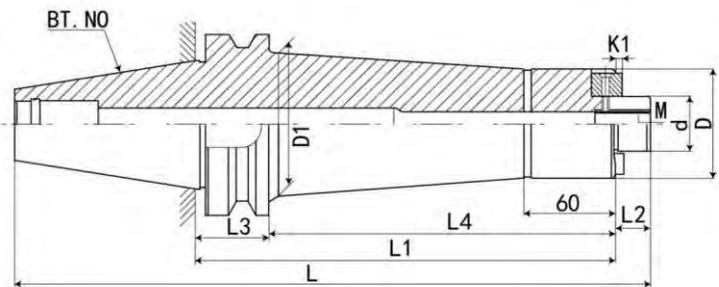
Features:

- © Spindle conicity standard: JIS MAS 403 BT
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BT-FMB FACE MILL ARBOR (EXTENSION TYPE)



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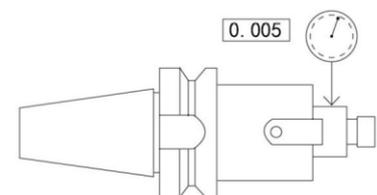
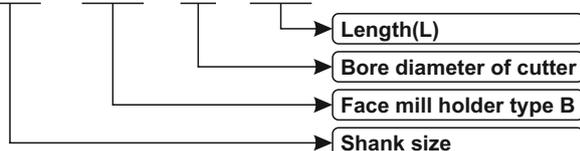


Model	L1	L	L2	L3	L4	d	D	D1	K1	K	M	KGS
BT40-FMB22-200BG	200	283.4	18	27	173	22	48	60	4.8	10	M10*1.5P	
BT40-FMB22-250BG	250	333.4	18	27	223	22	48	60	4.8	10	M10*1.5P	
BT40-FMB22-300BG	300	383.4	18	27	273	22	48	60	4.8	10	M10*1.5P	
BT40-FMB22-350BG	350	433.4	18	27	323	22	48	60	4.8	10	M10*1.5P	
BT40-FMB22-400BG	400	483.4	18	27	373	22	48	60	4.8	10	M10*1.5P	
BT40-FMB22-450BG	450	533.4	18	27	423	22	48	60	4.8	10	M10*1.5P	
BT40-FMB22-500BG	500	583.4	18	27	473	22	48	60	4.8	10	M10*1.5P	
BT50-FMB22-200BG	200	319.8	18	38	162	22	58	80	4.8	10	M10*1.5P	8.5
BT50-FMB22-250BG	250	369.8	18	38	212	22	58	80	4.8	10	M10*1.5P	10
BT50-FMB22-300BG	300	419.8	18	38	262	22	58	80	4.8	10	M10*1.5P	11
BT50-FMB22-350BG	350	469.8	18	38	312	22	58	80	4.8	10	M10*1.5P	
BT50-FMB22-400BG	400	519.8	18	38	362	22	58	80	4.8	10	M10*1.5P	14.5
BT50-FMB22-450BG	450	569.8	18	38	412	22	58	80	4.8	10	M10*1.5P	17
BT50-FMB22-500BG	500	619.8	18	38	462	22	58	80	4.8	10	M10*1.5P	17.4
BT50-FMB22-550BG	550	669.8	18	38	512	22	58	80	4.8	10	M10*1.5P	19
BT50-FMB22-600BG	600	719.8	18	38	562	22	58	80	4.8	10	M10*1.5P	20.5
BT50-FMB22-650BG	650	769.8	18	38	612	22	58	80	4.8	10	M10*1.5P	
BT50-FMB22-700BG	700	819.8	18	38	662	22	58	80	4.8	10	M10*1.5P	
BT50-FMB27-200BG	200	321.8	20	38	162	27	60	80	5.8	12	M12*1.75P	
BT50-FMB27-250BG	250	371.8	20	38	212	27	60	80	5.8	12	M12*1.75P	
BT50-FMB27-300BG	300	421.8	20	38	262	27	60	80	5.8	12	M12*1.75P	
BT50-FMB27-350BG	350	471.8	20	38	312	27	60	80	5.8	12	M12*1.75P	
BT50-FMB27-400BG	400	521.8	20	38	362	27	60	80	5.8	12	M12*1.75P	
BT50-FMB27-450BG	450	571.8	20	38	412	27	60	80	5.8	12	M12*1.75P	
BT50-FMB27-500BG	500	621.8	20	38	462	27	60	80	5.8	12	M12*1.75P	

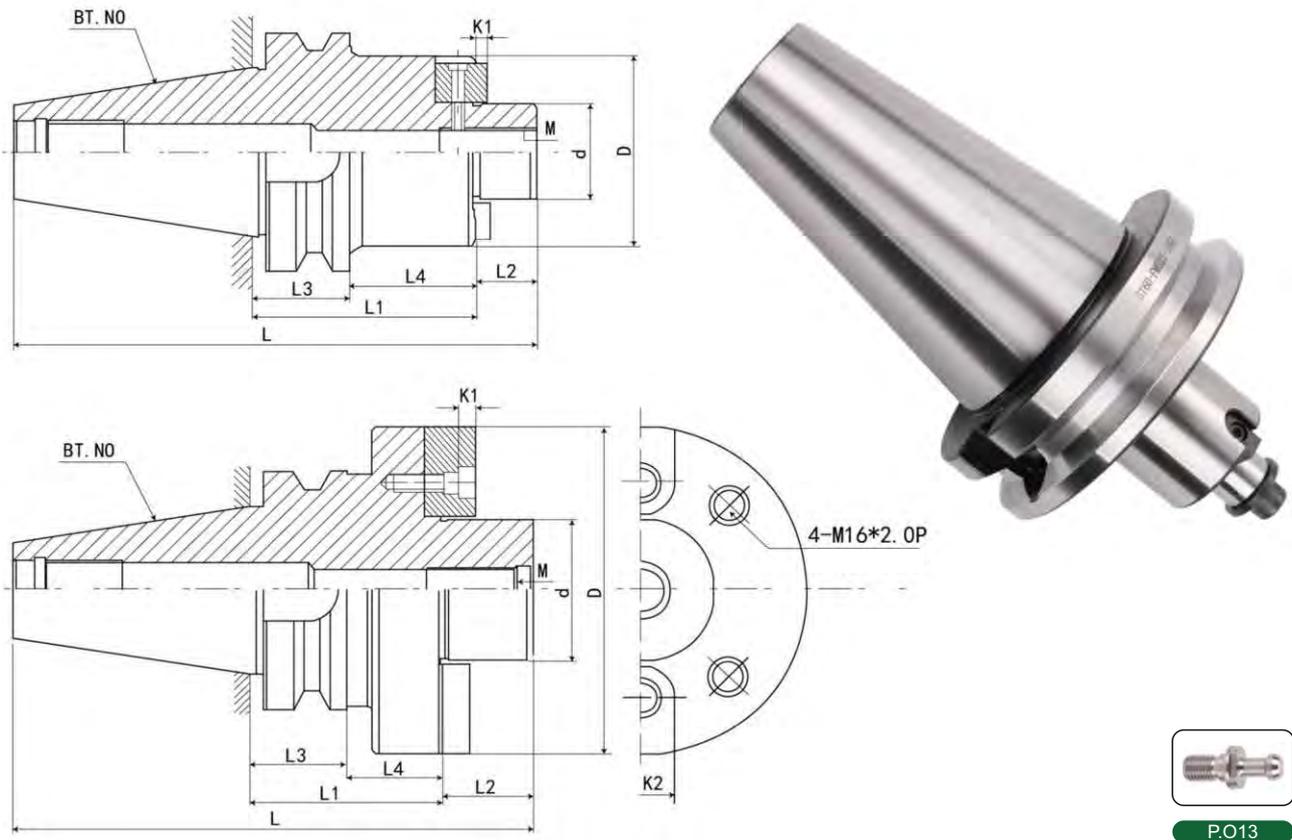
Features:

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- ◎ With water through design that reduces vibration and steady for cutting.
- ◎ Connecting part(d) designed for metric size.
- ◎ Tool holders with BT shank for face mill chuck, Face mill holders equipped with screws and drive keys to assemble the mill cutter to holder.
- ◎ Can be made upon requested dimensions.
- ◎ The pull stud must purchase alone.

BT30 - FMB - 22 - 60L



BT60-FMB FACE MILL ARBOR

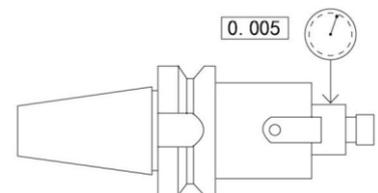
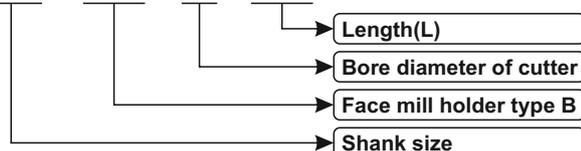


Model	L1	L	L2	L3	L4	d	D	K1	K2	M
BT60-FMB22-100L	100	279.8	18	48	52	22	48-58	4.8	10	M10*1.5P
BT60-FMB22-150L	150	329.8	18	48	92	22	48-58	4.8	10	M10*1.5P
BT60-FMB27-100L	100	281.8	20	48	52	27	58	5.8	12	M12*1.75P
BT60-FMB32-100L	100	283.8	22	48	52	32	65	6.8	14	M16*2.0P
BT60-FMB40-100L	100	286.8	25	48	52	40	80	8.3	16	M16*2.0P
BT60-FMB60-75L	75	261.8	25	48	27	60	128	12.5	25.4	M16*2.0P

Features:

- ◎ Spindle conicity standard: JIS MAS 403 BT
- ◎ With water through design that reduces vibration and steady for cutting.
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- ◎ Tool holders with BT shank for face mill chuck, Face mill holders equipped with screws and drive keys to assemble the mill cutter to holder.
- ◎ Can be made upon requested dimensions.
- ◎ The pull stud must purchase alone.

BT30 - FMB - 22 - 60L

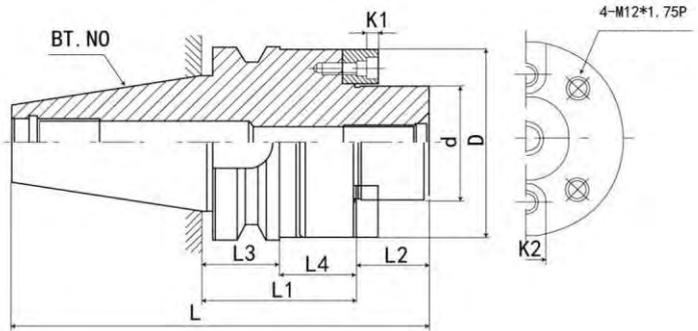


NC tools

BT-FMB FACE MILL ARBOR



P.O13

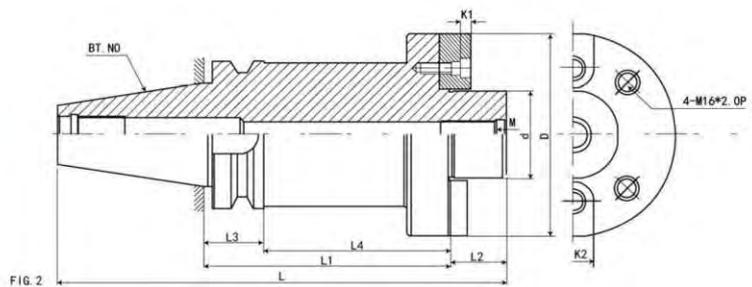
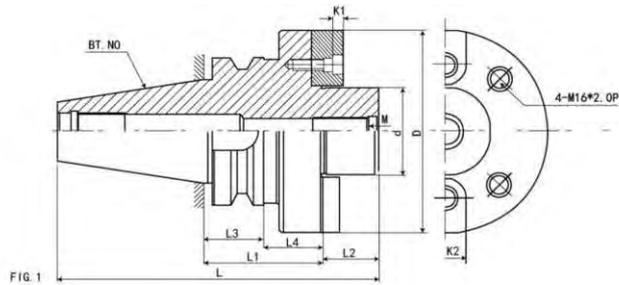


Model	L1	L	L2	L3	L4	d	D	K1	K2	PCD	KGS
BT40-FMB40F-60L	60	150.4	25	27	33	40	99	8.3	16	66.7	2.8
BT40-FMB40F-100L	100	190.4	25	27	73	40	99	8.3	16	66.7	3.6
BT50-FMB40F-60L	60	186.8	25	38	22	40	99	8.3	16	66.7	5.5
BT50-FMB40F-100L	100	226.8	25	38	62	40	99	8.3	16	66.7	6.7
BT50-FMB40F-150L	150	276.8	25	38	112	40	99	8.3	16	66.7	7.5
BT50-FMB40F-200L	200	326.8	25	38	162	40	99	8.3	16	66.7	10.75
BT50-FMB40F-250L	250	376.8	25	38	212	40	99	8.3	16	66.7	14
BT50-FMB40F-300L	300	426.8	25	38	262	40	99	8.3	16	66.7	17.25
BT60-FMB40F-75L	75	261.8	25	38	37	40	110	8.3	16	66.7	14.75
BT60-FMB40F-100L	100	301.8	25	38	62	40	110	8.3	16	66.7	16.75

BT-FMB FACE MILL ARBOR



P.O13

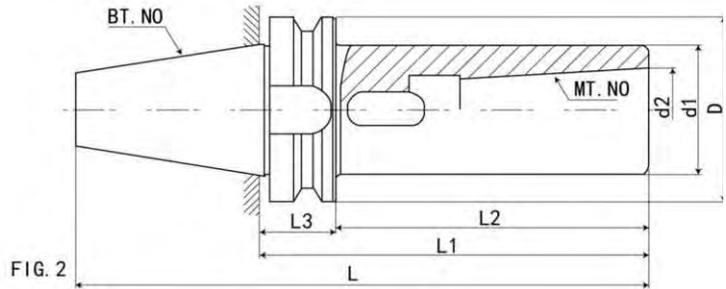
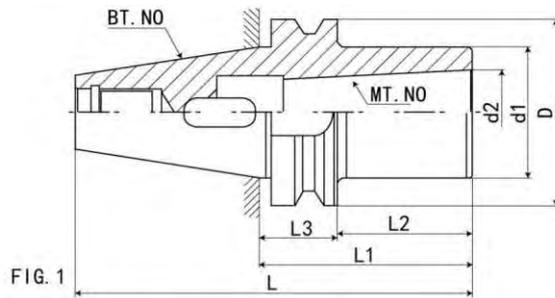


Model	L1	L	L2	L3	L4	d	D	K1	K2	PCD	KGS
BT40-FMB60-75L	75	165.4	25	27	48	60	128.5	12.5	25.4	101.6	5
BT50-FMB60-75L	75	201.8	25	38	37	60	128.5	12.5	25.4	101.6	8.5
BT50-FMB60-100L	100	226.8	25	38	62	60	128.5	12.5	25.4	101.6	10
BT50-FMB60-150L	150	276.8	25	38	112	60	128.5	12.5	25.4	101.6	13.5
BT50-FMB60-200L	200	326.8	25	38	162	60	128.5	12.5	25.4	101.6	16
BT50-FMB60-250L	250	376.8	25	38	212	60	128.5	12.5	25.4	101.6	19
BT50-FMB60-300L	300	426.8	25	38	262	60	128.5	12.5	25.4	101.6	24
BT50-FMB60-350L	350	476.8	25	38	312	60	128.5	12.5	25.4	101.6	28
BT50-FMB60-400L	400	526.8	25	38	362	60	128.5	12.5	25.4	101.6	32
BT50-FMB60-450L	450	576.8	25	38	412	60	128.5	12.5	25.4	101.6	36
BT50-FMB60-500L	500	626.8	25	38	462	60	128.5	12.5	25.4	101.6	40

BT-MTA TAPER ADAPTER(MORSE)



P.O13

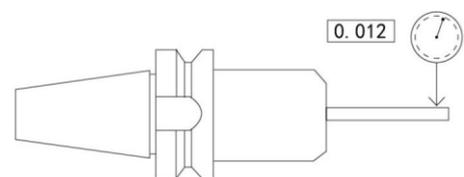
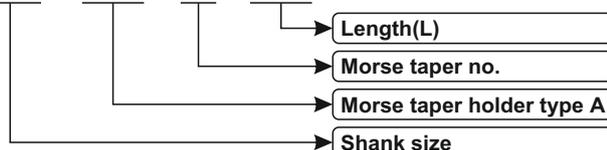


Model	FIG	L	L1	L2	L3	D	d1	d2	Range	KGS
BT30-MTA1-45L	1	93.4	45	23	22	46	25	12.065	Φ2-Φ14	0.55
BT30-MTA1-120L	2	168.4	120	98	22	46	25	12.065	Φ2-Φ14	0.85
BT30-MTA2-60L	1	108.4	60	38	22	46	32	17.18	Φ14-Φ23	0.6
BT30-MTA2-120L	2	168.4	120	98	22	46	32	17.18	Φ14-Φ23	0.9
BT30-MTA3-90L	1	138.4	90	68	22	46	40	23.825	Φ23-Φ32	0.8
BT30-MTA3-135L	2	183.4	135	113	22	46	40	23.825	Φ23-Φ32	1
Model	FIG	L	L1	L2	L3	D	d1	d2	Range	KGS
BT40-MTA1-45L	1	110.4	45	18	27	63	25	12.065	Φ2-Φ14	1.05
BT40-MTA1-120L	2	185.4	120	93	27	63	25	12.065	Φ2-Φ14	1.4
BT40-MTA1-180L	2	245.4	180	153	27	63	25	12.065	Φ2-Φ14	1.5
BT40-MTA2-45L	1	110.4	45	18	27	63	32	17.18	Φ14-Φ23	1.1
BT40-MTA2-120L	2	185.4	120	93	27	63	32	17.18	Φ14-Φ23	1.85
BT40-MTA2-180L	2	245.4	180	153	27	63	32	17.18	Φ14-Φ23	2
BT40-MTA3-75L	1	140.4	75	48	27	63	40	23.825	Φ23-Φ32	1.2
BT40-MTA3-135L	2	200.4	135	108	27	63	40	23.825	Φ23-Φ32	1.9
BT40-MTA3-180L	2	245.4	180	153	27	63	40	23.825	Φ23-Φ32	2.25
BT40-MTA4-90L	1	155.4	90	63	27	63	48	31.267	Φ32-Φ50	1.4
BT40-MTA4-165L	2	230.4	165	138	27	63	48	31.267	Φ32-Φ50	2.5

Features:

- ◎ Spindle conicity standard: JIS MAS 403 BT
- ◎ Used in Morse conicity tools, drill chuck, reamer and so on.
- ◎ Dimensions
- ◎ The pull stud must purchase alone.

BT40 - MTA - 2 - 45L



BT50-MTA TAPER ADAPTER (MORSE)



P.O13

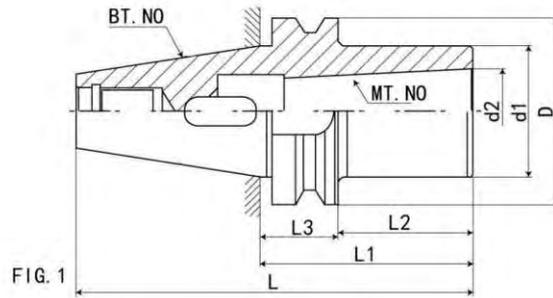


FIG. 1

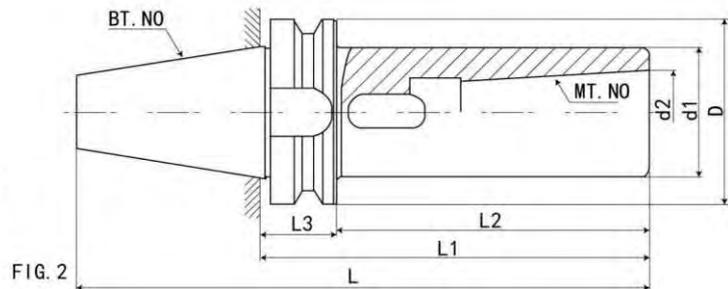


FIG. 2

Model	FIG	L	L1	L2	L3	D	d1	d2	Range	KGS
BT50-MTA1-45L	1	146.8	45	7	38	100	25	12.065	Φ2-Φ14	3.8
BT50-MTA1-120L	2	221.8	120	82	38	100	25	12.065	Φ2-Φ14	4.3
BT50-MTA1-180L	2	281.8	180	142	38	100	25	12.065	Φ2-Φ14	5
BT50-MTA1-200L	2	301.8	200	162	38	100	25	12.065	Φ2-Φ14	5.2
BT50-MTA2-60L	1	161.8	60	22	38	100	32	17.825	Φ14-Φ23	4
BT50-MTA2-135L	2	236.8	135	97	38	100	32	17.825	Φ14-Φ23	4.7
BT50-MTA2-180L	2	281.8	180	142	38	100	32	17.825	Φ14-Φ23	5
BT50-MTA2-200L	2	301.8	200	162	38	100	32	17.825	Φ14-Φ23	5.2
BT50-MTA3-65L	1	166.8	65	27	38	100	40	23.825	Φ23-Φ32	3.7
BT50-MTA3-75L	1	176.8	75	37	38	100	40	23.825	Φ23-Φ32	3.8
BT50-MTA3-95L	1	196.8	95	57	38	100	40	23.825	Φ23-Φ32	3.85
BT50-MTA3-150L	2	251.8	150	112	38	100	40	23.825	Φ23-Φ32	5
BT50-MTA3-180L	2	281.8	180	142	38	100	40	23.825	Φ23-Φ32	5.5
BT50-MTA3-200L	2	301.8	200	162	38	100	40	23.825	Φ23-Φ32	6
BT50-MTA3-250L	2	351.8	250	212	38	100	40	23.825	Φ23-Φ32	6.4
BT50-MTA3-300L	2	401.8	300	262	38	100	40	23.825	Φ23-Φ32	6.8
BT50-MTA4-75L	1	176.8	75	37	38	100	48	31.267	Φ32-Φ50	4.2
BT50-MTA4-95L	1	196.8	95	57	38	100	48	31.267	Φ32-Φ50	4.4
BT50-MTA4-150L	2	251.8	150	112	38	100	48	31.267	Φ32-Φ50	5
BT50-MTA4-180L	2	281.8	180	142	38	100	48	31.267	Φ32-Φ50	5.5
BT50-MTA4-200L	2	301.8	200	162	38	100	48	31.267	Φ32-Φ50	5.7
BT50-MTA4-250L	2	351.8	250	212	38	100	48	31.267	Φ32-Φ50	6.55
BT50-MTA4-300L	2	401.8	300	262	38	100	48	31.267	Φ32-Φ50	6.95
BT50-MTA5-105L	1	206.8	105	67	38	100	65	44.399	Φ50-Φ75	4
BT50-MTA5-210L	2	311.8	210	172	38	100	65	44.399	Φ50-Φ75	7.2
BT50-MTA5-300L	2	401.8	300	262	38	100	65	45.399	Φ50-Φ75	10.5
BT50-MTA5-350L	2	451.8	350	312	38	100	65	44.399	Φ50-Φ75	12.2
BT50-MTA6-200L	1	301.8	200	162	38	100	85	63.348	Φ75-Φ100	5.2
BT50-MTA6-280L	2	381.8	280	242	38	100	85	63.348	Φ75-Φ100	10

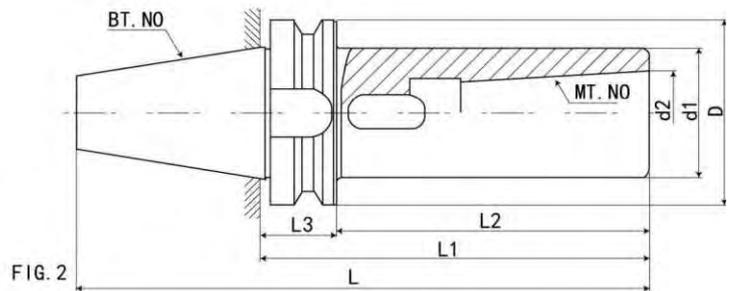
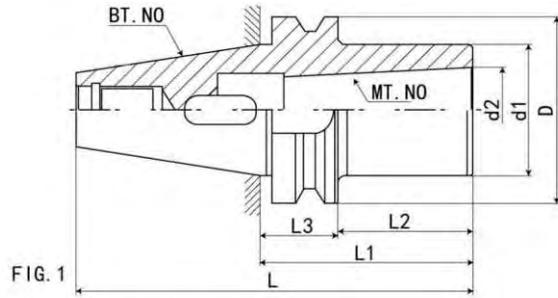
Features:

- ◎ Spindle conicity standard: JIS MAS 403 BT
- ◎ Used in Morse conicity tools, drill chuck, reamer and so on.
- ◎ Dimensions
- ◎ The pull stud must purchase alone.

BT60-MTA TAPER ADAPTER (MORSE)



P.O13



Model	FIG	L	L1	L2	L3	D	d1	d2	Range
BT60-MTA3-100L	1	261.8	100	52	48	155	40	23.825	Φ23-Φ32
BT60-MTA3-190L	2	351.8	190	142	48	155	40	23.825	Φ23-Φ32
BT60-MTA4-110L	1	271.8	110	62	48	155	48	31.267	Φ32-Φ50
BT60-MTA4-210L	2	371.8	210	162	48	155	48	31.267	Φ32-Φ50
BT60-MTA5-135L	1	296.8	135	87	48	155	65	44.399	Φ50-Φ75
BT60-MTA5-240L	2	401.8	240	192	48	155	65	44.399	Φ50-Φ75
BT60-MTA6-170L	1	331.8	170	122	48	155	90	63.348	Φ75-Φ100
BT60-MTA6-310L	2	471.8	310	262	48	155	90	63.348	Φ75-Φ100

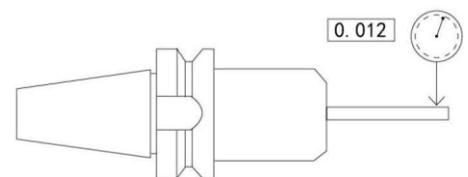
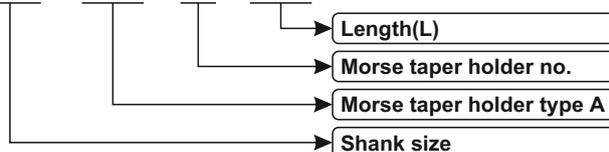


NC tools

Features:

- © Spindle conicity standard: JIS MAS 403 BT
- © Used in Morse conicity tools, drill chuck, reamer and so on.
- © Dimensions
- © The pull stud must purchase alone.

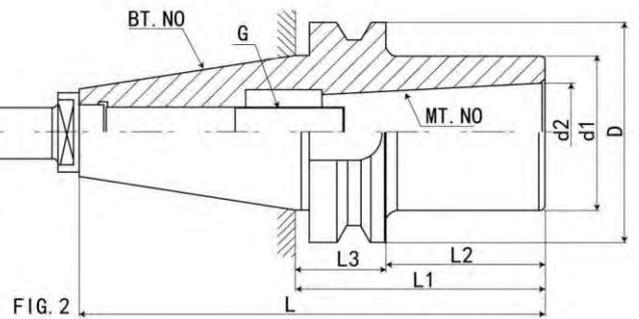
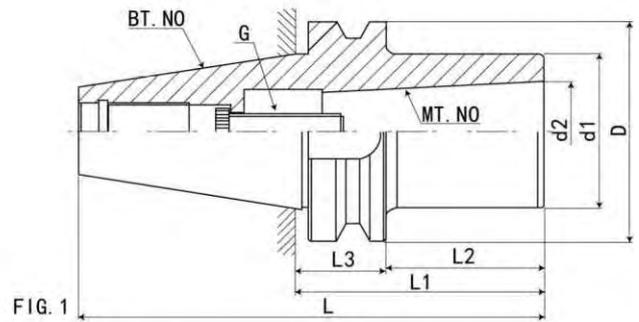
BT60 - MTA - 3 - 100L



BT-MTB MORSE TAP HOLDER



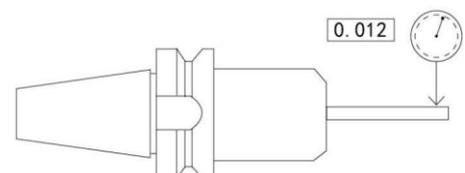
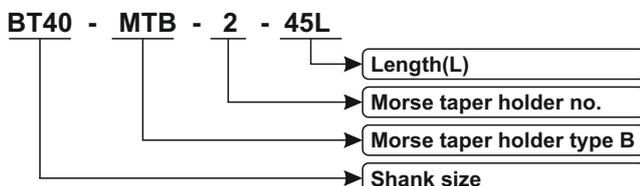
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Model	FIG	L	L1	L2	L3	D	d1	d2	G	Range	KGS
BT30-MTB1-45L	1	93.4	45	23	22	46	25	12.065	M6	Φ10-Φ14	0.55
BT30-MTB2-60L	1	108.4	60	38	22	46	32	17.780	M10	Φ16-Φ22	0.60
BT30-MTB3-80L	2	128.4	80	58	22	46	40	23.825	M12	Φ24-Φ32	0.8
Model	FIG	L	L1	L2	L3	D	d1	d2	G	Range	KGS
BT40-MTB1-45L	1	110.4	45	18	27	63	25	12.065	M6	Φ10-Φ14	1.05
BT40-MTB1-120L	2	185.4	120	93	27	63	25	12.065	M6	Φ10-Φ14	1.10
BT40-MTB2-45L	1	110.4	45	18	27	63	32	17.180	M10	Φ16-Φ22	1.85
BT40-MTB2-120L	1	185.4	120	93	27	63	32	17.180	M10	Φ16-Φ22	1.20
BT40-MTB3-75L	1	140.4	75	48	27	63	40	23.825	M12	Φ24-Φ32	1.90
BT40-MTB3-135L	1	200.4	135	108	27	63	40	23.825	M12	Φ24-Φ32	1.40
BT40-MTB4-90L	2	155.4	90	63	27	63	48	31.267	M16	Φ32-Φ50	2.50
BT40-MTB4-165L	2	230.4	165	138	27	63	48	31.267	M16	Φ32-Φ50	

Features:

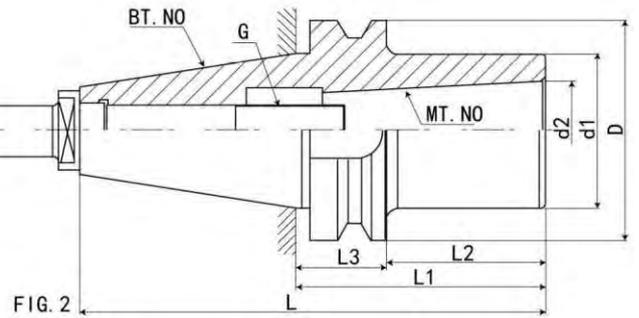
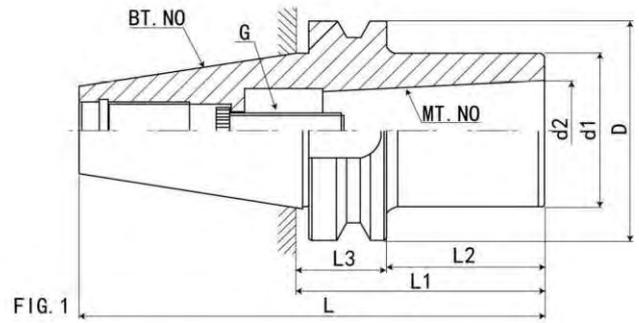
- © Spindle conicity standard: JIS MAS 403 BT
- © Dimensions
- © Uses in supporting on both sides not-like the taper, end to attach the box thread the cutting tool perhaps lengthens the pole.
- © The pull stud must purchase alone.



BT-MTB MORSE TAP HOLDER



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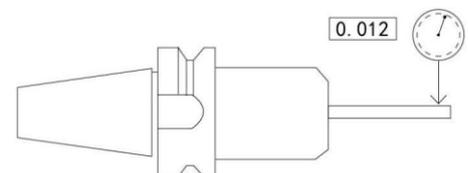
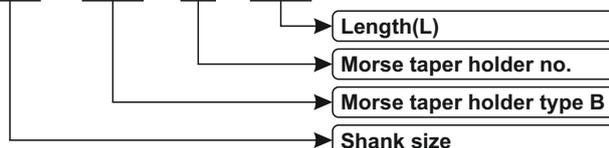


Model	FIG	L	L1	L2	L3	D	d1	d2	G	Range	KGS
BT50-MTB1-45L	1	146.8	45	7	38	100	25	12.065	M6	Φ10-Φ14	3.80
BT50-MTB1-120L	2	221.8	120	82	38	100	25	12.065	M6	Φ10-Φ14	4.30
BT50-MTB1-180L	2	281.8	180	142	38	100	25	12.065	M6	Φ10-Φ14	5.00
BT50-MTB2-60L	1	161.8	60	22	38	100	32	17.780	M10	Φ16-Φ22	4.00
BT50-MTB2-135L	2	236.8	135	97	38	100	32	17.780	M10	Φ16-Φ22	4.70
BT50-MTB2-180L	2	281.8	180	142	38	100	32	17.780	M10	Φ16-Φ22	5.00
BT50-MTB3-75L	1	166.8	75	37	38	100	40	23.825	M12	Φ24-Φ32	3.90
BT50-MTB3-150L	2	251.8	150	112	38	100	40	23.825	M12	Φ24-Φ32	5.00
BT50-MTB3-180L	2	281.8	180	142	38	100	40	23.825	M12	Φ24-Φ32	5.50
BT50-MTB4-75L	1	176.8	75	37	38	100	48	31.267	M16	Φ32-Φ50	4.20
BT50-MTB4-90L	1	191.8	90	52	38	100	48	31.267	M16	Φ32-Φ50	4.40
BT50-MTB4-150L	2	251.8	150	112	38	100	48	31.267	M16	Φ32-Φ50	5.00
BT50-MTB4-180L	2	281.8	180	142	38	100	48	31.267	M16	Φ32-Φ50	5.25
BT50-MTB4-200L	2	301.8	200	162	38	100	48	31.267	M16	Φ32-Φ50	5.60
BT50-MTB4-250L	2	351.8	250	212	38	100	48	31.267	M16	Φ32-Φ50	6.55
BT50-MTB4-300L	2	401.8	300	262	38	100	48	31.267	M16	Φ32-Φ50	7.2
BT50-MTB5-115L	1	216.8	115	77	38	100	65	44.399	M20	Φ40-Φ75	4.30
BT50-MTB5-210L	2	311.8	210	172	38	100	65	44.399	M20	Φ40-Φ75	7.2
BT60-MTB2-100L	1	261.8	100	52	48	155	32	17.780	M10*1.5P	Φ16-Φ22	/
BT60-MTB3-100L	1	261.8	100	52	48	155	40	23.825	M12*1.75P	Φ24-Φ32	/
BT60-MTB4-100L	1	261.8	100	52	48	155	48	31.267	M16*2.0P	Φ32-Φ50	/
BT60-MTB5-100L	1	261.8	100	52	48	155	65	44.399	M20*2.5P	Φ40-Φ75	/
BT60-MTB6-150L	1	311.8	150	102	48	155	85	63.348	M24*3.0P	Φ75-Φ100	/

Features:

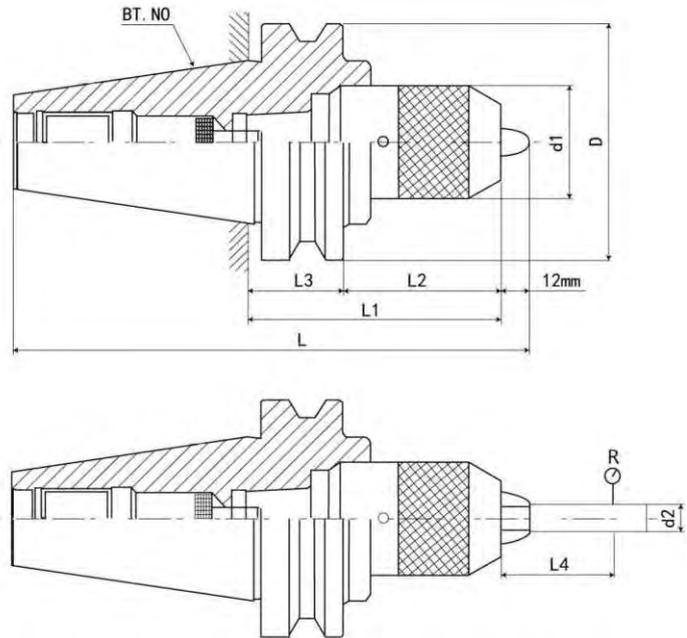
- © Spindle conicity standard: JIS MAS 403 BT
- © Dimensions
- © Uses in supporting on both sides not-like the taper, end to attach the box thread the cutting tool perhaps lengthens the pole.
- © The pull stud must purchase alone.

BT50 - MTB - 4 - 75L

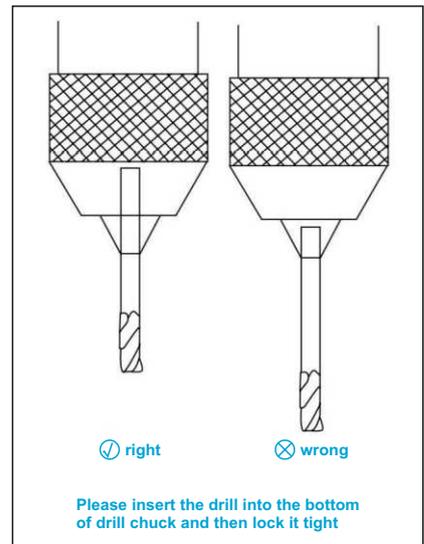


NC tools

BT-APU DRILL CHUCK HOLDER



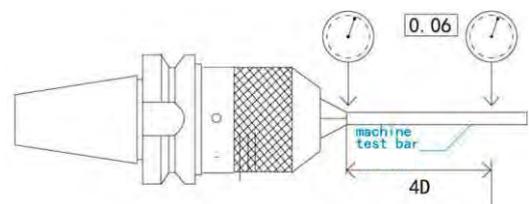
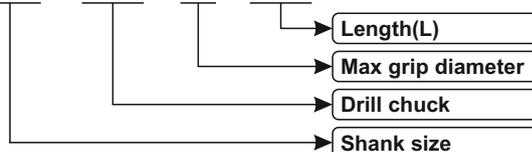
Model	L1	L	L2	L3	d1	d2	D	R	KGS
BT30-APU08-80L	80	140.4	58	22	37	6	46	0.08	0.72
BT30-APU13-110L	11	170.4	88	22	50	13	46	0.08	1.85
BT30-APU16-115L	115	175.4	93	22	57	16	46	0.08	2.18
BT40-APU08-85L	85	162.4	58	27	37	6	63	0.08	1.46
BT40-APU13-100L	10	177.4	73	27	50	13	63	0.08	2
BT40-APU13-150L	150	227.4	123	27	50	13	63	0.08	2.3
BT40-APU16-110L	110	187.4	83	27	57	16	63	0.08	2.35
BT40-APU16-150L	150	227.4	123	27	57	16	63	0.08	2.5
BT50-APU08-90L	90	203.8	52	38	37	6	100	0.08	4.16
BT50-APU13-110L	110	223.8	72	38	50	13	100	0.08	4.7
BT50-APU13-180L	180	293.8	142	38	50	13	100	0.08	5.85
BT50-APU16-120L	120	233.8	82	38	57	16	100	0.08	5.35
BT50-APU16-190L	190	303.8	152	38	57	16	100	0.08	5.85



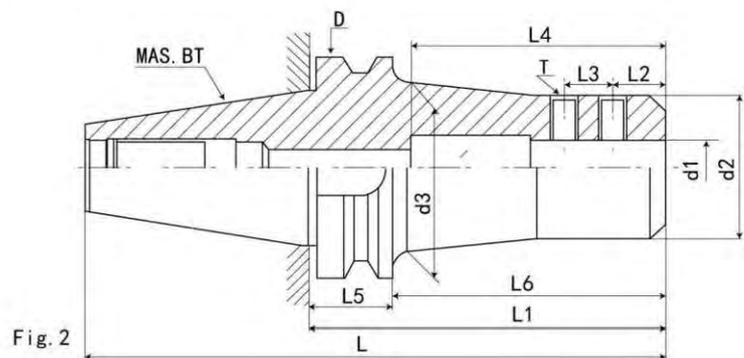
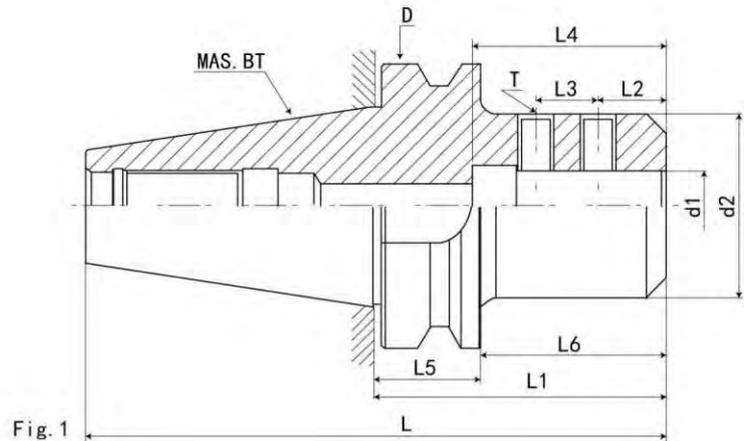
Features:

- ⊙ The shank and keyless drill chuck are combined together so as to avoid the drill chuck slipping out for heavy-duty and high speed cutting and improve the precision.
- ⊙ Not be used for gripping draw bolt and milling tools, instead of drill bit and reamer.
- ⊙ APU drill chuck shorten the length while length the working life of tool.
- ⊙ Each APU drill chuck attached 1pc APU wrench.
- ⊙ The APU leaning precision is 0.06mm, like the need high accuracy request, please use ER or the SK serie.
- ⊙ The spanner, pull stud must purchase alone.

BT40 - APU - 13 - 110L



BT30-SLN SIDE LOCK END MILL HOLDER

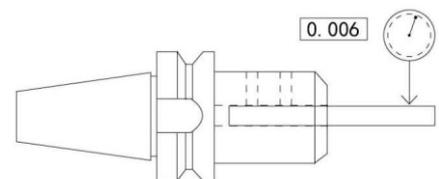
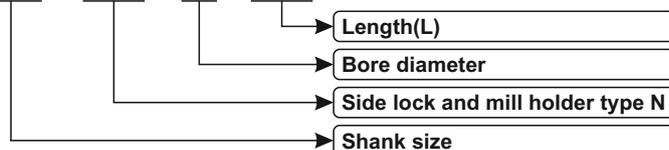


Model	d1	d2	d3	L	L1	L2	L3	L4	L5	L6	D	T	Fig	KGS
BT30-SLN6-75L	6	25	-	123.4	75	12	10	50	22	53	46	M6	1	0.6
BT30-SLN8-75L	8	28	-	123.4	75	14	12	50	22	53	46	M8	1	0.65
BT30-SLN10-75L	10	32	-	123.4	75	15	14	55	22	53	46	M10	1	0.7
BT30-SLN12-75L	12	40	-	123.4	75	20	16	60	22	53	46	M10	1	0.75
BT30-SLN16-75L	16	45	-	123.4	75	22	18	60	22	53	46	M10	1	1.15
BT30-SLN16-90L	16	45	-	138.4	90	22	18	60	22	68	46	M10	1	1.2
BT30-SLN20-75L	20	50	-	123.4	75	25	20	70	22	53	46	M12	1	1.15
BT30-SLN20-90L	20	50	-	138.4	90	25	20	70	22	68	46	M12	1	1.2
BT30-SLN25-75L	25	55	-	123.4	75	24	25	70	22	53	46	M12	1	1.8
BT30-SLN25-90L	25	55	-	138.4	90	24	25	70	22	68	46	M12	1	1.9

Features:

- ◎ Spindle conicity standard: JIS MAS 403 BT.
- ◎ Aperture tolerance: H5.
- ◎ Used for remachining with rigidly grip.
- ◎ Face mill chuck used to be the holder of cutting tools.
- ◎ When attaching, cutting tools, with strong side aligned lock between the plane of the part and notch solid screws.
- ◎ The pull stud must purchase alone.

BT30 - SLN - 20 - 100L



NC tools

BT40-SLN SIDE LOCK END MILL HOLDER



P.O13

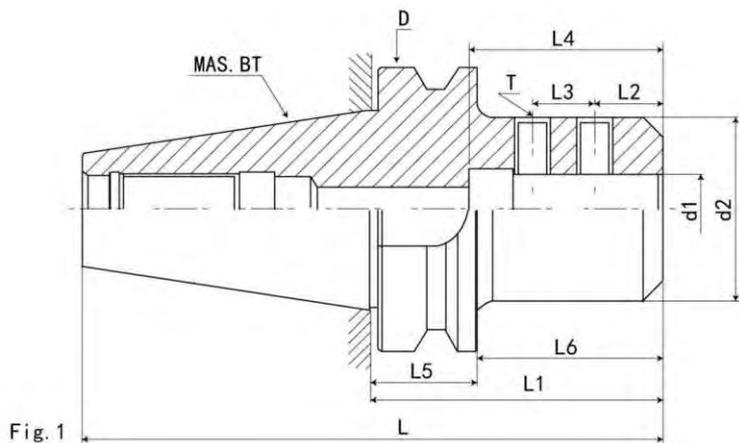


Fig. 1

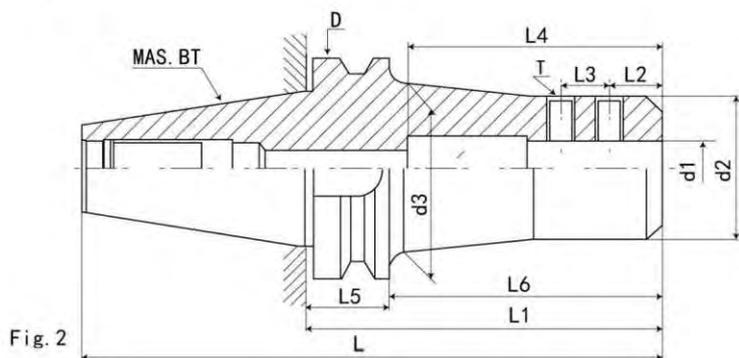


Fig. 2

Model	d1	d2	d3	L	L1	L2	L3	L4	L5	L6	D	T	FIG	KGS
BT40-SLN6-75L	6	25	-	140.4	75	12	10	50	27	48	63	M6	1	1.25
BT40-SLN8-75L	8	28	-	140.4	75	14	12	50	27	48	63	M8	1	1.3
BT40-SLN8-100L	8	28	-	165.4	100	14	12	50	27	73	63	M8	1	1.35
BT40-SLN10-75L	10	35	-	140.4	75	15	14	55	27	48	63	M10	1	1.3
BT40-SLN10-100L	10	35	-	165.4	100	15	14	55	27	73	63	M10	1	1.35
BT40-SLN12-75L	12	40	-	140.4	75	20	16	60	27	48	63	M10	1	1.32
BT40-SLN12-100L	12	40	-	165.4	100	20	16	60	27	73	63	M10	1	1.35
BT40-SLN16-90L	16	45	-	155.4	90	22	18	100	27	63	63	M12	1	1.5
BT40-SLN16-100L	16	45	-	165.4	100	22	18	100	27	73	63	M12	1	1.55
BT40-SLN16-150L	16	38	45	215.4	150	22	18	100	27	123	63	M10	2	1.7
BT40-SLN16-200L	16	38	45	265.4	200	22	18	100	27	173	63	M10	2	2
BT40-SLN20-90L	20	50	-	155.4	90	25	20	100	27	63	63	M12	1	1.6
BT40-SLN20-100L	20	50	-	165.4	100	25	20	100	27	73	63	M12	1	1.65
BT40-SLN20-150L	20	45	50	215.4	150	25	20	100	27	123	63	M12	2	1.8
BT40-SLN20-200L	20	45	50	265.4	200	25	20	100	27	173	63	M12	2	2
BT40-SLN25-90L	25	55	-	155.4	90	24	25	110	27	63	63	M12	1	2.5
BT40-SLN25-100L	25	55	-	165.4	100	24	25	110	27	73	63	M12	1	2.6
BT40-SLN25-150L	25	50	55	215.4	150	24	25	110	27	123	63	M12	2	2.8
BT40-SLN25-200L	25	50	55	265.4	200	24	25	110	27	173	63	M12	2	3
BT40-SLN32-100L	32	65	-	165.4	100	24	28	120	27	73	63	M16	1	2.75
BT40-SLN32-150L	32	58	63	215.4	150	24	28	120	27	123	63	M16	2	3
BT40-SLN32-200L	32	58	63	265.4	200	24	28	120	27	173	63	M16	2	3.2
BT40-SLN40-105L	40	73	-	170.4	105	30	32	120	27	78	63	M16	1	3.5
BT40-SLN40-150L	40	73	-	215.4	150	30	32	120	27	123	63	M16	1	4
BT40-SLN42-110L	42	73	-	175.4	110	30	32	120	27	83	63	M16	1	3.8

Features:

- © Spindle conicity standard: JIS MAS 403 BT.
- © Aperture tolerance: H5.
- © End mill are held by one or two set screws.
- © Used for remachining with rigidly grip.
- © Face mill chuck used to be the holder of cutting tools.
- © When attaching, cutting tools, with strong side aligned lock between the plane of the part and notch solid screws.
- © The pull stud must purchase alone.

BT50-SLN SIDE LOCK END MILL HOLDER



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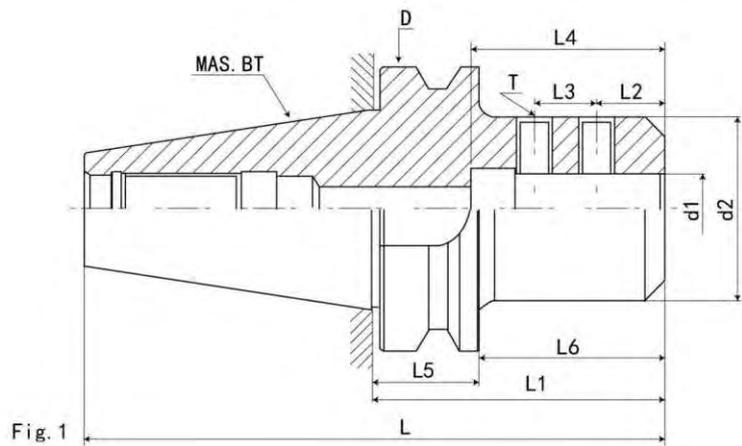


Fig. 1

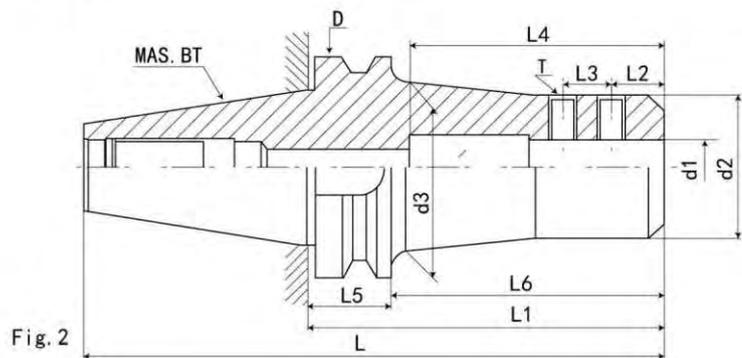


Fig. 2

Model	d1	d2	d3	L	L1	L2	L3	L4	L5	L6	D	T	Fig	KGS
BT50-SLN6-100L	6	25	-	201.8	100	12	10	50	38	62	100	M6	1	4.1
BT50-SLN8-100L	8	28	-	201.8	100	14	12	50	38	62	100	M8	1	4.15
BT50-SLN10-100L	10	35	-	201.8	100	15	14	55	38	62	100	M10	1	4.15
BT50-SLN12-100L	12	40	-	201.8	100	20	16	60	38	62	100	M10	1	4.15
BT50-SLN16-100L	16	45	-	201.8	100	22	18	100	38	62	100	M10	1	4.15
BT50-SLN16-150L	16	38	45	251.8	150	22	18	100	38	112	100	M10	2	5
BT50-SLN16-200L	16	38	45	301.8	200	22	18	100	38	162	100	M10	2	6.8
BT50-SLN16-250L	16	38	45	351.8	250	22	18	100	38	212	100	M10	2	7
BT50-SLN16-300L	16	38	45	401.8	300	22	18	100	38	262	100	M10	2	7.5
BT50-SLN20-100L	20	50	-	201.8	100	25	20	100	38	62	100	M12	1	4.8
BT50-SLN20-150L	20	45	50	251.8	150	25	20	100	38	112	100	M12	2	5.8
BT50-SLN20-200L	20	45	50	301.8	200	25	20	100	38	162	100	M12	2	6.9
BT50-SLN20-250L	20	45	50	351.8	250	25	20	100	38	212	100	M12	2	7.3
BT50-SLN20-300L	20	45	50	401.8	300	25	20	100	38	262	100	M12	2	7.8
BT50-SLN25-100L	25	60	-	201.8	100	24	25	110	38	62	100	M12	1	5.5
BT50-SLN25-150L	25	50	55	251.8	150	24	25	110	38	112	100	M12	2	6
BT50-SLN25-200L	25	50	55	301.8	200	24	25	110	38	162	100	M12	2	7
BT50-SLN25-250L	25	50	55	351.8	250	24	25	110	38	212	100	M12	2	7.5
BT50-SLN25-300L	25	50	55	401.8	300	24	25	110	38	262	100	M12	2	8
BT50-SLN25-350L	25	50	55	451.8	350	24	25	110	38	312	100	M12	2	8.5



NC tools

BT-SLN SIDE LOCK END MILL HOLDER



P.O13

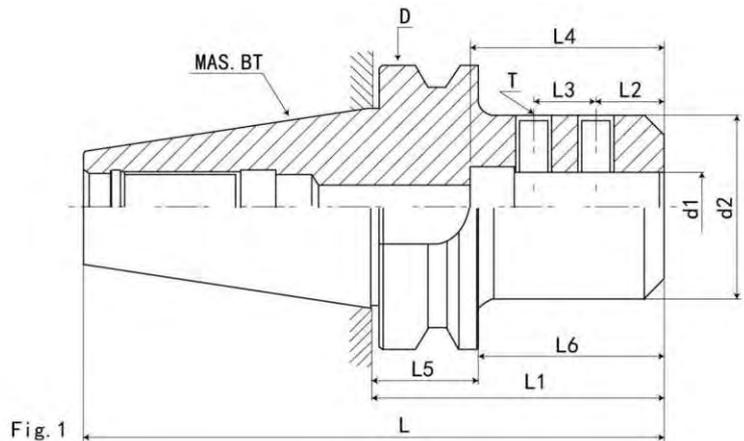


Fig. 1

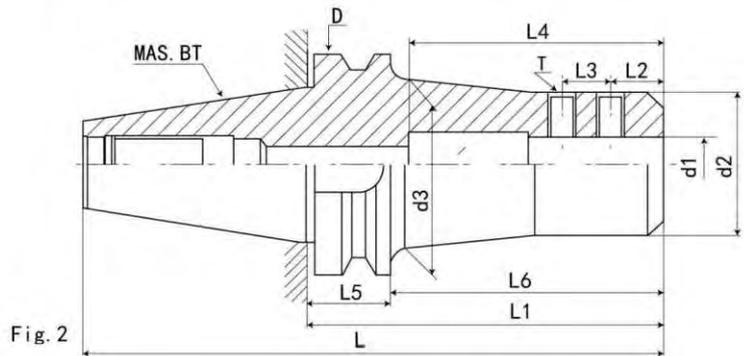


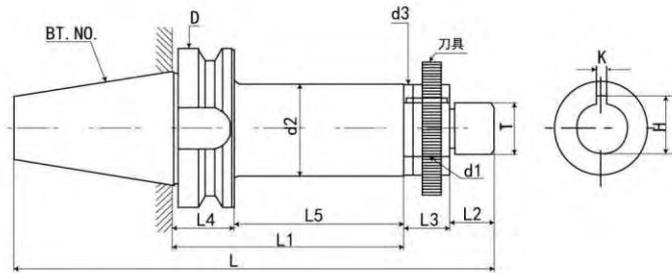
Fig. 2

Model	d1	d2	d3	L	L1	L2	L3	L4	L5	L6	D	T	Fig	KGS
BT50-SLN32-105L	32	65	-	206.8	105	24	28	120	38	67	100	M16	1	8
BT50-SLN32-150L	32	58	63	251.8	150	24	28	120	38	112	100	M16	2	6.5
BT50-SLN32-200L	32	58	63	301.8	200	24	28	120	38	162	100	M16	2	7.5
BT50-SLN32-250L	32	58	63	351.8	250	24	28	120	38	212	100	M16	2	8
BT50-SLN32-300L	32	58	63	401.8	300	24	28	120	38	262	100	M16	2	8.5
BT50-SLN32-350L	32	58	63	451.8	350	24	28	120	38	312	100	M16	2	9
BT50-SLN40-115L	40	80	-	216.8	115	30	32	120	38	77	100	M20	1	6.6
BT50-SLN40-150L	40	70	75	251.8	150	30	32	120	38	112	100	M16	2	7
BT50-SLN40-200L	40	70	75	301.8	200	30	32	120	38	162	100	M16	2	7.5
BT50-SLN40-250L	40	70	75	351.8	250	30	32	120	38	212	100	M16	2	8
BT50-SLN40-300L	40	70	75	401.8	300	30	32	120	38	262	100	M16	2	8.5
BT50-SLN40-350L	40	70	75	451.8	350	30	32	120	38	312	100	M16	2	9
BT50-SLN42-120L	42	80	-	221.8	120	30	32	120	38	82	100	M20	1	6.5
BT50-SLN42-150L	42	75	80	251.8	150	30	32	120	38	112	100	M20	1	7.5
BT50-SLN42-200L	42	75	80	301.8	200	30	32	120	38	162	100	M20	1	8.5
BT50-SLN50-120L	50	90	-	221.8	120	35	35	120	38	82	100	M20	1	7.2
BT50-SLN50-150L	50	85	90	251.8	150	35	35	120	38	112	100	M20	1	8.5
BT50-SLN50-200L	50	85	90	301.8	200	35	35	120	38	162	100	M20	1	9.5
BT50-SLN50.8-120L	50.8	90	-	221.8	120	35	35	120	38	82	100	M20	1	7.3
BT50-SLN50.8-150L	50.8	85	90	251.8	150	35	35	120	38	112	100	M20	1	8.5
BT50-SLN50.8-200L	50.8	85	90	301.8	200	35	35	120	38	162	100	M20	1	9.5
BT60-SLN25-135L	25	60	-	296.8	135	24	25	110	48	87	155	M12	1	
BT60-SLN32-135L	32	65	-	296.8	135	24	28	120	48	87	155	M16	1	
BT60-SLN40-135L	40	80	-	296.8	135	30	32	120	48	87	155	M16	1	
BT60-SLN42-135L	42	80	-	296.8	135	30	32	120	48	87	155	M20	1	
BT60-SLN50-135L	50	90	-	296.8	135	35	35	120	48	87	155	M20	1	
BT60-SLN50.2-135L	50.2	90	-	296.8	135	35	35	120	48	87	155	M20	1	

BT-SCA SIDE CUTTER ADAPTET



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Model	L	L1	L2	L3	L4	L5	D	d1	d2	d3	k	H	T	KGS
BT30-SCA10-60L	150.4	60	12	30	22	38	46	10	18	18	-	-	M8×1.25P	0.8
BT30-SCA16-60L	154.4	60	16	30	22	38	46	16	26	26	4	17.7	M14×1.5P	1.2
BT30-SCA22-60L	160.4	60	22	30	22	38	46	22	34	34	6	24.3	M20×1.5P	1.4
BT30-SCA22-75L	175.4	75	22	30	22	53	46	22	34	34	6	24.3	M20×1.5P	1.5
BT40-SCA16-60L	171.4	60	16	30	27	33	63	16	26	26	4	17.7	M14×1.5P	1.6
BT40-SCA22-60L	177.4	60	22	30	27	33	63	22	34	34	6	24.3	M20×1.5P	1.7
BT40-SCA22-75L	192.4	75	22	30	27	48	63	22	34	34	6	24.3	M20×1.5P	2
BT40-SCA22-120L	237.4	120	22	30	27	93	63	22	34	34	6	24.3	M20×1.5P	2.1
BT40-SCA27-75L	198.4	75	28	30	27	48	63	27	41	40	7	30	M24×1.5P	2.
BT40-SCA27-120L	243.4	120	28	30	27	93	63	27	41	40	7	30	M24×1.5P	2.6
BT40-SCA32-90L	217.4	90	32	30	27	63	63	32	47	47	8	35	M30×1.5P	1.7
BT40-SCA22.22-75L	192.4	75	22	30	27	48	63	22.22	34	34	3.17	24.6	M20×1.5P	2
BT40-SCA22.22-120L	237.4	120	22	30	27	93	63	22.22	34	34	3.17	24.6	M20×1.5P	2
BT40-SCA25.4-75L	198.4	75	28	30	27	48	63	25.4	41	40	6.35	28.4	M24×1.5P	2.4
BT40-SCA25.4-120L	243.4	120	28	30	27	93	63	25.4	41	40	6.35	28.4	M24×1.5P	2.6
BT40-SCA31.75-90L	217.4	90	32	30	27	63	63	31.75	47	47	7.93	34.8	M30×1.5P	4.4
BT50-SCA22-90L	243.8	90	22	30	38	52	100	22	34	34	6	24.3	M20×1.5P	4.7
BT50-SCA22-135L	288.8	135	22	30	38	97	100	22	34	34	6	24.3	M20×1.5P	5
BT50-SCA22-180L	333.8	180	22	30	38	142	100	22	34	34	6	24.3	M20×1.5P	4.6
BT50-SCA27-90L	249.8	90	28	30	38	52	100	27	41	40	7	30	M24×1.5P	5
BT50-SCA27-135L	294.8	135	28	30	38	97	100	27	41	40	7	30	M24×1.5P	5.5
BT50-SCA27-180L	339.8	180	28	30	38	142	100	27	41	40	7	30	M24×1.5P	4.7
BT50-SCA32-90L	253.8	90	32	30	38	52	100	32	47	47	8	35	M30×1.5P	5.2
BT50-SCA32-135L	298.8	135	32	30	38	97	100	32	47	47	8	35	M30×1.5P	5.7
BT50-SCA32-180L	343.8	180	32	30	38	142	100	32	47	47	8	35	M30×1.5P	5
BT50-SCA40-90L	261.8	90	40	30	38	52	100	40	55	55	10	43.7	M36×2.0P	6
BT50-SCA40-135L	306.8	135	40	30	38	97	100	40	55	55	10	43.7	M36×2.0P	7
BT50-SCA40-180L	351.8	180	40	30	38	142	100	40	55	55	10	43.7	M36×2.0P	4.4
BT50-SCA22.22-90L	243.8	90	22	30	38	52	100	22.22	34	34	3.17	24.6	M20×1.5P	4.7
BT50-SCA22.22-135L	288.8	135	22	30	38	97	100	22.22	34	34	3.17	24.6	M20×1.5P	4.5
BT50-SCA25.4-90L	249.8	90	28	30	38	52	100	25.4	41	40	6.35	28.4	M24×1.5P	4.9
BT50-SCA25.4-135L	294.8	135	28	30	38	97	100	25.4	41	40	6.35	28.4	M24×1.5P	4.7
BT50-SCA31.75-90L	253.8	90	32	30	38	52	100	31.75	47	47	7.93	34.8	M30×1.5P	5.2
BT50-SCA31.75-135L	298.8	135	32	30	38	97	100	31.75	47	47	7.93	34.8	M30×1.5P	4.9
BT50-SCA38.10-90L	261.8	90	40	30	38	52	100	38.10	55	55	9.52	42.4	M36×2.0P	59
BT50-SCA38.10-135L	306.8	135	40	30	38	97	100	38.10	55	55	9.52	42.4	M36×2.0P	

Features:

- ◎ Shears the trough knife, when uses and so on three edge milling cutters, is uses the cutting tool and the cutter bar contacts closely, requests transfer the entire filling piece.
- ◎ Selects and purchases the hilt, according to the processing needs please to confirm that installs the saw blade jamming size. Does not supplement the puller bolt to select.
- ◎ The pull stud must purchase alone.

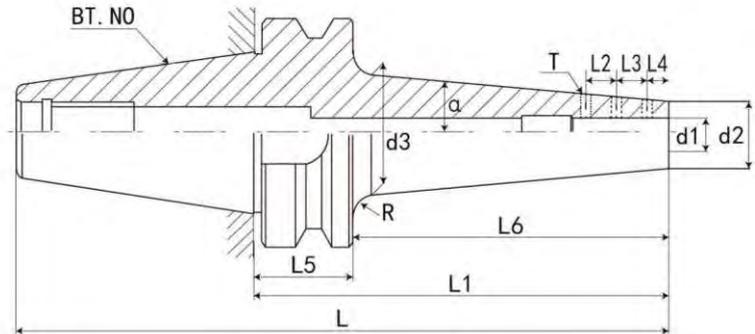


NC tools

BT30/ 40-SLD SMALL DIAMETER SIDE LOCK TOOL HOLDER



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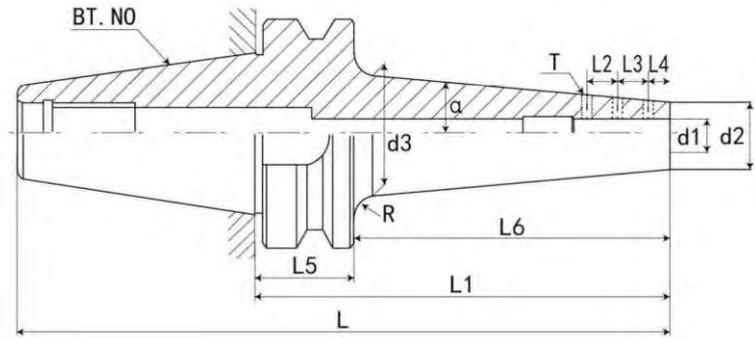
Model	L	L1	L2	L3	L4	L5	L6	d1	d2	d3	T	α	R	KGS
BT30-SLD3-80L-A5	128.4	80	6	9	11	22	58	3	9	18.5	M3*3*0.35P	5°	5	
BT30-SLD3-100L-A5	148.4	100	6	9	11	22	78	3	9	22	M3*3*0.35P	5°	5	
BT30-SLD4-80L-A5	128.4	80	6	9	11	22	58	4	11	20.5	M4*4*0.5P	5°	5	
BT30-SLD4-100L-A5	148.4	100	6	9	11	22	78	4	11	24	M4*4*0.5P	5°	5	
BT30-SLD6-80L-A5	128.4	80	6	9	11	22	58	6	13	22.5	M5*5*0.5P	5°	5	
BT30-SLD6-100L-A5	148.4	100	6	9	11	22	78	6	13	25.5	M5*5*0.5P	5°	5	
BT30-SLD8-80L-A5	128.4	80	6	9	11	22	58	8	15	24.5	M5*5*0.5P	5°	5	
BT30-SLD8-100L-A5	148.4	100	6	9	11	22	78	8	15	28	M5*5*0.5P	5°	5	
BT40-SLD3-135L-A5	200.4	135	6	9	11	27	108	3	9	27	M3*3*0.35P	5°	5	
BT40-SLD4-135L-A5	200.4	135	6	9	11	27	108	4	11	29	M4*4*0.5P	5°	5	
BT40-SLD6-135L-A5	200.4	135	8	10	12	27	108	6	13	31	M5*5*0.5P	5°	5	
BT40-SLD6-150L-A5	215.4	150	8	10	12	27	123	6	13	33.5	M5*5*0.5P	5°	5	
BT40-SLD6-200L-A5	265.4	200	8	10	12	27	173	6	13	41.5	M5*5*0.5P	5°	5	
BT40-SLD8-135L-A5	200.4	135	8	12	14	27	108	8	15	33	M5*5*0.5P	5°	5	
BT40-SLD8-150L-A5	215.4	150	8	12	14	27	123	8	15	35.5	M5*5*0.5P	5°	5	
BT40-SLD8-200L-A5	265.4	200	8	12	14	27	173	8	15	43.5	M5*5*0.5P	5°	5	
BT40-SLD10-135L-A5	200.4	135	9	13	20	27	108	10	17	35	M5*5*0.5P	5°	5	
BT40-SLD10-150L-A5	215.4	150	9	13	20	27	123	10	17	37.5	M5*5*0.5P	5°	5	
BT40-SLD10-200L-A5	265.4	200	9	13	20	27	173	10	17	45.5	M5*5*0.5P	5°	5	
BT40-SLD12-135L-A5	200.4	135	9	14	20	27	108	12	22	40	M6*6*0.75P	5°	5	
BT40-SLD12-150L-A5	215.4	150	9	14	20	27	123	12	22	42.5	M6*6*0.75P	5°	5	
BT40-SLD12-200L-A5	265.4	200	9	14	20	27	173	12	22	50.5	M6*6*0.75P	5°	5	
BT40-SLD6-150L-A3	215.4	150	8	10	12	27	123	6	13	25.5	M5*5*0.5P	3°	5	
BT40-SLD6-200L-A3	265.4	200	8	10	12	27	173	6	13	30.5	M5*5*0.5P	3°	5	
BT40-SLD8-150L-A3	215.4	150	8	12	14	27	123	8	15	27.5	M5*5*0.5P	3°	5	
BT40-SLD8-200L-A3	265.4	200	8	12	14	27	173	8	15	32.5	M5*5*0.5P	3°		
BT40-SLD10-150L-A3	215.4	150	9	13	20	27	123	10	17	29.5	M5*5*0.5P	3°		
BT40-SLD10-200L-A3	265.4	200	9	13	20	27	173	10	17	34.5	M5*5*0.5P	3°		

NC tools

BT50-SLD SMALL DIAMETER SIDE LOCK TOOL HOLDER



P.O13



Model	L	L1	L2	L3	L4	L5	L6	d1	d2	d3	T	α	R	KGS
BT50-SLD4-150L-A5	251.8	150	6	9	11	38	112	4	12	30	M4*4*0.5P	5°	10	
BT50-SLD4-200L-A5	301.8	200	6	9	11	38	162	4	12	38.5	M4*4*0.5P	5°	10	
BT50-SLD4-250L-A5	351.8	250	6	9	11	38	212	4	12	47.5	M4*4*0.5P	5°	10	
BT50-SLD4-300L-A5	401.8	300	6	9	11	38	262	4	12	56	M4*4*0.5P	5°	10	
BT50-SLD6-150L-A5	251.8	150	8	10	12	38	112	6	14	32	M5*5*0.5P	5°	10	
BT50-SLD6-200L-A5	301.8	200	8	10	12	38	162	6	14	40.5	M5*5*0.5P	5°	10	
BT50-SLD6-250L-A5	351.8	250	8	10	12	38	212	6	14	49.5	M5*5*0.5P	5°	10	
BT50-SLD6-300L-A5	401.8	300	8	10	12	38	262	6	14	58	M5*5*0.5P	5°	10	
BT50-SLD8-150L-A5	251.8	150	8	12	14	38	112	8	16	34	M5*5*0.5P	5°	10	
BT50-SLD8-200L-A5	301.8	200	8	12	14	38	162	8	16	42.5	M5*5*0.5P	5°	10	
BT50-SLD8-250L-A5	351.8	250	8	12	14	38	212	8	16	51.5	M5*5*0.5P	5°	10	
BT50-SLD8-300L-A5	401.8	300	8	12	14	38	262	8	16	60	M5*5*0.5P	5°	10	
BT50-SLD10-150L-A5	251.8	150	9	13	20	38	112	10	18	36	M5*5*0.5P	5°	10	
BT50-SLD10-200L-A5	301.8	200	9	13	20	38	162	10	18	44.5	M5*5*0.5P	5°	10	
BT50-SLD10-250L-A5	351.8	250	9	13	20	38	212	10	18	53.5	M5*5*0.5P	5°	10	
BT50-SLD10-300L-A5	401.8	300	9	13	20	38	262	10	18	62	M5*5*0.5P	5°	10	
BT50-SLD12-150L-A5	251.8	150	9	14	20	38	112	12	22	40	M6*6*0.75P	5°	10	
BT50-SLD12-200L-A5	301.8	200	9	14	20	38	162	12	22	48.5	M6*6*0.75P	5°	10	
BT50-SLD12-250L-A5	351.8	250	9	14	20	38	212	12	22	57.5	M6*6*0.75P	5°	10	
BT50-SLD12-300L-A5	401.8	300	9	14	20	38	262	12	22	66	M6*6*0.75P	5°	10	
BT50-SLD16-150L-A5	251.8	150	15	20	25	38	112	16	26	44	M8*5*0.75P	5°	10	
BT50-SLD16-200L-A5	301.8	200	15	20	25	38	162	16	26	52.5	M8*5*0.75P	5°	10	
BT50-SLD16-250L-A5	351.8	250	15	20	25	38	212	16	26	61.5	M8*5*0.75P	5°	10	
BT50-SLD16-300L-A5	401.8	300	15	20	25	38	262	16	26	70	M8*5*0.75P	5°	10	
BT50-SLD20-150L-A5	251.8	150	15	20	25	38	112	20	30	48	M8*5*0.75P	5°	10	
BT50-SLD20-200L-A5	301.8	200	15	20	25	38	162	20	30	56.5	M8*5*0.75P	5°	10	
BT50-SLD20-250L-A5	351.8	250	15	20	25	38	212	20	30	65.5	M8*5*0.75P	5°	10	
BT50-SLD20-300L-A5	401.8	300	15	20	25	38	262	20	30	74	M8*5*0.75P	5°	10	
BT50-SLD6-150L-A3	251.8	150	8	10	12	38	112	6	14	25	M5*5*0.5P	3°	10	
BT50-SLD6-200L-A3	301.8	200	8	10	12	38	162	6	14	30	M5*5*0.5P	3°	10	
BT50-SLD6-250L-A3	351.8	250	8	10	12	38	212	6	14	35	M5*5*0.5P	3°	10	
BT50-SLD6-300L-A3	401.8	300	8	10	12	38	262	6	14	40	M5*5*0.5P	3°	10	
BT50-SLD8-150L-A3	251.8	150	8	12	14	38	112	8	16	27	M5*5*0.5P	3°	10	
BT50-SLD8-200L-A3	301.8	200	8	12	14	38	162	8	16	32	M5*5*0.5P	3°	10	
BT50-SLD8-250L-A3	351.8	250	8	12	14	38	212	8	16	37	M5*5*0.5P	3°	10	
BT50-SLD8-300L-A3	401.8	300	8	12	14	38	262	8	16	42	M5*5*0.5P	3°	10	
BT50-SLD10-150L-A3	251.8	150	9	13	20	38	112	10	18	29	M5*5*0.5P	3°	10	
BT50-SLD10-200L-A3	301.8	200	9	13	20	38	162	10	18	34	M5*5*0.5P	3°	10	
BT50-SLD10-250L-A3	351.8	250	9	13	20	38	212	10	18	39	M5*5*0.5P	3°	10	
BT50-SLD10-300L-A3	401.8	300	9	13	20	38	262	10	18	44	M5*5*0.5P	3°	10	
BT50-SLD12-150L-A3	251.8	150	9	14	20	38	112	12	22	33	M6*6*0.75P	3°	10	
BT50-SLD12-200L-A3	301.8	200	9	14	20	38	162	12	22	38	M6*6*0.75P	3°	10	
BT50-SLD12-250L-A3	351.8	250	9	14	20	38	212	12	22	43	M6*6*0.75P	3°	10	
BT50-SLD12-300L-A3	401.8	300	9	14	20	38	262	12	22	48	M6*6*0.75P	3°	10	

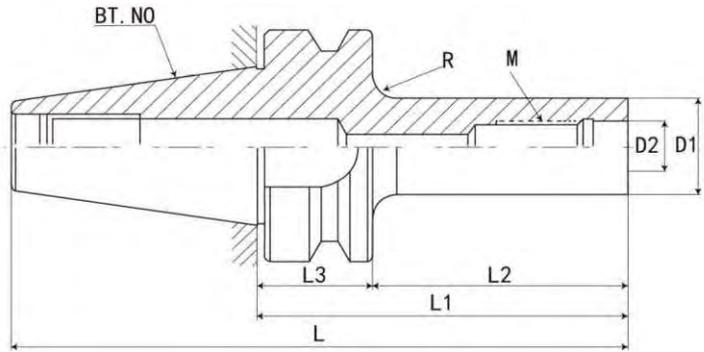


NC tools

BT-M THERADED CHUCK

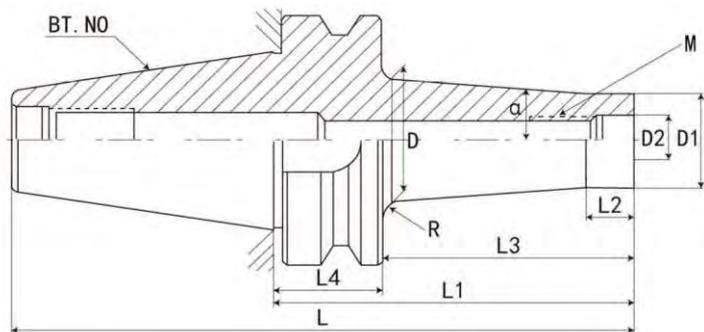


P.O13



Model	L	L1	L2	L3	D1	D2	M	R	KGS
BT30-M08-60L	108.4	60	38	22	15.4	8.5	M8*1.25P	4	
BT30-M08-90L	138.4	90	68	22	15.4	8.5	M8*1.25P	4	0.5
BT30-M08-110L	158.4	110	88	22	15.4	8.5	M8*1.25P	4	
BT30-M10-60L	108.4	60	38	22	19	10.5	M10*1.5P	4	
BT30-M10-90L	138.4	90	68	22	19	10.5	M10*1.5P	4	0.5
BT30-M10-110L	158.4	110	88	22	19	10.5	M10*1.5P	4	
BT30-M12-60L	108.4	60	38	22	24	12.5	M12*1.75P	4	
BT30-M12-90L	138.4	90	68	22	24	12.5	M12*1.75P	4	0.6
BT30-M12-110L	158.4	110	88	22	24	12.5	M12*1.75P	4	
BT30-M16-60L	108.4	60	38	22	29	17	M16*2.0P	4	
BT30-M16-90L	138.4	90	68	22	29	17	M16*2.0P	4	0.7
BT30-M16-110L	158.4	110	88	22	29	17	M16*2.0P	4	
BT40-M08-60L	125.4	60	33	27	15.4	8.5	M8*1.25P	10	1.1
BT40-M08-90L	155.4	90	63	27	15.4	8.5	M8*1.25P	10	1.2
BT40-M08-110L	175.4	110	83	27	15.4	8.5	M8*1.25P	10	1.2
BT40-M10-60L	125.4	60	33	27	19	10.5	M10*1.5P	10	1.1
BT40-M10-90L	155.4	90	63	27	19	10.5	M10*1.5P	10	1.1
BT40-M10-110L	175.4	110	83	27	19	10.5	M10*1.5P	10	1.2
BT40-M12-60L	125.4	60	33	27	24	12.5	M12*1.75P	10	1.2
BT40-M12-90L	155.4	90	63	27	24	12.5	M12*1.75P	10	1.3
BT40-M12-110L	175.4	110	83	27	24	12.5	M12*1.75P	10	1.3
BT40-M16-60L	125.4	60	33	27	29	17	M16*2.0P	10	1.2
BT40-M16-90L	155.4	90	63	27	29	17	M16*2.0P	10	1.3
BT40-M16-110L	175.4	110	83	27	29	17	M16*2.0P	10	1.4
BT50-M08-60L	161.8	60	22	38	15.4	8.5	M8*1.25P	10	
BT50-M08-90L	191.8	90	52	38	15.4	8.5	M8*1.25P	10	3.8
BT50-M08-110L	211.8	110	72	38	15.4	8.5	M8*1.25P	10	3.8
BT50-M10-60L	161.8	60	22	38	19	10.5	M10*1.5P	10	
BT50-M10-90L	191.8	90	52	38	19	10.5	M10*1.5P	10	3.8
BT50-M10-110L	211.8	110	72	38	19	10.5	M10*1.5P	10	3.8
BT50-M12-60L	161.8	60	22	38	24	12.5	M12*1.75P	10	
BT50-M12-90L	191.8	90	52	38	24	12.5	M12*1.75P	10	3.9
BT50-M12-110L	211.8	110	72	38	24	12.5	M12*1.75P	10	3.9
BT50-M16-60L	161.8	60	22	38	29	17	M16*2.0P	10	3.9
BT50-M16-90L	191.8	90	52	38	29	17	M16*2.0P	10	3.9
BT50-M16-110L	211.8	110	72	38	29	17	M16*2.0P	10	3.9

BT30/ 40-M THERADED CHUCK



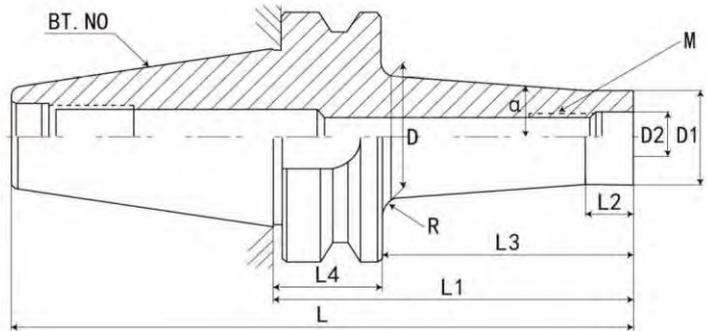
P.O13

Model	L	L1	L2	L3	L4	D	D1	D2	M	α	R	KGS
BT30-M08-60L-A5	108.4	60	12	38	22	19.5	15.4	8.5	M8*1.25P	5°	10	0.5
BT30-M08-90L-A5	138.4	90	12	68	22	24.5	15.4	8.5	M8*1.25P	5°	10	
BT30-M10-60L-A4	108.4	60	12	38	22	22	19	10.5	M10*1.5P	4°	10	0.5
BT30-M10-90L-A4	138.4	90	12	68	22	26	19	10.5	M10*1.5P	4°	10	
BT30-M12-60L-A4	108.4	60	12	38	22	27	24	12.5	M12*1.75P	4°	10	0.5
BT30-M12-90L-A4	138.4	90	12	68	22	31.5	24	12.5	M12*1.75P	4°	10	
BT30-M16-60L-A4	108.4	60	12	38	22	32.5	29	17	M16*2.0P	4°	10	0.6
BT30-M16-90L-A4	138.4	90	12	68	22	36.5	29	17	M16*2.0P	4°	10	0.7
BT40-M08-60L-A5	125.4	60	12	33	27	18	15.4	8.5	M8*1.25P	5°	10	1.1
BT40-M08-90L-A5	155.4	90	12	63	27	23.5	15.4	8.5	M8*1.25P	5°	10	1.2
BT40-M08-110L-A5	175.4	110	12	83	27	27	15.4	8.5	M8*1.25P	5°	10	1.3
BT40-M08-150L-A5	215.4	150	12	123	27	34	15.4	8.5	M8*1.25P	5°	10	1.5
BT40-M08-200L-A5	265.4	200	12	173	27	42.5	15.4	8.5	M8*1.25P	5°	10	
BT40-M10-60L-A4	125.4	60	12	33	27	21.5	19	10.5	M10*1.5P	4°	10	1.1
BT40-M10-90L-A4	155.4	90	12	63	27	25.5	19	10.5	M10*1.5P	4°	10	1.2
BT40-M10-110L-A4	175.4	110	12	83	27	28.5	19	10.5	M10*1.5P	4°	10	1.3
BT40-M10-150L-A4	215.4	150	12	123	27	34	19	10.5	M10*1.5P	4°	10	1.6
BT40-M10-200L-A4	265.4	200	12	173	27	41	19	10.5	M10*1.5P	4°	10	2
BT40-M12-60L-A4	125.4	60	12	33	27	25.5	23	12.5	M12*1.75P	4°	10	1.2
BT40-M12-90L-A4	155.4	90	12	63	27	29.5	23	12.5	M12*1.75P	4°	10	1.2
BT40-M12-110L-A4	175.4	110	12	83	27	32.5	23	12.5	M12*1.75P	4°	10	1.5
BT40-M12-135L-A4	200.4	135	12	108	27	36	23	12.5	M12*1.75P	4°	10	1.6
BT40-M12-150L-A4	215.4	150	12	123	27	38	23	12.5	M12*1.75P	4°	10	1.7
BT40-M12-200L-A4	265.4	200	12	173	27	45	23	12.5	M12*1.75P	4°	10	2.5
BT40-M16-60L-A4	125.4	60	12	33	27	31	28.8	17	M16*2.0P	4°	10	
BT40-M16-90L-A4	155.4	90	12	63	27	35.5	28.8	17	M16*2.0P	4°	10	
BT40-M16-110L-A4	175.4	110	12	83	27	38	28.8	17	M16*2.0P	4°	10	
BT40-M16-135L-A4	200.4	135	12	108	27	41.5	28.8	17	M16*2.0P	4°	10	1.7
BT40-M16-150L-A4	215.4	150	12	123	27	43.5	28.8	17	M16*2.0P	4°	10	
BT40-M16-200L-A4	265.4	200	12	173	27	50.5	28.8	17	M16*2.0P	4°	10	



NC tools

BT50-M THERADED CHUCK



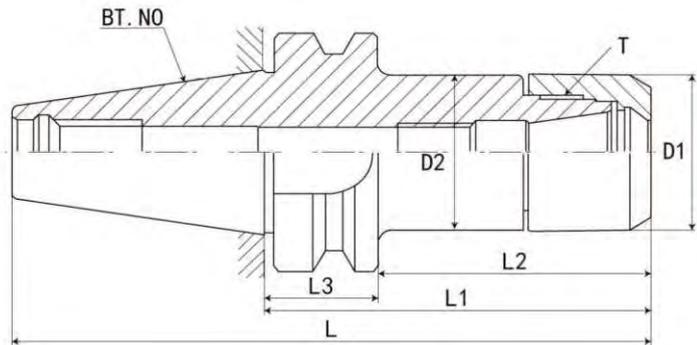
P.O13

Model	L	L1	L2	L3	L4	D	D1	D2	M	α	R	KGS
BT50-M08-60L-A5	161.8	60	12	22	38	17.5	15.4	8.5	M8*1.25P	5°	10	
BT50-M08-90L-A5	194.8	90	12	52	38	20.5	15.4	8.5	M8*1.25P	5°	10	3.9
BT50-M08-110L-A5	211.8	110	12	72	38	24	15.4	8.5	M8*1.25P	5°	10	4
BT50-M08-150L-A5	251.8	150	12	112	38	31	15.4	8.5	M8*1.25P	5°	10	4.3
BT50-M08-200L-A5	301.8	200	12	162	38	40	15.4	8.5	M8*1.25P	5°	10	5
BT50-M08-250L-A5	351.8	250	12	212	38	48.5	15.4	8.5	M8*1.25P	5°	10	
BT50-M08-300L-A5	401.8	300	12	262	38	57.5	15.4	8.5	M8*1.25P	5°	10	
BT50-M10-60L-A4	161.8	60	12	22	38	20.5	19	10.5	M10*1.5P	4°	10	
BT50-M10-90L-A4	194.8	90	12	52	38	23	19	10.5	M10*1.5P	4°	10	3.9
BT50-M10-110L-A4	211.8	110	12	72	38	26	19	10.5	M10*1.5P	4°	10	4
BT50-M10-150L-A4	251.8	150	12	112	38	31.5	19	10.5	M10*1.5P	4°	10	4.3
BT50-M10-200L-A4	301.8	200	12	162	38	38.5	19	10.5	M10*1.5P	4°	10	4.7
BT50-M10-250L-A4	351.8	250	12	212	38	45.5	19	10.5	M10*1.5P	4°	10	
BT50-M10-300L-A4	401.8	300	12	262	38	52.5	19	10.5	M10*1.5P	4°	10	6.4
BT50-M12-60L-A4	161.8	60	12	22	38	25.5	24	12.5	M12*1.75P	4°	10	
BT50-M12-90L-A4	194.8	90	12	52	38	28	24	12.5	M12*1.75P	4°	10	4.2
BT50-M12-110L-A4	211.8	110	12	72	38	31	24	12.5	M12*1.75P	4°	10	4.1
BT50-M12-135L-A4	236.8	135	12	97	38	34.5	24	12.5	M12*1.75P	4°	10	4.3
BT50-M12-150L-A4	251.8	150	12	112	38	36.5	24	12.5	M12*1.75P	4°	10	4.6
BT50-M12-200L-A4	301.8	200	12	162	38	43.5	24	12.5	M12*1.75P	4°	10	5.2
BT50-M12-250L-A4	351.8	250	12	212	38	50.5	24	12.5	M12*1.75P	4°	10	5.8
BT50-M12-300L-A4	401.8	300	12	262	38	57.5	24	12.5	M12*1.75P	4°	10	7.2
BT50-M16-60L-A4	161.8	60	12	22	38	30.5	29	17	M16*2.0P	4°	10	
BT50-M16-90L-A4	194.8	90	12	52	38	33	29	17	M16*2.0P	4°	10	4
BT50-M16-110L-A4	211.8	110	12	72	38	36	29	17	M16*2.0P	4°	10	4.2
BT50-M16-135L-A4	236.8	135	12	97	38	39.5	29	17	M16*2.0P	4°	10	4.4
BT50-M16-150L-A4	251.8	150	12	112	38	41.5	29	17	M16*2.0P	4°	10	4.8
BT50-M16-200L-A4	301.8	200	12	162	38	48.5	29	17	M16*2.0P	4°	10	5.5
BT50-M16-250L-A4	351.8	250	12	212	38	55.5	29	17	M16*2.0P	4°	10	6.2
BT50-M16-300L-A4	401.8	300	12	262	38	62.5	29	17	M16*2.0P	4°	10	

BT-HGER HIGH SPEED ER COLLET CHUCK



P.O13



Model	L	L1	L2	L3	D1	D2	T	Range	KGS
BT30-HGER16-60L	108.4	60	38	22	30	30.5	TR22*1.5	3-10mm	
BT30-HGER16-75L	123.4	75	53	22	30	30.5	TR22*1.5	3-10mm	
BT30-HGER16-90L	138.4	90	68	22	30	30.5	TR22*1.5	3-10mm	
BT30-HGER16-120L	168.4	120	98	22	30	30.5	TR22*1.5	3-10mm	
BT30-HGER20-60L	108.4	60	38	22	32	32.5	TR26*1.5	3-13mm	
BT30-HGER20-75L	123.4	75	53	22	32	32.5	TR26*1.5	3-13mm	
BT30-HGER20-90L	138.4	90	68	22	32	32.5	TR26*1.5	3-13mm	
BT30-HGER20-120L	168.4	120	98	22	32	32.5	TR26*1.5	3-13mm	
BT30-HGER25-60L	108.4	60	38	22	40	40.5	TR32*1.5	3-16mm	
BT30-HGER25-75L	123.4	75	53	22	40	40.5	TR32*1.5	3-16mm	
BT30-HGER25-90L	138.4	90	68	22	40	40.5	TR32*1.5	3-16mm	
BT30-HGER25-120L	168.4	120	98	22	40	40.5	TR32*1.5	3-16mm	
BT30-HGER32-75L	123.4	75	53	22	50	45	TR40*1.5	3-20mm	
BT30-HGER32-90L	138.4	90	68	22	50	45	TR40*1.5	3-20mm	
BT30-HGER32-120L	168.4	120	98	22	50	45	TR40*1.5	3-20mm	
BT40-HGER16-75L	140.4	75	48	27	30	30.5	TR22*1.5	3-20mm	
BT40-HGER16-90L	155.4	90	63	27	30	30.5	TR22*1.5	3-10mm	
BT40-HGER16-120L	185.4	120	93	27	30	30.5	TR22*1.5	3-10mm	
BT40-HGER16-150L	215.4	150	123	27	30	30.5	TR22*1.5	3-10mm	
BT40-HGER20-75L	140.4	75	48	27	32	32.5	TR26*1.5	3-13mm	
BT40 HGER20 90L	166.1	90	63	27	32	32.6	TR26*1.6	3 13mm	
BT40-HGER20-120L	185.4	120	93	27	32	32.5	TR26*1.5	3-13mm	
BT40-HGER20-150L	215.4	150	123	27	32	32.5	TR26*1.5	3-13mm	
BT40-HGER25-75L	140.4	75	48	27	40	40.5	TR32*1.5	3-16mm	
BT40-HGER25-90L	155.4	90	63	27	40	40.5	TR32*1.5	3-16mm	
BT40-HGER25-120L	185.4	120	93	27	40	40.5	TR32*1.5	3-16mm	
BT40-HGER25-150L	215.4	150	123	27	40	40.5	TR32*1.5	3-16mm	
BT40-HGER32-75L	140.4	75	48	27	50	50.5	TR40*1.5	3-20mm	
BT40-HGER32-90L	155.4	90	63	27	50	50.5	TR40*1.5	3-20mm	
BT40-HGER32-120L	185.4	120	93	27	50	50.5	TR40*1.5	3-20mm	
BT40-HGER32-150L	215.4	150	123	27	50	50.5	TR40*1.5	3-20mm	
BT50-HGER16-105L	206.8	105	67	38	30	30.5	TR22*1.5	3-10mm	
BT50-HGER16-135L	236.8	135	97	38	30	30.5	TR22*1.5	3-10mm	
BT50-HGER16-165L	266.8	165	127	38	30	30.5	TR22*1.5	3-10mm	
BT50-HGER20-105L	206.8	105	67	38	32	32.5	TR26*1.5	3-13mm	
BT50-HGER20-135L	236.8	135	97	38	32	32.5	TR26*1.5	3-13mm	
BT50-HGER20-165L	266.8	165	127	38	32	32.5	TR26*1.5	3-13mm	
BT50-HGER25-105L	206.8	105	67	38	40	40.5	TR32*1.5	3-16mm	
BT50-HGER25-135L	236.8	135	97	38	40	40.5	TR32*1.5	3-16mm	
BT50-HGER25-165L	266.8	165	127	38	40	40.5	TR32*1.5	3-16mm	
BT50-HGER25-200L	301.8	200	162	38	40	40.5	TR32*1.5	3-16mm	
BT50-HGER32-105L	206.8	105	67	38	50	50.5	TR40*1.5	3-20mm	
BT50-HGER32-135L	236.8	135	97	38	50	50.5	TR40*1.5	3-20mm	
BT50-HGER32-165L	266.8	165	127	38	50	50.5	TR40*1.5	3-20mm	
BT50-HGER32-200L	301.8	200	162	38	50	50.5	TR40*1.5	3-20mm	



NC tools

BT30/ 40-FMH FACE MILL HOLDER-COOLANT



FIG. 1

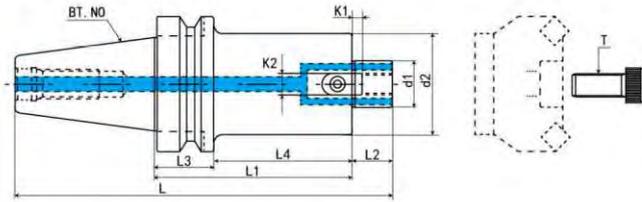
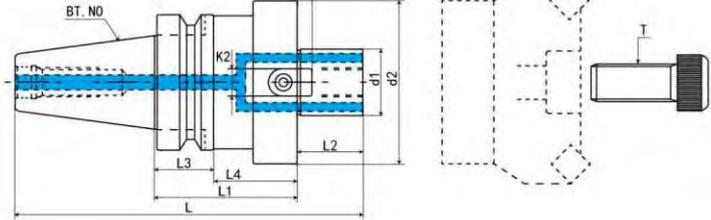


FIG. 2



P.O13

Model	L1	L	L2	L3	L4	d	d2	K1	K2	M	FIG	KGS
BT30-FMH16-60L	60	125.4	17	27	33	16	38	3.2	8	M8*1.25P	1	0.5
BT30-FMH22-45L	45	111.4	18	27	18	22	48	4.8	10	M10*1.5P	1	0.75
BT30-FMH22-60L	60	126.4	18	27	33	22	48	4.8	10	M10*1.5P	1	1.5
BT30-FMH27-45L	45	113.4	20	27	18	27	58	5.8	12	M12*1.75P	2	1.45
BT30-FMH27-60L	60	128.4	20	27	33	27	58	5.8	12	M12*1.75P	2	1.45
BT30-FMH32-45L	45	115.4	22	27	18	32	63	6.8	14	M16*2.0P	2	1.5
BT30-FMH32-60L	60	130.4	22	27	33	32	63	6.8	14	M16*2.0P	2	1.6
BT30-FMH40-60L	60	133.4	25	27	33	40	63	6.8	14	M16*2.0P	2	1.8
BT40-FMH16-60L	60	142.4	17	27	33	16	38	3.2	8	M8*1.25P	1	1.3
BT40-FMH16-100L	100	182.4	17	27	73	16	38	3.2	8	M8*1.25P	1	1.4
BT40-FMH22-60L	60	143.4	18	27	33	22	48	4.8	10	M10*1.5P	1	1.5
BT40-FMH22-100L	100	183.4	18	27	73	22	48	4.8	10	M10*1.5P	1	2.05
BT40-FMH22-150L	150	233.4	18	27	123	22	48	4.8	10	M10*1.5P	1	2.75
BT40-FMH22-200L	200	283.4	18	27	173	22	48	4.8	10	M10*1.5P	1	3.6
BT40-FMH22-250L	250	333.4	18	27	223	22	48	4.8	10	M10*1.5P	1	4.25
BT40-FMH22-300L	300	383.4	18	27	273	22	48	4.8	10	M10*1.5P	1	4.9
BT40-FMH22-350L	350	433.4	18	27	323	22	48	4.8	10	M10*1.5P	1	5.65
BT40-FMH22-400L	400	483.4	18	27	373	22	48	4.8	10	M10*1.5P	1	6.4
BT40-FMH22-450L	450	533.4	18	27	423	22	48	4.8	10	M10*1.5P	1	7.15
BT40-FMH22-500L	500	583.4	18	27	473	22	48	4.8	10	M10*1.5P	1	7.9
BT40-FMH27-60L	60	145.4	20	27	33	27	58	5.8	12	M12*1.75P	1	2.35
BT40-FMH27-100L	100	185.4	20	27	73	27	58	5.8	12	M12*1.75P	1	3.1
BT40-FMH27-150L	150	235.4	20	27	123	27	58	5.8	12	M12*1.75P	1	3.9
BT40-FMH27-200L	200	285.4	20	27	173	27	58	5.8	12	M12*1.75P	1	4.8
BT40-FMH27-250L	250	335.4	20	27	223	27	58	5.8	12	M12*1.75P	1	5.7
BT40-FMH27-300L	300	385.4	20	27	273	27	58	5.8	12	M12*1.75P	1	6.6
BT40-FMH32-60L	60	147.4	22	27	33	32	63	6.8	14	M16*2.0P	2	1.9
BT40-FMH32-100L	100	187.4	22	27	73	32	63	6.8	14	M16*2.0P	2	2.8
BT40-FMH32-150L	150	237.4	22	27	123	32	63	6.8	14	M16*2.0P	2	3.6
BT40-FMH32-200L	200	287.4	22	27	173	32	63	6.8	14	M16*2.0P	2	4.2
BT40-FMH40-60L	60	150.4	25	27	33	40	74	8.3	16	M16*2.0P	2	2.8
BT40-FMH40-100L	100	190.4	25	27	73	40	74	8.3	16	M16*2.0P	2	3.6
BT40-FMH40-150L	150	240.4	25	27	123	40	74	8.3	16	M16*2.0P	2	4.9
BT40-FMH40-200L	200	290.4	25	27	173	40	74	8.3	16	M16*2.0P	2	6.2

BT50-FMH FACE MILL HOLDER-COOLANT TYPE



P.O13

FIG. 1

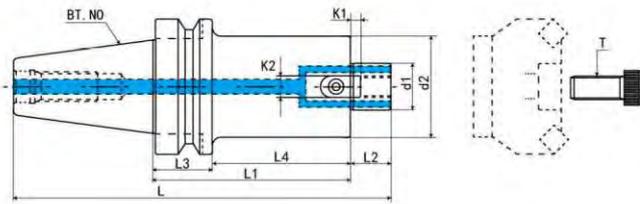
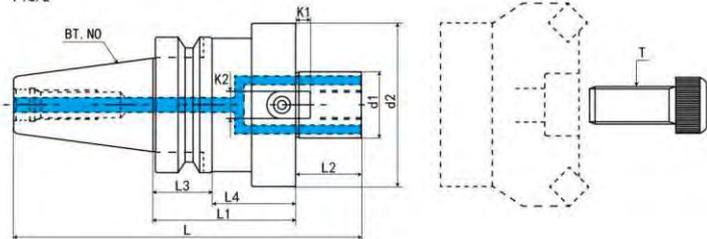


FIG. 2



Model	L1	L	L2	L3	L4	d	d2	K1	K2	M	FIG	KGS
BT50-FMH16-60L	60	178.8	17	38	22	16	38	3.2	8	M8*1.25P	1	4
BT50-FMH16-100L	100	218.8	17	38	62	16	38	3.2	8	M8*1.25P	1	4.2
BT50-FMH16-150L	150	268.8	17	38	112	16	38	3.2	8	M8*1.25P	1	4.5
BT50-FMH22-60L	60	179.8	18	38	22	22	48-60	4.8	10	M10*1.5P	1	4.6/4.8
BT50-FMH22-100L	100	219.8	18	38	62	22	48-60	4.8	10	M10*1.5P	1	4.55/5.9
BT50-FMH22-150L	150	269.8	18	38	112	22	48-60	4.8	10	M10*1.5P	1	5.25/5.9
BT50-FMH22-200L	200	319.8	18	38	162	22	48-60	4.8	10	M10*1.5P	1	6/7.05
BT50-FMH22-250L	250	369.8	18	38	212	22	48-60	4.8	10	M10*1.5P	1	7/8.4
BT50-FMH22-300L	300	419.8	18	38	262	22	48-60	4.8	10	M10*1.5P	1	7.7/9.45
BT50-FMH22-350L	350	469.8	18	38	312	22	48-60	4.8	10	M10*1.5P	1	8.4/10.5
BT50-FMH22-400L	400	519.8	18	38	362	22	48-60	4.8	10	M10*1.5P	1	9.2/12
BT50-FMH22-450L	450	569.8	18	38	412	22	48-60	4.8	10	M10*1.5P	1	10/13.25
BT50-FMH22-500L	500	619.8	18	38	462	22	48-60	4.8	10	M10*1.5P	1	11.2/15.6
BT50-FMH22-550L	550	669.8	18	38	512	22	48-60	4.8	10	M10*1.5P	1	15.2/16.95
BT50-FMH22-600L	600	719.8	18	38	562	22	48-60	4.8	10	M10*1.5P	1	16.2/18
BT50-FMH22-650L	650	769.8	18	38	612	22	48-60	4.8	10	M10*1.5P	1	19.5/22
BT50-FMH22-700L	700	819.8	18	38	662	22	48-60	4.8	10	M10*1.5P	1	23/25
BT50-FMH27-60L	60	181.8	20	38	22	27	60	5.8	12	M12*1.75P	1	4.5
BT50-FMH27-100L	100	221.8	20	38	62	27	60	5.8	12	M12*1.75P	1	4.8
BT50-FMH27-150L	150	271.8	20	38	112	27	60	5.8	12	M12*1.75P	1	6.05
BT50-FMH27-200L	200	321.8	20	38	162	27	60	5.8	12	M12*1.75P	1	6.9
BT50-FMH27-250L	250	371.8	20	38	212	27	60	5.8	12	M12*1.75P	1	8.4
BT50-FMH27-300L	300	421.8	20	38	262	27	60	5.8	12	M12*1.75P	1	9.5
BT50-FMH27-350L	350	471.8	20	38	312	27	60	5.8	12	M12*1.75P	1	10.5
BT50-FMH27-400L	400	521.8	20	38	362	27	60	5.8	12	M12*1.75P	1	12
BT50-FMH27-450L	450	571.8	20	38	412	27	60	5.8	12	M12*1.75P	1	13.5
BT50-FMH27-500L	500	621.8	20	38	462	27	60	5.8	12	M12*1.75P	1	15



NC tools

BT50-FMH FACE MILL HOLDER-COOLANT TYPE



P.O13

FIG. 1

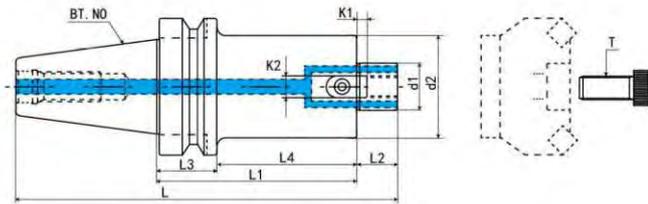
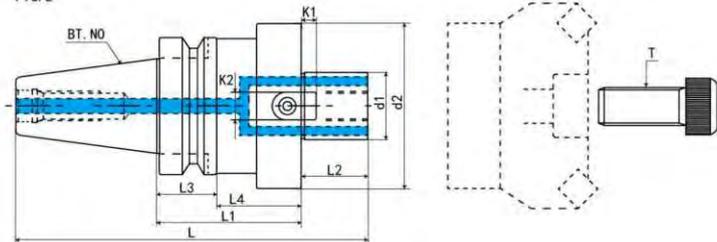


FIG. 2



Model	L1	L	L2	L3	L4	d	d2	K1	K2	M	FIG	KGS
BT50-FMH32-60L	60	183.8	22	38	22	32	70	6.8	14	M16*2.0P	1	4.65
BT50-FMH32-100L	100	223.8	22	38	62	32	70	6.8	14	M16*2.0P	1	5.6
BT50-FMH32-150L	150	273.8	22	38	112	32	70	6.8	14	M16*2.0P	1	7.85
BT50-FMH32-200L	200	323.8	22	38	162	32	70	6.8	14	M16*2.0P	1	9.75
BT50-FMH32-250L	250	373.8	22	38	212	32	70	6.8	14	M16*2.0P	1	12
BT50-FMH32-300L	300	423.8	22	38	262	32	70	6.8	14	M16*2.0P	1	15
BT50-FMH32-350L	350	473.8	22	38	312	32	70	6.8	14	M16*2.0P	1	16.5
BT50-FMH32-400L	400	523.8	22	38	362	32	70	6.8	14	M16*2.0P	1	18
BT50-FMH32-450L	450	573.8	22	38	412	32	70	6.8	14	M16*2.0P	1	18.5
BT50-FMH32-500L	500	623.8	22	38	462	32	70	6.8	14	M16*2.0P	1	20
BT50-FMH40-60L	60	186.8	25	38	22	40	80	8.3	16	M16*2.0P	1	5.5
BT50-FMH40-100L	100	226.8	25	38	62	40	80	8.3	16	M16*2.0P	1	6.7
BT50-FMH40-150L	150	276.8	25	38	112	40	80	8.3	16	M16*2.0P	1	7.5
BT50-FMH40-200L	200	326.8	25	38	162	40	80	8.3	16	M16*2.0P	1	10.75
BT50-FMH40-250L	250	376.8	25	38	212	40	80	8.3	16	M16*2.0P	1	12.75
BT50-FMH40-300L	300	426.8	25	38	262	40	80	8.3	16	M16*2.0P	1	14.75
BT50-FMH40-350L	350	476.8	25	38	312	40	80	8.3	16	M16*2.0P	1	16.75
BT50-FMH40-400L	400	526.8	25	38	362	40	80	8.3	16	M16*2.0P	1	18.75
BT50-FMH40-450L	450	576.8	25	38	412	40	80	8.3	16	M16*2.0P	1	20.8
BT50-FMH40-500L	500	626.8	25	38	462	40	80	8.3	16	M16*2.0P	1	22.8
BT50-FMH60-75L	75	198.8	25	38	37	60	128.5	12.5	25.4	M16*2.0P	2	8.5
BT50-FMH60-100L	100	223.8	25	38	62	60	128.5	12.5	25.4	M16*2.0P	2	10
BT50-FMH60-150L	150	273.8	25	38	112	60	128.5	12.5	25.4	M16*2.0P	2	13.5

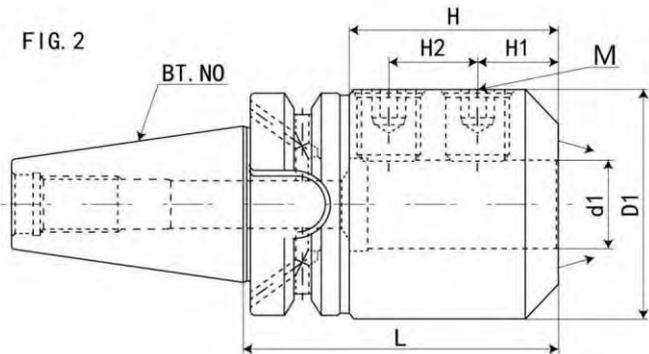
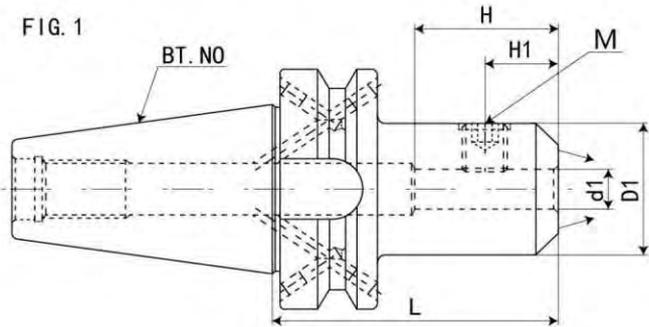


NC tools

BT-EMH JETTING END MILL HOLDER



P.O13

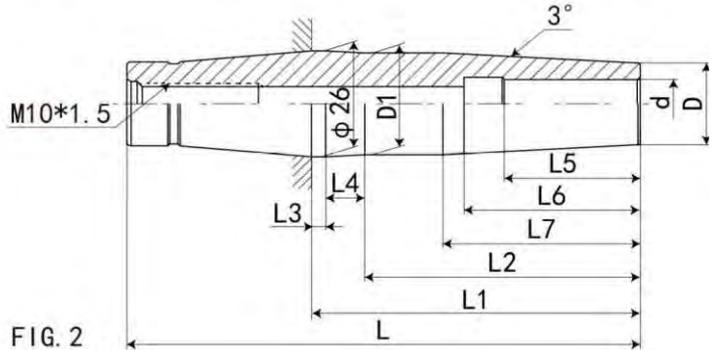
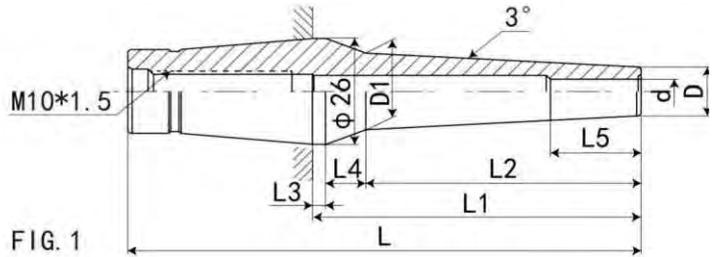
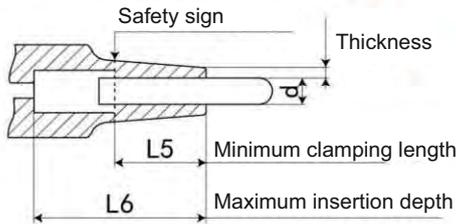


Model	d1	D1	L	H	H1	FIG	M	KGS
BT40AD/B-EMH6C-50	6	25	50	35	18	1	M6*1.0P	1
BT40AD/B-EMH8C-50	8	28	50	35	18	1	M8*1.25P	1
BT40AD/B-EMH10C-63	10	35	63	35.5	20	1	M10*1.5P	1.1
BT40AD/B-EMH12C-63	12	42	63	36	22.5	1	M12*1.75P	1.3
BT40AD/B-EMH14C-63	14	44	63	36	22.5	1	M12*1.75P	1.4
BT40AD/B-EMH16C-63	16	48	63	46	24	1	M14*2.0P	1.7
BT40AD/B-EMH18C-63	18	50	63	46	24	1	M14*2.0P	1.7
BT40AD/B-EMH20C-63	20	52	63	48	25	1	M16*2.0P	1.8
BT40AD/B-EMH25C-90	25	65	90	55	25	2	M18*2.5P	1.8
BT40AD/B-EMH32C-100	32	72	100	57	28	2	M20*2.5P	2
BT50AD/B-EMH6C-63	6	25	63	35	18	1	M6*1.0P	3.3
BT50AD/B-EMH8C-63	8	28	63	35	18	1	M8*1.25P	3.6
BT50AD/B-EMH10C-65	10	35	65	35.5	20	1	M10*1.5P	3.8
BT50AD/B-EMH12C-80	12	42	80	36	22.5	1	M12*1.75P	3.8
BT50AD/B-EMH14C-80	14	44	80	36	22.5	1	M12*1.75P	4
BT50AD/B-EMH16C-80	16	48	80	46	24	1	M14*2.0P	4
BT50AD/B-EMH18C-80	18	50	80	46	24	1	M14*2.0P	4.2
BT50AD/B-EMH20C-80	20	52	80	48	25	1	M16*2.0P	4.2
BT50AD/B-EMH25C-100	25	65	100	55	25	2	M18*2.5P	4.6
BT50AD/B-EMH32C-105	32	72	105	57	28	2	M20*2.5P	4.7
BT50AD/B-EMH40C-120	40	90	120	68	32	2	M20*2.5P	4.9



NC tools

HEAT SHRINKABLE EXTENSION ROD (THIN WALL STYLE)



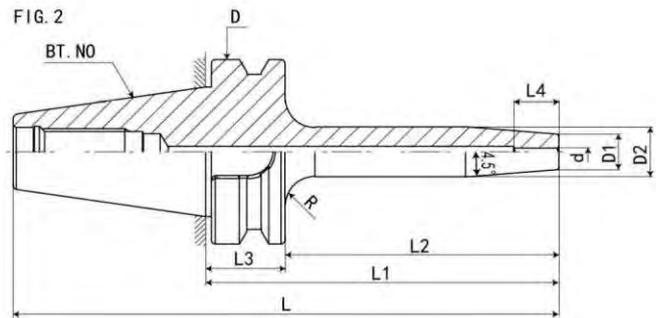
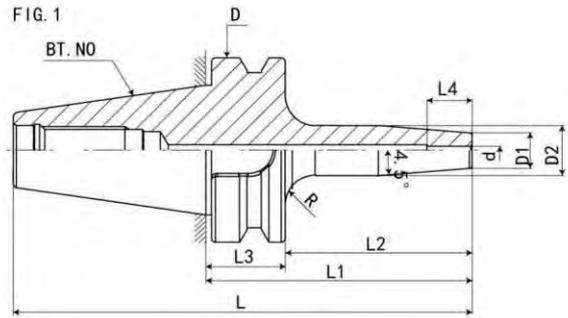
Model	L	L1	L2	L3	L4	L5	L6	L7	D	D1	d	t	FIG	KGS
CS12-3-35	80	35	22	3.5	9.5	12	-	-	6	8.4	3	1.5	1	0.2
CS12-3-55	100	55	42	3.5	9.5	12	-	-	6	10.5	3	1.5	1	0.2
CS12-3-80	125	80	67	3.5	9.5	12	-	-	6	13.1	3	1.5	1	0.2
CS12-3-110	155	110	97	3.5	9.5	12	-	-	6	16.2	3	1.5	1	0.25
CS12-4-35	80	35	22	3.5	9.5	16	-	-	7	9.4	4	1.5	1	0.2
CS12-4-55	100	55	42	3.5	9.5	16	-	-	7	11.5	4	1.5	1	0.2
CS12-4-80	125	80	67	3.5	9.5	16	-	-	7	14.1	4	1.5	1	0.2
CS12-4-110	155	110	97	3.5	9.5	16	-	-	7	17.2	4	1.5	1	0.25
CS12-5-35	80	35	22	3.5	9.5	18	-	-	8	10.4	5	1.5	1	0.2
CS12-5-55	100	55	42	3.5	9.5	18	-	-	8	12.5	5	1.5	1	0.2
CS12-5-80	125	80	67	3.5	9.5	18	-	-	8	15.1	5	1.5	1	0.2
CS12-5-110	155	110	97	3.5	9.5	18	-	-	8	18.2	5	1.5	1	0.25
CS12-6-35	80	35	22	3.5	9.5	23	-	-	9	11.4	6	1.5	1	0.2
CS12-6-55	100	55	42	3.5	9.5	23	-	-	9	13.5	6	1.5	1	0.2
CS12-6-80	125	80	67	3.5	9.5	23	-	-	9	16.1	6	1.5	1	0.2
CS12-6-110	155	110	97	3.5	9.5	23	-	-	9	19.2	6	1.5	1	0.25
CS12-7-35	80	35	22	3.5	9.5	25	-	-	10	12.4	7	1.5	1	0.2
CS12-7-55	100	55	42	3.5	9.5	25	-	-	10	14.5	7	1.5	1	0.2
CS12-7-80	125	80	67	3.5	9.5	25	-	-	10	17.1	7	1.5	1	0.2
CS12-7-110	155	110	97	3.5	9.5	25	-	-	10	20.2	7	1.5	1	0.25
CS12-8-35	80	35	22	3.5	9.5	27	-	-	11	13.4	8	1.5	1	0.2
CS12-8-55	100	55	42	3.5	9.5	27	-	-	11	15.5	8	1.5	1	0.2
CS12-8-80	125	80	67	3.5	9.5	27	-	-	11	18.1	8	1.5	1	0.2
CS12-8-110	155	110	97	3.5	9.5	27	-	-	11	21.2	8	1.5	1	0.25
CS12-9-35	80	35	22	3.5	9.5	29	42	-	12	14.4	9	1.5	1	0.2
CS12-9-55	100	55	42	3.5	9.5	29	42	-	12	16.5	9	1.5	1	0.2
CS12-9-80	125	80	67	3.5	9.5	29	42	-	12	19.1	9	1.5	1	0.2
CS12-9-110	155	110	97	3.5	9.5	29	42	-	12	22.2	9	1.5	1	0.25
CS12-10-35	80	35	22	3.5	9.5	32	42	-	13	15.4	10	1.5	1	0.2
CS12-10-55	100	55	42	3.5	9.5	32	42	-	13	17.5	10	1.5	1	0.2
CS12-10-80	125	80	67	3.5	9.5	32	42	-	13	20.1	10	1.5	1	0.2
CS12-10-110	155	110	97	3.5	9.5	32	42	-	13	23.2	10	1.5	1	0.25
CS12-11-35	80	35	22	3.5	9.5	34	44	-	14	16.4	11	1.5	1	0.2
CS12-11-55	100	55	42	3.5	9.5	34	44	-	14	18.5	11	1.5	1	0.2
CS12-11-80	125	80	67	3.5	9.5	34	44	-	14	21.1	11	1.5	1	0.2
CS12-11-110	155	110	97	3.5	9.5	34	44	-	14	24.2	11	1.5	1	0.25
CS12-12-35	80	35	22	3.5	9.5	37	48	-	15	17.4	12	1.5	1	0.2
CS12-12-55	100	55	42	3.5	9.5	37	48	-	15	19.5	12	1.5	1	0.2
CS12-12-80	125	80	67	3.5	9.5	37	48	-	15	22.1	12	1.5	1	0.2
CS12-12-110	155	110	97	3.5	9.5	37	48	95	15	25	12	1.5	2	0.25

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BT30-SF SHRINK FIT TOOL HOLDER (4.5° STANDARD VERSION)



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Model	L	L1	L2	L3	L4	D	D1	D2	d	R	FIG	KGS
BT30-SF03-80L	128.4	80	58	22	15	46	12	17	3	5	0	0.6
BT30-SF04-80L	128.4	80	58	22	17	46	12	17	4	5	0	0.6
BT30-SF04-120L	168.4	120	98	22	17	46	12	17	4	5	0	0.7
BT30-SF05-80L	128.4	80	58	22	17	46	12	17	5	5	0	0.6
BT30-SF05-120L	168.4	120	98	22	17	46	12	17	5	5	0	0.7

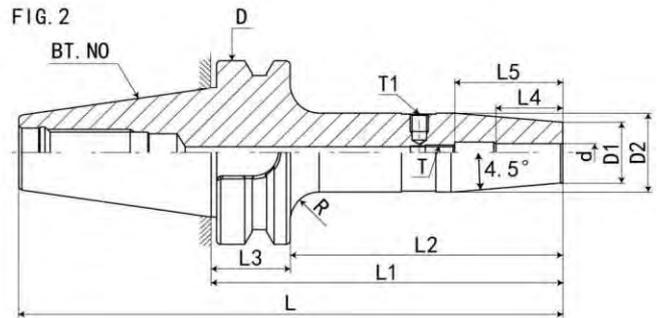
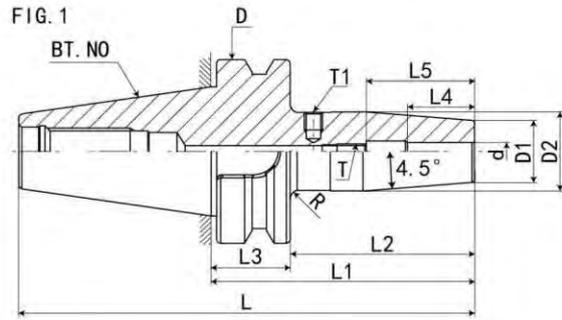


NC tools

BT30-SF SHRINK FIT TOOL HOLDER (4.5° STANDARD VERSION)



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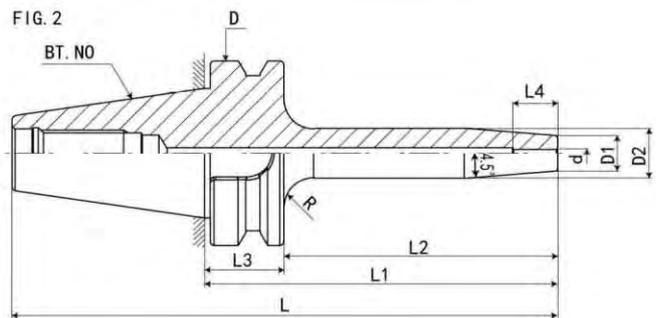
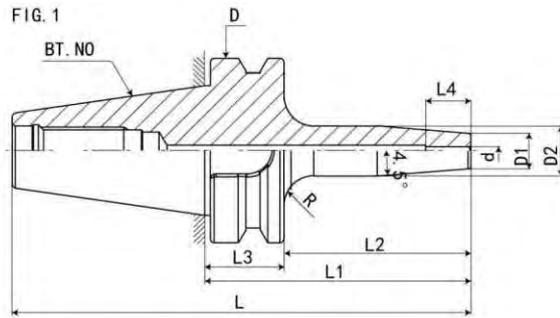


Model	L	L1	L2	L3	L4	L5	D	D1	D2	d	T	T1	R	FIG	KGS
BT30-SF06-80L	128.4	80	58	22	23	37	46	21	27	6	M5*0.8P	M6*1.0P	3	1	0.7
BT30-SF06-120L	168.4	120	98	22	23	37	46	21	27	6	M5*0.8P	M6*1.0P	5	2	0.9
BT30-SF08-80L	128.4	80	58	22	27	37	46	21	27	8	M6*1.0P	M6*1.0P	3	1	0.7
BT30-SF08-120L	168.4	120	98	22	27	37	46	21	27	8	M6*1.0P	M6*1.0P	5	2	0.9
BT30-SF10-80L	128.4	80	58	22	32	42	46	24	32	10	M8*1.0P	M6*1.0P	1	1	0.8
BT30-SF10-120L	168.4	120	98	22	32	42	46	24	32	10	M8*1.0P	M6*1.0P	4	2	1.1
BT30-SF12-80L	128.4	80	58	22	37	48	46	24	32	12	M10*1.0P	M6*1.0P	1	1	0.8
BT30-SF12-120L	168.4	120	98	22	37	48	46	24	32	12	M10*1.0P	M6*1.0P	4	2	1.1
BT30-SF14-80L	128.4	80	58	22	37	48	46	27	34	14	M10*1.0P	M6*1.0P	1	1	0.8
BT30-SF14-120L	168.4	120	98	22	37	48	46	27	34	14	M10*1.0P	M6*1.0P	3	2	1.1
BT30-SF16-90L	138.4	90	68	22	40	51	46	27	34	16	M12*1.0P	M6*1.0P	1	1	0.8
BT30-SF16-120L	168.4	120	98	22	40	51	46	27	34	16	M12*1.0P	M6*1.0P	3	2	1.1
BT30-SF18-90L	138.4	90	68	22	40	51	46	33	41	18	M12*1.0P	M6*1.0P	1	1	1
BT30-SF18-120L	168.4	120	98	22	40	51	46	33	42	18	M12*1.0P	M6*1.0P	1	2	1.5
BT30-SF20-90L	138.4	90	68	22	42	53	46	33	41	20	M16*1.0P	M6*1.0P	1	1	1
BT30-SF20-120L	168.4	120	98	22	42	53	46	33	42	20	M16*1.0P	M6*1.0P	1	2	1.5

BT40-SF SHRINK FIT TOOL HOLDER (4.5° STANDARD VERSION)



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Model	L	L1	L2	L3	L4	D	D1	D2	d	R	FIG	KGS
BT40-SF03-90L	155.4	90	63	27	15	63	12	17	3	5	0	1.1
BT40-SF03-120L	185.4	120	93	27	15	63	12	17	3	5	0	1.2
BT40-SF03-160L	225.4	160	133	27	15	63	12	17	3	5	0	1.3
BT40-SF04-90L	155.4	90	63	27	17	63	12	17	4	5	0	1.1
BT40-SF04-120L	185.4	120	93	27	17	63	12	17	4	5	0	1.2
BT40-SF04-160L	225.4	160	133	27	17	63	12	17	4	5	0	1.3
BT40-SF05-90L	155.4	90	63	27	17	63	12	17	5	5	0	1.1
BT40-SF05-120L	185.4	120	93	27	17	63	12	17	5	5	0	1.2
BT40-SF05-160L	225.4	160	133	27	17	63	12	17	5	5	0	1.3

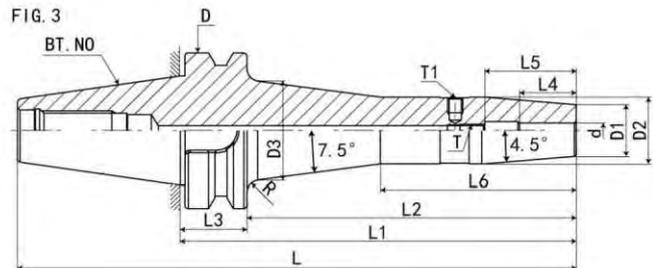
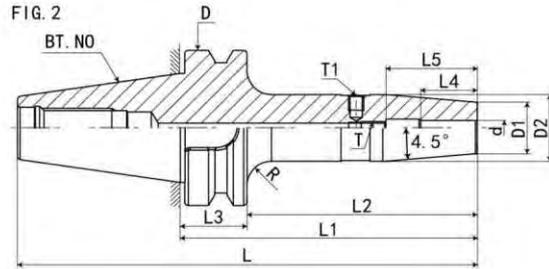
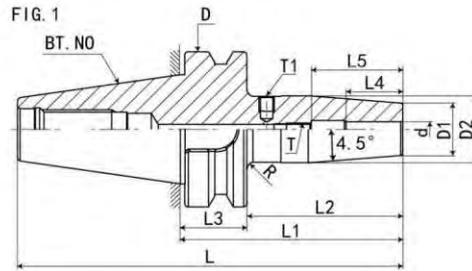


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BT40-SF SHRINK FIT TOOL HOLDER (4.5° STANDARD VERSION)



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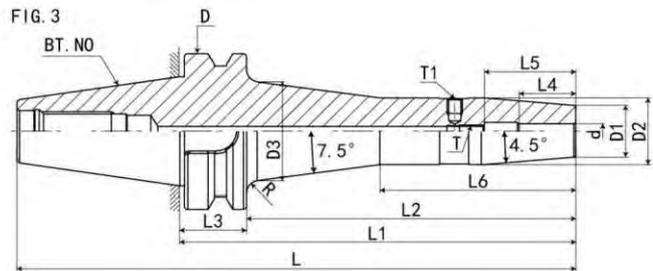
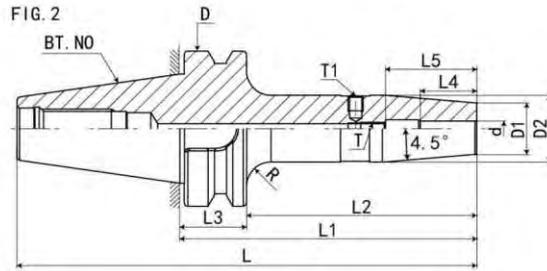
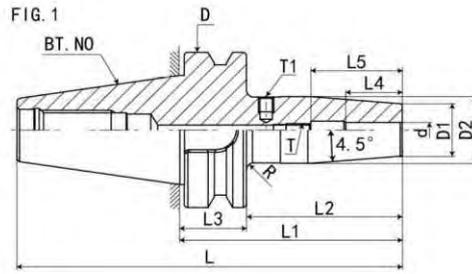


Model	L	L1	L2	L3	L4	L5	L6	D	D1	D2	D3	d	T	T1	R	FIG	KGS
BT40-SF06-90L	155.4	90	63	27	23	37	-	63	21	27	-	6	M5*0.8P	M6*1.0P	5	1	1.2
BT40-SF06-120L	185.4	120	93	27	23	37	-	63	21	27	-	6	M5*0.8P	M6*1.0P	10	2	1.5
BT40-SF06-160L	225.4	160	133	27	23	37	78	63	21	27	41	6	M5*0.8P	M6*1.0P	5	3	1.8
BT40-SF06-200L	265.4	200	173	27	23	37	78	63	21	27	41	6	M5*0.8P	M6*1.0P	5	3	2.2
BT40-SF08-90L	155.4	90	63	27	27	37	-	63	21	27	-	8	M6*1.0P	M6*1.0P	5	1	1.2
BT40-SF08-120L	185.4	120	93	27	27	37	-	63	21	27	-	8	M6*1.0P	M6*1.0P	10	2	1.5
BT40-SF08-160L	225.4	160	133	27	27	37	78	63	21	27	41	8	M6*1.0P	M6*1.0P	5	3	1.8
BT40-SF08-200L	265.4	200	173	27	27	37	78	63	21	27	41	8	M6*1.0P	M6*1.0P	5	3	2.2
BT40-SF10-90L	155.4	90	63	27	32	42	-	63	24	32	-	10	M8*1.0P	M6*1.0P	2	1	1.3
BT40-SF10-120L	185.4	120	93	27	32	42	-	63	24	32	-	10	M8*1.0P	M6*1.0P	10	2	1.6
BT40-SF10-160L	225.4	160	133	27	32	42	78	63	24	32	46	10	M8*1.0P	M6*1.0P	5	3	1.9
BT40-SF10-200L	265.4	200	173	27	32	42	78	63	24	32	46	10	M8*1.0P	M6*1.0P	5	3	2.3
BT40-SF12-90L	155.4	90	63	27	37	48	-	63	24	32	-	12	M10*1.0P	M6*1.0P	2	1	1.3
BT40-SF12-120L	185.4	120	93	27	37	48	-	63	24	32	-	12	M10*1.0P	M6*1.0P	10	2	1.6
BT40-SF12-160L	225.4	160	133	27	37	48	78	63	24	32	46	12	M10*1.0P	M6*1.0P	5	3	1.9
BT40-SF12-200L	265.4	200	173	27	37	48	78	63	24	32	46	12	M10*1.0P	M6*1.0P	5	3	2.3
BT40-SF14-90L	155.4	90	63	27	37	48	-	63	27	34	-	14	M10*1.0P	M6*1.0P	4	1	1.3
BT40-SF14-120L	185.4	120	93	27	37	48	-	63	27	34	-	14	M10*1.0P	M6*1.0P	10	2	1.6
BT40-SF14-160L	225.4	160	133	27	37	48	78	63	27	34	48	14	M10*1.0P	M6*1.0P	3	3	1.9
BT40-SF14-200L	265.4	200	173	27	37	48	78	63	27	34	48	14	M10*1.0P	M6*1.0P	3	3	2.3

BT40-SF SHRINK FIT TOOL HOLDER (4.5° STANDARD VERSION)



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Model	L	L1	L2	L3	L4	L5	L6	D	D1	D2	D3	d	T	T1	R	FIG	KGS
BT40-SF16-90L	155.4	90	63	27	40	51	-	63	27	34	-	16	M12*1.0P	M6*1.0P	3	1	1.3
BT40-SF16-120L	185.4	120	93	27	40	51	-	63	27	34	-	16	M12*1.0P	M6*1.0P	10	2	1.6
BT40-SF16-160L	225.4	160	133	27	40	51	78	63	27	34	48	16	M12*1.0P	M6*1.0P	3	3	1.9
BT40-SF16-200L	265.4	200	173	27	40	51	-	63	27	34	48	16	M12*1.0P	M6*1.0P	3	3	2.3
BT40-SF18-90L	155.4	90	63	27	40	51	-	63	33	41	-	18	M12*1.0P	M6*1.0P	2	1	1.4
BT40-SF18-120L	185.4	120	93	27	40	51	-	63	33	42	-	18	M12*1.0P	M6*1.0P	5	2	1.8
BT40-SF18-160L	225.4	160	133	27	40	51	-	63	33	42	-	18	M12*1.0P	M6*1.0P	5	2	2.1
BT40-SF18-200L	265.4	200	173	27	40	51	-	63	33	42	-	18	M12*1.0P	M6*1.0P	5	2	2.4
BT40-SF20-90L	155.4	90	63	27	42	50	-	63	33	41	-	20	M16*1.0P	M6*1.0P	2	1	1.4
BT40-SF20-120L	185.4	120	93	27	42	50	-	63	33	42	-	20	M16*1.0P	M6*1.0P	5	2	1.8
BT40-SF20-160L	225.4	160	133	27	42	50	-	63	33	42	-	20	M16*1.0P	M6*1.0P	5	2	2.1
BT40-SF20-200L	265.4	200	173	27	42	50	-	63	33	42	-	20	M16*1.0P	M6*1.0P	5	2	2.4
BT40-SF25-100L	155.4	90	63	27	48	59	-	63	44	53	-	25	M16*1.0P	M6*1.0P	2	1	2.1
BT40-SF25-120L	185.4	120	93	27	48	59	-	63	44	53	-	25	M16*1.0P	M6*1.0P	2	2	2.3
BT40-SF25-160L	225.4	160	133	27	48	59	-	63	44	53	-	25	M16*1.0P	M6*1.0P	2	2	2.6
BT40-SF25-200L	265.4	200	173	27	48	59	-	63	44	53	-	25	M16*1.0P	M6*1.0P	2	2	3.1
BT40-SF32-100L	155.4	90	63	27	52	61	-	63	44	53	-	32	M16*1.0P	M6*1.0P	2	1	2.1
BT40-SF32-120L	185.4	120	93	27	52	61	-	63	44	53	-	32	M16*1.0P	M6*1.0P	2	2	2.3
BT40-SF32-160L	225.4	160	133	27	52	61	-	63	44	53	-	32	M16*1.0P	M6*1.0P	2	2	2.6
BT40-SF32-200L	265.4	200	173	27	52	61	-	63	44	53	-	32	M16*1.0P	M6*1.0P	2	2	3.1

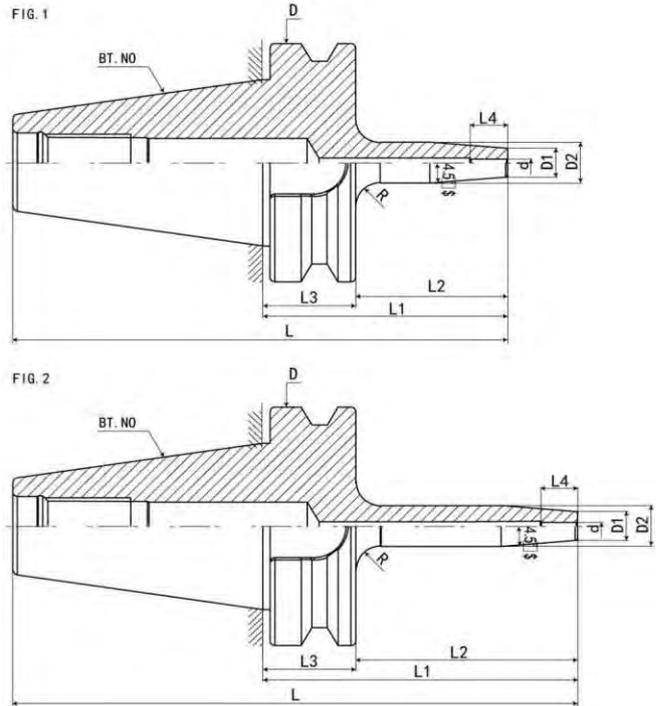


NC tools

BT50-SF SHRINK FIT TOOL HOLDER (4.5° STANDARD VERSION)



P.O13



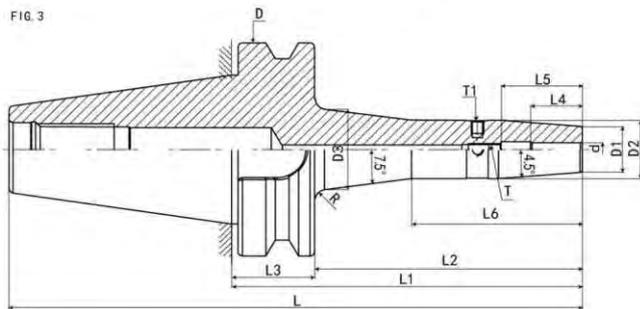
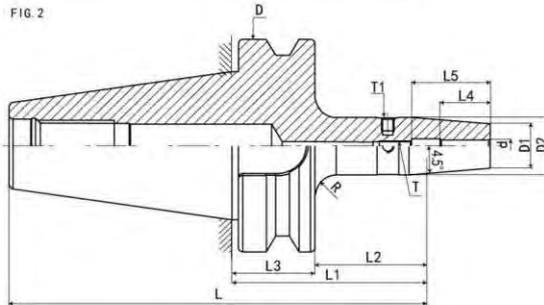
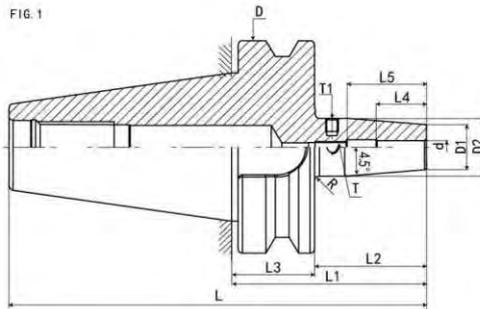
Model	L	L1	L2	L3	L4	D	D1	D2	d	FIG	KGS
BT50-SF03-100L	201.8	100	62	38	12	100	12	17	3	1	3.7
BT50-SF03-120L	221.8	120	82	38	12	100	12	20	3	2	3.9
BT50-SF03-160L	261.8	160	122	38	12	100	12	20	3	2	4.2
BT50-SF04-100L	201.8	100	62	38	16	100	12	17	4	1	3.7
BT50-SF04-120L	221.8	120	82	38	16	100	15	22	4	2	3.9
BT50-SF04-160L	261.8	160	122	38	16	100	15	22	4	2	4.2
BT50-SF05-100L	201.8	100	62	38	18	100	12	17	5	1	3.7
BT50-SF05-120L	221.8	120	82	38	18	100	15	22	5	2	3.9
BT50-SF05-160L	261.8	160	122	38	18	100	15	22	5	2	4.2

NC tools

BT50-SF SHRINK FIT TOOL HOLDER (4.5° STANDARD VERSION)



P.O13



Model	L	L1	L2	L3	L4	L5	L6	D	D1	D2	D3	d	T	T1	FIG	KGS
BT50-SF06-100L	201.8	100	62	38	23	37	-	100	21	27	-	6	M5*0.8P	M6*1.0P	1	3.7
BT50-SF06-120L	221.8	120	82	38	23	37	-	100	21	27	-	6	M5*0.8P	M6*1.0P	2	3.9
BT50-SF06-160L	261.8	160	122	38	23	37	78	100	21	27	41	6	M5*0.8P	M6*1.0P	3	4.2
BT50-SF06-200L	301.8	200	162	38	23	37	118	100	21	27	41	6	M5*0.8P	M6*1.0P	3	5.8
BT50-SF08-100L	201.8	100	62	38	27	37	-	100	21	27	-	8	M6*1.0P	M6*1.0P	1	3.8
BT50-SF08-120L	221.8	120	82	38	27	37	-	100	21	27	-	8	M6*1.0P	M6*1.0P	2	3.9
BT50-SF08-160L	261.8	160	122	38	27	37	78	100	21	27	41	8	M6*1.0P	M6*1.0P	3	4.2
BT50-SF08-200L	301.8	200	162	38	27	37	118	100	21	27	41	8	M6*1.0P	M6*1.0P	3	5.8
BT50-SF10-100L	201.8	100	62	38	32	42	-	100	24	32	-	10	M8*1.0P	M6*1.0P	1	3.9
BT50-SF10-120L	221.8	120	82	38	32	42	-	100	24	32	-	10	M8*1.0P	M6*1.0P	2	4.1
BT50-SF10-160L	261.8	160	122	38	32	42	78	100	24	32	40	10	M8*1.0P	M6*1.0P	3	4.3
BT50-SF10-200L	301.8	200	162	38	32	42	118	100	24	32	40	10	M8*1.0P	M6*1.0P	3	5.9
BT50-SF12-100L	201.8	100	62	38	37	48	-	100	24	32	-	12	M10*1.0P	M6*1.0P	1	3.9
BT50-SF12-120L	221.8	120	82	38	37	48	-	100	24	32	-	12	M10*1.0P	M6*1.0P	2	4.1
BT50-SF12-160L	261.8	160	122	38	37	48	78	100	24	32	40	12	M10*1.0P	M6*1.0P	3	4.3
BT50-SF12-200L	301.8	200	162	38	37	48	118	100	24	32	40	12	M10*1.0P	M6*1.0P	3	5.9
BT50-SF14-100L	201.8	100	62	38	37	48	-	100	27	34	-	14	M10*1.0P	M6*1.0P	1	3.9
BT50-SF14-120L	221.8	120	82	38	37	48	-	100	27	34	-	14	M10*1.0P	M6*1.0P	2	4.1
BT50-SF14-160L	261.8	160	122	38	37	48	78	100	27	34	42	14	M10*1.0P	M6*1.0P	3	4.3
BT50-SF14-200L	301.8	200	162	38	37	48	118	100	27	34	42	14	M10*1.0P	M6*1.0P	3	5.9

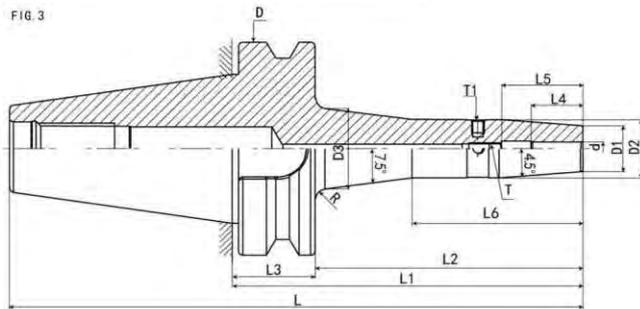
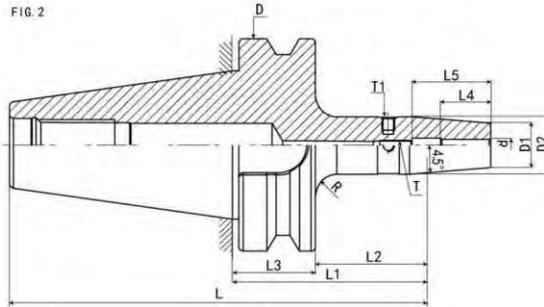
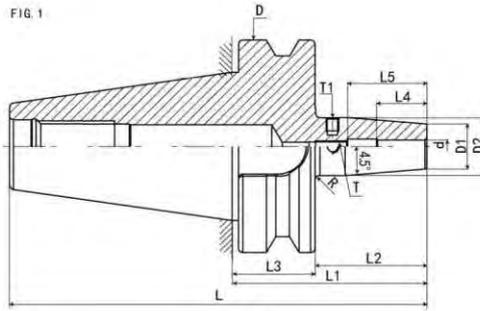


NC tools

BT50-SF SHRINK FIT TOOL HOLDER (4.5° STANDARD VERSION)



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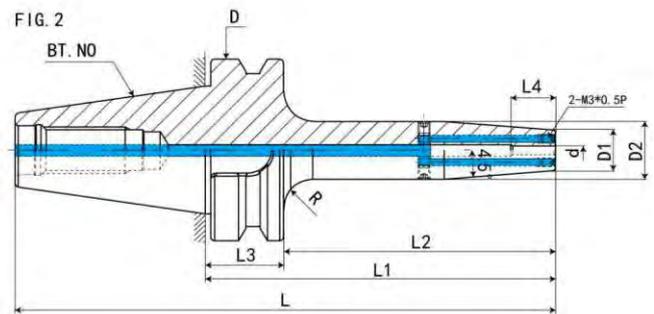
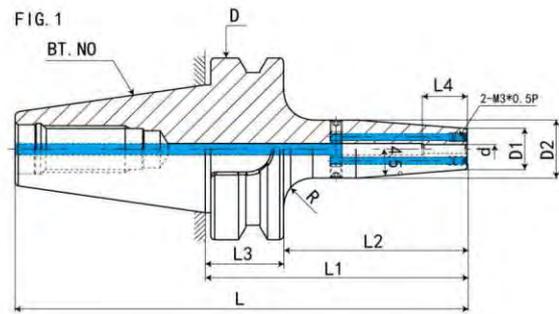


Model	L	L1	L2	L3	L4	L5	L6	D	D1	D2	D3	d	T	T1	FIG	KGS
BT50-SF16-100L	201.8	100	62	38	40	51	-	100	27	34	-	16	M12*1.0P	M6*1.0P	1	3.9
BT50-SF16-120L	221.8	120	82	38	40	51	-	100	27	34	-	16	M12*1.0P	M6*1.0P	2	4.1
BT50-SF16-160L	261.8	160	122	38	40	51	78	100	27	34	42	16	M12*1.0P	M6*1.0P	3	4.3
BT50-SF16-200L	301.8	200	162	38	40	51	118	100	27	34	42	16	M12*1.0P	M6*1.0P	3	5.9
BT50-SF18-100L	201.8	100	62	38	40	51	-	100	33	42	-	18	M12*1.0P	M6*1.0P	1	4.1
BT50-SF18-120L	221.8	120	82	38	40	51	-	100	33	42	-	18	M12*1.0P	M6*1.0P	2	4.2
BT50-SF18-160L	261.8	160	122	38	40	51	78	100	33	42	-	18	M12*1.0P	M6*1.0P	3	4.4
BT50-SF18-200L	301.8	200	162	38	40	51	118	100	33	42	-	18	M12*1.0P	M6*1.0P	3	6.1
BT50-SF20-100L	201.8	100	62	38	42	53	-	100	33	42	-	20	M16*1.0P	M6*1.0P	1	4.1
BT50-SF20-120L	221.8	120	82	38	42	53	-	100	33	42	-	20	M16*1.0P	M6*1.0P	2	4.2
BT50-SF20-160L	261.8	160	122	38	42	53	78	100	33	42	-	20	M16*1.0P	M6*1.0P	3	4.4
BT50-SF20-200L	301.8	200	162	38	42	53	118	100	33	42	-	20	M16*1.0P	M6*1.0P	3	6.1
BT50-SF25-110L	211.8	110	72	38	48	59	-	100	44	53	-	25	M16*1.0P	M6*1.0P	1	4.5
BT50-SF25-120L	221.8	120	82	38	48	59	-	100	44	53	-	25	M16*1.0P	M6*1.0P	2	4.7
BT50-SF25-160L	261.8	160	122	38	48	59	78	100	44	53	-	25	M16*1.0P	M6*1.0P	3	5.1
BT50-SF25-200L	301.8	200	162	38	48	59	118	100	44	53	-	25	M16*1.0P	M6*1.0P	3	6.1
BT50-SF32-110L	211.8	110	72	38	52	63	-	100	44	53	-	32	M16*1.0P	M6*1.0P	1	4.5
BT50-SF32-120L	221.8	120	82	38	52	63	-	100	44	53	-	32	M16*1.0P	M6*1.0P	2	4.7
BT50-SF32-160L	261.8	160	122	38	52	63	78	100	44	53	-	32	M16*1.0P	M6*1.0P	3	5.1
BT50-SF32-200L	301.8	200	162	38	52	63	118	100	44	53	-	32	M16*1.0P	M6*1.0P	3	6.1

BT30-SFK SHRINK CHUCK (4.5° SHRINK-FIT COOLANT TYPE)



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Model	L	L1	L2	L3	L4	D	D1	D2	d	FIG	KGS
BT30-SF03-80K	128.4	80	58	22	12	48	14	20	3	1	0.6
BT30-SF03-120K	168.4	120	98	22	12	48	14	20	3	2	0.9
BT30-SF04-80K	128.4	80	58	22	16	48	14	20	4	1	0.6
BT30-SF04-120K	168.4	120	98	22	16	48	14	20	4	2	0.9
BT30-SF05-80K	128.4	80	58	22	18	48	14	20	5	1	0.6
BT30-SF05-120K	168.4	120	98	22	18	48	14	20	5	2	0.9

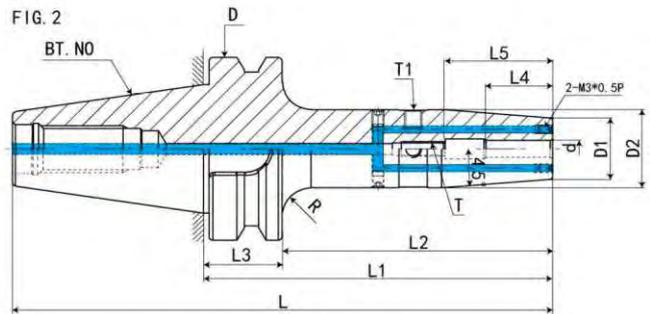
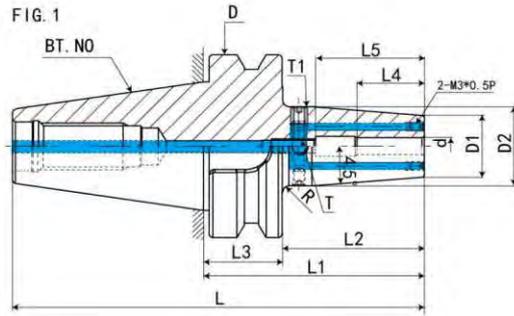


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BT30-SFK SHRINK CHUCK (4.5° SHRINK-FIT COOLANT TYPE)

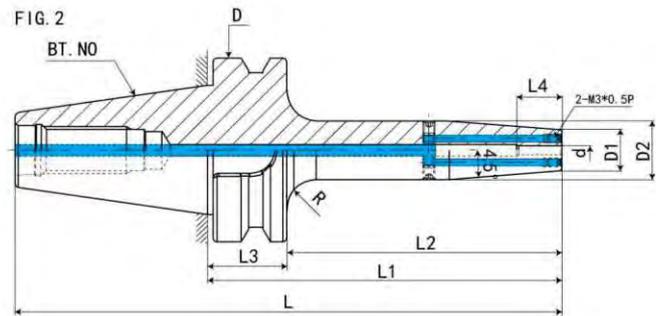
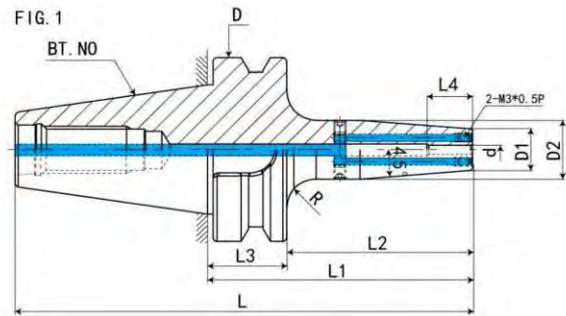


P.O13



Model	L	L1	L2	L3	L4	L5	D	D1	D2	d	T	T1	FIG	KGS
BT30-SF06-80K	128.4	80	58	22	23	37	48	21	27	6	M5*0.8P	M6*1.0P	1	0.7
BT30-SF06-120K	168.4	120	98	22	23	37	48	21	27	6	M5*0.8P	M6*1.0P	2	1
BT30-SF08-80K	128.4	80	58	22	27	37	48	21	27	8	M6*1.0P	M6*1.0P	1	0.7
BT30-SF08-120K	168.4	120	98	22	27	37	48	21	27	8	M6*1.0P	M6*1.0P	2	1
BT30-SF10-80K	128.4	80	58	22	32	42	48	24	32	10	M8*1.0P	M6*1.0P	1	0.8
BT30-SF10-120K	168.4	120	98	22	32	42	48	24	32	10	M8*1.0P	M6*1.0P	2	1.1
BT30-SF12-80K	128.4	80	58	22	37	48	48	24	32	12	M10*1.0P	M6*1.0P	1	0.8
BT30-SF12-120K	168.4	120	98	22	37	48	48	24	32	12	M10*1.0P	M6*1.0P	2	1.1
BT30-SF14-80K	128.4	80	58	22	37	48	48	27	34	14	M10*1.0P	M6*1.0P	1	0.8
BT30-SF14-120K	168.4	120	98	22	37	48	48	27	34	14	M10*1.0P	M6*1.0P	2	1.1
BT30-SF16-80K	128.4	80	58	22	40	51	48	27	34	16	M12*1.0P	M6*1.0P	1	0.8
BT30-SF16-120K	168.4	120	98	22	40	51	48	27	34	16	M12*1.0P	M6*1.0P	2	1.1
BT30-SF18-90K	138.4	90	68	22	40	51	48	33	42	18	M12*1.0P	M6*1.0P	1	0.9
BT30-SF18-120K	168.4	120	98	22	40	51	48	33	42	18	M12*1.0P	M6*1.0P	2	1.2
BT30-SF20-90K	138.4	90	68	22	42	53	48	33	42	20	M16*1.0P	M6*1.0P	1	0.9
BT30-SF20-120K	168.4	120	98	22	42	53	48	33	42	20	M16*1.0P	M6*1.0P	2	1.2

BT40-SFK SHRINK CHUCK (4.5° SHRINK-FIT COOLANT TYPE)



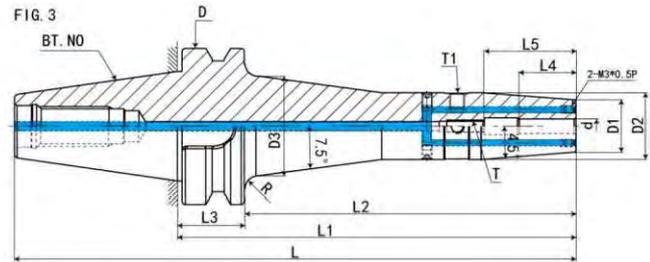
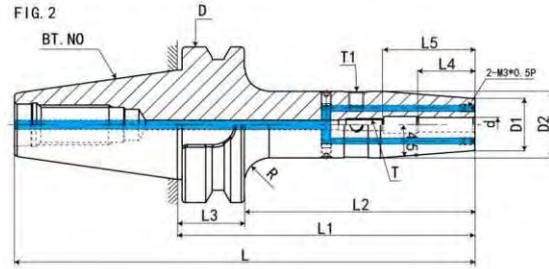
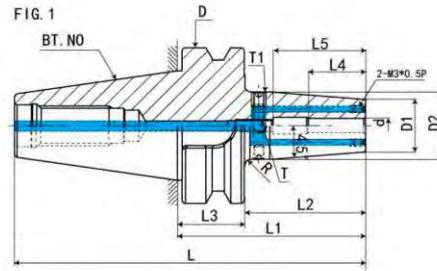
Model	L	L1	L2	L3	L4	D	D1	D2	d	FIG	KGS
BT40-SF03-90K	155.4	90	63	27	12	63	14	20	3	1	1.1
BT40-SF03-120K	185.4	120	93	27	12	63	14	20	3	2	1.4
BT40-SF04-90K	155.4	90	63	27	16	63	14	20	4	1	1.1
BT40-SF04-120K	185.4	120	93	27	16	63	14	20	4	2	1.4
BT40-SF05-90K	155.4	90	63	27	18	63	14	20	5	1	1.1
BT40-SF05-120K	185.4	120	93	27	18	63	14	20	5	2	1.4



BT40-SFK SHRINK CHUCK (4.5° SHRINK-FIT COOLANT TYPE)



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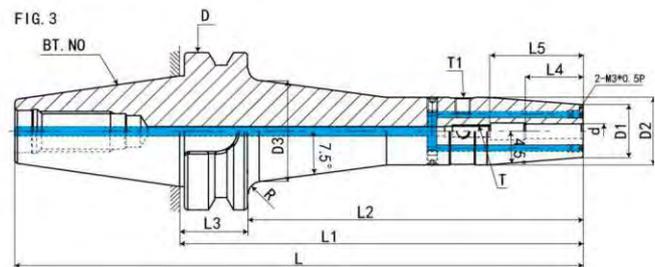
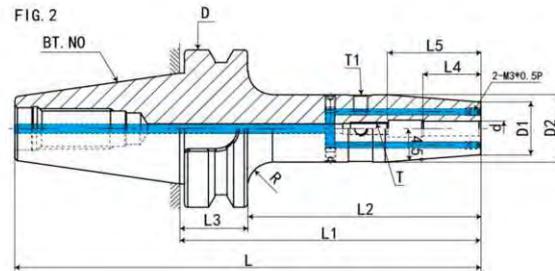
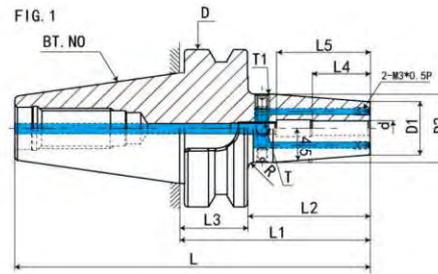


Model	L	L1	L2	L3	L4	L5	L6	D	D1	D2	D3	d	T	T1	FIG	KGS
BT40-SF06-75K	140.4	75	48	27	23	37	-	63	21	27	-	6	M5*0.8P	M6*1.0P	1	1.1
BT40-SF06-90K	155.4	90	63	27	23	37	-	63	21	27	-	6	M5*0.8P	M6*1.0P	2	1.2
BT40-SF06-120K	185.4	120	93	27	23	37	-	63	21	27	-	6	M5*0.8P	M6*1.0P	3	1.5
BT40-SF06-160K	225.4	160	133	27	23	37	78	63	21	27	41	6	M5*0.8P	M6*1.0P	4	1.8
BT40-SF06-200K	265.4	200	173	27	23	37	118	63	21	27	41	6	M5*0.8P	M6*1.0P	4	2.2
BT40-SF08-75K	140.4	75	48	27	27	37	-	63	21	27	-	8	M6*1.0P	M6*1.0P	1	1.1
BT40-SF08-90K	155.4	90	63	27	27	37	-	63	21	27	-	8	M6*1.0P	M6*1.0P	2	1.2
BT40-SF08-120K	185.4	120	93	27	27	37	-	63	21	27	-	8	M6*1.0P	M6*1.0P	3	1.5
BT40-SF08-160K	225.4	160	133	27	27	37	78	63	21	27	41	8	M6*1.0P	M6*1.0P	4	1.8
BT40-SF08-200K	265.4	200	173	27	27	37	118	63	21	27	41	8	M6*1.0P	M6*1.0P	4	2.2
BT40-SF10-75K	140.4	75	48	27	32	42	-	63	24	32	-	10	M8*1.0P	M6*1.0P	1	1.2
BT40-SF10-90K	155.4	90	63	27	32	42	-	63	24	32	-	10	M8*1.0P	M6*1.0P	2	1.3
BT40-SF10-120K	185.4	120	93	27	32	42	-	63	24	32	-	10	M8*1.0P	M6*1.0P	3	1.6
BT40-SF10-160K	225.4	160	133	27	32	42	78	63	24	32	40	10	M8*1.0P	M6*1.0P	4	1.9
BT40-SF10-200K	265.4	200	173	27	32	42	118	63	24	32	40	10	M8*1.0P	M6*1.0P	4	2.3
BT40-SF12-75K	140.4	75	48	27	37	48	-	63	24	32	-	12	M10*1.0P	M6*1.0P	1	1.2
BT40-SF12-90K	155.4	90	63	27	37	48	-	63	24	32	-	12	M10*1.0P	M6*1.0P	2	1.3
BT40-SF12-120K	185.4	120	93	27	37	48	-	63	24	32	-	12	M10*1.0P	M6*1.0P	3	1.6
BT40-SF12-160K	225.4	160	133	27	37	48	78	63	24	32	40	12	M10*1.0P	M6*1.0P	4	1.9
BT40-SF12-200K	265.4	200	173	27	37	48	118	63	24	32	40	12	M10*1.0P	M6*1.0P	4	2.3
BT40-SF14-75K	140.4	75	48	27	37	48	-	63	27	34	-	14	M10*1.0P	M6*1.0P	1	1.2
BT40-SF14-90K	155.4	90	63	27	37	48	-	63	27	34	-	14	M10*1.0P	M6*1.0P	2	1.3
BT40-SF14-120K	185.4	120	93	27	37	48	-	63	27	34	-	14	M10*1.0P	M6*1.0P	3	1.6
BT40-SF14-160K	225.4	160	133	27	37	48	78	63	27	34	42	14	M10*1.0P	M6*1.0P	4	1.9
BT40-SF14-200K	265.4	200	173	27	37	48	118	63	27	34	42	14	M10*1.0P	M6*1.0P	4	2.3

BT40-SFK SHRINK CHUCK (4.5° SHRINK-FIT COOLANT TYPE)



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Model	L	L1	L2	L3	L4	L5	L6	D	D1	D2	D3	d	T	T1	FIG	KGS
BT40-SF16-75K	140.4	75	48	27	40	51	-	63	27	34	-	16	M12*1.0P	M6*1.0P	1	1.2
BT40-SF16-90K	155.4	90	63	27	40	51	-	63	27	34	-	16	M12*1.0P	M6*1.0P	2	1.3
BT40-SF16-120K	185.4	120	93	27	40	51	-	63	27	34	-	16	M12*1.0P	M6*1.0P	3	1.6
BT40-SF16-160K	225.4	160	133	27	40	51	78	63	27	34	42	16	M12*1.0P	M6*1.0P	4	1.9
BT40-SF16-200K	265.4	200	173	27	40	51	118	63	27	34	42	16	M12*1.0P	M6*1.0P	4	2.3
BT40-SF18-75K	140.4	75	48	27	40	51	-	63	33	42	-	18	M12*1.0P	M6*1.0P	1	1.3
BT40-SF18-90K	155.4	90	63	27	40	51	-	63	33	42	-	18	M12*1.0P	M6*1.0P	2	1.4
BT40-SF18-120K	185.4	120	93	27	40	51	-	63	33	42	-	18	M12*1.0P	M6*1.0P	3	1.7
BT40-SF18-160K	225.4	160	133	27	40	51	-	63	33	42	-	18	M12*1.0P	M6*1.0P	3	2
BT40-SF18-200K	265.4	200	173	27	40	51	-	63	33	42	-	18	M12*1.0P	M6*1.0P	3	2.4
BT40-SF20-75K	140.4	75	48	27	42	53	-	63	33	42	-	20	M16*1.0P	M6*1.0P	1	1.3
BT40-SF20-90K	155.4	90	63	27	42	53	-	63	33	42	-	20	M16*1.0P	M6*1.0P	2	1.4
BT40-SF20-120K	185.4	120	93	27	42	53	-	63	33	42	-	20	M16*1.0P	M6*1.0P	3	1.7
BT40-SF20-160K	225.4	160	133	27	42	53	-	63	33	42	-	20	M16*1.0P	M6*1.0P	3	2
BT40-SF20-200K	265.4	200	173	27	42	53	-	63	33	42	-	20	M16*1.0P	M6*1.0P	3	2.4
BT40-SF25-75K	140.4	75	48	27	48	59	-	63	44	53	-	25	M16*1.0P	M6*1.0P	1	1.6
BT40-SF25-90K	155.4	90	63	27	48	59	-	63	44	53	-	25	M16*1.0P	M6*1.0P	2	2
BT40-SF25-120K	185.4	120	93	27	48	59	-	63	44	53	-	25	M16*1.0P	M6*1.0P	3	2.3
BT40-SF25-160K	225.4	160	133	27	48	59	-	63	44	53	-	25	M16*1.0P	M6*1.0P	3	2.6
BT40-SF25-200K	265.4	200	173	27	48	59	-	63	44	53	-	25	M16*1.0P	M6*1.0P	3	3
BT40-SF32-75K	140.4	75	48	27	52	63	-	63	44	53	-	32	M16*1.0P	M6*1.0P	1	1.6
BT40-SF32-90K	155.4	90	63	27	52	63	-	63	44	53	-	32	M16*1.0P	M6*1.0P	2	2
BT40-SF32-120K	185.4	120	93	27	52	63	-	63	44	53	-	32	M16*1.0P	M6*1.0P	3	2.3
BT40-SF32-160K	225.4	160	133	27	52	63	-	63	44	53	-	32	M16*1.0P	M6*1.0P	3	2.6
BT40-SF32-200K	265.4	200	173	27	52	63	-	63	44	53	-	32	M16*1.0P	M6*1.0P	3	3



NC tools

BT50-SFK SHRINK CHUCK (4.5° SHRINK-FIT COOLANT TYPE)



P.O13

FIG. 1

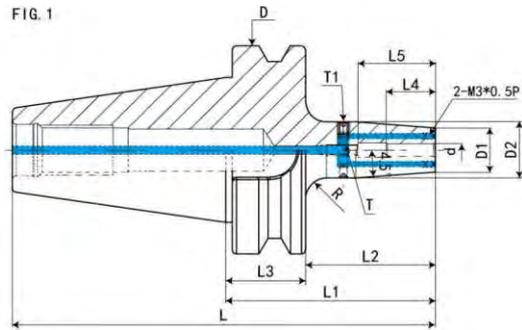


FIG. 2

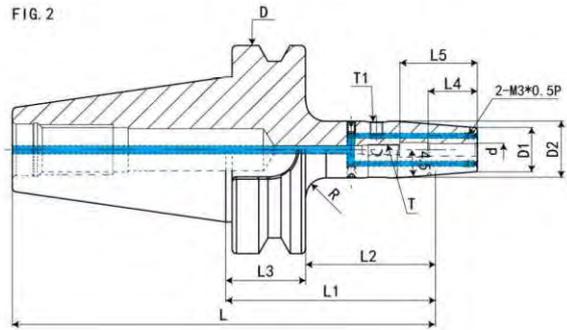
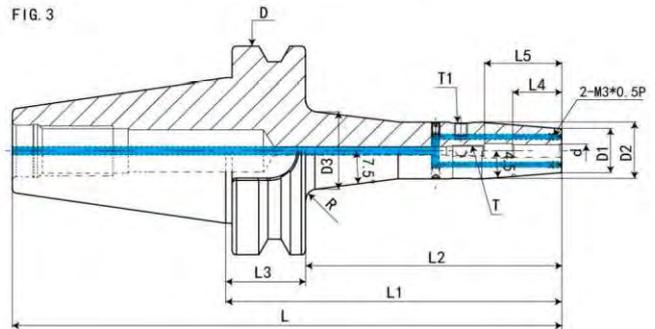


FIG. 3



Model	L	L1	L2	L3	L4	L5	L6	D	D1	D2	D3	d	T	T1	FIG	KGS
BT50-SF06-100K	201.8	100	62	38	23	37	-	100	21	27	-	6	M5*0.8P	M6*1.0P	1	3.7
BT50-SF06-120K	221.8	120	82	38	23	37	-	100	21	27	-	6	M5*0.8P	M6*1.0P	2	3.9
BT50-SF06-160K	261.8	160	122	38	23	37	78	100	21	27	41	6	M5*0.8P	M6*1.0P	3	4.2
BT50-SF06-200K	301.8	200	162	38	23	37	118	100	21	27	41	6	M5*0.8P	M6*1.0P	3	5.8
BT50-SF08-100K	201.8	100	62	38	27	37	-	100	21	27	-	8	M6*1.0P	M6*1.0P	1	3.8
BT50-SF08-120K	221.8	120	82	38	27	37	-	100	21	27	-	8	M6*1.0P	M6*1.0P	2	3.9
BT50-SF08-160K	261.8	160	122	38	27	37	78	100	21	27	41	8	M6*1.0P	M6*1.0P	3	4.2
BT50-SF08-200K	301.8	200	162	38	27	37	118	100	21	27	41	8	M6*1.0P	M6*1.0P	3	5.8
BT50-SF10-100K	201.8	100	62	38	32	42	-	100	24	32	-	10	M8*1.0P	M6*1.0P	1	3.9
BT50-SF10-120K	221.8	120	82	38	32	42	-	100	24	32	-	10	M8*1.0P	M6*1.0P	2	4.1
BT50-SF10-160K	261.8	160	122	38	32	42	78	100	24	32	40	10	M8*1.0P	M6*1.0P	3	4.3
BT50-SF10-200K	301.8	200	162	38	32	42	118	100	24	32	40	10	M8*1.0P	M6*1.0P	3	5.9
BT50-SF12-100K	201.8	100	62	38	37	48	-	100	24	32	-	12	M10*1.0P	M6*1.0P	1	3.9
BT50-SF12-120K	221.8	120	82	38	37	48	-	100	24	32	-	12	M10*1.0P	M6*1.0P	2	4.1
BT50-SF12-160K	261.8	160	122	38	37	48	78	100	24	32	40	12	M10*1.0P	M6*1.0P	3	4.3
BT50-SF12-200K	301.8	200	162	38	37	48	118	100	24	32	40	12	M10*1.0P	M6*1.0P	3	5.9
BT50-SF14-100K	201.8	100	62	38	37	48	-	100	27	34	-	14	M10*1.0P	M6*1.0P	1	3.9
BT50-SF14-120K	221.8	120	82	38	37	48	-	100	27	34	-	14	M10*1.0P	M6*1.0P	2	4.1
BT50-SF14-160K	261.8	160	122	38	37	48	78	100	27	34	42	14	M10*1.0P	M6*1.0P	3	4.3
BT50-SF14-200K	301.8	200	162	38	37	48	118	100	27	34	42	14	M10*1.0P	M6*1.0P	3	5.9

BT50-SFK SHRINK CHUCK (4.5° SHRINK-FIT COOLANT TYPE)



P.O13

FIG. 1

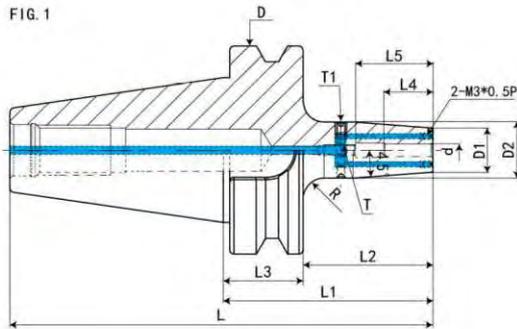


FIG. 2

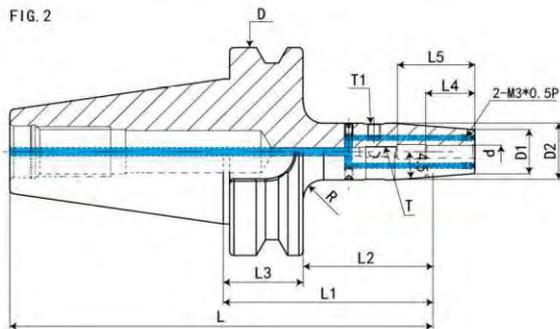
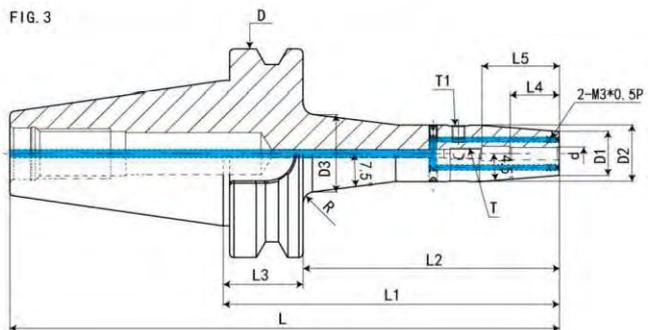


FIG. 3



Model	L	L1	L2	L3	L4	L5	L6	D	D1	D2	D3	d	T	T1	FIG	KGS
BT50-SF16-100K	201.8	100	62	38	40	51	-	100	27	34	-	16	M12*1.0P	M6*1.0P	1	3.9
BT50-SF16-120K	221.8	120	82	38	40	51	-	100	27	34	-	16	M12*1.0P	M6*1.0P	2	4.1
BT50-SF16-160K	261.8	160	122	38	40	51	78	100	27	34	42	16	M12*1.0P	M6*1.0P	3	4.3
BT50-SF16-200K	301.8	200	162	38	40	51	118	100	27	34	42	16	M12*1.0P	M6*1.0P	3	5.9
BT50-SF18-100K	201.8	100	62	38	40	51	-	100	33	42	-	18	M12*1.0P	M6*1.0P	1	4.1
BT50-SF18-120K	221.8	120	82	38	40	51	-	100	33	42	-	18	M12*1.0P	M6*1.0P	2	4.2
BT50-SF18-160K	261.8	160	122	38	40	51	78	100	33	42	42	18	M12*1.0P	M6*1.0P	3	4.4
BT50-SF18-200K	301.8	200	162	38	40	51	118	100	33	42	42	18	M12*1.0P	M6*1.0P	3	6.1
BT50-SF20-100K	201.8	100	62	38	42	53	-	100	33	42	-	20	M16*1.0P	M6*1.0P	1	4.1
BT50-SF20-120K	221.8	120	82	38	42	53	-	100	33	42	-	20	M16*1.0P	M6*1.0P	2	4.2
BT50-SF20-160K	261.8	160	122	38	42	53	78	100	33	42	42	20	M16*1.0P	M6*1.0P	3	4.4
BT50-SF20-200K	301.8	200	162	38	42	53	118	100	33	42	42	20	M16*1.0P	M6*1.0P	3	6.1
BT50-SF25-110K	211.8	110	72	38	48	59	-	100	44	53	-	25	M16*1.0P	M6*1.0P	1	4.5
BT50-SF25-120K	221.8	120	82	38	48	59	-	100	44	53	-	25	M16*1.0P	M6*1.0P	2	4.7
BT50-SF25-160K	261.8	160	122	38	48	59	78	100	44	53	42	25	M16*1.0P	M6*1.0P	3	5.1
BT50-SF25-200K	301.8	200	162	38	48	59	118	100	44	53	42	25	M16*1.0P	M6*1.0P	3	6.1
BT50-SF32-110K	211.8	110	72	38	52	63	-	100	44	53	-	32	M16*1.0P	M6*1.0P	1	4.5
BT50-SF32-120K	221.8	120	82	38	52	63	-	100	44	53	-	32	M16*1.0P	M6*1.0P	2	4.7
BT50-SF32-160K	261.8	160	122	38	52	63	78	100	44	53	42	32	M16*1.0P	M6*1.0P	3	5.1
BT50-SF32-200K	301.8	200	162	38	52	63	118	100	44	53	42	32	M16*1.0P	M6*1.0P	3	6.1



NC tools

BT30-PHC HYDRAULIC TOOL HOLDER

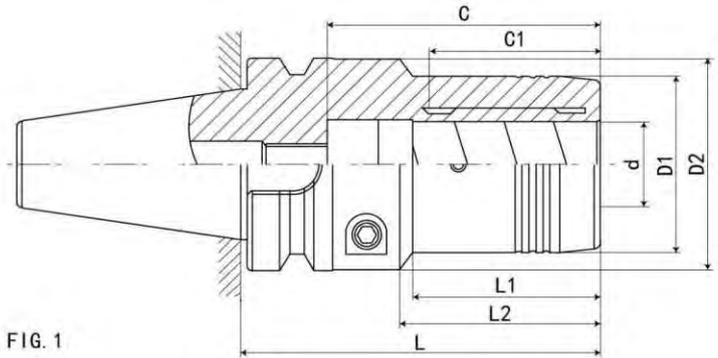


FIG. 1

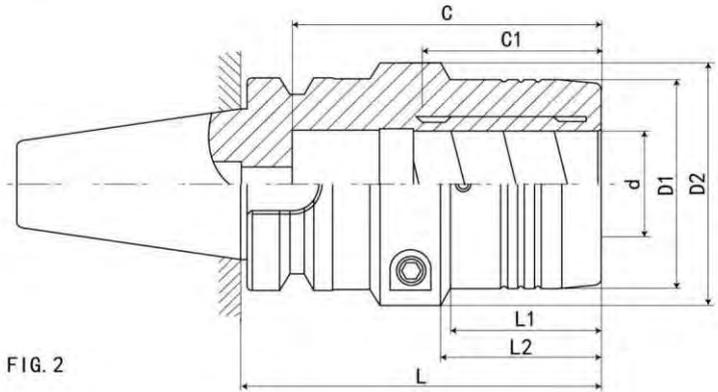


FIG. 2



P.O13

Model	d	D1	D2	L	L1	L2	C1 Min insertion depth	C Max. insertion depth	M	Fig	KGS
BT30-PHC06-75	6	30	46	75	26	30	26	42	M5	1	0.8
BT30-PHC08-75	8	32	46	75	26	24	26	42	M6	1	0.85
BT30-PHC10-75	10	34	46	75	31	24	31	45	M6	1	0.85
BT30-PHC12-75	12	36	46	75	25	27	32	45	M8	1	0.85
BT30-PHC16-90	16	40	46	90	33	35	42	52	M8	1	1.05
BT30-PHC20-90	20	46	46	90	-	-	42	52	M8	1	1.1
BT30-PHC25-105	25	55	65	105	44	47	50	80	M8	2	1.65
BT30-PHC32-105	32	60	70	105	39	44	52	80	M8	2	1.8

BT40-PHC HYDRAULIC TOOL HOLDER



P.O13

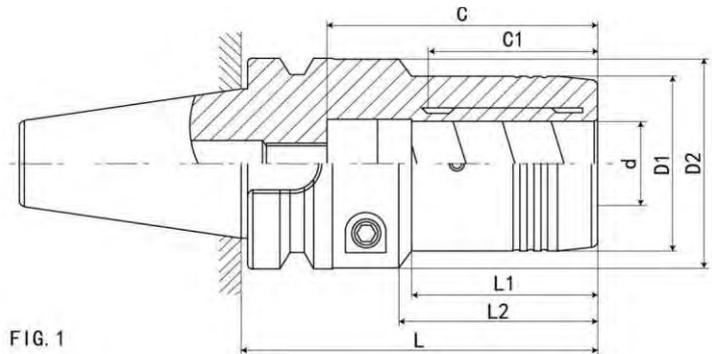


FIG. 1

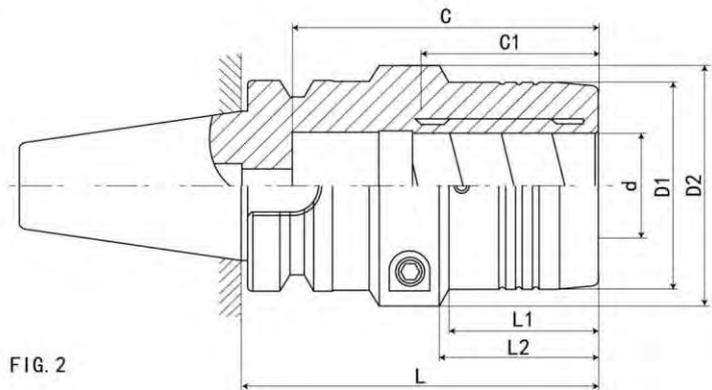


FIG. 2

Model	d	D1	D2	L	L1	L2	C1 Min insertion depth	C Max. insertion depth	M	Fig	KGS
BT40-PHC06-75	6	31	46	75	26	30	26	46	M5	1	1.32
BT40-PHC06-90	6	30	46	90	33	44	26	46	M5	1	1.41
BT40-PHC08-75	8	33	48	75	26	30	25	46	M5	1	1.36
BT40-PHC08-90	8	32	48	90	33	44	25	46	M5	1	1.46
BT40-PHC10-75	10	35	50	75	26	30	31	57	M8	1	1.43
BT40-PHC10-90	10	36	52	90	34	44	31	57	M8	1	1.57
BT40-PHC12-75	12	37	51	75	26	30	32	57	M8	1	1.46
BT40-PHC12-90	12	38	54	90	33	44	32	57	M8	1	1.62
BT40-PHC14-75	14	38	56	75	26	30	41	57	M8	1	1.48
BT40-PHC14-90	14	40	56	90	33	44	41	57	M8	1	1.68
BT40-PHC16-75	16	40	58	75	26	30	42	75	M12	1	1.51
BT40-PHC16-90	16	42	58	90	33	44	42	75	M12	1	1.7
BT40-PHC20-75	20	44	60	75	26	30	42	75	M12	1	1.52
BT40-PHC20-90	20	46	60	90	33	44	42	75	M12	1	1.75
BT40-PHC25-105	25	52	62	105	47	58	51	80	M12	1	2.05
BT40-PHC32-105	32	62	73	105	43.2	46.1	53	90	M12	2	2.34

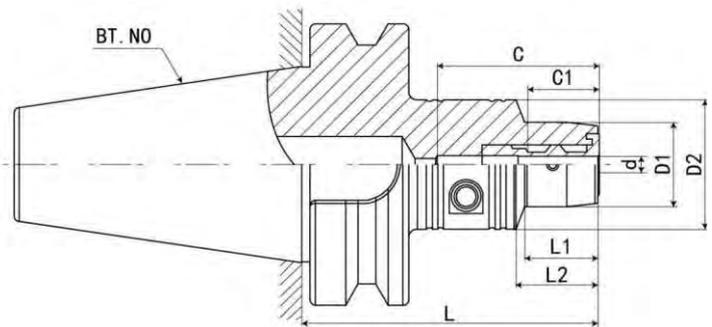


NC tools

BT50-PHC HYDRAULIC TOOL HOLDER

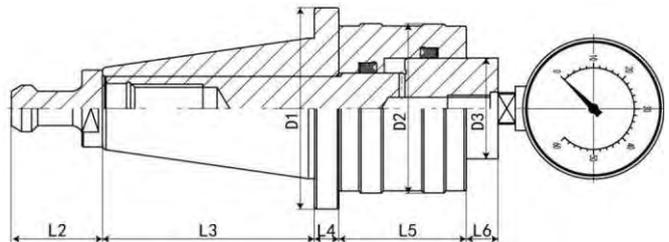


P.O13



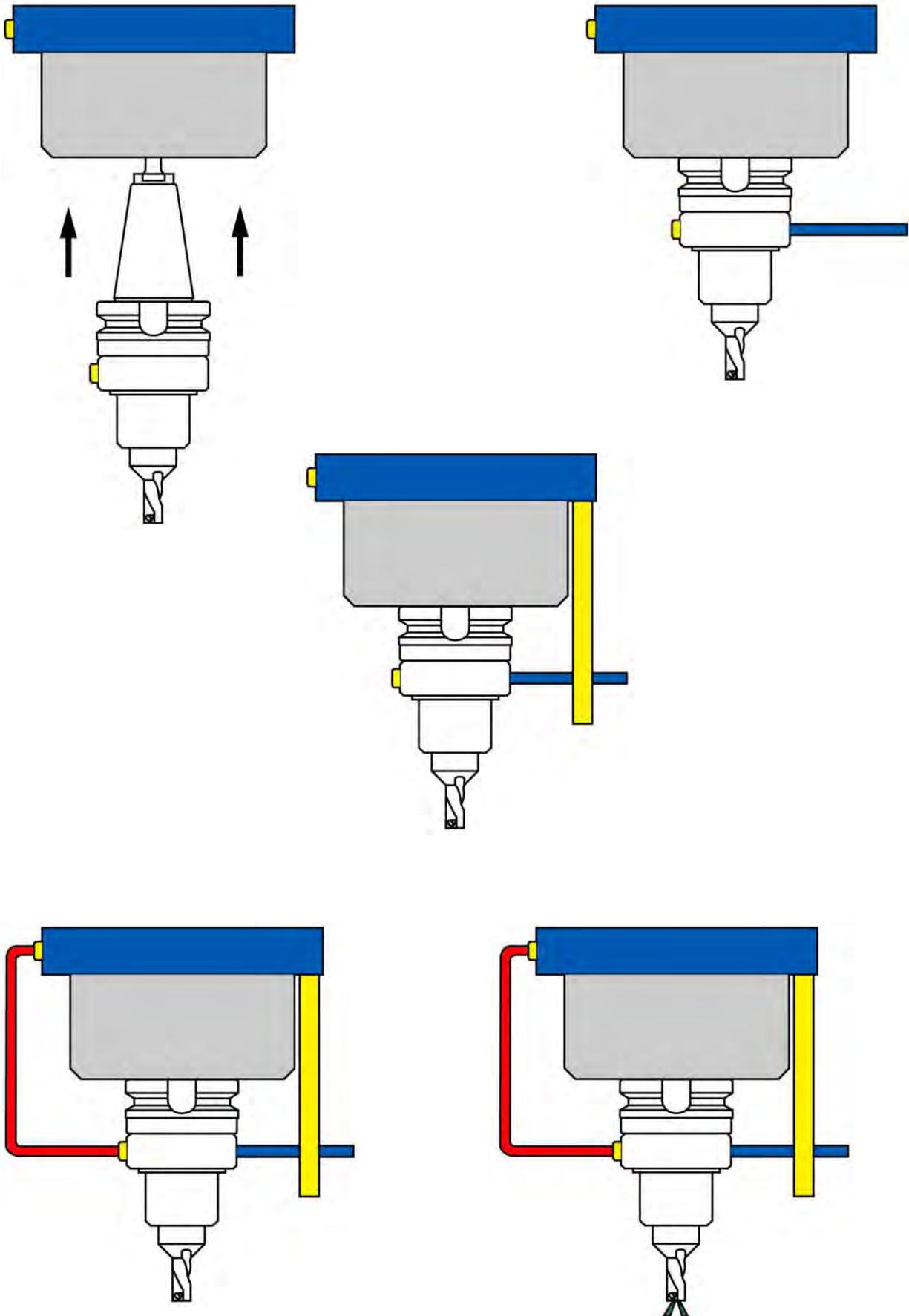
Model	d	D1	D2	L	L1	L2	C1 Min insertion depth	C Max. insertion depth	M	KGS
BT50-PHC06-105	6	30	46	105	26	29	30.5	57	M5	4.09
BT50-PHC08-105	8	32	48	105	26	29	27.5	57	M6	4.16
BT50-PHC10-105	10	36	52	105	26	29	31	57	M8	4.26
BT50-PHC12-105	12	38	54	105	26	29	32	57	M10	4.34
BT50-PHC16-105	16	42	58	105	26	29	42	75	M10	4.48
BT50-PHC20-105	20	46	60	105	26	29	42	75	M10	4.53
BT50-PHC25-120	25	52	62	120	56	58	50	80	M16	4.68
BT50-PHC32-120	32	62	72	120	43	47	50	90	M16	5.15
BT50-PHC40-120	40	70	84	120	53	82	57.5	89.5	M16	5.35

SPINDLE TENSION METER



Model	L1	L2	L3	L4	L5	L6	D1	D2	D3
BT30	171.2	23	50.4	20	62	15.8	46	70	50
BT40	187.4	32	67.4	10	63	15	63	72	50
BT50	240.6	45	104.8	12	63	15.8	100	84	50

SIDE LOCK OIL HOLE HOLDER USAGE METHOD



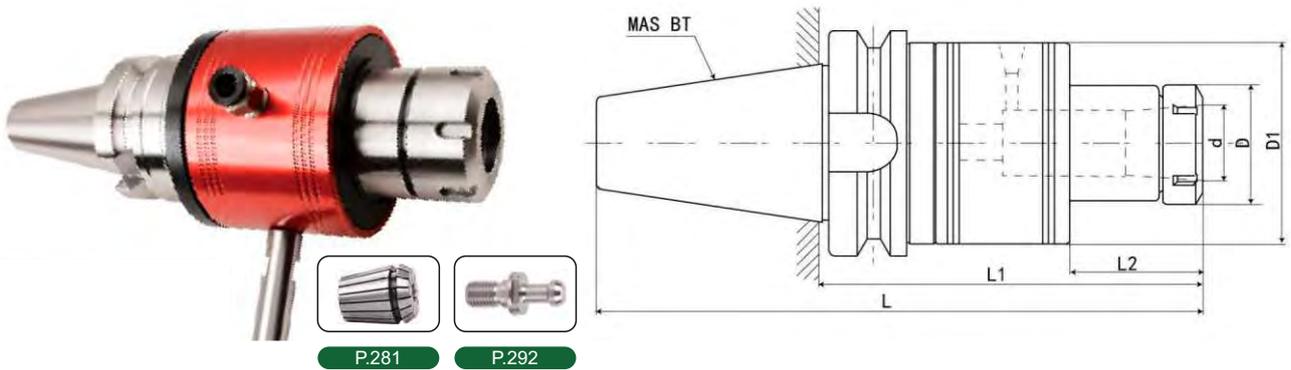
NC tools

MTA-OHS SIDE LOCK OIL HOLE HOLDER (BUILT IN BEARING)



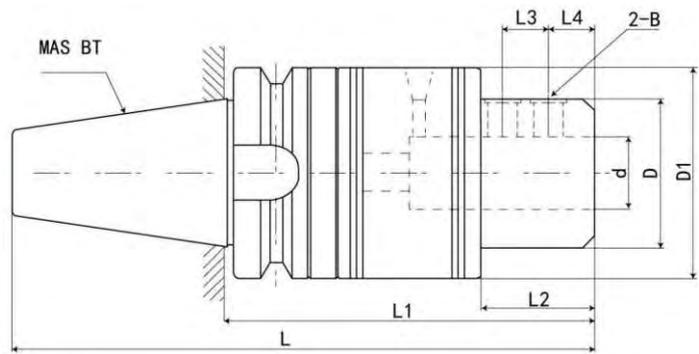
Model	L	L1	L2	D	D1	D2	d
MTA4-OHS20	120	25	-	31.267	50	82	20
MTA4-OHS25	130	15	20	31.267	50	82	25
MTA4-OHS32	140	15	20	31.267	60	98	32
MTA4-OHS40	150	15	25	31.267	60	98	40

BT-OHER SIDE LOCK OIL HOLE HOLDER (BUILT IN BEARING)



Model	d	L	L2	D	L1	D1
BT40-OHER20-165L	20	218.4	40	34	165	Ø82
BT40-OHER25-165L	25	218.4	40	42	165	Ø82
BT40-OHER32-165L	32	218.4	40	50	165	Ø82
BT40-OHER40-165L	40	218.4	40	63	165	Ø82
BT50-OHER20-170L	20	259.8	50	34	170	Ø82
BT50-OHER25-170L	25	259.8	50	42	170	Ø82
BT50-OHER32-170L	32	259.8	50	50	170	Ø82
BT50-OHER40-170L	40	259.8	50	63	170	Ø82

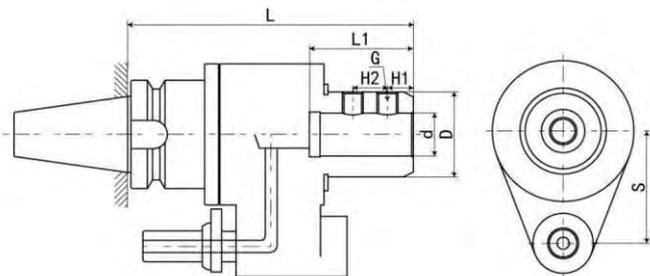
BT-OHS SIDE LOCK OIL HOLE HOLDER (BUILT IN BEARING)



P.O13

Model	d	L	L1	L2	L3	L4	D	D1
BT40-OHS16-150	Φ16	215.4	150	36		25	Φ49.5	Φ82
BT40-OHS20-150	Φ20	215.4	150	36		25	Φ49.5	Φ82
BT40-OHS25-165	Φ25	230.4	165	51	20	15	Φ49.5	Φ82
BT40-OHS32-170	Φ32	235.4	170	52	20	15	Φ59.5	Φ98
BT50-OHS16-165	Φ16	266.8	165	36		25	Φ49.5	Φ82
BT50-OHS20-165	Φ20	266.8	165	36		25	Φ49.5	Φ82
BT50-OHS25-165	Φ25	266.8	165	52	20	15	Φ59.5	Φ98
BT50-OHS32-165	Φ32	266.8	165	52	20	15	Φ59.5	Φ98
BT50-OHS40-165	Φ40	266.8	165	52	25	15	Φ59.5	Φ98
BT50-OHS50-210	Φ50	311.8	210	95	25	35	Φ89.5	Φ123

BT/ OSL INTERCHANGEABLE OIL CIRCUIT TOOL HOLDER



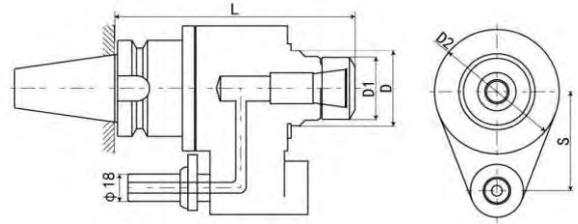
P.O13

Model	d	D	L	L1	H1	H2	S	G	KGS
BT30-OSL16-150	16	49	150	48	25	-	65	M12×1.75	
BT30-OSL20-150	20	49	150	50	25	-	65	M12×1.75	
BT30-OSL25-150	25	49	150	56	15	20	65	M16×2.0	
BT30-OSL32-150	32	49	150	60	15	20	65	M12×1.75	
BT40-OSL16-150	16	49	150	48	25	-	65	M12×1.75	4.3
BT40-OSL20-150	20	49	150	50	25	-	65	M12×1.75	4.2
BT40-OSL25-165	25	49	150	56	15	20	65	M16×2.0	4.1
BT40-OSL32-165	32	59	165	60	15	20	65	M16×2.0	5.6
BT50-OSL16-165	16	59	165	48	25	-	80	M12×1.75	8.2
BT50-OSL20-165	20	59	165	50	25	-	80	M12×1.75	8.1
BT50-OSL25-165	25	59	165	56	15	20	80	M16×2.0	7.9
BT50-OSL32-165	32	59	165	60	15	20	80	M16×2.0	7.7
BT50-OSL40-165	40	59	165	70	15	25	80	M14×2.0	7.5



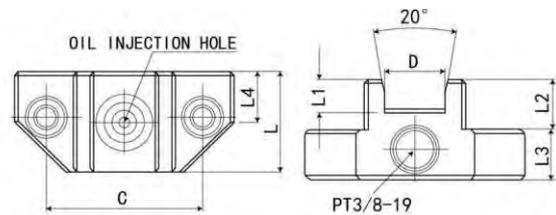
NC tools

BT/ OSER INTERCHANGEABLE OIL CIRCUIT TOOL HOLDER



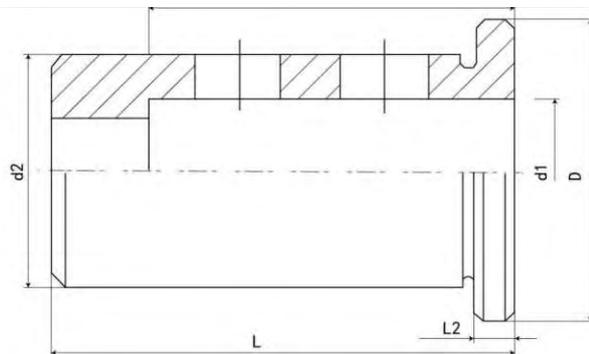
Model	Clamp	D	D1	D2	L	S	KGS
BT30-QSER16-130	Φ2 - Φ10	39.5	28	66	130	50	
BT30-OSER20-130	Φ2 - Φ13	39.5	34	66	130	50	
BT30-OSER25-130	Φ3 - Φ16	39.5	42	66	130	50	3.5
BT30-OSER32-130	Φ3 - Φ20	40	50	66	130	50	3.8
BT40-OSER25-165	Φ4 - Φ16	42	42	82	165	65	4
BT40-OSER32-165	Φ4 - Φ20	49.5	50	82	165	65	4
BT40-OSER40-165	Φ4 - Φ26	50	63	82	165	65	4.1
BT50-OSER25-170	Φ4 - Φ16	42	42	98	170	80	7.1
BT50-OSER32-170	Φ4 - Φ20	50	50	98	170	80	7.3
BT50-OSER40-170	Φ4 - Φ26	59	63	98	170	80	7.2

ST-18 FIXED BLOCK



Model	D	L	L1	L2	L3	L4	C	KGS
ST-18	18	27	9	18.1	17.2	18	46.2	0.29

BT/ OSL STRAIGHT SLEEVE



Model d2-d1	D	L	L1	L2	KGS	Model d2-d1	D	L	L1	L2	KGS
OSL-20-16	30	54	48	5.5	0.07	OSL-40-16	50	74	48	5.5	0.57
OSL-25-16	35	60	48	5.5	0.19	OSL-40-20	50	74	50	5.5	0.54
OSL-25-20	35	60	50	5.5	0.15	OSL-40-25	50	74	56	5.5	0.47
OSL-32-16	42	64	48	5.5	0.35	OSL-40-32	50	74	60	5.5	0.30
OSL-32-20	42	64	50	5.5	0.32						
OSL-32-25	42	64	56	5.5	0.22						

TOOL SYSTEMS TRANSFORMATION SET



P.O13



P.O14

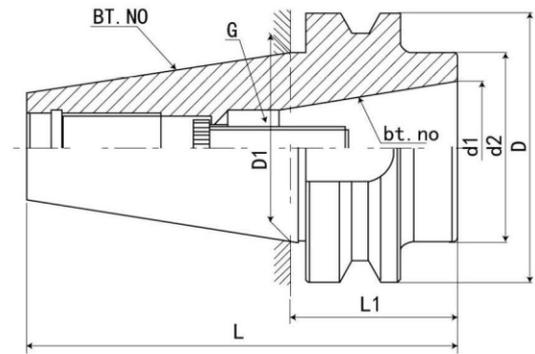


FIG.1

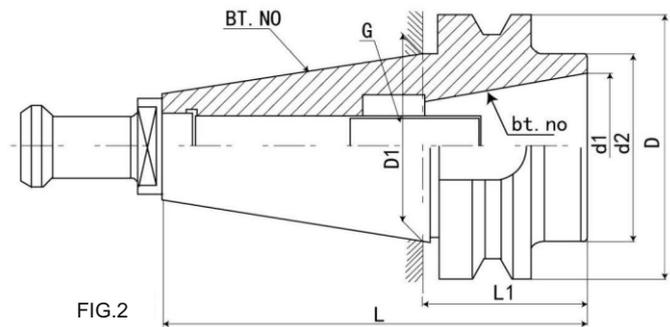
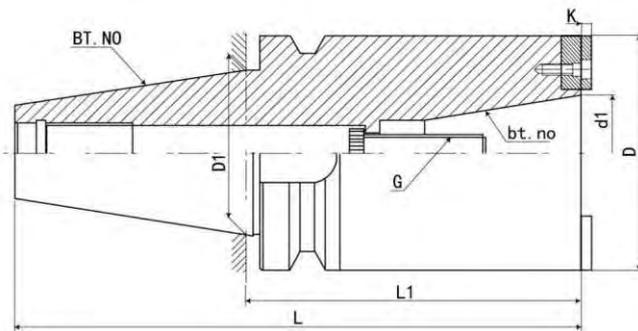


FIG.2

Model	BT.NO	bt.no	d1	d2	D	D1	L	L1	G	FIG
BT60-BT50-58L	BT60	BT50	69.85	135	155	107.95	220	58	M24	2
BT60-BT50-58L	BT60	BT50	69.85	135	155	107.95	220	58	M24	1
BT50-BT40-45L	BT50	BT40	44.45	90	100	69.85	150	45	M16	2
BT50-BT40-45L	BT50	BT40	44.45	90	100	69.85	150	45	M16	1
BT50-BT30-45L	BT50	BT30	31.75	75	100	69.85	150	45	M12	1
BT40-BT30-36L	BT40	BT30	31.75	62	63	44.45	102	36	M12	1
Model	SK.NO	sk.no	d1	d2	D	D1	L	L1	G	FIG
SK60-BT50-58L	SK60	BT50	69.85	135	155	107.95	220	58	M24	2
SK60-BT50-58L	SK60	BT50	69.85	135	155	107.95	220	58	M24	1
SK50-BT40-45L	SK50	BT40	44.45	90	97.5	69.85	150	45	M16	2
SK50-BT40-45L	SK50	BT40	44.45	90	97.5	69.85	150	45	M16	1



P.O13



Model	BT.NO	bt.no	D	D1	d1	L	L1	G	K
BT40-BT40-80L	BT40	BT40	68	44.45	44.45	145.4	80L	M16*2.0P	8
BT40-BT40-120L	BT40	BT40	68	44.45	44.45	185.4	120L	M16*2.1P	8
BT40-BT40-150L	BT40	BT40	68	44.45	44.45	215.4	150L	M16*2.2P	8
BT40-BT40-200L	BT40	BT40	68	44.45	44.45	265.4	200L	M16*2.3P	8
BT50-BT50-120L	BT50	BT50	103	69.85	69.85	221.8	120L	M24*3.0P	12
BT50-BT50-150L	BT50	BT50	103	69.85	69.85	251.8	150L	M24*3.0P	12
BT50-BT50-200L	BT50	BT50	103	69.85	69.85	301.8	200L	M24*3.0P	12
BT50-BT50-250L	BT50	BT50	103	69.85	69.85	351.8	250L	M24*3.0P	12
BT50-BT50-300L	BT50	BT50	103	69.85	69.85	401.8	300L	M24*3.0P	12
BT50-BT50-350L	BT50	BT50	103	69.85	69.85	451.8	350L	M24*3.0P	12



NC tools

HOLDER ACCESSORIES



HOLDER
ACCESSORIES

HIGH-PRECISION ER COLLET



Features:

- ◎ Material: SUJ2(High-carbon bearing steel: After heat treatment, it has hardness and toughness, better grinding quality, good flexibility, and longer using life span).
- ◎ HRC: HRC44-48
- ◎ Surface roughness: within RZ2.5.
- ◎ Chucking range: ER8=0.5mm; ER11/16/20/25/32/40=1mm.
- ◎ But if the internal hole is less than 2.5mm, the chucking range will be 0.5mm; ER50 clamping contraction range of 10mm or less shrinkage range is 1 mm, the shrinkage of more than 10 mm range of 2mm.
- ◎ The concentricity is totally examined according to DIN norm.
- ◎ It is used for the cutting tools like drills, taps, mills, and reamers, etc.
- ◎ It has flexibility and can be applied widely and variably.
- ◎ Please inform the required precision when ordering.

SUPER MACHING TECHNOLOGY

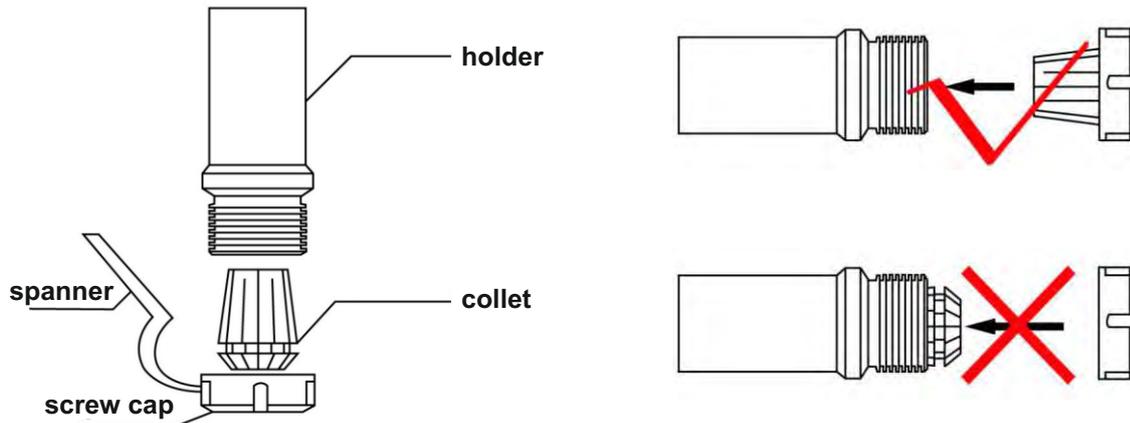
Features:

- ◎ -185C long cryogenic, nearly of the residual austenite into martensite.
- ◎ Carbide precipitation of Nanoscale particles, increasing the hardness and toughness
- ◎ Reducing residual stresses
- ◎ Wear resistance significantly improved
- ◎ Thermal aging processing
- ◎ 100h long stereotyped thermal limitation removal of grinding residual stress.

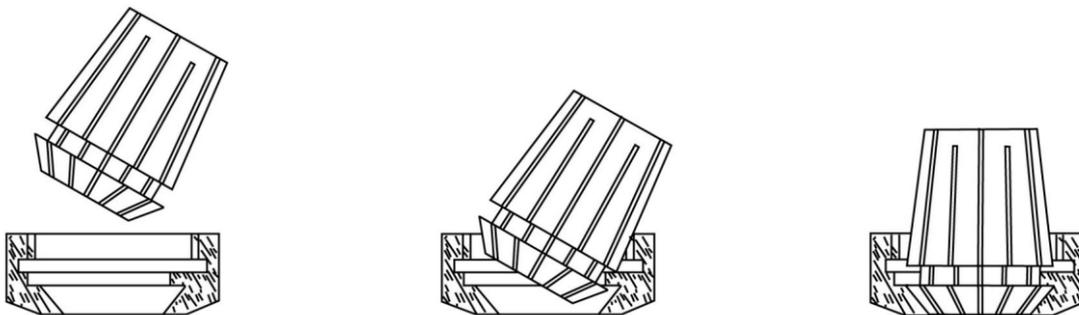
COLLET INSTALLING AND REMOVING INSTRUCTION MANUAL

Installation:

- © Firstly should install collet into clamp nut then uses a wrench to lock it on tool holder before working.
- © Clean the collet, clamping nut before using so as to get a good performance.

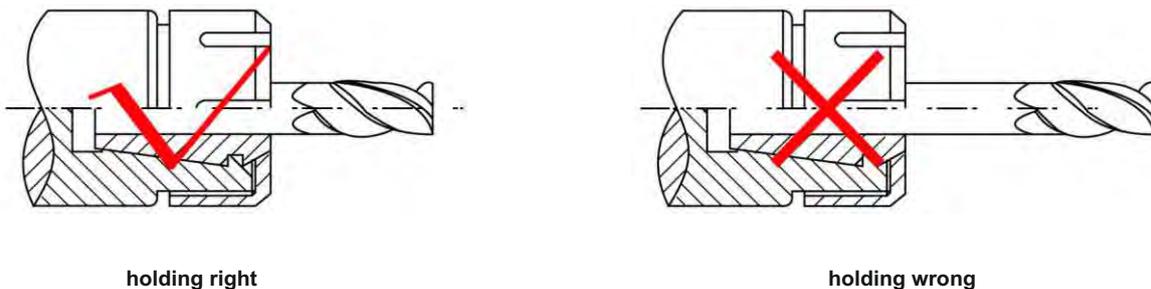


In the process of installation, clamping nut should be tilted some angles with collet. And lock it in card slot.

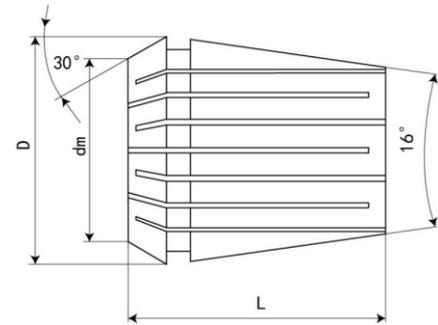


Warning

Make sure that the cutter is correctly mounted in the holder before setting the tool in the machine in case of personal injury. Remove the cutter and collet from chuck. Otherwise, clamping force may be reduced. Even worse, cause the collet brittle fracture.



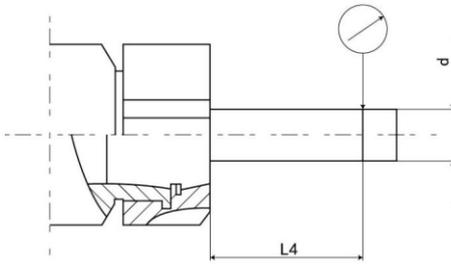
ER HIGH-PRECISION COLLET



dm	ER8	ER11	ER16	ER20	ER25	ER32	ER40	ER50
	L/D							
	13.5/8.45	18.5/11.5	27.5/17.0	31.5/21.0	34.0/26.0	40.0/33.0	46.0/41.0	60.0/51.0
1.0-0.5	ER8-1.0	ER11-1.0	ER16-1.0	ER20-1.0	ER25-1.0	ER32-1.0	ER40-1.0	
1.5-1.0	ER8-1.5	ER11-1.5	ER16-1.5	ER20-1.5	ER25-1.5	ER32-1.5	ER40-1.5	
2.0-1.5	ER8-2.0	ER11-2.0	ER16-2.0	ER20-2.0	ER25-2.0	ER32-2.0	ER40-2.0	
2.5-2.0	ER8-2.5	ER11-2.5	ER16-2.5	ER20-2.5	ER25-2.5	ER32-2.5	ER40-2.5	
3.0-2.5	ER8-3.0	ER11-3.0	ER16-3.0	ER20-3.0	ER25-3.0	ER32-3.0	ER40-3.0	
3.5-3.0	ER8-3.5	ER11-3.5	ER16-3.5	ER20-3.5	ER25-3.5	ER32-3.5	ER40-3.5	
4.0-3.5	ER8-4.0	ER11-4.0	ER16-4.0	ER20-4.0	ER25-4.0	ER32-4.0	ER40-4.0	
4.5-4.0	ER8-4.5	ER11-4.5	ER16-4.5	ER20-4.5	ER25-4.5	ER32-4.5	ER40-4.5	
5.0-4.5	ER8-5.0	ER11-5.0	ER16-5.0	ER20-5.0	ER25-5.0	ER32-5.0	ER40-5.0	ER50-5.0
5.5-5.0		ER11-5.5	ER16-5.5	ER20-5.5	ER25-5.5	ER32-5.5	ER40-5.5	
6.0-5.5		ER11-6.0	ER16-6.0	ER20-6.0	ER25-6.0	ER32-6.0	ER40-6.0	ER50-6.0
6.5-6.0		ER11-6.5	ER16-6.5	ER20-6.5	ER25-6.5	ER32-6.5	ER40-6.5	
7.0-6.5		ER11-7.0	ER16-7.0	ER20-7.0	ER25-7.0	ER32-7.0	ER40-7.0	ER50-7.0
7.5-7.0			ER16-7.5	ER20-7.5	ER25-7.5	ER32-7.5	ER40-7.5	
8.0-7.5			ER16-8.0	ER20-8.0	ER25-8.0	ER32-8.0	ER40-8.0	ER50-8.0
8.5-8.0			ER16-8.5	ER20-8.5	ER25-8.5	ER32-8.5	ER40-8.5	
9.0-8.5			ER16-9.0	ER20-9.0	ER25-9.0	ER32-9.0	ER40-9.0	ER50-9.0
9.5-9.0			ER16-9.5	ER20-9.5	ER25-9.5	ER32-9.5	ER40-9.5	
10.0-9.5			ER16-10.0	ER20-10.0	ER25-10.0	ER32-10.0	ER40-10.0	ER50-10.0
10.5-10.0				ER20-10.5	ER25-10.5	ER32-10.5	ER40-10.5	
11.0-10.5				ER20-11.0	ER25-11.0	ER32-11.0	ER40-11.0	ER50-11.0
11.5-11.0				ER20-11.5	ER25-11.5	ER32-11.5	ER40-11.5	
12.0-11.5				ER20-12.0	ER25-12.0	ER32-12.0	ER40-12.0	ER50-12.0
12.5-12.0				ER20-12.5	ER25-12.5	ER32-12.5	ER40-12.5	
13.0-12.5				ER20-13.0	ER25-13.0	ER32-13.0	ER40-13.0	ER50-13.0
14.0-13.0					ER25-14.0	ER32-14.0	ER40-14.0	ER50-14.0
15.0-14.0					ER25-15.0	ER32-15.0	ER40-15.0	ER50-15.0
16.0-15.0					ER25-16.0	ER32-16.0	ER40-16.0	ER50-16.0
17.0-16.0						ER32-17.0	ER40-17.0	ER50-17.0
18.0-17.0						ER32-18.0	ER40-18.0	ER50-18.0
19.0-18.0						ER32-19.0	ER40-19.0	ER50-19.0
20.0-19.0						ER32-20.0	ER40-20.0	ER50-20.0
21.0-20.0							ER40-21.0	ER50-21.0
22.0-21.0							ER40-22.0	ER50-22.0
23.0-22.0							ER40-23.0	ER50-23.0
24.0-23.0							ER40-24.0	ER50-24.0
25.0-24.0							ER40-25.0	ER50-25.0
26.0-25.0							ER40-26.0	ER50-26.0
27.0-26.0								ER50-27.0
28.0-27.0								ER50-28.0
29.0-28.0								ER50-29.0
30.0-29.0								ER50-30.0
31.0-30.0								ER50-31.0
32.0-31.0								ER50-32.0
33.0-32.0								ER50-33.0
34.0-33.0								ER50-34.0
35.0-34.0								ER50-35.0
36.0-35.0								ER50-36.0

ER COLLET

INSPECTION OF ACCURACY



Model No.	L4	d	Run out		
			A class	AA class	AAA class
ER8	12	3	≤ 0.015	≤ 0.01	≤ 0.008
ER11	15	5	≤ 0.015	≤ 0.01	≤ 0.008
ER16	24	6	≤ 0.015	≤ 0.01	≤ 0.008
ER20	32	8	≤ 0.015	≤ 0.01	≤ 0.008
ER25	48	12	≤ 0.015	≤ 0.01	≤ 0.008
ER32	64	16	≤ 0.015	≤ 0.01	≤ 0.008
ER40	80	20	≤ 0.015	≤ 0.01	≤ 0.008
ER50	100	25	≤ 0.015	≤ 0.01	≤ 0.008



A level Economical type ER collet

Feature:

- ⊙ Material: 65Mn
- ⊙ Hardness: HRC40-44
- ⊙ Accuracy: ≤ 0.015



AA level Economical type ER collet

Feature:

- ⊙ Material: 65Mn
- ⊙ Hardness: HRC44-48
- ⊙ Accuracy: ≤ 0.008



AAA level Economical type ER collet

Feature:

- ⊙ Material: SUJ2
- ⊙ Hardness: HRC44-48
- ⊙ Accuracy: ≤ 0.008
- ⊙ -185°C long cryogenic, nearly of the residual austenite into martensite.

ER COLLET SET



ER8 A class

Model No.	Spec	PCS/SET
ER8-9PCS	1 1.5 2 2.5 3 3.5 4 4.5 5	9PCS/SET
Inch size can be ordered		

ER11 A class

Model No.	Spec	PCS/SET
ER11-7PCS	1 2 3 4 5 6 7	7PCS/SET
ER11-9PCS	3 3.5 4 4.5 5 5.5 6 6.5 7	9PCS/SET
ER11-13PCS	1 1.5 2 2.5 3 3.5 4 4.5 5 5.5 6 6.5 7	13PCS/SET
Inch size can be ordered		

ER16 A class

Model No.	Spec	PCS/SET
ER16-10PCS	1 2 3 4 5 6 7 8 9 10	10PCS/SET
ER16-8PCS	3 4 5 6 7 8 9 10	8PCS/SET
ER16-12PCS	1 1.5 2 2.5 3 4 5 6 7 8 9 10	12PCS/SET
Inch size can be ordered		

ER20 AAA class

Model No.	Spec	PCS/SET
ER20-12PCS	2 3 4 5 6 7 8 9 10 11 12 13	12PCS/SET
ER20-13PCS	1 2 3 4 5 6 7 8 9 10 11 12 13	13PCS/SET
ER20-11PCS	3 4 5 6 7 8 9 10 11 12 13	11PCS/SET
ER20-14PCS	1 1.5 2 3 4 5 6 7 8 9 10 11 12 13	14PCS/SET
Inch size can be ordered		

ER25 AAA class

Model No.	Spec	PCS/SET
ER25-14PCS	3 4 5 6 7 8 9 10 11 12 13 14 15 16	14PCS/SET
ER25-15PCS	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	15PCS/SET
ER25-18PCS	1 1.5 2 2.5 3 4 5 6 7 8 9 10 11 12 13 14 15 16	18PCS/SET
Inch size can be ordered		

HOLDER ACCESSORIES

ER COLLET SET



ER32 A class

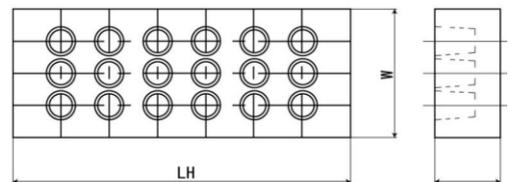
Model No.	Spec	PCS/SET
ER32-18PCS	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	18PCS/SET
ER32-19PCS	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	19PCS/SET
ER32-21PCS	1 1,5 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	21PCS/SET
Inch size can be ordered		



ER40 A class

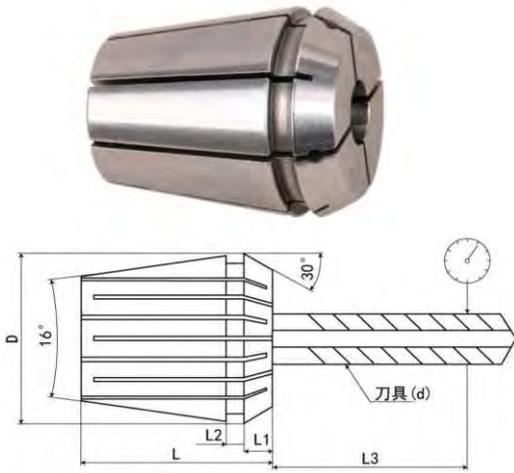
Model No.	Spec	PCS/SET
ER40-24PCS	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	24PCS/SET
ER40-23PCS	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	23PCS/SET
ER40-18PCS	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 25	18PCS/SET
ER40-15PCS	4 5 6 7 8 9 10 12 14 15 16 18 20 22 24 25 26	15PCS/SET
ER40-8PCS	4 6 8 10 12 16 20 25	8PCS/SET
Inch size can be ordered		

ER COLLET WOODEN TRAYS



Model No.	L	W	H	PCS	KGS
ER8	210	20	13	9	0.01
ER11	210	20	13	13	0.01
ER16	275	35	22	10	0.14
ER20	275	35	22	12	0.12
ER25	275	77	26	16	0.18
ER32	340	90	30	18	0.48
ER40	265	210	38	24	0.76
ER50	235	210	37	12	0.64

ER COLLANT COLLET

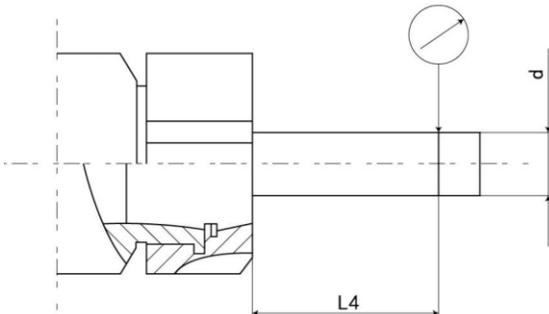


Model	d	Range	D	D1	L	L1
ER11S	3-7	0.1	11	11.5	18	3.8
ER16S	3-6	0.1	16	17	27.5	6.26
	6-10	0.5	16	17	27.5	6.26
ER20S	3-6	0.1	20	21	31.5	6.36
	6-13	0.5	20	21	31.5	6.36
ER25S	3-6	0.1	25	26	34	6.66
	6-16	0.5	25	26	34	6.66
ER32S	3-8	0.1	32	33	40	7.16
	8-20	0.5	32	33	40	7.16
ER40S	4-10	0.1	40	41	46	7.66
	10-26	0.5	40	41	46	7.66
ER50S	12-34	0.5	50	52	60	12.6

Features:

- ◎ Material:SUJ2
- ◎ Hardness:HRC44-48
- ◎ Differences in the use of grooves to reach around the sealing
- ◎ Central water feature only applies to folders to hold the water hole tool
- ◎ Can withstand water pressure 7Mpa
- ◎ Non-standard holes can be customized

INSPECTION OF ACCURACY



L4	d	Run out	
		A class	AA class
16	3.0-6.0	≤ 0.008	≤ 0.005
25	6.0-10.0	≤ 0.008	≤ 0.005
40	10.0-18.0	≤ 0.008	≤ 0.005
50	18.0-27.0	≤ 0.008	≤ 0.005
60	27.0-34.0	≤ 0.015	≤ 0.01

Features:

- ◎ Take use of the difference of flute and the use of sealed ring to attain surrounding coolant and provide center as water outlet.
- ◎ Useful to chuck cutting tools with water outlet.
- ◎ Can bear the water pressure up to 21 kgf/cm².
- ◎ No flexibility (NO flexible chucking range. It depends on the biggest chucking range).
- ◎ Non-standard type, such as inch type or decimal type, are welcomed to order.
- ◎ The ER part of the product is according to DIN-6499. It can be used with suitable tool holders.

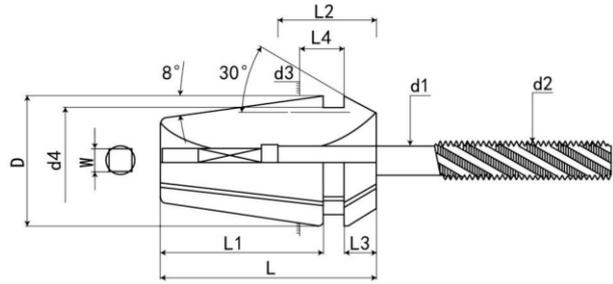
HOLDER ACCESSORIES

ER11S		ER16S		ER20S		ER25S		ER32S		ER40S		ER40S	
Type	Range												
3S	3-2.9	4S	4-3.9	12S	12-11.5								
4S	4-3.9	5S	5-4.9	14S	14-13.5								
4.5S	4.5-4.4	4.5S	4.5-4.4	5S	5-4.9	5S	5-4.9	5S	5-4.9	6S	6-5.9	16S	16-15.5
5S	5-4.9	5S	5-4.9	5.5S	5.5-5.4	6S	6-5.5	6S	6-5.9	7S	7-6.9	16.5S	16.5-16
5.5S	5.5-5.4	5.5S	5.5-5.4	6S	6-5.5	6.5S	6.5-6	7S	7-6.9	8S	8-7.9	17S	17-16.5
6S	6-5.9	6S	6-5.5	6.5S	6.5-6	7S	7-6.5	8S	8-7.5	9S	9-8.9	17.5S	17.5-17
6.5S	6.5-6.4	6.5S	6.5-6	7S	7-6.5	7.5S	7.5-7	8.5S	8.5-8	10S	10-9.5	18S	18-17.5
7S	7-6.9	7S	7-6.5	7.5S	7.5-7	8S	8-7.5	9S	9-8.5	10.5S	10.5-10	18.5S	18.5-18
		7.5S	7.5-7	8S	8-7.5	8.5S	8.5-8	9.5S	9.5-9	11S	11-10.5	19S	19-18.5
		8S	8-7.5	8.5S	8.5-8	9S	9-8.5	10S	10-9.5	11.5S	11.5-11	19.5S	19.5-19
		8.5S	8.5-8	9S	9-8.5	9.5S	9.5-9	10.5S	10.5-10	12S	12-11.5	20S	20-19.5
		9S	9-8.5	9.5S	9.5-9	10S	10-9.5	11S	11-10.5	12.5S	12.5-12	20.5S	20.5-20
		9.5S	9.5-9	10S	10-9.5	10.5S	10.5-10	11.5S	11.5-11	13S	13-12.5	21S	21-20.5
		10S	10-9.5	10.5S	10.5-10	11S	11-10.5	12S	12-11.5	13.5S	13.5-13	21.5S	21.5-21
				11S	11-10.5	11.5S	11.5-11	12.5S	12.5-12	14S	14-13.5	22S	22-21.5
				11.5S	11.5-11	12S	12-11.5	13S	13-12.5	14.5S	14.5-14	22.5S	22.5-22
				12S	12-11.5	12.5S	12.5-12	13.5S	13.5-13	15S	15-14.5	23S	23-22.5
				12.5S	12.5-12	13S	13-12.5	14S	14-13.5	15.5S	15.5-15	23.5S	23.5-23
				13S	13-12.5	13.5S	13.5-13	14.5S	14.5-14	16S	16-15.5	24S	24-23.5
						14S	14-13.5	15S	15-14.5	16.5S	16.5-16	24.5S	24.5-24
						14.5S	14.5-14	15.5S	15.5-15	17S	17-16.5	25S	25-24.5
						15S	15-14.5	16S	16-15.5	17.5S	17.5-17	25.5S	25.5-25
						15.5S	15.5-15	16.5S	16.5-16	18S	18-17.5	26S	26-25.5
						16S	16-15.5	17S	17-16.5	18.5S	18.5-18	26.5S	26.5-26
								17.5S	17.5-17	19S	19-18.5	27S	27-26.5
								18S	18-17.5	19.5S	19.5-19	27.5S	27.5-27
								18.5S	18.5-18	20S	20-19.5	28S	28-27.5
								19S	19-18.5	20.5S	20.5-20	28.5S	28.5-28
								19.5S	19.5-19	21S	21-20.5	29S	29-28.5
								20S	20-19.5	21.5S	21.5-21	29.5S	29.5-29
										22S	22-21.5	30S	30-29.5
										22.5S	22.5-22	30.5S	30.5-30
										23S	23-22.5	31S	31-30.5
										23.5S	23.5-23	31.5S	31.5-31
										24S	24-23.5	32S	32-31.5
										24.5S	24.5-24	32.5S	32.5-32
										25S	25-24.5	33S	33-32.5
										25.5S	25.5-25	33.5S	33.5-33
										26S	26-25.5	34S	34-33.5

HOLDER ACCESSORIES

Model No.	Capacity	Type	PCS/SET
ER11S	3-7	3 4 4.5 5 5.5 6 6.5 7	8
ER16S	3-10	3 4 5 6 7 8 9 10	8
ER20S	3-13	3 4 5 6 7 8 9 10 11 12 13	11
ER25S	3-16	3 4 5 6 7 8 9 10 11 12 13 14 15 16	14
ER32S	3-20	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	18
ER40S	4-26	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	23
ER50S	12-34	12 14 16 18 20 22 24 26 28 30 32 34	12

ERG RIGID TAP COLLET (ISO)



Outer diameter size according to DIN6499-B

Model	D	d3	d4	L	L1	L3	L4	Capacity	KGS
ER16G	17	16	13.8	27.5	20.8	4.0	6.26	M3-M10	0.003
ER20G	21	20	17.4	31.5	23.9	4.8	6.36	M3-M17	0.04
ER25G	26	25	22	34	25.9	5.0	6.66	M3-M22	0.06
ER32G	33	32	29.2	40	31.8	5.5	7.16	M3-M27	0.10
ER40G	42	40	36.2	46	35.5	7	7.66	M3-M27	0.25
ER50G	52	50	46	60	46	8.5	12.6	M6-M36	0.4

© Material: SUJ2
© Hardness: 44-48HRC

ER16G

Model	d1	W	Standard d2				L2
			ISO	JIS	DIN371	DIN376	
ER16G-2.24	2.24	1.8	M3				15
ER16G-2.5	2.5	2.1				M3.5	
		2	M3.5				
ER16G-2.8	2.8	2.1				M4	18
ER16G-3	3	2.5		M2			
ER16G-3.15	3.15	2.5	M3/M4				
ER16G-3.5	3.5	2.7			M3	M5	
ER16G-3.55	3.55	2.8	M3.5/M4.5				
		3		M3.5			
ER16G-4	4	3.1		M3			
		3.15	M4/M5				
ER16G-4.5	4.5	3.4			M4	M6	
		3.55	M6				
ER16G-5	5	4	M5	M4/M4.5			
		4.3				M7	
ER16G-5.5	5.5	4.5		M5/M5.5			
		4.5		M6			
ER16G-6	6	4.5			M5/M6	M8	
		4.9					
ER16G-6.2	6.2	5		M7/M8			
ER16G-6.3	6.3	5	M6/M8				
ER16G-7	7	5.5		M9/M10	M7	M10	
ER16G-8	8	6		M11			
		6.2			M8	M11	
		6.3	M8/M10				
ER16G-8.5	8.5	6.5		M12			
ER16G-9	9	7				M12	
		7.1	M12				
ER16G-10	10	8	M10		M10		

ER20G

Model	d1	W	Standard d2				L2
			ISO	JIS	DIN371	DIN376	
ER20G-2.24	2.24	1.8	M3				15
ER20G-2.5	2.5	2.1				M3.5	
		2	M3.5				
ER20G-2.8	2.8	2.1				M4	18
ER20G-3	3	2.5		M2			
ER20G-3.15	3.15	2.5	M3/M4				
ER20G-3.5	3.5	2.7			M3	M5	
ER20G-3.55	3.55	2.8	M3.5/M4.5				
		3		M3.5			
ER20G-4	4	3.1		M3			
		3.15	M4/M5				
ER20G-4.5	4.5	3.4			M4	M6	
		3.55	M6				
ER20G-5	5	4	M5	M4/M4.5			
ER20G-5.5	5.5	4.3				M7	
		4.5		M5/M5.5			
ER20G-6	6	4.5		M6			
		4.9			M5/M6	M8	
ER20G-6.2	6.2	5		M7/M8			
ER20G-6.3	6.3	5	M6/M8				
ER20G-7	7	5.5		M9/M10	M7	M10	
ER20G-8	8	6		M11			
		6.2			M8	M11	
		6.3	M8/M10				
ER20G-8.5	8.5	6.5		M12			
ER20G-9	9	7				M12	
		7.1	M12				
ER20G-10	10	8	M10		M10		
ER20G-10.5	10.5	8		M14/M15			25
ER20G-11	11	9				M14	
ER20G-11.2	11.2	9	M14				
ER20G-12	12	9				M16	
ER20G-12.5	12.5	10	M16	M16			
ER20G-13	13	10		M17			

© When ordering please specify the collet type, and the size of d2, d1, W.

HOLDER ACCESSORIES

ERG RIGID TAP COLLET (ISO)

ER25G

Model	d1	W	Standard d2				L2
			ISO	JIS	DIN371	DIN376	
ER25G-2.24	2.24	1.8	M3				15
ER25G-2.5	2.5	2.1				M3.5	
		2	M3.5				
ER25G-2.8	2.8	2.1				M4	
ER25G-3	3	2.5		M2			18
ER25G-3.15	3.15	2.5	M3/M4				
ER25G-3.5	3.5	2.7			M3	M5	
ER25G-4	4	3.55	M3.5/M4.5				
		3			M3.5		
		3.1		M3			
ER25G-4.5	4.5	3.15	M4/M5				
		3.4			M4	M6	
ER25G-5	5	3.55	M6				
		4	M5	M4/M4.5			
ER25G-5.5	5.5	4.3				M7	
		4.5		M5/M5.5			
ER25G-6	6	4.5		M6			
		4.9			M5/M6	M8	
ER25G-6.2	6.2	5		M7/M8			
ER25G-6.3	6.3	5	M6/M8				
ER25G-7	7	5.5		M9/M10	M7	M10	
		6		M11			
ER25G-8	8	6.2			M8	M11	
		6.3	M8/M10				
ER25G-8.5	8.5	6.5		M12			
ER25G-9	9	7				M12	
		7.1	M12				
ER25G-10	10	8	M10		M10		
ER25G-10.5	10.5	8		M14/M15			
ER25G-11	11	9				M14	
ER25G-11.2	11.2	9	M14				
ER25G-12	12	9				M16	
ER25G-12.5	12.5	10	M16	M16			
ER25G-13	13	10		M17			
ER25G-14	14	11		M18		M18	
		11.2	M18/M20				
ER25G-15	15	12		M20			
ER25G-16	16	12				M20	
		12.5	M22				

ER32G

Model	d1	W	Standard d2				L2
			ISO	JIS	DIN371	DIN376	
ER32G-2.24	2.24	1.8	M3				15
ER32G-2.5	2.5	2.1				M3.5	
		2	M3.5				
ER32G-2.8	2.8	2.1				M4	
ER32G-3	3	2.5		M2			18
ER32G-3.15	3.15	2.5	M3/M4				
ER32G-3.5	3.5	2.7			M3	M5	
ER32G-4	4	3.55	M3.5/M4.5				
		3			M3.5		
		3.1		M3			
ER32G-4.5	4.5	3.15	M4/M5				
		3.4			M4	M6	
ER32G-5	5	3.55	M6				
		4	M5	M4/M4.5			
ER32G-5.5	5.5	4.3				M7	
		4.5		M5/M5.5			
ER32G-6	6	4.5		M6			
		4.9			M5/M6	M8	
ER32G-6.2	6.2	5		M7/M8			
ER32G-6.3	6.3	5	M6/M8				
ER32G-7	7	5.5		M9/M10	M7	M10	
		6		M11			
ER32G-8	8	6.2			M8	M11	
		6.3	M8/M10				
ER32G-8.5	8.5	6.5		M12			
ER32G-9	9	7				M12	
		7.1	M12				
ER32G-10	10	8	M10		M10		
ER32G-10.5	10.5	8		M14/M15			
ER32G-11	11	9				M14	
ER32G-11.2	11.2	9	M14				
ER32G-12	12	9				M16	
ER32G-12.5	12.5	10	M16	M16			
ER32G-13	13	10		M17			
ER32G-14	14	11		M18		M18	
		11.2	M18/M20				
ER32G-15	15	12		M20			
ER32G-16	16	12				M20	
		12.5	M22				
ER32G-17	17	13		M22			
ER32G-18	18	14.5				M22/M24	
		14	M24				
ER32G-19	19	15		M24/M25			
ER32G-20	20	15		M26/M27			

ERG RIGID TAP COLLET (ISO)

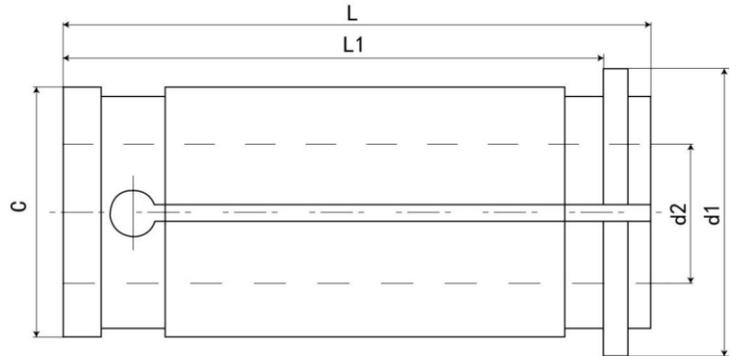
ER40G

Model	d1	W	Standard d2				L2
			ISO	JIS	DIN371	DIN376	
ER40G-2.24	2.24	1.8	M3				15
ER40G-2.5	2.5	2.1				M3.5	
		2	M3.5				
ER40G-2.8	2.8	2.1				M4	18
ER40G-3	3	2.5		M2			
ER40G-3.15	3.15	2.5	M3/M4				
ER40G-3.5	3.5	2.7			M3	M5	
ER40G-3.55	3.55	2.8	M3.5/M4.5				
		3			M3.5		
		3.1		M3			
ER40G-4	4	3.15	M4/M5				
		3.4			M4	M6	
ER40G-4.5	4.5	3.55	M6				
ER40G-5	5	4	M5	M4/M4.5			
ER40G-5.5	5.5	4.3				M7	
		4.5		M5/M5.5			
ER40G-6	6	4.5		M6			
		4.9			M5/M6	M8	
ER40G-6.2	6.2	5		M7/M8			
ER40G-6.3	6.3	5	M6/M8				
ER40G-7	7	5.5		M9/M10	M7	M10	
ER40G-8	8	6		M11			
		6.2			M8	M11	
		6.3	M8/M10				
ER40G-8.5	8.5	6.5		M12			
ER40G-9	9	7				M12	
		7.1	M12				
ER40G-10	10	8	M10		M10		
ER40G-10.5	10.5	8		M14/M15			
ER40G-11	11	9				M14	
ER40G-11.2	11.2	9	M14				
ER40G-12	12	9				M16	
ER40G-12.5	12.5	10	M16	M16			
ER40G-13	13	10		M17			
ER40G-14	14	11		M18		M18	
		11.2	M18/M20				
ER40G-15	15	12		M20			
ER40G-16	16	12				M20	
		12.5	M22				
ER40G-17	17	13		M22			
ER40G-18	18	14.5				M22/M24	
		14	M24				
ER40G-19	19	15		M24/M25			
ER40G-20	20	15		M26/M27			

ER50G

Model	d1	W	Standard d2				L2
			ISO	JIS	DIN371	DIN376	
ER50G-6	6	4.5		M6			18
		4.9			M5/M6	M8	
ER50G-6.2	6.2	5		M7/M8			
ER50G-6.3	6.3	5	M6/M8				
ER50G-7	7	5.5		M9/M10	M7	M10	
ER50G-8	8	6		M11			
		6.2			M8	M11	
		6.3	M8/M10				
ER50G-8.5	8.5	6.5		M12			
ER50G-9	9	7				M12	
		7.1	M12				
ER50G-10	10	8	M10		M10		
ER50G-10.5	10.5	8		M14/M15			
ER50G-11	11	9				M14	
ER50G-11.2	11.2	9	M14				
ER50G-12	12	9				M16	
ER50G-12.5	12.5	10	M16	M16			
ER50G-13	13	10		M17			
ER50G-14	14	11		M18		M18	
		11.2	M18/M20				
ER50G-15	15	12		M20			
ER50G-16	16	12				M20	
		12.5	M22				
		13		M22			
ER50G-17	17	13				M22/M24	
		14.5					
ER50G-18	18	14	M24				
ER50G-19	19	15		M24/M25			
ER50G-20	20	15		M26/M27			
ER50G-21	21	17		M28			
ER50G-22	22	18				M30	
ER50G-22.4	22.4	18	M33				
ER50G-23	23	17		M30			
		19		M33			
		20	M36				
ER50G-25	25	21		M36			
ER50G-28	28	21		M36			

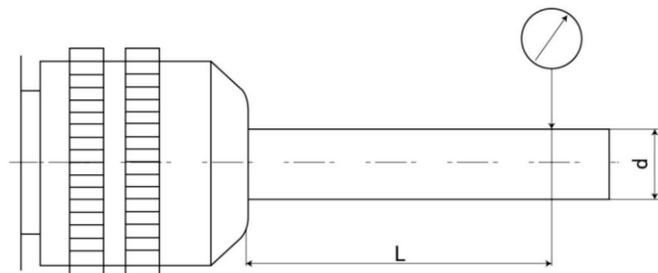
C STRAIGHT COLLET



Model	d2 Range	C	d1	L	L1
SC16	3/4/5/6/7/8/9/10/11/12	16	25	49	47
SC20	3/4/5/6/7/8/9/10/11/12/13/14/15/16	20	25	52.5	49
SC22	3/4/5/6/7/8/9/10/11/12/13/14/15/16	22	26	55	51.5
SC25	3/4/5/6/7/8/9/10/11/12/13/14/15/16/18/19/20	25	30	60	55
SC32	3/4/5/6/7/8/9/10/11/12/13/14/15/16/18/19/20/21/22/23/24/25/26	32	37.5	65	60
SC42	3/4/5/6/7/8/9/10/11/12/13/14/15/16/18/19/20/21/22/23/24/25/26/27 28/29/30/31/32/33/34/35/36	42	47	75	69
Inch size can be ordered					

HOLDER ACCESSORIES

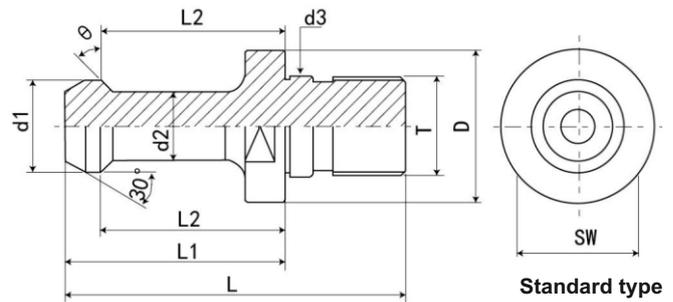
d	L	Run out	
		General level	High precision
< 10	30	0.015	0.01
≥ 10-20	50	0.015	0.01
> 20	80	0.02	0.01



Features:

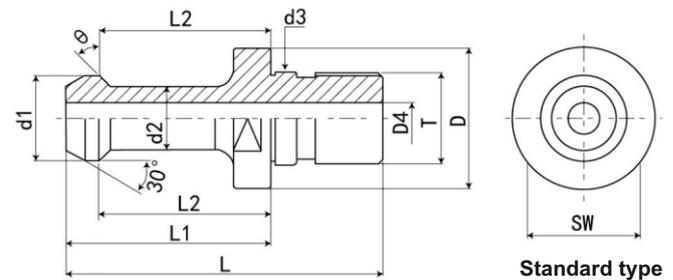
- ◎ Material: SUJ-2.
- ◎ Hardness: HRC44-48
- ◎ Precision: ≤ 0.01mm
- ◎ Definition clamp and aperture same shank of tool diameter.
- ◎ The collet does not have the elastic contraction scope, the emphasis chucking power.
- ◎ In the cutting tool posts the collet to surpass the hole effective clamp length, achieves the effective clamp.
- ◎ There are two kinds of classes for precision: High precision 0.01 mm, General level 0.015mm.
- ◎ Please inform the required precision when ordering.

PULL STUD MAS 403



Standard type

Model	D	d1	d2	d3	L	L1	L2	T	KGS
BT30-45°	16.5	11	7	12.5	43	23	18	M12	0.04
BT40-45°	23	15	10	17	60	35	28	M16	0.1
BT50-45°	38	23	17	25	85	45	35	M24	0.3
BT60-45°	56	32	24	31	115	65	53	M30	0.4
BT30-60°	16.5	11	7	12.5	43	23	18	M12	0.04
BT40-60°	23	15	10	17	60	35	28	M16	0.1
BT50-60°	38	23	17	25	85	45	35	M24	0.3
BT60-60°	56	32	24	31	115	65	53	M30	0.4
BT30-90°	16.5	11	7	12.5	43	23	18	M12	0.04
BT40-90°	23	15	10	17	60	35	28	M16	0.1
BT50-90°	38	23	17	25	85	45	35	M24	0.3
BT60-90°	56	32	24	31	115	65	53	M30	0.4



Standard type

Model	D	D4	d1	d2	d3	L	L1	L2	T	KGS
BT30-45° W	16.5	3	11	7	12.5	43	23	18	M12	0.04
BT40-45° W	23	4	15	10	17	60	35	28	M16	0.1
BT50-45° W	38	6	23	17	25	85	45	35	M24	0.3
BT60-45° W	56	14	32	24	31	115	65	53	M30	0.4
BT30-60° W	16.5	3	11	7	12.5	43	23	18	M12	0.04
BT40-60° W	23	4	15	10	17	60	35	28	M16	0.1
BT50-60° W	38	6	23	17	25	85	45	35	M24	0.3
BT60-30° W	56	14	32	24	31	115	65	53	M30	0.4
BT30-90° W	16.5	3	11	7	12.5	43	23	18	M12	0.04
BT40-90° W	23	4	15	10	17	60	35	28	M16	0.1
BT50-90° W	38	6	23	17	25	85	45	35	M24	0.3
BT60-90° W	56	14	32	24	31	115	65	53	M30	0.4

Features:

General level Pull stud

- ⊙ Material:40Cr.
- ⊙ Head hardness:46-50HRC.
- ⊙ Thread hardness is a little low;35 ±5HRC, (Protect shank thread, core hardness can resist hit).
- ⊙ Accuracy:0.02

High-precision Hard Pull stud

- ⊙ Material:20CrMnTi.
- ⊙ Head hardness:55-58HRC.
- ⊙ Thread hardness is a little low;35±5HRC, (Protect shank thread, core hardness can resist hit).
- ⊙ Accuracy: 0.01
- ⊙ Please inform the required precision when ordering.

ADAPTOR SLEEVES FOR MORSE TAPER WITHOUT TANG

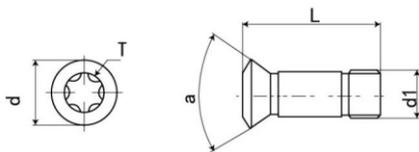
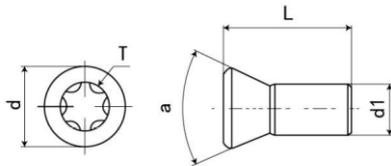


Standard type

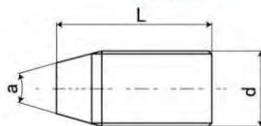
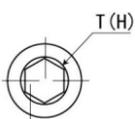
Model	d1	d2	d3	d4	d5	d6	L	L1	L2	L3	L4	L5	SW	KGS
BT30-45° -M10	11	7	16.5	12.5	M10	7	90	67	23	18	2	5	13	0.06
BT30-45° -M12	11	7	16.5	12.5	M12	7	90	67	23	18	2	5	13	0.06
BT40-45° -M10	15	10	23	17	M10	10	115	80	35	28	2.7	6	19	0.1
BT40-45° -M12	15	10	23	17	M12	10	115	80	35	28	2.7	6	19	0.1
BT40-45° -M14	15	10	23	17	M14	10	115	80	35	28	2.7	6	19	0.15
BT40-45° -M16	15	10	23	17	M16	10	115	80	35	28	2.7	6	19	0.15
BT50-45° -M10	23	17	38	25	M10	17	170	125	45	35	5	10	30	0.3
BT50-45° -M12	23	17	38	25	M12	17	170	125	45	35	5	10	30	0.35
BT50-45° -M14	23	17	38	25	M14	17	170	125	45	35	5	10	30	0.35
BT50-45° -M16	23	17	38	25	M16	17	170	125	45	35	5	10	30	0.35
BT50-45° -M20	23	17	38	25	M20	17	170	125	45	35	5	10	30	0.4
BT60-45° -M24	32	24	56	31	M24	24	238	172	65	53	6	14	41	1

SCREW

HOLDER ACCESSORIES



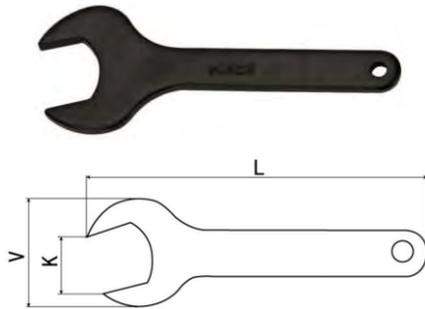
Model	(mm)				
	d	d1	L	a	T(H)
M2*4	2.7	2	3.7	55°	6
M2*5	2.7	2	5	55°	6
M2.2*5	3	2.2	4.8	55°	8
M2.5*5	3.5	2.5	5.5	55°	8
M2.5*6	3.5	2.5	6	55°	8
M3*6	4	3	6.5	55°	10
M3*7	4	3	7	55°	10
M3.5*8	5.2	3.5	8.5	55°	15
M4*8	5.5	4	8.5	55°	15
M4*9	5.5	4	9	55°	15
M4*10	6	4	10	55°	15
M4*11	5.5	4	11	55°	15
M5*11	7.2	5	11	55°	15
M5*12	7.2	5	12	55°	20
M3*7B	4.5	3	7	60°	8
M3*10B	4.5	3	10	60°	8
M3.5*8B	5.2	3.5	8	60°	15
M4*8B	5.7	4	8.2	60°	15
M4*10B	5.7	4	10	60°	15
M5*12B	7.2	5	12	60°	20



Model	(mm)			
	d1	L	a	T(H)
AHV0507-2.5	5	7	60	2.5
AHV0608-3	6	8	60°	3
AHV0811-4	8	11	60°	4
AHV1014-5	10	14	60°	5
AHV1218-6	12	18	60°	6

SPANNER

ER-A SPANNER



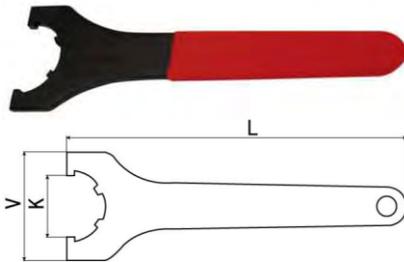
Model	Nut diameter	L	V	K
ER11-A	19	110	40	17
ER16-A	28	120	53	25
ER20-A	34	130	60	30

ER-M SPANNER



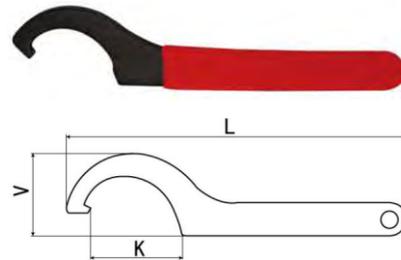
Model	Nut diameter	L	V	K
ER8-M	12	70	12	7.5
ER11-M	16	90	17	11
ER16-M	22	110	23	15
ER20-M	28	120	29	19.5
ER25-M	35	130	36	25

ER-UM SPANNER



Model	Nut diameter	L	V	K
ER16-UM	32	180	40	26
ER20-UM	35	190	55	30
ER25-UM	42	210	60	35
ER32-UM	50	250	72	45
ER40-UM	63	290	86	58
ER50-UM	78	350	105	73

HOOK HEAD SPANNER



Model	Apple holder and nut	L
18-21	EOC6	90
22-26	EOC8	125
28-32	EOC10	140
34-36	EOC12	154
38-42	EOC16 7316A APU08	168
45-52	EOC20 ER25-UM 7316B APU13	190
55-62	EOC25 ER32-UM APU13 APU16 C20 C22 C25	210
68-72	EOC32 ER40-UM	230
78-85	EOC40 C32 ER50-UM	240
100-110	EOC50 C42 JXT25-50	250

BALL SPANNER



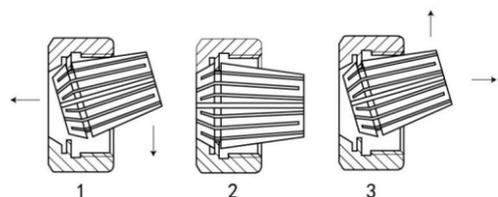
Model	Specifications	D	L
WH-GSK06	GSK06	19.5	120
WH-GSK10	GSK10	30	152.5
WH-GSK16	GSK16	40	200
WH-GSK20	GSK20	48	200
WH-GSK25	GSK25	55	210
WH-GER16	GER16	30	150
WH-GER20	GER20	35	160
WH-GER25	GER25	40	181
WH-GER32	GER32	50	200

HIGH PRECISION ER NUT



Type	Modal No.	D	L	T
A	ER8A	13.5	11	M10*0.75P
	ER11A	19	11.3	M14*0.75P
	ER16A	28	17.5	M22*1.5P
	ER20A	34	19	M25*1.5P
M	ER8M	12	11	M10*0.75P
	ER11M	16	12	M13*0.75P
	ER16M	22	18	M19*1.0P
	ER20M	28	19	M24*1.0P
	ER25M	35	20	M30*1.0P
UM/RD	ER16UM	32	17	M22*1.5P
	ER20UM	35	19	M25*1.5P
	ER25UM	42	20	M32*1.5P
	ER32UM	50	22.5	M40*1.5P
	ER40UM	63	25.5	M50*1.5P
KM/RD	ER50UM	78	35.5	M64*2.0P
	ER25KM	42	20	M32*1.5P
	ER32KM	50	22.5	M40*1.5P
	ER40KM	63	25.5	M50*1.5P
MS	ER50KM	78	35.5	M64*2.0P
	ER11MS	16	11.3	M13*0.75P
	ER16MS	22	17	M19*1.0P
	ER20MS	28	19	M24*1.0P
GER	ER25MS	35	23	M30*1.0P
	GER16	30	23	M19*1.0P
	GER20	35	25	M24*1.0P
	GER25	40	26	M30*1.0P
GER	GER32	50	30	M40*1.5P

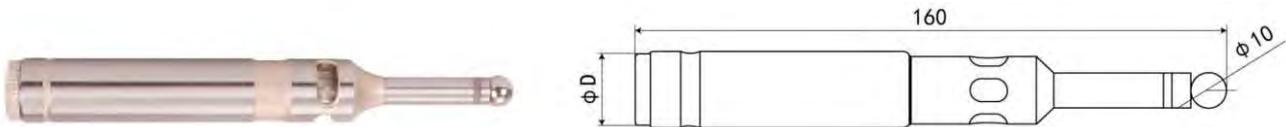
Type	Model No.	D	L		T
			Fig1	Fig2	
GSK	GSK6	19.5	15	21	M15.5*1
	GSK10	27.5	17	24	M21.5*1
	GSK16	40	24	31	M32*1.5
	GSK20	48	27	35	M40*1.5
	GSK25	50	30	37	M40*1.5



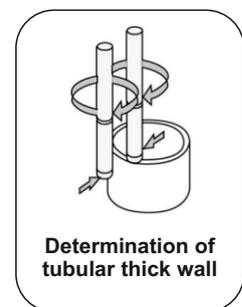
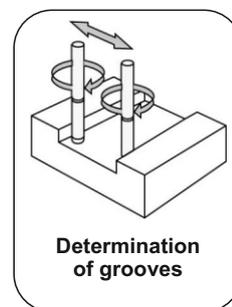
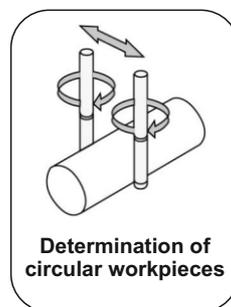
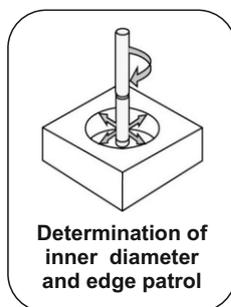
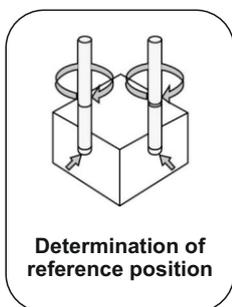
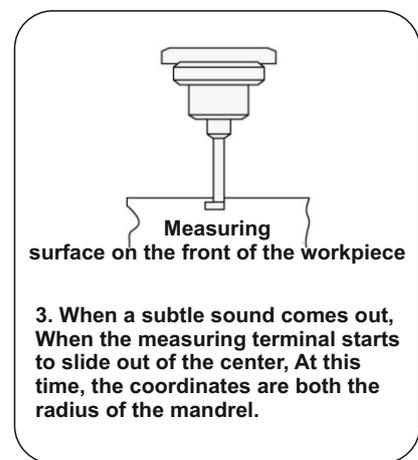
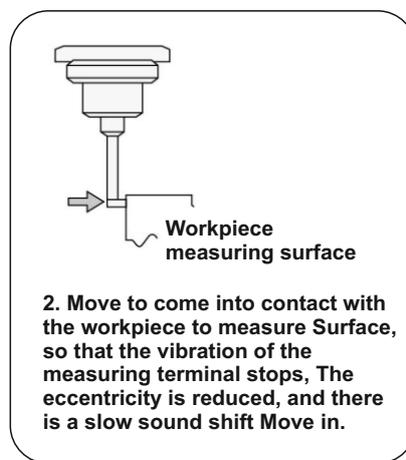
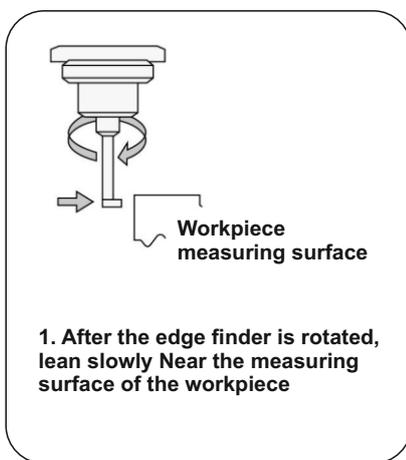
Mounting instructio for ER collets and nuts

- © Put the collet into the nut, tturn the collet slightly. Push it into the nut at the offered direction evenly when the offset flange sinks into the undercut of the collet
- © Fix the nut and the collet on the spindle rotate the nut until the collet is in pressing, wipe the straight shank of cutter, and instert it into the pilot hole. Tighten the nut with a wrench till the cutter is clamped heavily (Caution: never tighten the nut without cutter in it for it will break)
- © When changing the tool. Loosen the nut and it shall bring out the collet and the cutter together. And the draw the cutter out push out slightly the collet in the offered direction, it shall be ready for any change of the cutter.

HIGH SENSITIVE ELECTRONIC EDGE SENSOR



Name	Model number	Specification	D
Name Photoelectric edge finder	ES-20	Φ20	20
	ES-32	Φ32	32

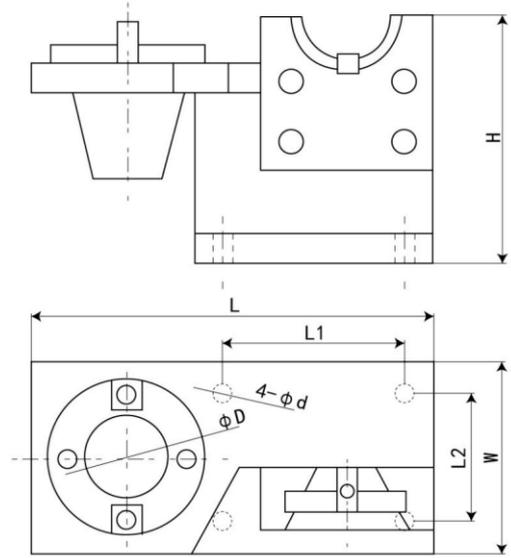


Features:

- ◎ 2 pieces battery (UM5#15V)
- ◎ The red light on with electronic sound
- ◎ According to the sound for deep hole testing

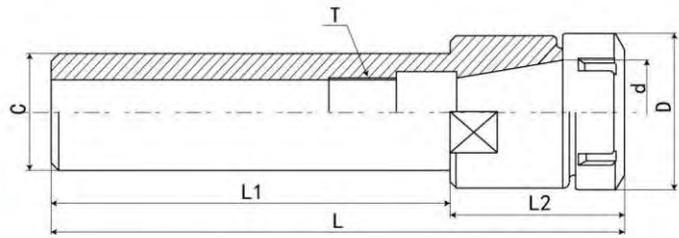


BT TOOL TIGHTENING FIXTURE



Model	L	L1	L2	W	H	D	d
BT30-TL-Holder	210	95	67	100	130	31.75	8.5
BT40-TL-Holder	210	95	67	100	130	44.45	8.5
BT50-TL-Holder	275	113	105	138	200	69.85	13

C-ER STRAIGHT SHANK COLLET CHUCK AND EXTENSION TYPE



P.O15

P.O03

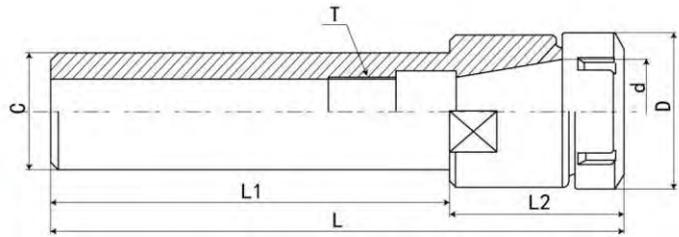
P.O16

Model	L	L1	L2	D	d	C	T
C8-ER11A-100L	116.6	100	16.6	19	11	8	M5×0.8P
C8-ER11M-100L	116.6	100	16.6	16	11	8	M5×0.8P
C10-ER8M-100L	115	100	15	12	11	10	M6×1.0P
C10-ER8M-150L	165	150	15	12	11	10	M6×1.0P
C10-ER11A-100L	116.6	100	16.6	19	11	10	M6×1.0P
C10-ER11A-150L	166.6	150	16.6	19	11	10	M6 x 1.0P
C10-ER11M-100L	116.6	100	16.6	16	11	10	M6×1.0P
C10-ER11M-150L	166.6	150	16.6	16	11	10	M6x 1.0P
C12-ER11A-100L	116.6	100	16.6	19	11	12	M8× 1.25P
C12-ER11A-150L	166.6	150	16.6	19	11	12	M8 x 1.26P
C12-ER11M-100L	116.6	100	16.6	16	11	12	M8x 1.27P
C12-ER11M-150L	166.6	150	16.6	16	11	12	M8 x 1.28P
Model	L	L1	L2	D	d	C	T
C16-ER11A-100L	116.6	100	16.6	19	11	16	M10 x1.5P
C16-ER11A-150L	166.6	150	16.6	19	11	16	M10x1.5P
C16-ER11M-100L	116.6	100	16.6	16	11	16	M10 x 1.5P
C16-ER11M-150L	166.6	150	16.6	16	11	16	M10 x1.5P
C16-ER16A-100L	140	100	40	28	16	16	M10 x 1.5P
C16-ER16A-150L	190	150	40	28	16	16	M10 ×1.5P
C16-ER16A-200L	240	200	40	28	16	16	M10 x 1.5P
C16-ER16M-100L	140	100	40	22	16	16	M10 × 1.5P
C16-ER16M-150L	190	150	40	22	16	16	M10 x 1.5P
C16-ER16M-200L	240	200	40	22	16	16	M10 × 1.5P
C16-ER20A-100L	140.5	100	40.5	34	20	16	M10 x 1.5P
C16-ER20A-150L	190.5	150	40.5	34	20	16	M10 × 1.5P
C16-ER20M-100L	140.5	100	40.5	28	20	16	M10 x 1.5P
C16-ER20M-150L	190.5	150	40.5	28	20	16	M10 x1.5P

Features:

- ◎ Material: 20CrMnTi, Surface hardness: 52-55HRC, Shank hardness:40-45HRC.
- ◎ Shank is longer,suitable for deep hole processing.
- ◎ Outer diameter and other parts after grinding. eliminate the unbalanced allowance,conducive to the stability of the cutting.
- ◎ Can reduce to the selection of lengthen cutting tool, reduce cost and improve efficiency.
- ◎ Precision:0.005mm.

C-ER STRAIGHT SHANK COLLET CHUCK AND EXTENSION TYPE



Model	L	L1	L2	D	d	C	T
C20-ER16A-100L	140	100	40	28	16	20	M12x 1.75P
C20-ER16A-150L	190	150	40	28	16	20	M12 x 1.75P
C20-ER16A-200L	240	200	40	28	16	20	M12x1.75P
C20-ER16M-100L	140	100	40	22	16	20	M12 x 1.75P
C20-ER16M-150L	190	150	40	22	16	20	M12 x 1.75P
C20-ER16M-200L	240	200	40	22	16	20	M12 x 1.75P
C20-ER20A-100L	140.5	100	40.5	34	20	20	M12x 1.75P
G20-ER20A-150L	194.5	150	40.5	34	20	20	M12 x 1.75P
C20-ER20A-200L	240.5	200	40.5	34	20	20	M12 x 1.75P
C20-ER20A-250L	290.5	250	40.5	34	20	20	M12 x 1.75P
C20-ER20M-100L	140.5	100	40.5	28	20	20	M12 x 1.75P
C20-ER20M-150L	194.5	150	40.5	28	20	20	M12 x 1.75P
C20-ER20M-200L	240.5	200	40.5	28	20	20	M12 x 1.75P
C20-ER20M-250L	290.5	250	40.5	28	20	20	M12 x 1.75P
C20-ER25UM-100L	151	10	51	42	25	20	M12x 1.75P
C20-ER25UM-150L	201	150	51	42	25	20	M12 x 1.75P
Model	L	L1	L2	D	d	C	T
C25-ER20A-100L	140.5	100	40.5	34	20	25	M14x 2.0P
C25-ER20A-150L	194.5	150	40.5	34	20	25	M14x 2.0P
C25-ER20A-200L	240.5	20	40.5	34	20	25	M14x 2.0P
C25-ER20M-100L	140.5	10	40.5	28	20	25	M14x2.0P
C25-ER20M-150L	194.5	150	40.5	28	20	25	M14 x 2.0P
C25-ER20M-200L	240.5	200	40.5	28	20	25	M14x 2.0P
C25-ER25UM-100L	150	100	51	42	25	25	M14x 2.0P
C25-ER25UM-150L	201	150	51	42	25	25	M14 x 2.0P
C25-ER25UM-200L	251	200	51	42	25	25	M14 x 2.0P
C25-ER25UM-250L	30	250	51	42	25	25	M14x 2.0P
C25-ER32UM-100L	151.5	100L	51.5	50	32	25	M14x2.0P
C25-ER32UM-150L	201.5	150L	51.5	50	32	25	M14 x 2.0P
Model	L	L1	L2	D	d	C	T
C32-ER25UM-100L	151.5	100L	51.5	50	25	25	M16x 2.0P
C32-ER25UM-150L	201.5	150L	51.5	50	25	25	M16x 2.0P
C32-ER25UM-200L	251.5	200L	51.5	50	25	25	M16x 2.0P
C32-ER32UM-100L	151.5	100	51.5	50	32	32	M16 x 2.0P
C32-ER32UM-150L	201.5	150	51.5	50	32	32	M16 x 2.0P
C32-ER32UM-200L	251.5	200	51.5	50	32	32	M16 x 2.0P
C32-ER32UM-250L	301.5	250	51.5	50	32	32	M16 x 2.0P
C32-ER32UM-300L	351.5	300	51.5	50	32	32	M16x 2.0P
C32-ER40UM-100L	165	100	65	63	40	32	M16x 2.0P
C32-ER40UM-150L	215	150	65	63	40	32	M16x 2.0P
C32-ER40UM-200L	265	200	65	63	40	32	M16 x 2.0P

Features:

- ◎ Material: 20CrMnTi, Surface hardness :52-55HRC, Shank hardness: 40-45HRC.
- ◎ Shank is longer,suitable for deep hole processing.
- ◎ Outer diameter and other parts after grinding. eliminate the unbalanced allowance,conducive to the stability of the cutting.
- ◎ Can reduce to the selection of lengthen cutting tool, reduce cost and improve efficiency.
- ◎ Precision: 0.005mm.

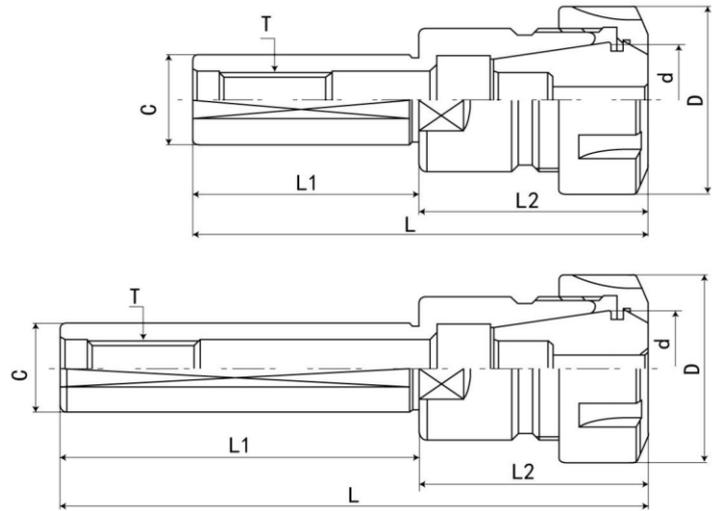
SL-ER STRAIGHT SHANK COLLET CHUCK AND EXTENSION TYPE



P.O15

P.O03

P.O16



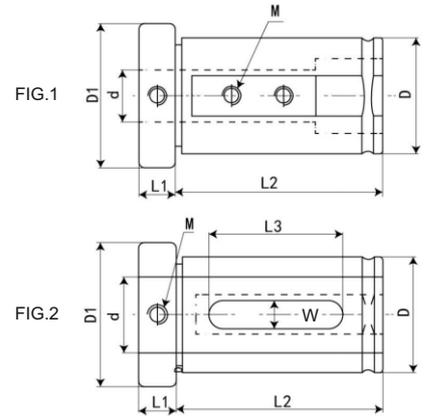
Model	L	L1	L2	D	d	C	T
SL16-ER16-80L	122	80	42	28	16	16	M10*1.5P
SL16-ER16-100L	142	100	42	28	16	16	M10*1.5P
SL20-ER16-80L	122	80	42	28	16	20	M12*1.75P
SL20-ER20-80L	122	80	42	34	20	20	M12*1.75P
SL20-ER20-100L	142	100	42	34	20	20	M12*1.75P
SL20-ER25-80L	132	80	52	42	25	20	M12*1.75P
SL20-ER32-80L	132	80	52	50	32	20	M12*1.75P
SL25-ER20-80L	122	80	42	34	20	25	M12*1.75P
SL25-ER25-80L	132	80	52	42	25	25	M12*1.75P
SL25-ER25-100L	152	100	52	42	25	25	M12*1.75P
SL25-ER32-80L	132	80	52	50	32	25	M12*1.75P
SL25-ER40-80L	145	80	65	63	40	25	M12*1.75P
SL32-ER20-80L	122	80	42	34	20	32	M16*2.0P
SL32-ER25-80L	132	80	52	42	25	32	M16*2.1P
SL32-ER32-80L	132	80	52	50	32	32	M16*2.2P
SL32-ER32-100L	152	100	52	50	32	32	M16*2.3P
SL32-ER40-80L	145	80	65	63	40	32	M16*2.4P
SL40-ER25-80L	132	80	52	42	25	40	M16*2.5P
SL40-ER32-80L	132	80	52	50	32	40	M16*2.6P
SL40-ER32-100L	152	100	52	50	32	40	M16*2.7P

Features:

- © Applicable to a variety of CNC lathes, Swiss Type, or walk the knife-type automatic lathes, etc. can be used as a knife folder (folder drills, end mills, small boring tool, etc.) can be shock-absorbing efficiency.
- © Material: 20CrMnTi/15CrMo, Hardness: 52-55HRC, shank hardness: 40-45HRC.
- © Hole Concentricity:0.005mm.
- © Clapping handle bit-side leveling screw for locking the sie of a knife block.

HOLDER ACCESSORIES

LATHE TOOL HOLDER SLEEVE



Model	D	d	D1	L1	L2	L3	W	M	FIG
D16-4	16	4	24	10	40				1
D16-5	16	5	24	10	40				1
D16-6	16	6	24	10	40				1
D16-7	16	7	24	10	40				1
D16-8	16	8	24	10	40				1
D16-10	16	10	24	10	40	34	6		2
D16-12	16	12	24	10	40				1
D20-4	20	4	28	12	50				1
D20-5	20	5	28	12	50				1
D20-6	20	6	28	12	50				1
D20-7	20	7	28	12	50				1
D20-8	20	8	28	12	50			M6	1
D20-10	20	10	28	12	50			M6	1
D20-12	20	12	28	12	50	42	8		2
D20-14	20	14	28	12	50				2
D20-16	20	16	28	12	50				2
D25-4	25	4	33	14	50				1
D25-5	25	5	33	14	50				1
D25-6	25	6	33	14	50				1
D25-7	25	7	33	14	50				1
D25-8	25	8	33	14	50				1

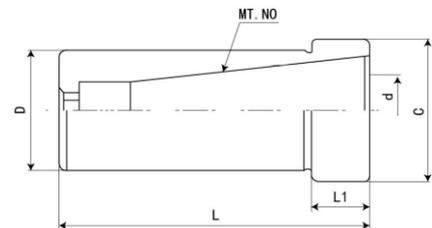
Model	D	d	D1	L1	L2	L3	W	M	FIG
D25-10	25	10	33	14	50				1
D25-12	25	12	33	14	50				1
D25-14	25	14	33	14	50				1
D25-16	25	16	33	14	50	42	10		2
D25-18	25	18	33	14	50	42	10		2
D25-20	25	20	33	14	50	42	10		2
D32-4	32	4	39	14	75				1
D32-5	32	5	39	14	75				1
D32-6	32	6	39	14	75				1
D32-7	32	7	39	14	75				1
D32-8	32	8	39	14	75			M8	1
D32-10	32	10	39	14	75			M8	1
D32-12	32	12	39	14	75			M8	1
D32-14	32	14	39	14	75				1
D32-16	32	16	39	14	75			M8	1
D32-18	32	18	39	14	75				1
D32-20	32	20	39	14	75	60	12		2
D32-25	32	25	39	14	75	60	12		2
D40-5	40	5	46.5	15	85				1
D40-6	40	6	46.5	15	85				1
D40-7	40	7	46.5	15	85				1

Model	D	d	D1	L1	L2	L3	W	M	FIG
D40-8	40	8	46.5	15	85			M8	1
D40-10	40	10	46.5	15	85			M8	1
D40-12	40	12	46.5	15	85			M8	1
D40-13	40	13	46.5	15	85				1
D40-14	40	14	46.5	15	85				1
D40-16	40	16	46.5	15	85			M8	1
D40-18	40	18	46.5	15	85				1
D40-20	40	20	46.5	15	85			M8	1
D40-25	40	25	46.5	15	85	70	14		2
D40-32	40	32	46.5	15	85	70	14		2
D50-6	50	6	58	15	100				1
D50-8	50	8	58	15	100				1
D50-10	50	10	58	15	100				1
D50-12	50	12	58	15	100				1
D50-14	50	14	58	15	100				1
D50-16	50	16	58	15	100				1
D50-18	50	18	58	15	100				1
D50-20	50	20	58	15	100				1
D50-25	50	25	58	15	100				1
D50-32	50	32	58	15	100				1
D50-40	50	40	58	15	100	70	14		2

Features:

- High accuracy of sleeve holders 0.01mm, 0.015mm, Suitable to hold cylindrical shank tools on turret at CNC lathe.
- Material: 42CrMo
- Hardness: 50-55HRC

MORSE TOOL HOLDER SLEEVE



Model	FIG	D	C	L	L1	MT		KGS
						MT NO.	d	
C20-MT1	1	20	23.5	76	20	1	12.065	0.16
C20-MT2	1	20	23.5	93	35	2	17.780	0.13
C25-MT1	1	25	31	81	15	1	12.065	0.27
C25-MT2	1	25	31	93	20	2	17.780	0.24
C32-MT1	1	32	37.5	81	15	1	12.065	0.47
C32-MT2	1	32	37.5	91	20	2	17.780	0.46
C32-MT3	2	32	37.5	91	20	3	23.825	0.35
C42-MT1	1	42	47.5	96	20	1	12.065	1.02
C42-MT2	1	42	47.5	96	20	2	17.780	0.93
C42-MT3	2	42	47.5	92	15	3	23.825	0.76
C42-MT4	2	42	47.5	115	30	4	31.267	0.75

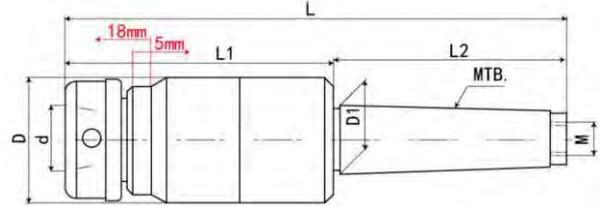
TAPPING CHUCK SERIES



TAPPING
CHUCK SERIES

TAPPING CHUCK SERIES

MTB-TER-A MORSE RIGID TAPER HOLDER-(MTB)



P.O15



P.O03



P.O16



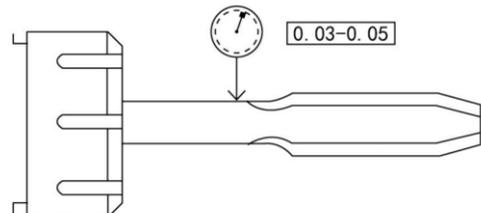
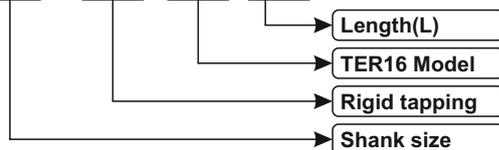
P.515

Model	Tapping range	D	d	M	D1	L	L1	L2	Collet name
MTB2-TER16-A-100L	M2-M12	46	16	M10*1.5P	17.780	168	100	68	TER16
MTB2-TER20-A-100L	M2-M16	46	20	M10*1.5P	17.780	168	100	68	TER20
Model	Tapping range	D	d	M	D1	L	L1	L2	Collet name
MTB3-TER16-A-100L	M2-M12	46	16	M12*1.75P	23.825	185	100	85	TER16
MTB3-TER20-A-100L	M2-M16	46	20	M12*1.75P	23.825	185	100	85	TER20
MTB3-TER25-A-100L	M2-M22	46	25	M12*1.75P	23.825	185	100	85	TER25
MTB3-TER32-A-100L	M2-M30	46	32	M12*1.75P	23.825	185	100	85	TER32
Model	Tapping range	D	d	M	D1	L	L1	L2	Collet name
MTB4-TER16-A-100L	M2-M12	46	16	M16*2.0P	31.267	208	100	108	TER16
MTB4-TER20-A-100L	M2-M16	46	20	M16*2.0P	31.267	208	100	108	TER20
MTB4-TER25-A-100L	M2-M22	46	25	M16*2.0P	31.267	208	100	108	TER25
MTB4-TER32-A-100L	M2-M30	46	32	M16*2.0P	31.267	208	100	108	TER32

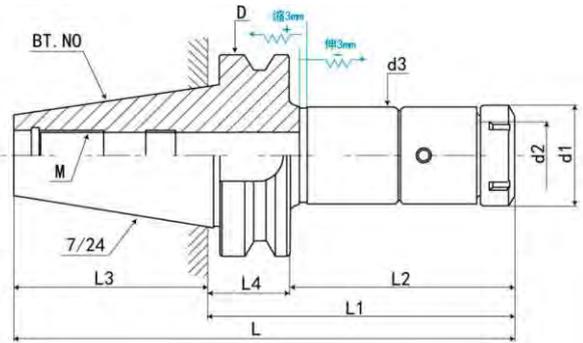
Features:

- ◎ Rigid function ensures machining center spindle rotate in synchronized precise, While MTB holder in use.
- ◎ Can be replaced by ER collet for gripping cutting tool, Drill bit, and draw bolt and so on.
- ◎ Don't lock excessively of the clamping nut in case of damage. Wrench not included.

MTB2 - TER - 16 - 100L



BT-TER-B RIGID TENSION AND COMPRESSION TAPER HOLDER/TER-B

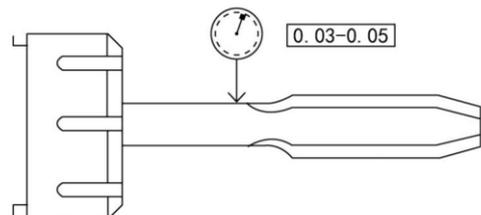
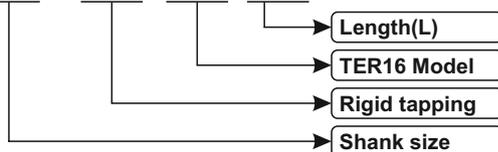


Model	BT.NO	L	L1	L2	L3	L4	d1	d2	Collet	Tapping range	D	M
BT30-TER16-B-100L	BT30	148.4	100	73	48.4	27	28	16	TER16	M2-M12	46	M12*1.75P
BT30-TER20-B-100L		148.4	100	73			34	20	TER20	M2-M16		
BT30-TER25-B-100L		148.4	100	73			42	25	TER25	M2-M22		
BT30-TER32-B-100L		148.4	100	73			50	32	TER32	M2-M30		
BT30-TER40-B-100L		148.4	100	73			63	40	TER40	M2-M36		
Model	BT.NO	L	L1	L2	L3	L4	d1	d2	Collet	Tapping range	D	M
BT40-TER16-B-100L	BT40	165.4	100	73	65.4	27	28	16	TER16	M2-M12	63	M16*2.0P
BT40-TER20-B-100L		165.4	100	73			34	20	TER20	M2-M16		
BT40-TER25-B-100L		165.4	100	73			42	25	TER25	M2-M22		
BT40-TER32-B-100L		165.4	100	73			50	32	TER32	M2-M30		
BT40-TER40-B-120L		185.4	120	93			63	40	TER40	M2-M36		
Model	BT.NO	L	L1	L2	L3	L4	d1	d2	Collet	Tapping range	D	M
BT50-TER16-B-110L	BT50	211.8	110	72	101.8	38	28	16	TER16	M2-M12	100	M24*3.0P
BT50-TER20-B-110L		211.8	110	72			34	20	TER20	M2-M16		
BT50-TER25-B-110L		211.8	110	72			42	25	TER25	M2-M22		
BT50-TER32-B-130L		222.8	130	92			50	32	TER32	M2-M30		
BT50-TER40-B-140L		232.8	140	102			63	40	TER40	M2-M36		

Features:

- ◎ Spindle Conicity Standard: JIS MAS 403 BT
- ◎ Rigid function ensures machining center spindle rotate in synchronized precise, While MTB holder in use.
- ◎ Can be replaced by ER collet for gripping cutting tool, Drill bit, and draw bolt and so on.
- ◎ Don't lock excessively of the clamping nut in case of damage, Wrench not included.

BT30 - TER - 16 - 100L



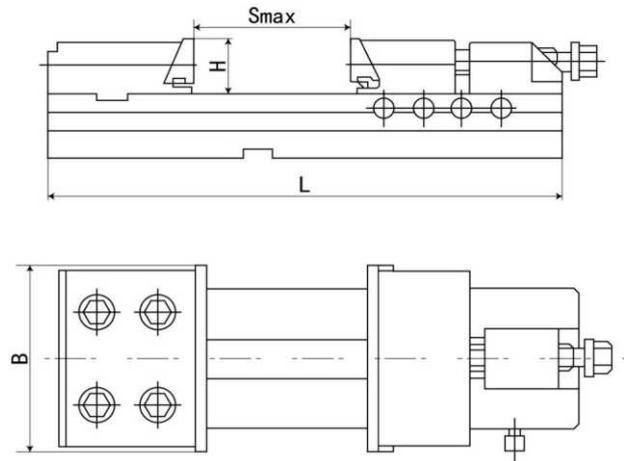
TAPPING CHUCK SERIES

PRECISION VISES



PRECISION VISES

PRECISION MODULAR VISES

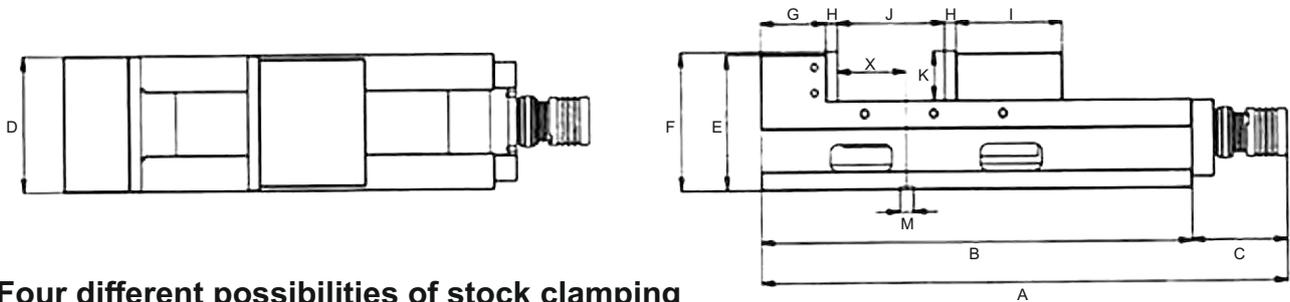


Model	B (mm)	H (mm)	Smax (mm)	L (mm)	Clamping force (kg)
GT100	100	30	100	270	3000
GT125	125	40	150	345	3000
GT150A	150	50	200	420	5000
GT150B	150	50	300	520	5000
GT175A	175	60	200	455	6000
GT175B	175	60	300	555	6000
GT175C	175	60	400	655	6000
GT200A	200	65	200	495	10000
GT200B	200	65	300	595	10000
GT200C	200	65	400	695	10000
GT200D	200	65	500	795	10000
GT200E	200	65	600	895	10000
GT300A	300	85	200	535	10000
GT300B	300	85	300	635	10000
GT300C	300	85	400	735	10000
GT300D	300	85	500	835	10000
GT300E	300	85	600	935	10000

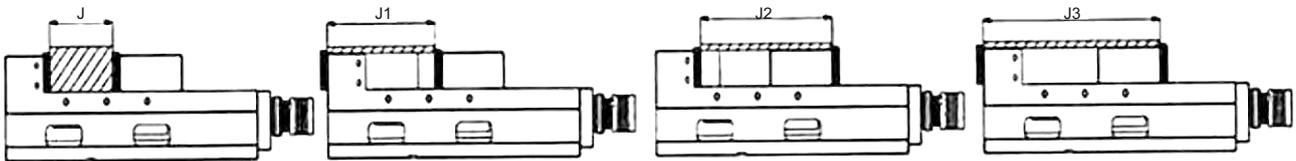
Features:

- ◎ Made of high-quality alloy steel
- ◎ Parallelism 0.005mm/100mm, squareness 0.005mm
- ◎ The hardness of working surface is HRC58-62 and precision ground surface
- ◎ It has interchangeable base, fixed/ movable jaws; it is quick to clamp and easy to operate
- ◎ It is widely used on machining centers and other precision machine tools

PRECISION HYDRAULIC VISE



Four different possibilities of stock clamping

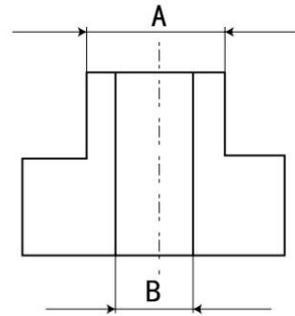
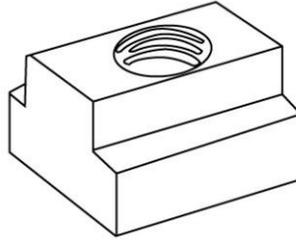


Model	A	B	C	D	E	F	G	H	I	J	J1	J2	J3	K	M	X	Clamp.Force (Kgf)	Weight (kg)
DYV-4-130	464	340	124	102	130	133	65	15	110	0-130	65-210	110-240	175-305	48	18	65	4000	28
DYV-5-180	539	415	124	130	147	163	75	15	138	0-180	75-270	125-305	213-393	55	18	45	4500	35
DYV-6-240	624	500	124	160	160	163	85	15	138	0-240	85-320	138-358	223-443	58	18	99	4500	44
DYV-6-300	684	560	124	160	160	163	85	15	138	0-300	85-400	138-438	223-523	58	18	99	4500	49
DYV-8-340	734	610	124	200	200	190	100	18	130	0-340	100-458	130-395	230-570	70	18	70	5000	75

Product description:

- Precision hydraulic vises are suitable for regular work on horizontal and vertical machining centers, milling, drilling, grinding machines.
- Precision multiplier design, easy to operate, suitable for light and heavy cutting.
- Structurally, this model is a monolithic base with a stop and a movable clamping unit, which is driven by an integrated highly efficient hydraulic drive.
- The vise is made of high-quality alloy steel with guide rails hardened to a hardness of 45-52 HRC, which increases the fixation accuracy and service life of the tooling.

52-PC STEEL CLAMPING KIT



METRIC SIZE				
Model	Table Slot(A)	Stud Size(B)	Block Size	Gross Weight (kgs)
CK-8	10m/m	M8-1.25P	25m/m	4/7
CK-10	12m/m	M10-1.25P	25m/m	8.5
CK-12A	14m/m	M12-1.75P	25m/m	11
CK-12B	15.7m/m	M12-1.75P	25m/m	11
CK-14	16m/m	M14-2.0P	25m/m	12.5
CK-16	18m/m	M16-2.0P	25m/m	14.5
CK-18	20m/m	M16-2.5P	25m/m	31

Features:

- Block size (25mm) Set in steel rack consists of 24 pcs studs (4 pieces of each type 75, 100, 125, 150, 175, 200mm).
- 6 pcs T-Nuts
- 4 pcs Coupling Nuts
- 6 Pcs Flange Nuts
- 6 Pcs Step Clamps
- 6 pas step Blocks

