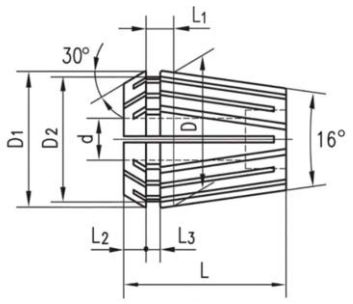
CNC MACHINE TOOL ACCESSORIES

BCK

VERKHNEVOLZHSKAYA MACHINE TOOL COMPANY
LIMITED LIABILITY COMPANY



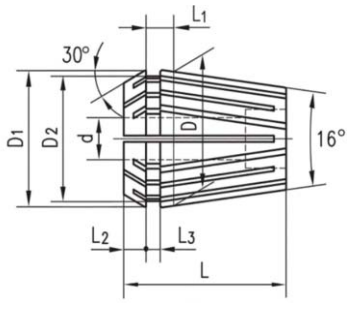
Material: 65Mn
Material: HRC44-48

Run Out
I : ≤ 0.003mm II : ≤ 0.005mm III : ≤ 0.008mm IV : ≤ 0.01mm V : ≤ 0.015mm

Model	dH7	D	D1	D2	L	L1	L2	L3	Collapsible Capacity
ER8	1-5	8	8.5	6.5	13.5	2.7	1.5	1.5	0.5
ER11	1-7	11	11.5	9.5	18.0	3.8	2.5	2.0	0.5
ER16	1-2.5	16	17	13.8	27.5	6.26	4.0	2.7	0.5
	3-10	16	17	13.8	27.5	6.26	4.0	2.7	1.0
ER20	1-2.5	20	21	17.4	31.5	6.36	4.8	2.8	0.5
	3-13	20	21	17.4	31.5	6.36	4.8	2.8	1.0
ER25	1-2.5	25	26	22.0	34.0	6.66	5.0	3.1	0.5
	3-16	25	26	22.0	34.0	6.66	5.0	3.1	1.0
ER32	2-2.5	32	33	29.2	40.0	7.16	5.5	3.6	0.5
	3-20	32	33	29.2	40.0	7.16	5.5	3.6	1.0
ER40	3-26	40	41	36.2	46.0	7.66	7.0	4.1	1.0
ER50	6-10	50	52	46.0	60.0	12.6	8.5	5.5	1.0
	11-34	50	52	46.0	60.0	12.6	8.5	5.5	2.0

Stainless Steel ER Collets

- Material: Stainless Steel 4Cr13
- Hardness: HRC50-55
- Body Accuracy : <0.008MM



Model	D	D1	D2	L	L1	L2	L3	Clamping Range
ERS8	8	8.5	6.5	13.5	2.7	1.5	1.5	1-5mm
ERS11	11	11.5	9.5	18	3.8	2.5	2	1-7mm
ERS16	16	17	13.8	27.5	6.26	4	2.7	1-10mm
ERS20	20	21	17.4	31.5	6.36	4.8	2.8	1-13mm
ERS25	25	26	22	34	6.66	5	3.1	1-16mm
ERS32	32	33	29.2	40	7.16	5.5	3.6	1-20mm
ERS40	40	41	36.2	46	7.66	7	4.1	3-26mm
ERS50	50	52	46	60	12.6	8.5	5.5	6-34mm

ER8 (1-5mm)	ER11 (1- 7mm)	ER16 (1-10mm)	ER20 (1-13mm)	ER25 (1-16mm)	ER32 (1-20mm)	ER40 (3-26mm)	ER50 (6-34mm)
1.0-0.5	1.0-0.5	1.0-0.5	1.0-0.5	1.0-0.5	1.0-0.5	3-2	6-5
1.5-1.0	1.5-1.0	1.5-1.0	1.5-1.0	1.5-1.0	1.5-1.0	4-3	7-6
2.0-1.5	2.0-1.5	2.0-1.5	2.0-1.5	2.0-1.5	2.0-1.5	5-4	8-7
2.5-2.0	2.5-2.0	2.5-2.0	2.5-2.0	2.5-2.0	2.5-2.0	6-5	9-8
3.0-2.5	3.0-2.5	3-2	3-2	3-2	3-2	7-6	10-9
3.5-3.0	3.5-3.0	4-3	4-3	4-3	4-3	8-7	11-9
4.0-3.5	4.0-3.5	5-4	5-4	5-4	5-4	9-8	12-10
4.5-4.0	4.5-4.0	6-5	6-5	6-5	6-5	10-9	13-11
5.0-4.5	5.0-4.5	7-6	7-6	7-6	7-6	11-10	14-12
	5.5-5.0	8-7	8-7	8-7	8-7	12-11	15-13
	6.0-5.5	9-8	9-8	9-8	9-8	13-12	16-14
	6.5-6.0	10-9	10-9	10-9	10-9	14-13	17-15
	7.0-6.5		11-10	11-10	11-10	15-14	18-16
			12-11	12-11	12-11	16-15	19-17
			13-12	13-12	13-12	17-16	20-18
				14-13	14-13	18-17	21-19
				15-14	15-14	19-18	22-20
				16-15	16-15	20-19	23-21
					17-16	21-20	24-22
					18-17	22-21	25-23
					19-18	23-22	26-24
					20-19	24-23	27-25
						25-24	28-26
						26-25	29-27
							30-28
							31-29
							32-30
							33-31
							34-32

Model	Types - metric
ER8	1 / 1.5 / 2 / 2.5 / 3 / 3. 5 / 4 / 4.5 / 5
ER11	1 / 1.5 / 2 / 2.5 / 3 / 3.5 / 4 / 4.5 / 5 / 5.5 / 6 / 6.5 / 7
ER16	1 / 1.5 / 2 / 2.5 / 3 / 3.5 / 4 / 4.5 / 5 / 5.5 / 6 / 6.5 / 7 / 7.5 / 8 / 8.5 / 9 / 9.5 / 10
ER20	1 / 1.5 / 2 / 2.5 / 3 / 3.5 / 4 / 4.5 / 5 / 5.5 / 6 / 6.5 / 7 / 7.5
	8 / 8.5 / 9 / 9.5 / 10 / 10.5 / 11 / 11.5 / 12 / 12.5 / 13
ER25	1 / 1.5 / 2 / 2.5 / 3 / 3.5 / 4 / 4.5 / 5 / 5.5 / 6 / 6.5 / 7 / 7.5 / 8 / 8.5 / 9 / 9.5
	10 / 10.5 / 11 / 11.5 / 12 / 12.5 / 13 / 13.5 / 14 / 14.5 / 15 / 15.5 / 16
ER32	1 / 1.5 / 2 / 2.5 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10
	11 / 12 / 13 1 4 / 15 / 16 / 17 / 18 / 19 / 20
ER40	3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13 / 1 4 / 15
	16 / 17 / 18 / 19 / 20 / 21 / 22 / 23 / 24 / 25 / 26
ER50	6 / 7 / 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 1 7 / 18 / 19 / 20
	21 / 22 / 23 / 24 / 25 / 26 / 2 7 / 28 / 29 / 30 / 31 / 32 / 33 / 34

Model	Types - metric
ER8	1/32 , 3/64 , 1/16 , 5/64 , 3/32 , 7/64 , 1/8 , 9/64 , 5/32 , 11/64 , 3/16
ER11	1/32 , 3/64 , 1/16 , 5/64 , 3/32 , 7/64 , 1/8 , 9/64 , 5/32 , 11/64 , 3/16 , 13/64 , 7/32 , 15/64 , 1/4 , 17/64
ER16	1/32 , 3/64 , 1/16 , 5/64 , 3/32 , 7/64 , 1/8 , 9/64 , 5/32 , 11/64 , 3/16 , 13/64 7/32
	15/64 , 1/4 , 17/64 , 9/32 , 19/64 , 5/16 , 21/64 , 11/32 , 23/64 , 3/8
ER20	1/32 , 3/64 , 1/16 , 5/64 , 3/32 , 7/64 , 1/8 , 9/64 , 5/32 , 11/64 , 3/16 , 13/64 7/32 , 15/64 , 1/4 , 17/64
	9/32 , 19/64 , 5/16 , 21/64 , 11/32 , 23/64 , 3/8 , 25/64 , 13/32 , 27/64 , 7/16 , 29/64 , 15/32 , 31/64 , 1/2 , 33/64
ER25	3/64 , 1/16 , 5/64 , 3/32 , 7/64 , 1/8 , 9/64 , 5/32 , 11/64 , 3/16 , 13/64 , 7/32 , 15/64 , 1/4 , 17/64
	9/32 , 19/64 , 5/16 , 21/4 , 11/32 , 23/64 , 3/8 , 25/64 , 13/32 , 27/64 , 7/16 , 29/64 , 15/32 ,
	31/64 , 1/2 , 33/64 , 17/32 , 35/64 9/16 , 37/64 , 19/32 , 39/64 , 5/8
ER32	1/16 , 3 , 32 , 1/8 , 5/32 , 3/16 , 7/32 , 1/4 , 9/32 , 5/64 , 11/32 , 3/8 , 13/32 , 7/16 , 15/32 , 1/2 , 17/32
	9/16 , 19/32 , 5/8 , 21/32 , 11/16 , 23/32 , 3/4 , 23/32
ER40	1/8 , 5/32 , 3/16 , 7/32 , 1/4 , 9/32 , 5/16 , 11/32 , 3/8 , 13/32 , 7/16 , 15/32 , 1/2 , 17/32 , 9/16 , 19/32 , 5/8 , 21/32 , 11/16
	23/32 , 3/4 , 25/32 , 13/16 , 27/32 , 7/8 , 29/32 , 15/16 , 31/32 , 1"
ER50	1/4 , 9/32 , 5/16 , 11/32 , 3/8 , 13/32 , 7/16 , 15/32 , 1/2 , 17/32 , 9/16 , 19/32 5/8 , 21/32 , 11/16 , 23/32 , 3/4 , 25/32 , 13/16
	27/32 , 7/8 , 29/32 , 15/16 , 31/32 , 1" , 1-1/32 , 1-1/16 , 1-3/32 , 1-1/8 , 1-5/32 , 1-3/16 , 1-7/32 , 1-1/4 , 1-9/32 , 1-5/16





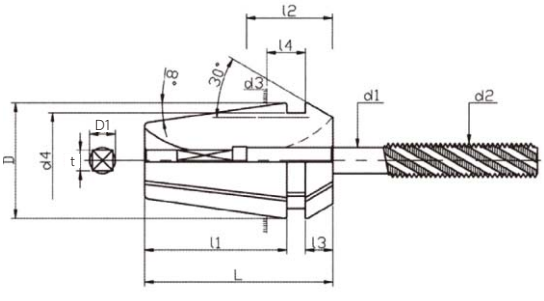
Model No.	Spec	PCS/SET
ER8-9PCS	1 , 1.5 , 2 , 2.5 , 3 , 3.5 , 4 , 4.5 , 5	9PCS/SET
ER8-6PCS(inch)	1/32 , 1/16 , 3/32 , 1/8 , 5/32 , 3/16	6PCS/SET
ER11-7PCS	1 , 2 , 3 , 4 , 5 , 6 , 7	7PCS/SET
ER11-9PCS	3 , 3.5 , 4 , 4.5 , 5 , 5.5 , 6 , 6.5 , 7	9PCS/SET
ER11-13PCS	1 , 1.5 , 2 , 2.5 , 3 , 3.5 , 4 , 4.5 , 5 , 5.5 , 6 , 6.5 , 7	13PCS/SET
ER11-8PCS(inch)	1/32 , 1/16 , 3/32 , 1/8 , 5/32 , 3/16 , 7/32 , 1/4	8PCS/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
ER16-12PCS(inch)	1/32 , 1/16 , 3/32 , 1/8 , 5/32 , 3/16 7/32 , 1/4 , 9/32 , 5/16 , 11/32 , 3/8	12PCS/SET
ER16-8PCS(inch)	1/8 , 5/32 , 3/16 , 7/32 , 1/4 , 9/32 , 5/16 , 11/32 , 3/8	8PCS/SET
ER16-5PCS(inch)	1/8 , 3/16 , 1/4 , 9/32 , 5/16 , 3/8	5PCS/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
ER20-16PCS(inch)	1/32 , 1/16 , 3/32 , 1/8 , 5/32 , 3/16 , 7/32 , 1/4 , 9/32 , 5/16 11/32 , 3/8 , 13/32 , 7/16 , 15/32 , 1/2	16PCS/SET
ER20-14PCS(inch)	3/32 , 1/8 , 5/32 , 3/16 , 7/32 , 5/16 , 11/32 , 3/8 , 13/32 , 7/16 15/32 , 1/2	14PCS/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
ER25-18PCS(inch)	3/32 , 1/8 , 5/32 , 3/16 , 7/32 , 1/4 , 9/32 , 5/16 , 11/32 , 3/8 , 13/32 7/16 , 15/32 , 1/21 , 7/32 , 9/16 , 19/32 , 5/8	18PCS/SET
ER25-9PCS(inch)	1/8 , 3/16 , 1/4 , 5/16 , 7/16 , 1/2 , 9/16 , 3/8	9PCS/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
ER32-18PCS(inch)	1/8 , 5/32 , 3/16 , 7/32 , 1/4 , 9/32 , 5/16 , 11/32 , 3/8 , 7/16 , 15/32 , 1/2 , 9/16 19/32 , 5/8 , 11/16 , 23/32 , 3/4	18PCS/SET
ER32-12PCS(inch)	1/8 , 5/32 , 3/16 , 1/4 , 5/16 , 3/8 , 7/16 , 1/2 , 9/16 , 5/8 , 11/16 , 3/4	12PCS/SET
ER32-11PCS(inch)	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/29, /16, 5/8, 11/16, 3/4	11PCS/SET
ER32-21PCS(inch)	1/8 , 5/32 , 3/16 , 7/32 , 1/4 , 9/32 , 5/16 , 11/32 , 3/8 , 13/32 , 7/16 15/32 , 1/21 , 7/32 , 9/16 , 19/32 , 5/82 , 1/32 , 11/16 , 23/32 , 3/4	21PCS/SET

Model	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	18PCS/SET
ER40-15PCS	4 , 5 , 6 , 7 , 8 , 9 , 10 , 12 , 14 , 16 , 18 , 20 , 22 , 24 , 25 , 26	15PCS/SET
ER40-8PCS	4 , 6 , 8 , 10 , 12 , 16 , 20 , 25	8PCS/SET
ER40-23PCS(inch)	1/8 , 5/32 , 3/16 , 7/32 , 1/4 , 9/32 , 5/16 , 11/32 , 3/8 , 7/16 , 15/32 , 1/2 , 9/16, 19/32 , 5/8 , 11/16 , 23/32 , 3/4 , 13/16 , 27/32 , 7/8 , 29/32 , 1"	23PCS/SET
ER40-18PCS(inch)	5/32 , 3/16 , 7/32 , 1/4 , 9/32 , 5/16 , 11/32 , 3/8 , 7/16 , 15/32 , 1/2 9/16 , 19/32 , 5/8 , 11/16 , 3/4 , 13/16 , 1"	18PCS/SET
ER40-15PCS(inch)	1/8 , 3/16 , 1/4 , 5/16 , 3/8 , 7/16 , 1/2 , 9/16 , 5/8 , 11/16 , 3/4 , 13/16, 7/8 , 15/16 , 1"	15PCS/SET
ER40-14PCS(inch)	1/8 , 3/16 , 1/4 , 5/16 , 3/8 , 7/16 , 1/2 , 9/16 , 5/8, 1 1/16 3/4 , 13/16 , 7/8 , 1"	14PCS/SET
ER40-8PCS(inch)	1/8 , 1/4 , 3/8 , 1/2 , 5/8 , 3/4 , 7/8 , 1"	8PCS/SET

We are glad to supply collets with different size and quantities according to your requirement.

ERG Tap Collets

○ Material: 65Mn ○ Hardness: HRC44-48



Model	D	L	L1	L3	Tapping range
ERG16	16.17	27.5	21.2	4	M2-M12
ERG20	20.74	31.5	24.3	4.8	M3-M16
ERG25	25.74	34	26.5	5	M3-M20
ERG32	32.74	40	31.8	5.5	M3-M24
ERG40	40.74	46	35.5	7	M3-M30

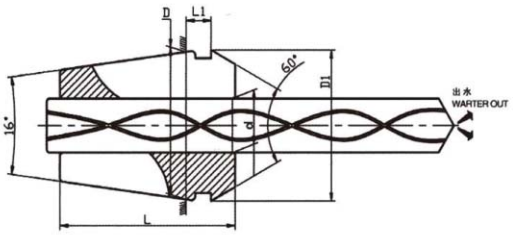
ISO				JIS				DIN		
	D1				D1				D1	
ERG16 Clamping Taps Specifications										
M1-M2	2.5	2		M2	3	2.5		M1-M1.8	2.5	2.1
M2.2-M2.5	2.8	2.24						M2-M2.5	2.8	2.1
M3	3.15	2.5		M3	4	3.2		M3	3.5	2.7
M4	4	3.15		M4	5	4		M4	4.5	3.4
M5	5	4		M5	5.5	4.5		M5	6	4.9
M6	6.3	5		M6	6	4.5		M6	6	4.9
M8	6.3	5		M8	6.2	5		M8	8	6.2
M10	8	6.3		M10	7	5.5		M10	10	8
M12	9	7.1		M12	8.5	6.5		M12	9	7

ISO	D1		JIS	D1		DIN	D1	
ERG20 Clamping Taps Specifications								
M3	3.15	2.5	M3	4	3.2	M3	3.5	2.7
M4	4	3.15	M4	5	4	M4	4.5	3.4
M5	5	4	M5	5.5	4.5	M5	6	4.9
M6	6.3	5	M6	6	4.5	M6	6	4.9
M8	6.3	5	M8	6.2	5	M8	8	6.2
M10	8	6.3	M10	7	5.5	M10	10	8
M12	9	7.1	M12	8.5	6.5	M12	9	7
M14	11.2	9	M14	10.5	8	M14	11	9
M16	12.5	10	M16	12.5	10	M16	12	9

ISO	D1		JIS	D1		DIN	D1	
ERG25 Clamping Taps Specifications								
M3	3.15	2.5	M3	4	3.2	M3	3.5	2.7
M4	4	3.15	M4	5	4	M4	4.5	3.4
M5	5	4	M5	5.5	4.5	M5	6	4.9
M6	6.3	5	M6	6	4.5	M6	6	4.9
M8	6.3	5	M8	6.2	5	M8	8	6.2
M10	8	6.3	M10	7	5.5	M10	10	8
M12	9	7.1	M12	8.5	6.5	M12	9	7
M14	11.2	9	M14	10.5	8	M14	11	9
M16	12.5	10	M16	12.5	10	M16	12	9
M18	14	11.2	M18	14	11	M18	14	11
M20	14	11.2	M20	15	12	M20	16	12

ISO	D1		JIS	D1		DIN	D1	
ERG32 Clamping Taps Specifications								
M3	3.15	2.5	M3	4	3.2	M3	3.5	2.7
M4	4	3.15	M4	5	4	M4	4.5	3.4
M5	5	4	M5	5.5	4.5	M5	6	4.9
M6	6.3	5	M6	6	4.5	M6	6	4.9
M8	6.3	5	M8	6.2	5	M8	8	6.2
M10	8	6.3	M10	7	5.5	M10	10	8
M12	9	7.1	M12	8.5	6.5	M12	9	7
M14	11.2	9	M14	10.5	8	M14	11	9
M16	12.5	10	M16	12.5	10	M16	12	9
M18	14	11.2	M18	14	11	M18	14	11
M20	14	11.2	M20	15	12	M20	16	12
M22	16	12.5	M22	17	13	M22	18	14.5
M24	18	14	M24	19	15	M24	18	14.5

ISO	D1		JIS	D1		DIN	D1	
ERG40 Clamping Taps Specifications								
M3	3.15	2.5	M3	4	3.2	M3	3.5	2.7
M4	4	3.15	M4	5	4	M4	4.5	3.4
M5	5	4	M5	5.5	4.5	M5	6	4.9
M6	6.3	5	M6	6	4.5	M6	6	4.9
M8	6.3	5	M8	6.2	5	M8	8	6.2
M10	8	6.3	M10	7	5.5	M10	10	8
M12	9	7.1	M12	8.5	6.5	M12	9	7
M14	11.2	9	M14	10.5	8	M14	11	9
M16	12.5	10	M16	12.5	10	M16	12	9
M18	14	11.2	M18	14	11	M18	14	11
M20	14	11.2	M20	15	12	M20	16	12
M22	16	12.5	M22	17	13	M22	18	14.5
M24	18	14	M24	19	15	M24	18	14.5
M27	20	16	M27	20	15	M27	20	16
M30	20	16	M30	23	17	M30	22	18



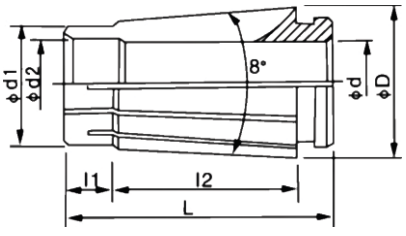
- Material: 65Mn
- Hardness: HRC44-48
- Accuraly: ≤ 0.008mm

- Differences in the use of grooves to reach around the sealing
- Cenfral water feature only applies to folders to hold the water hole tool
- Canwithsand water pressure 7Mpa
- Non-standard holes can be customized.ISO JIS DIN

Model	Collapsible Capacity	Range	D	D1	L	L1
ER11C	3-7	0.1	11	11.5	18	3.8
ER16C	3-6	0.1	16	17	27.5	6.26
	6-10	0.5				
ER20C	3-6	0.1	20	21	31.5	6.36
	6-13	0.5				
ER25C	3-6	0.1	25	26	34	6.66
	6-16	0.5				
ER32C	3-8	0.1	32	33	40	7.16
	8-20	0.5				
ER40C	4-10	0.1	40	41	46	7.66
	10-26	0.5				
ER50C	12-34	0.5	50	52	60	12.6

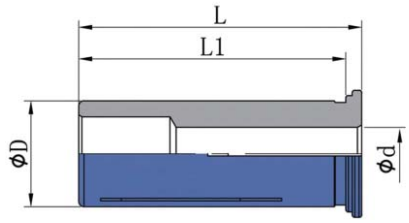
SK Collets

- Material: 65Mn
- Hardness: HRC44-48
- Accuracy: ≤ 0.005mm



Model	Inside Diameter	d	d1	L	L1	L2
SK10	2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10	15.5	12	30.5	5.1	21.3
SK16	3,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9, 9.5,10,10.5,	24.5	18.8	45	7.5	32.4
	11,11.5,12,12.5,13,13.5,14, 14.5,15,15.5,16					
SK20	7.5,8,9.5,10,11.5,12,15.5,16,16.5,17, 17.5	29.1	22.6	54	8	40.7
	18,18.5,19,19.5,20					
SK25	7.5,8,9.5,10,11.5,12,15.5,16,16.5,17,17.5,18,18.5,19,19.5	35.7	28.9	57	8.4	43.1
	20,20.5,21, 21.5,22,22.5,23,23.5,24,24.5,25					

- Material: 65Mn
- Hardness: HRC44-48
- Accuracy: ≤ 0.003MM

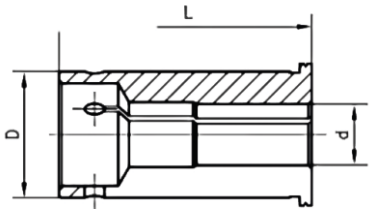


Model	d	D	L	L1
HC12-3	3	12	47	45
HC12-4	4			
HC12-5	5			
HC12-6	6			
HC12-8	8			
HC20-3	3	20	20	50.5
HC20-4	4			
HC20-5	5			
HC20-6	6			
HC20-7	7			
HC20-8	8			
HC20-9	9			
HC20-10	10			
HC20-11	11			

Model	d	D	L	L1
HC20-12	12	20	20	50.5
HC20-13	13			
HC20-14	14			
HC20-15	15			
HC20-16	16			
HC32-6	6	32	64.5	61
HC32-8	8			
HC32-10	10			
HC32-12	12			
HC32-14	14			
HC32-16	16			
HC32-18	18			
HC32-20	20			
HC32-25	25			

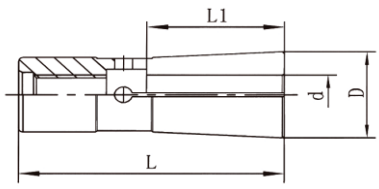
Straight Collets

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



Model	Inside Diameter	D	D2	L
C20	3/4/5/6/7/8/9/10/11/12/13/1415/16mm	20	25	52
C25	3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20mm	25	31	60
C32	3/4/5/6/7/8/9/10/11/12/13/1415/16/17/18/19/20/21/22/23/24/25mm	32	37	73
C42	3/4/5/6/7/8/9/10/11/12/13/1415/16/17/18/19/20/21/22/23/24/25/26/ 27/28/29/30/31/32mm	42	48	80

- Material: 65Mn
- Hardness: HRC44-48
- Accuracy: ≤ 0.005mm

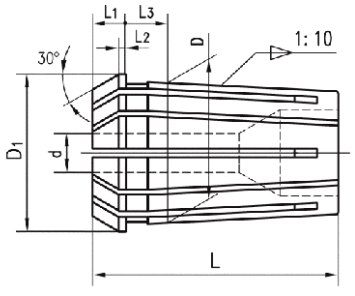


Model		d	L	L1	D
SDC6	3	3	36	14	9.6
	3.175	3.175	36	14	9.6
	4	4	36	14	9.6
	5	5	36	16	9.6
	6	6	36	16	9.6
SDC8	3	3	45	15	15
	4	4	45	16	15
	6	6	45	24	15
	8	8	45	26	15
SDC12	4	4	60	15	22
	6	6	60	25	22
	8	8	60	30	22
	10	10	60	33	22
	12	12	60	33	22

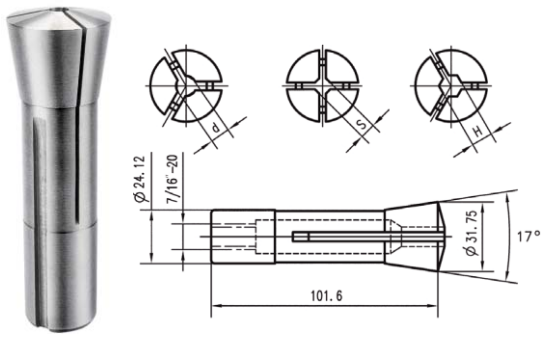
EOC/OZ Collets

- Material: 65Mn
- Hardness: HRC44-48
- Accuracy: ≤ 0.015mm

DIN6388B Taper: 1:10



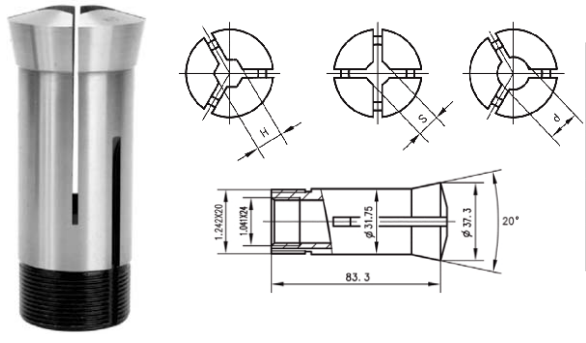
Model	D	D1	d	L	L1	L2	L3
EOC16B	22.65	25.5	2 ~ 16	40	5.5	1.2	9.5
EOC20B	27.4	29.8	2 ~ 20	45	6	1.35	10
EOC25B	32.9	35.05	2 ~ 25	52	6	1.4	10
EOC32B	41.3	43.7	4 ~ 32	60	6	1.45	11



Model	Type	Clamping range		Wt(kg)
		mm	in	
R8-01-d	Round	1 ~ 20	1/16 ~ 7/8	0.24
R8-02-S	Square	3 ~ 13	1/8 ~ 1/2	0.24
R8-03-H	Hex	3 ~ 16	1/8 ~ 5/8	0.24

1. Material: 65Mn
2. Hardness: clamping part HRC55 ~ 60 elastic part HRC40 ~ 45
3. This unit is applicable to all sorts of milling machines,which spindle taper hole is R8,such as X6325、X5325 etc.

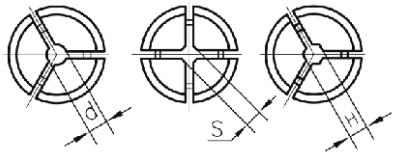
5C Collets

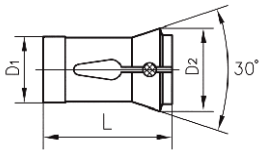


Model	Type	Clamping range		Wt(kg)
		mm	in	
5C-01-d	Round	1 ~ 28	1/32 ~ 1-1/8	0.24
5C-02-S	Square	3 ~ 19	1/8 ~ 3/4	0.24
5C-03-H	Hex	3 ~ 22	1/8 ~ 7/8	0.24

1. Material: 65Mn
2. Hardness: clamping part HRC55 ~ 60 elastic part HRC40 ~ 45
3. This unit is applicable to all sorts of lathes,which spindle taper hole is 5C,such as automatic lathes,CNC lathes etc.

Clamping Collets





1. Material: 65Mn
2. Hardness: clamping part HRC55 ~ 60 elastic part HRC40 ~ 45
3. This unit is applicable to all sorts of automatic lathes,turret lathes

Model	D1(mm)	D2(mm)	L(mm)	Hole size(mm)			Wt(kg)
				Round	Square	Hex	
F17.5	17.5	22	51	13	8	10	0.05
F22	22	30	55	16	11	13	0.09
F27	27	38	72.7	22	15	19	0.10
F28	28	38	70	22	15	19	0.12
F32	32	45	75	26	18	22	0.27
F35	35	48	80	30	21	26	0.35
F42	42	55	94	36	25	30	0.49
F48	48	60	94	42	29	36	0.57
F56	56	68	94	50	35	42	0.65
F66	66	84	110	60	42	52	1.16

ER-M Spanners

Model of Spanners	Type of Nuts
ER8M	ER8M
ER11M	ER11M
ER16M	ER16M
ER20M	ER20M

ER-A Spanners

Model of Spanners	Type of Nuts
ER8A	ER8A
ER11A	ER11A
ER16A	ER16A
ER20A	ER20A

ER Spanners

Model of Spanners	Type of Nuts
WTG-42	ER25
WTG-52	ER32 APU13
WTG-63	ER40 APU16
WTG-85	ER50 C32

ER-UM Spanners

Model of Spanners	Type of Nuts
ER20UM	ER20UM
ER25UM	ER25UM
ER32UM	ER32UM
ER40UM	ER40UM
ER50UM	ER50UM

ER-UM Spanners

Model of Spanners	Type of Nuts
ER20UM	ER20UM
ER25UM	ER25UM
ER32UM	ER32UM
ER40UM	ER40UM
ER50UM	ER50UM

ER-O Spanners

Model of Spanners	Type of Nuts
ER20 O	ER20 O
ER25 O	ER25 O
ER32 O	ER32 O
ER40 O	ER40 O
ER50 O	ER50 O

Pull Stud Spanners

Model of Spanners	Type of Nuts
BT30	BT30
BT40	BT40
BT50	BT50

ER-MS Spanners

Model of Spanners	Type of Nuts
ER11MS	ER11MS
ER16MS	ER16MS
ER20MS	ER20MS

APU Spanners

Model of Spanners	Type of Drill Chucks
APU13-A	APU13-A
APU13-B	APU13-B

Torqua Adjustment Wrench

Model of Spanners	Type of Tapping Collets
GT12	GT12
GT24	GT24
GT42	GT42

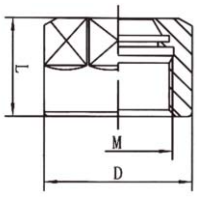
APU Spanners

Model of Spanners	Type of Drill Chucks
APU13	APU13
APU16	APU16

Roller Bearing Wrench

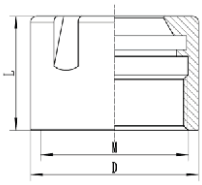
Model of Spanners	Type of Nuts
GSK10	GSK10
GSK13	GSK13
GSK16	GSK16
GSK20	GSK20
GSK25	GSK25
GSK32	GSK32

ER-A Nuts



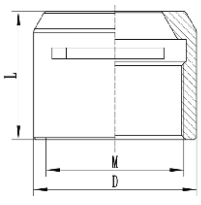
Model	L	D	M
ER8A	12	12	M10*0.75
ER11A	14	19	M14×0.75P
ER16A	19	28	M22×1.5P
ER20A	23	27	M24×1P
ER25A	20	42	M32×1.5P

ER-M Nuts



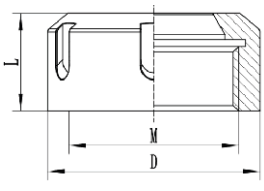
Model	L	D	M
ER8M	12	12	M10*0.75
ER11M	12	16	M13×0.75P
ER16M	18	22	M19×1.0P
ER20M	19	28	M24×1.0P
ER25M	20	35	M30×1.0P

ER-MS Nuts



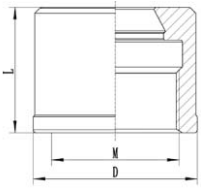
Model	L	D	M
ER11MS	11.3	16	M13×0.75P
ER16MS	17	22	M19×1.0P
ER20MS	19	28	M24×1.0P
ER25MS	23	35	M30×1.0P

ER-UM Nuts



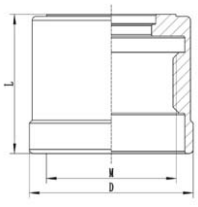
Model	L	D	M
ER25UM	20	42	M32×1.5P
ER32UM	22.5	50	M40×1.5P
ER40UM	25.5	63	M50×1.5P
ER50UM	35.5	78	M64x2P

GER Nuts



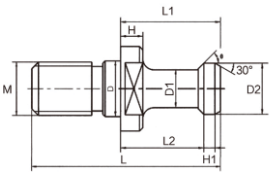
Model	L	D	M
GER16	23	30	M19×1.0P
GER20	25	35	M24×1.0P
GER25	26	40	M30×1.0P
GER32	30	50	M40×1.5P

GSK Nuts



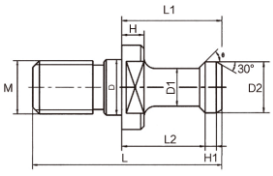
Model	L	D	M
GSK10	24	27	M21.5×1.0P
GSK16	31	40	M32×1.5P
GSK20	35	48	M40×1.5P
GSK25	37	55	M45×1.5P

BT Pull Stud Series



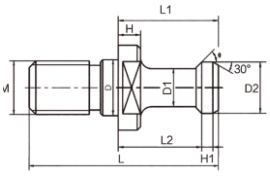
Model	L	L1	L2	D	D1	D2	H	H1	M	θ		
BT30(θ)	43	23	18	12.5	7	11	5	2.5	M12	45°	60°	90°
BT40(θ)	60	35	28	17	10	15	6	3	M16	45°	60°	90°
BT50(θ)	85	45	35	25	17	23	10	5	M24	45°	60°	90°

MAZAK Pull Stud Series



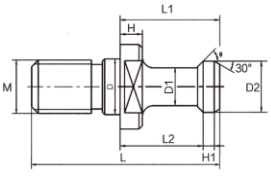
Model	L	L1	L2	D	D1	D2	H	H1	M
MAZAK-BT40	44.10	19.10	14.02	17	12.45	18.8	3.05	1.52	M16
MAZAK-CAT40	41.25	16.25	11.17	17	12.45	18.8	3.05	1.52	M16
MAZAK-BT50	65.20	25.20	17.7	25	20.83	28.96	5.05	2.54	M24

JT/SK Pull Stud Series



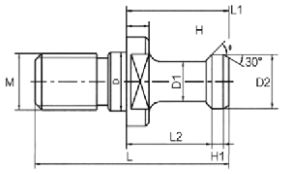
Model	L	L1	L2	D	D1	D2	M
JT30	44	24	19	13	9	13	M12
JT40	54	26	20	17	14	19	M16
JT50	74	34	25	25	21	28	M24

CAT Pull Stud Series



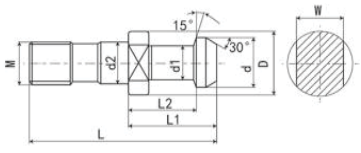
Model	L	L1	L2	D1	D2	H	H1	M
CAT30	27.94	11.68	8.13	9.78	13.21	2.54	1.01	1/2"-13
CAT40	38.10	16.26	11.18	12.45	18.80	3.05	1.52	5/8"-11
CAT50	58.42	25.4	17.78	20.83	28.96	5.08	2.54	1"-8

Stainless Steel Pull Studs



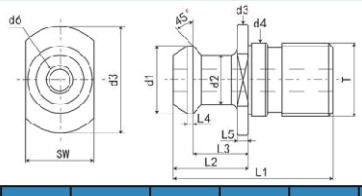
Model	L	L1	L2	D	D1	D2	H	H1	M
BT30	43	23	18	12.5	7	11	5	2.5	M12
BT40	60	35	28	17	10	15	6	3	M16
BT50	85	45	35	25	17	23	10	5	M24

Pull Stud Of Carving Machine



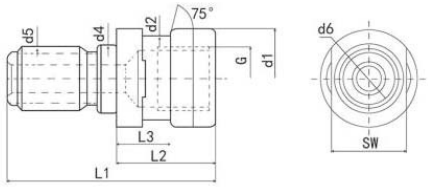
Model	D	d	d1	d2	L	L1	L2	W	M
ISO20	11.4	9	6	8.5	26	12	9	10	M8*1.25P
ISO25	12	10	7	9	32	16	11.6	10	M8*1.25P
IS030	17	13	9	13	45	24	19	14	M12*1.75P

Mazak Mitsui Series Pull Studs



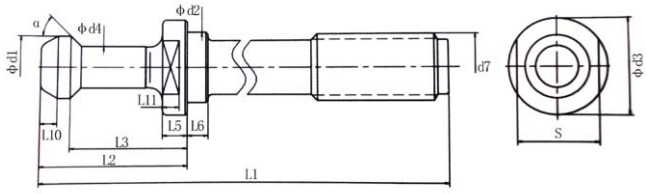
Model	d1	d2	d3	d4	d5	d7	d8	L1	L2	L3	L5	L6	L9	S	Weight
MAZAK-BT40	18.8	17	22	12.45		M16		4.1	191	14.02	3	5	1.52	19	0.051
MAZAK-BT40/W					7										
MAZAK-BT50	28.96	25	37	20.83		M24	16	65.2	25.2	17.58	5	8	2.54	30	0.191
MAZAK-BT50/W					10										

OTT Pull Stud Series



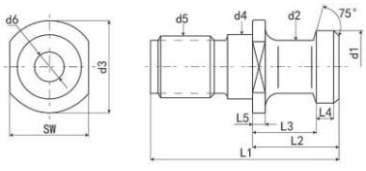
Model	d1	d2	d4	d5	d7	d8	L1	L2	L3	L5	L6	S	Weight
OTT40	25	17	21.1	7	M16	M16	53	25.1	13.6	6	5	19	0.086
OTT50	39.6	25	30.2	7	M24	M24	65.1	25.1	13.3	6	8	30	0.233

Morse Taper Tool Holder and Lengthening Pull Stud



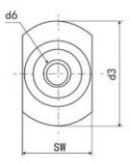
Model	d1	d2	d3	d4	d7	L1	L2	L3	L5	L6	L10	L11	S	α	(Kg) Weight
BT40-45° -M10	15	17	23	10	M10	115	35	28	6	5	4	4	19	45°	0.112
BT40-45° -M12					M12										0.111
BT40-45° -M14					M14										0.108
BT40-45° -M16					M16										
BT40-60° -M12					M12									60°	
BT40-60° -M16					M16										
BT50-45° -M16	23	25	38	17	M16	170	45	35	10	8	5	8	30	45°	
BT50-45° -M20					M20										0.408

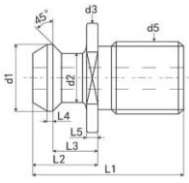
ISO 7388/2-1984 International Standard Pull Stud A Type ISO 7388/2-1984



Model	d1	d2	d3	d4	d5	d7	L1	L2	L3	L5	L6	L10	S	Weight
LDA20	9	8.5	1.4	6		M8	26	12	9	2.5	3	2	10	
LDA25	10	9	12	7		M8	32	16	11.5	3.5	5	2.5	10	
LDA30	12	13	16	8		M12	44	24	19	4	5	2	14	0.036
LDA30/W					4.15									
LDA40	19	17	23	14		M16	54	26	20	4	7	2	19	0.084
LDA40/W					7									0.065
LDA45	23	21	30	17		M20	65	30	23	5	8	2	24	
LDA45/W					95									
LDA50	28	25	36	21		M24	74	34	25	5	10	2	30	0.261
LDA50W					11.5									0.199
LDA60	40	32	52	30		M30	90	40	30	6	12	2	46	
LDA60/W					14									

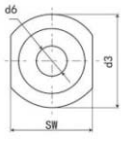
American Standard Pull Stud ANSI/AMSE B550-1994

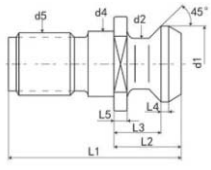




Model	d1	d3	d4	d5	d7	L1	L2	L3	L5	L9	S	Weight
CAT30-45° U	13.21	16.51	9.78		0.5"-13UNC	27.94	11.68	8.13	2.54	1.02	13.46	
CAT30-45° U/W				4.75								
inch	0.520	0.65	0.385	0.187		1.10	0.460	0.320	0.10	0.04	0.53	
CAT40-45° U	18.80	23.88	1,245		0.625"-11UNC	38.10	16.26	11.18	3.05	1.52	19.05	0.055
CAT40-45° U/W				7.14								43
inch	0.740	0.94	490	0.281		1.50	0.640	440	0.12	0.06	0.75	
CAT45-45° U	23.88	30.48	15.37		0.75"-10UNC	45.72	20.83	14.73	4.06	2.03	25.40	
CAT45-45° U/W				9.53								
inch	0.940	1.20	0.605	0.375		1.80	0.820	0.580	0.16	0.08	1.00	
CAT50-45° U	28.96	36.58	20.83		1"-8UNG	58.42	25.40	17.78	5.08	2.54	31.75	0.220
CAT50-45° U/W				11.89								0.170
inch	1.140	1.44	0.820	0.468		2.30	1.000	0.700	0.20	0.10	1.25	
CAT60-45° U	37.08	54.36	26.54		1.25"-7UNC	81.28	38.10	27.43	7.62	3.56	38.10	
CAT60-45° U/W				12.70								
inch	1.460	2.14	1.045	0.500		3.20	1.500	1.080	0.30	0.14	1.50	

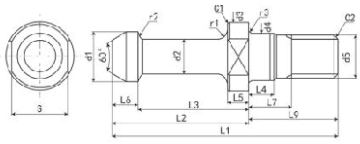
ISO 7388/3-2013 International Standard Pull Stud B Type ISO 7388/3-2013





Model	d1	d2	d3	d4	d5	d7	L1	L2	L3	L5	L6	L10	S	Weight
LDB30	13.35	13	16.5	9.3		M12	31.8	11.8	8.15	2.75	5	2.4	13	
LDB30/W					4.15									
LDB40	18.95	17	22.5	12.95		M16	44.4	16.4	11.15	3.25	7	3.5	18	0.069
LDB40/W					7.35									0.053
LDB45	24.05	21	30	16.3		M20	55.95	20.95	14.85	4.25	8	3.85	24	
LDB45/W					9.25									
LDB50	29.1	25	37	19.6		M24	65.55	25.55	17.95	5.25	10	4.85	30	0.234
LDB50/W					11.55									0.183
LDB60	37.25	32	50	24.95		M30	88.15	38.15	27.65	7.75	12	6.75	36	
LDB60/W					13.85									0.440

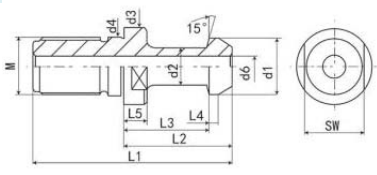
SR Pull Stud Series



Model	L1	d4 h7	d5 6g	C2	r3	L4	L7	d3 0 -0.1	rl	L5 0 -0.1	s 0 -0.2	C1
S5R	23.5	5.5	M5	0.5	0.4	3	5	8	1	2.5	7	0.2
S10R	26.5	6.5	M6	0.5	0.4	3	5	10	1.5	3	8	0.3
S15R	32	8.5	M8	1	0.5	4	6	12	1.5	3.5	10	0.4
S20R	34.5	8.5	M8	1	0.5	4	6	14	1.8	4	10	0.5
S25R	40	10.5	M10	1	0.5	4	7	15.5	2	4.5	13	0.5

Model	d1 0 -0.1	d2 0 -0.1	L2 0 -0.1	L3 0 -0.1	L6	r2	φ		L3-L5	L9	CHUCK
							1	2			
S5R	5.8	4	13.5	10.5	1.4	0.3	+0,5 0 15°	+0.5° 0 0°	8	10	S5T
S10R	7	5	15.5	12	1.6	0.3			9	11	S10T
S15R	8.3	6	18	14	1.9	0.4			10.5	14	S15T
S20R	9.5	7	20.5	16	2.1	0.4			12	14	S20T
S25R	10.8	8	23	18	2.3	0.5			13.5	17	S25T

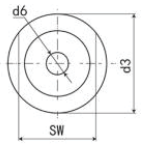
Japan JIS B6399 Pull Studs

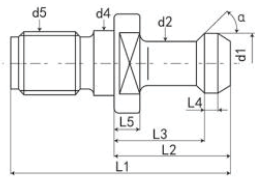


Model	d1	d2	d3	d4	d5	d7	L1	L2	L3	L5	L6	L9	L11	S	Weight
30P	12	12.5	16.5	8		M12	43	23.4	18.4	5	4	3	3.5	13	
30P/W					4										
35P	15	12.5	20	11		M12	44	24	19	5	4	3	3.5	17	
35P/W					5										
40P	19	17	23	14		M16	54	29	23	7	5	3	5	19	0.087
40P/W					7										0.071
45P	23	21	31	17		M20	60	30	23	7	6	4	5	24	
45P/W					8.5										
50P	28	25	38	21		M24	74	34	25	7	8	5	5	30	
50P/W					10										0.224
60P	36	31	48	27		M30	98	48	36	11	10	7	8	41	
60P/W					12										0.509

CAT-BT Blended Standard Pull Studs CAT-BT





American Standard Screw Therad Pull Stud

Model	d1	d3	d4	d5	d7	L1	L2	L3	L5	L10	L11	S	α	Weight
CAT40-45° U	15	23	10		0.625"-11UNC	57	32.15	25.15	6	4	4	19	45°	0.069
CAT40-45° U/W				4										0.064
CAT40-60° U													60°	
CAT40-60° U/W				4										
CAT40-90° U													90°	
CAT40-90° U/W				4										
CAT50-45° U	23	38	17		1"-8UNC	78.22	45.2	35.2	10	5	8	30	45°	0.286
CAT50-45° U/W				8.5										0.230
CAT50-60° U													60°	
CAT50-60° U/W				8.5										
CAT50-90° U													90°	
CAT50-90° U/W				8.5										

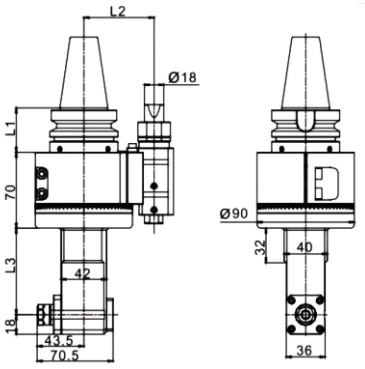
Metric Srew Thread Pull Stud

Model	d1	d2	d3	d4	d5	d6	L1	L2	L3	SW	α	Weight
CAT40*45°	15	10	23	17	M16		57	32	25	19	45°	0.07
CAT40*45° /W						4					45°	0.06
CAT40*60°											60°	0.07
CAT40*60° /W						4					60°	0.06
CAT40*90°											90°	0.07
CAT40*90° /W						4					90°	0.06
inch	0.59	0.394	0.905	0.512		0.157	2.25	1.266	0.99	0.748		

AG90-ER11

BT、NT、CAT、DAT、HSK

SK30/40/50	CAT30/40/50	BT30/40/50
KM63/80/100	ISO30/40/50	HSK63/80/100

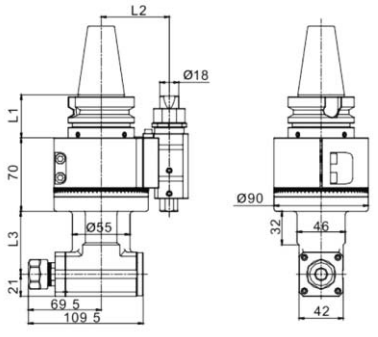


Model	Output	L1	L2	L3	Power	Maximum Speed	Maximum torqua	Reduction ratio
AG90-ER11-80	ER11	41/48	65/80	80	1KW	4500RPM	6Nm	1:1
AG90-ER11-140	ER11	41/48	65/80	140	1KW	4500RPM	6Nm	1:1
AG90-ER11-200	ER11	41/48	65/80	200	1KW	4500RPM	6Nm	1:1

AG90-ER16

BT、NT、CAT、DAT、HSK

SK30/40/50	CAT30/40/50	BT30/40/50
KM63/80/100	ISO30/40/50	HSK63/80/100

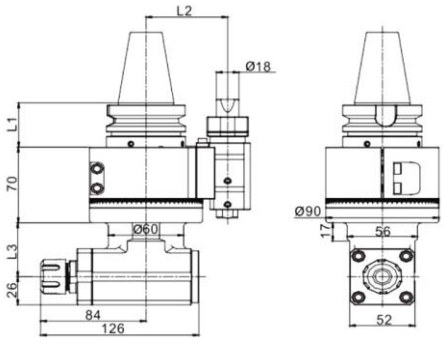


Model	Output	L1	L2	L3	Power	Maximum Speed	Maximum torqua	Reduction ratio
AG90-ER16-60	ER16	41/48	65/80	60	1.5KW	4500RPM	12Nm	1:1
AG90-ER16-120	ER16	41/48	65/80	120	1.5KW	4500RPM	12Nm	1:1
AG90-ER16-180	ER16	41/48	65/80	180	1.5KW	4500RPM	12Nm	1:1

AG90-ER20

BT、NT、CAT、DAT、HSK

SK30/40/50	CAT30/40/50	BT30/40/50
KM63/80/100	ISO30/40/50	HSK63/80/100

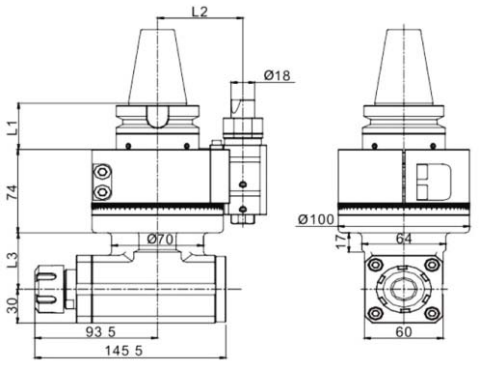


Model	Output	L1	L2	L3	Power	Maximum Speed	Maximum torqua	Reduction ratio
AG90-ER20-50	ER20	41/48	65/80	50	2KW	4000RPM	16Nm	1:1
AG90-ER20-110	FR20	41/48	65/80	110	2KW	4000RPM	16Nm	1:1
AG90-ER20-170	ER20	41/48	65/80	170	2KW	4000RPM	16Nm	1:1

AG90-ER25

BT、NT、CAT、DAT、HSK

SK30/40/50	CAT30/40/50	BT30/40/50
KM63/80/100	ISO30/40/50	HSK63/80/100

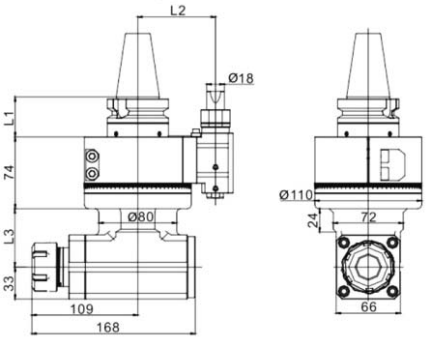


Model	Output	L1	L2	L3	power	Maximum Speed	Maximum torqua	Reduction ratio
AG90-ER25-50	ER25	41/48	65/80	50	3KW	4000RPM	32Nm	1:1
AG90-ER25-110	ER25	41/48	65/80	110	3KW	4000RPM	32Nm	1:1
AG90-ER25-170	ER25	41/48	65/80	170	3KW	4000RPM	32Nm	1:1

AG90-ER32

BT、NT、CAT、DAT、HSK

SK30/40/50	CAT30/40/50	BT30/40/50
KM63/80/100	ISO30/40/50	HSK63/80/100

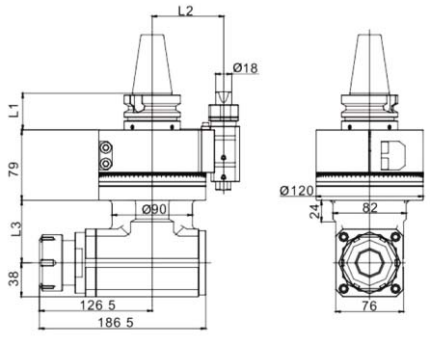


Model	Output	L1	L2	L3	Power	Maximum Speed	Maximum torqua	Reduction ratio
AG90-ER32-60	ER32	41/48	80/110	60	4KW	3500RPM	40Nm	1:1
AG90-ER32-130	ER32	41/48	80/110	130	4KW	3500RPM	40Nm	1:1
AG90-ER32-200	ER32	ER32	80/110	200	4KW	3500RPM	40Nm	1:1

AG90-ER40

BT、NT、CAT、DAT、HSK

SK30/40/50	CAT30/40/50	BT30/40/50
KM63/80/100	ISO30/40/50	HSK63/80/100

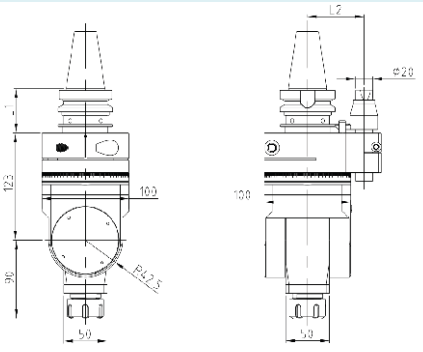


Model	Output	L1	L2	L3	Power	Maximum Speed	Maximum torqua	Reduction ratio
AG90-ER40-70	ER32	41/48	80/110	70	6KW	3000RPM	75Nm	1:1
AG90-ER40-150	ER32	41/48	80/110	150	6KW	3000RPM	75Nm	1:1
AG90-ER40-230	ER32	41/48	80/110	230	6KW	3000RPM	75Nm	1:1

AGMU-ER25

BT、NT、CAT、DAT、HSK

SK30/40/50	CAT30/40/50	BT30/40/50
KM63/80/100	ISO30/40/50	HSK63/80/100

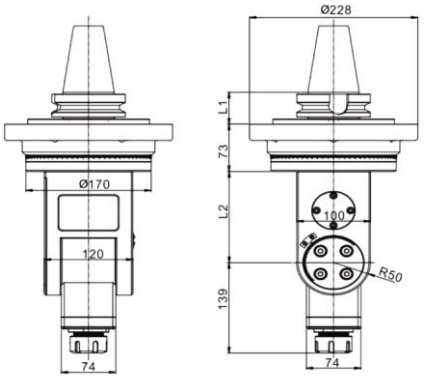


Model	Output	L1	L2	Power	Maximum Speed	Maximum torqua	Reduction ratio
AGMU-ER25	ER25	51/58	65/80	3Kw	3500RPM	32Nm	1:1

AGU-ER32

BT、NT、CAT、DAT、HSK

SK30/40/50	CAT30/40/50	BT30/40/50
KM63/80/100	ISO30/40/50	HSK63/80/100

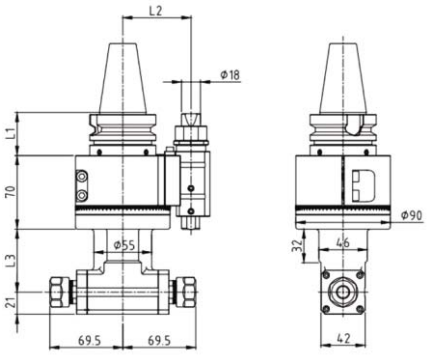


Model	Output	L1	L2	L3	Power	Maximum Speed	Maximum torqua	Reduction ratio
AGU-ER32-140	ER32	42/49	140	60	4Kw	3500RPM	45Nm	1:1
AGU-ER32-220	ER32	42/49	220	130	4Kw	3500RPM	45Nm	1:1
AGU-ER32-300	ER32	42/49	300	200	4Kw	3500RPM	45Nm	1:1

AG90-ER16*2

BT、NT、CAT、DAT、HSK

SK30/40/50	CAT30/40/50	BT30/40/50
KM63/80/100	ISO30/40/50	HSK63/80/100

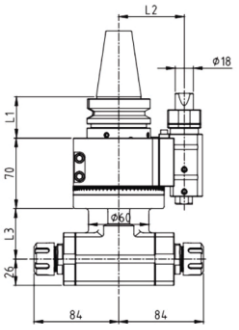


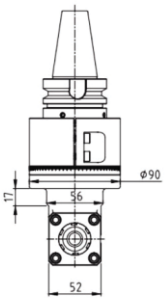
Model	Output	L1	L2	L3	Power	Maximum Speed	Maximum torqua	Reduction ratio
AG90-ER16x2-60	ER16	41/48	65/80	60	1.5Kw	4500RPM	12Nm	1:1
AG90-ER16x2-120	ER16	41/48	65/80	120	1.5Kw	4500RPM	12Nm	1:1
AG90-ER16x2-180	ER16	41/48	65/80	180	1.5Kw	4500RPM	12Nm	1:1

AG90-ER20*2

BT、NT、CAT、DAT、HSK

SK30/40/50	CAT30/40/50	BT30/40/50
KM63/80/100	ISO30/40/50	HSK63/80/100



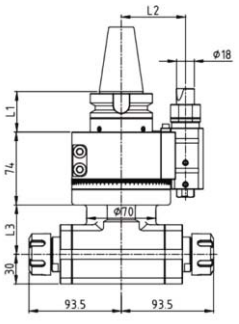


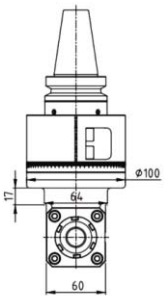
Model	Output	L1	L2	L3	Power	Maximum Speed	Maximum torqua	Reduction ratio
AG90-ER20x2-50	ER20	41/48	65/80	50	2Kw	4500RPM	18Nm	1:1
AG90-ER20x2-110	ER20	41/48	65/80	110	2Kw	4500RPM	18Nm	1:1
AG90-ER20x2-170	ER20	41/48	65/80	170	2Kw	4500RPM	18Nm	1:1

AG90-ER25*2

BT、NT、CAT、DAT、HSK

SK30/40/50	CAT30/40/50	BT30/40/50
KM63/80/100	ISO30/40/50	HSK63/80/100



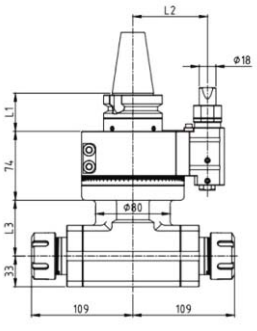


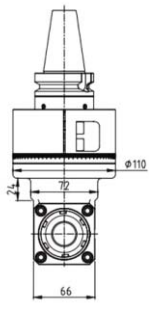
Model	Output	L1	L2	L3	Power	Maximum Speed	Maximum torqua	Reduction ratio
AG90-ER25x2-50	ER25	41/48	65/80	50	3Kw	4500RPM	32Nm	1:1
AG90-ER25x2-120	ER25	41/48	65/80	120	3Kw	4500RPM	32Nm	1:1
AG90-ER25x2-170	ER25	41/48	65/80	170	3Kw	4500RPM	32Nm	1:1

AG90-ER32*2

BT、NT、CAT、DAT、HSK

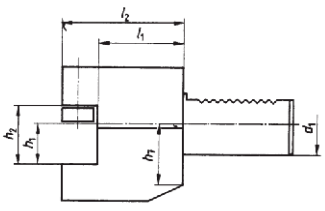
SK30/40/50	CAT30/40/50	BT30/40/50
KM63/80/100	ISO30/40/50	HSK63/80/100

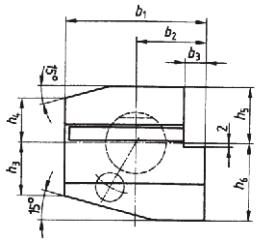




Model	Output	L1	L2	L3	Power	Maximum Speed	Maximum torqua	Reduction ratio
AG90-ER32x2-60	ER32	41/48	80	60	4Kw	3500RPM	45Nm	1:1
AG90-ER32x2-130	ER32	41/48	80	130	4Kw	3500RPM	45Nm	1:1
AG90-ER32x2-200	ER32	41/48	80	200	4Kw	3500RPM	45Nm	1:1

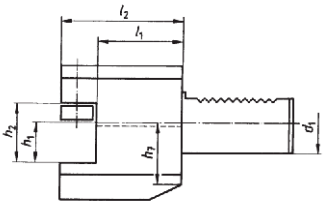
Radial outer diameter right-hand fixed Tool Holders (B1 type)

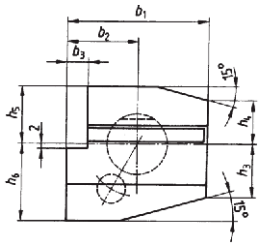




Model	d1	b1	b2	b3	h1	h2	h3	h4	h5	h6	h7	l1	l2
B1-20X16X30	20	55	30	7	16	22	19	19	25	30	23	16	30
B1-30X20X40	30	70	35	10	20	29	26	22	28	38	30	22	40
B1-40X25X44	40	85	42.5	12.5	25	34	35	30	32.5	48	—	22	44
B1-50X32X55	50	100	50	16	32	41	42	35	35	60	—	30	55
B1-60X32X60	60	125	62.5	16	32	41	46	42.5	42.5	62.5	—	30	60

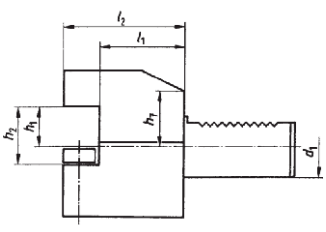
Radial outer diameter left-hand fixed Tool Holders (B2 type)

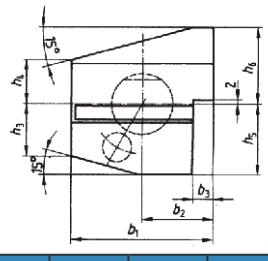




Model	d1	b1	b2	b3	h1	h2	h3	h4	h5	h6	h7	l1	l2
B2-20X16X30	20	55	30	7	16	22	19	19	25	30	23	16	30
B2-30X20X40	30	70	35	10	20	29	26	22	28	38	30	22	40
B2-40X25X44	40	85	42.5	12.5	25	34	35	30	32.5	48	—	22	44
B2-50X32X55	50	100	50	16	32	41	42	35	35	60	—	30	55
B2-60X32X60	60	125	62.5	16	32	41	46	42.5	42.5	62.5	—	30	60

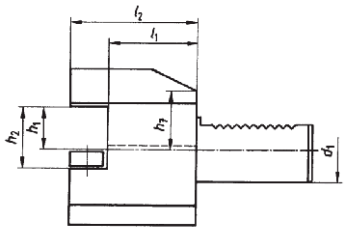
Radial outer diameter right-hand fixed Tool Holders (B3 type)

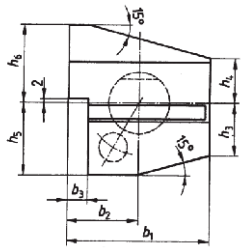




Model	d1	b1	b2	b3	h1	h2	h3	h4	h5	h6	h7	l1	l2
B3-20X16X30	20	55	30	7	16	22	19	19	25	30	23	16	30
B3-30X20X40	30	70	35	10	20	29	26	22	35	38	28	22	40
B3-40X25X44	40	85	42.5	12.5	25	34	35	30	42.5	48	—	22	44
B3-50X32X55	50	100	50	16	32	41	42	35	50	60	—	30	55
B3-60X32X60	60	125	62.5	16	32	41	46	42.5	62.5	62.5	—	30	60

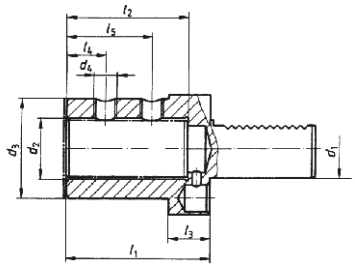
Radial outer diameter left-hand fixed Tool Holders (B4 type)

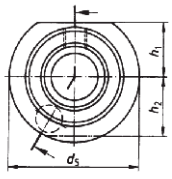




Model	d1	b1	b2	b3	h1	h2	h3	h4	h5	h6	h7	l1	l2
B4-20X16X30	20	55	30	7	16	22	19	19	25	30	23	16	30
B4-30X20X40	30	70	35	10	20	29	26	22	35	38	28	22	40
B4-40X25X44	40	85	42.5	12.5	25	34	35	30	42.5	48	—	22	44
B4-50X32X55	50	100	50	16	32	41	42	35	50	60	—	30	55
B4-60X32X60	60	125	62.5	16	32	41	46	42.5	62.5	62.5	—	30	60

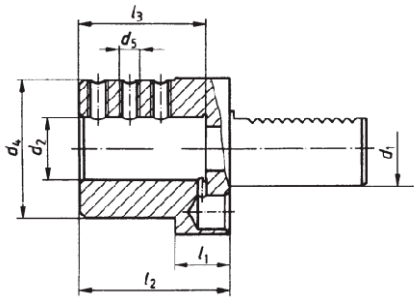
Internal diameter U Drill fixed Tool Holders (E1 type)

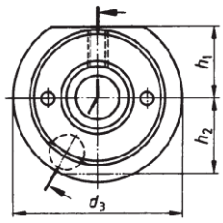




Model	d1	d2	d3	d4	d5	h1	h2	l1	l2	l3	l4	l5
E1-20X16	20	16	36	M10x1	50	—	23	67	54	18	15	35
E1-20X20	20	20	40	M10x1	50	—	23	67	54	18	15	35
E1-20X25	20	25	45	M12x1	50	—	23	71	59	18	17	40
E1-30X16	30	16	36	M10x1	68	28	30	67	54	22	15	35
E1-30X20	30	20	40	M10x1	68	28	30	67	54	22	15	35
E1-30X25	30	25	45	M12x1	68	28	30	71	59	22	17	40
E1-30X32	30	32	52	M12x1	68	28	30	75	63	22	20	44
E1-40X16	40	16	36	M10x1	83	32.5	—	67	54	22	15	35
E1-40X20	40	20	40	M10x1	83	32.5	—	67	54	22	15	35
E1-40X25	40	25	45	M12x1	83	32.5	—	75	59	22	17	40
E1-40X32	40	32	52	M12x1	83	32.5	—	75	63	22	20	44
E1-40X40	40	40	65	M16x1	83	32.5	—	90	73	22	22	50
E1-50X20	50	20	40	M10x1	98	35	—	67	54	30	15	35
E1-50X25	50	25	45	M12x1	98	35	—	80	59	30	17	40
E1-50X32	50	32	52	M12x1	98	35	—	80	63	30	20	44
E1-50X40	50	40	65	M16x1	98	35	—	90	73	30	22	50
E1-50X50	50	50	75	M16x1	98	35	—	100	83	30	24	60
E1-60X20	60	20	40	M10x1	123	42.5	—	80	54	30	15	35
E1-60X25	60	25	45	M12x1	123	42.5	—	80	59	30	17	40
E1-60X32	60	32	52	M12x1	123	42.5	—	80	63	30	20	44
E1-60X40	60	40	65	M16x1	123	42.5	—	90	73	30	22	50
E1-60X50	60	50	75	M16x1	123	42.5	—	100	83	30	24	60

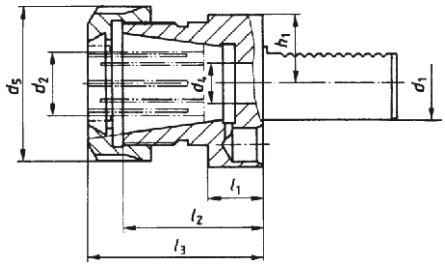
Inner hole side lock fixed Tool Holders (E2 type)

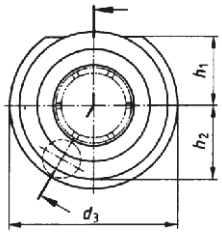




Model	d1	d2	d3	d4	d5	h1	h2	l1	l2	l3
E2-16X8	16	8	40	32	M6	18	18	13	44	34
E2-16X10	16	10	40	32	M6	18	18	13	44	34
E2-16X12	16	12	40	40	M8	18	18	13	44	34
E2-16X16	16	16	40	40	M8	18	18	13	44	34
E2-20X8	20	8	50	40	M6	—	23	18	50	41
E2-20X10	20	10	50	40	M6	—	23	18	50	41
E2-20X12	20	12	50	40	M8	—	23	18	50	41
E2-20X16	20	16	50	40	M8	—	23	18	50	41
E2-20X20	20	20	50	50	M8	—	23	18	50	41
E2-20X25	20	25	50	50	M8	—	23	18	60	51
E2-30X10	30	10	68	55	M6	28	30	22	60	51
E2-30X12	30	12	68	55	M8	28	30	22	60	51
E2-30X16	30	16	68	55	M8	28	30	22	60	51
E2-30X20	30	20	68	55	M8	28	30	22	60	51
E2-30X25	30	25	68	55	M8	28	30	22	60	51
E2-30X32	30	32	68	68	M8	28	30	22	75	61
E2-40X12	40	12	83	55	M8	32.5	—	22	75	61
E2-40X16	40	16	83	55	M10	32.5	—	22	75	61
E2-40X20	40	20	83	55	M10	32.5	—	22	75	61
E2-40X25	40	25	83	55	M10	32.5	—	22	75	61
E2-40X32	40	32	83	83	M10	32.5	—	22	75	61
E2-40X40	40	40	83	83	M10	32.5	—	22	90	76
E2-50X12	50	12	98	68	M10	35	—	30	90	76
E2-50X16	50	16	98	68	M10	35	—	30	90	76
E2-50X20	50	20	98	68	M12	35	—	30	90	76
E2-50X25	50	25	98	68	M12	35	—	30	90	76
E2-50X32	50	32	98	68	M12	35	—	30	90	76
E2-50X40	50	40	98	98	M12	35	—	30	90	76
E2-50X50	50	50	98	98	M12	35	—	30	100	86

Inner hole ER Collet Type Fixed Tool Holders (E4 Type)





Model	d1	ER Collet	d2	d3	d4	d5	h1	h2	l1	l2	l3
E4-16X20	16	ER20	1 ~ 13	40	6.7	35	18	18	13	32	44
E4-20X25	20	ER25	2 ~ 16	50	9	42	—	23	18	38	50
E4-20X32	20	ER32	3 ~ 20	50	9	50	—	23	18	49.5	62
E4-30X25	30	ER25	2 ~ 16	68	16.5	42	28	30	22	45	57
E4-30X40	30	ER40	3 ~ 26	68	16.5	63	28	30	22	56	70
E4-40X32	40	ER32	3 ~ 20	83	20.5	50	32.5	—	22	49.5	62
E4-40X40	40	ER40	3 ~ 26	83	20.5	63	32.5	—	22	61	75
E4-50X40	50	ER40	3 ~ 26	98	25.5	63	35	—	30	61	75
E4-60X40	60	ER40	3 ~ 26	123	28.5	63	42.5	—	30	61	75

Spindle Force Gauge

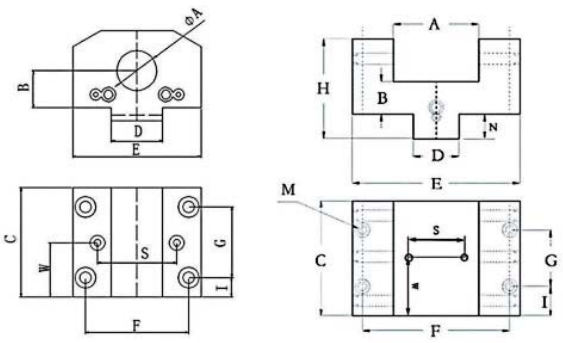
Mechanical hydraulic design
Pressure design: 1Kg/m2=10Kg=100N

The spindle tension meter is an instrument used to measure the tension of the tie rod.The tension of therailing is very important to evaluate the quality of the machine. It is a simple and convenient hydraulictesting instrument for the stability of the equipment spindle to detect whether the tension of the spindle is

Model	Measuring range	Reference tension range	Weight (KG)
BT30	0-50kg/cm 2	200-500	4.3
BT40	0-150kg/cm 2	500-1000	4.5
BT50	0-350kg/cm 2	1500-2200	6.8

Model	H	D	L
SBHA20-32-140L(Tight-hold)	20	32	140
SBHA25-20-100L(Tight-hold)	25	20	100
SBHA25-25-100L(Tight-hold)	25	25	100
SBHA25-32-140L(Tight-hold)	25	32	140
SBHA25-40-120L(Tight-hold)	25	40	120
SBHA25-40-160L(Tight-hold)	25	40	160
SBHA25-50-140L(Tight-hold)	25	50	140
SBHA25-50-200L(Tight-hold)	25	50	200
SBHA25-60-200L(Tight-hold)	25	60	200
SBHA32-20-80L(Tight-hold)	32	20	80
SBHA32-25-120L(Tight-hold)	32	25	120
SBHA32-32-150L(Tight-hold)	32	32	150
SBHA32-40-120L(Tight-hold)	32	40	120
SBHA32-40-160L(Tight-hold)	32	40	160
SBHA32-50-140L(Tight-hold)	32	50	140
SBHA32-50-200L(Tight-hold)	32	50	200
SBHA32-60-180L(Tight-hold)	32	60	180
SBHA40-40-160L(Tight-hold)	40	40	160
SBHA40-50-210L(Tight-hold)	40	50	210
SBHA40-60-180L(Tight-hold)	40	60	180
SBHA40-60-200L(Tight-hold)	40	60	200

Suitable for tungsten steel damping tool bar



Boring tool holder: U drill, taper shank twist drill,
extension rod, milling cutter rod, inner hole cutter rod,straight shank cutter, lathe guide sleeve,etc.
End face cutter block: square cutter bar, etc.


F70*G40*D20*A32


F72*G45*D20*A40


F80*G60*D20*A40


F58*G32*D16*A32


F68*G42*D30*A32


F71*G43*D25* 开 50

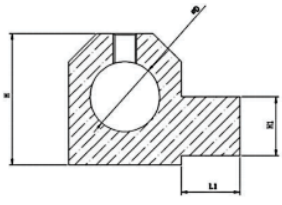

F72*G45*D16* 开 50

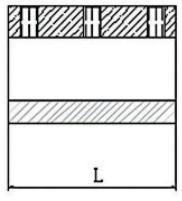

F72*G60*D30* 开 50


F88*G56*D40*A32


F76*G35*D25 凹 *A32

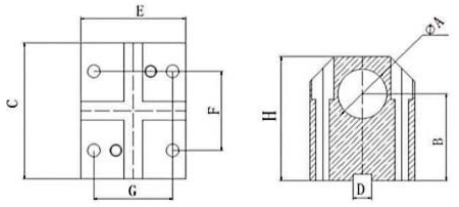
Lathe Auxiliary Holders



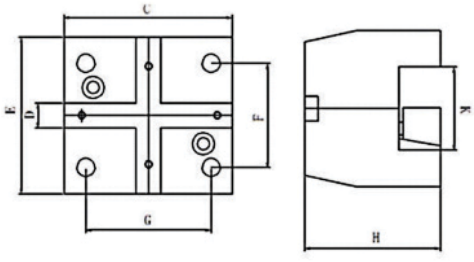


Model	HT	L1	D	H	L
SBHA12-20	12	15	20	35	65
SBHA16-16	16	20	16	44	65
SBHA16-20	16	20	20	44	65
SBHA16-25	16	20	25	44	65
SBHA20-16	20	20	16	47	65
SBHA20-20	20	20	20	47	65
SBHA20-25	20	20	25	47	65
SBHA20-32	20	20	32	57	80
SBHA20-40	20	20	40	65	90
SBHA25-16	25	25	16	53	70
SBHA25-20	25	25	20	53	70
SBHA25-25	25	25	25	53	70

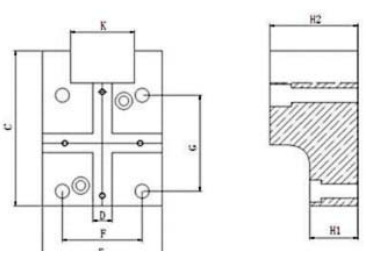
Model	HT	L1	D	H	L
SBHA25-32	25	25	32	60	80
SBHA25-40	25	25	40	67	90
SBHA25-50-120	25	32	50	83	120
SBHA32-20	32	32	20	67	90
SBHA32-25	32	32	25	67	90
SBHA32-32	32	32	32	66	90
SBHA32-40	32	32	40	75	100
SBHA32-40-125	32	32	40	75	125
SBHA32-50-120	32	32	50	83	120
SBHA40-40	40	40	40	90	130
SBHA40-50	40	40	50	93	130
SBHA40-60	40	40	60	95	180



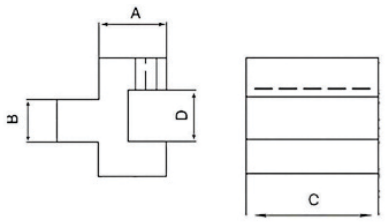
Model	A	B	C	D	E	F	G	H
BMT40	25	60	92	12	63	50	60	63
BMT45	32	65	95	15	75	58	58	91
BMT55	40	70	110	15	85	64	64	100
BMT65	40	72	126	18	95	73	70	116



Model	C	D	E	F	G	H	K
BMT40	81	12	75	50	60	65	40
BMT45	90	15	75	58	58	80	40
BMT55	100	15	85	64	64	80	50
BMT65	100	18	96	73	70	82	50

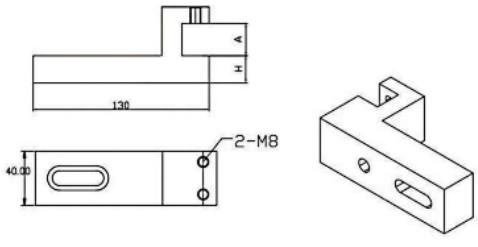


Model	C	D	E	F	G	K
BMT40	97	12	75	50	60	40
BMT45	105	15	75	58	58	40
BMT55	126	15	85	64	64	50
BMT65	131	18	97	73	70	50



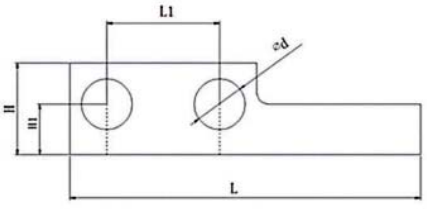
Model	A	B	C	D
20-25	35	20	85	25
25-32	45	25	85	30
32-40	62	32	100	50

L- Type Row Knife Hole Holders



Select model according to centerheight and opening size, supportnon-standard

Double Station Auxiliary Tool Rest

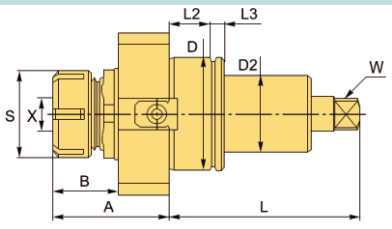


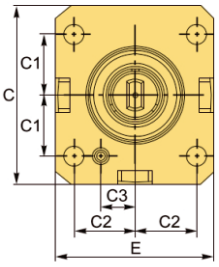
Model	H1	d	L1	H	L
C20-H20	20	20	50	40	150
C25-H20	20	25	55	45	171
C20-H25	25	20	55	45	171
C25-H25	25	25	55	45	171

It is used to install two tools in one tool position of lathe tool rest, reducing tool change,saving time and labor and higher efficiency. If you need a three-station knife rest, we can also make it to order.

BMT axial collet powered tool holder

BMT45-ADZ45-25, internal and external coolant supply





BMT type	BMT45	Weight, kg	2
Cooling type	Internal and external	Positioning	Axial
Tool setting size	ER25/ER25S	Tab size (W)	6*13 (BMT45)
Tool holder type	Powered	Collets:	ER25, ER25S
Holder series:	BMT-ADZ	C	85 mm
C1	29 mm	C2	29 mm
C3	16.5 mm	X	1-16 mm
D	45 mm	A	58 mm
B	30 mm	E	75 mm
L	84 mm	L2	40 mm
L3	5 mm	S	42 mm

BMT45-ADZ45-25, internal and external coolant supply

BMT type	BMT55	Weight, kg	3
Cooling type	Internal and external	Positioning	Axial
Tool setting size	ER25/ER25S	Tab size (W)	8*28 (BMT55)
Tool holder type	Powered	Collets:	ER25, ER25S
Holder series:	BMT-ADZ	C	92 mm
C1	32 mm	C2	32 mm
C3	14 mm	X	1-16 mm
D	55 mm	D2	40 mm
A	59 mm	B	31.8 mm
E	86 mm	L	104 mm
L2	23.5 mm	L3	6.5 mm
S	42 mm		

BMT65-ADZ65-32, internal and external coolant supply

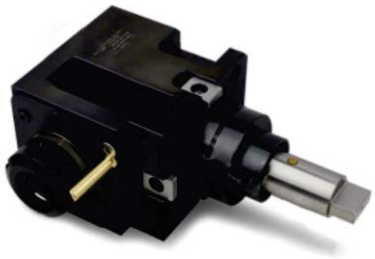
BMT type	BMT65	Weight, kg	4.5
Cooling type	Internal and external	Positioning	Axial
Tool setting size	ER32/ER32S	Tab size (W)	10*27 (BMT65)
Tool holder type	Powered	Collets:	ER32, ER32S
Holder series:	BMT-ADZ	C	108 mm
C1	37,5 mm	C2	36.5 mm
C3	9 mm	X	2-20 mm
D	65 mm	D2	45 mm
A	70 mm	B	33 mm
E	98 mm	L	112 mm
L2	9 mm	L3	23 mm
S	50 mm		

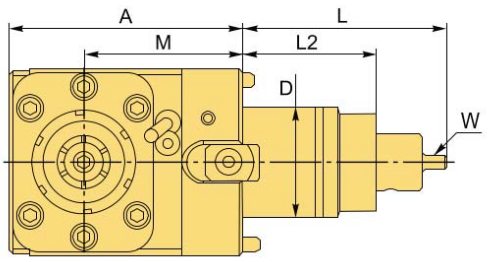
BMT radial collet powered tool holder

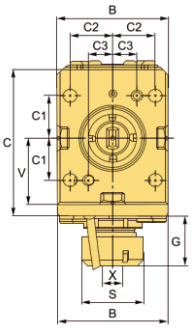
BMT45-ADN45-25-65, internal and external coolant supply

BMT type	BMT45	Weight, kg	6
Cooling type	Internal and external	Positioning	Radial
Tool setting size	ER25/ER25S	Tab size (W)	6*13 (BMT45)
Tool holder type	Powered	Collets:	ER25, ER25S
Holder series:	BMT-AND	C	102 mm
C1	29 mm	C2	29 mm
C3	16.5 mm	G	30 mm
X	1-16 mm	D	45 mm
A	95 mm	B	75 mm
L	84 mm	L2	55 mm
M	65	S	42 mm
V	45 mm		

BMT radial collet powered tool holder







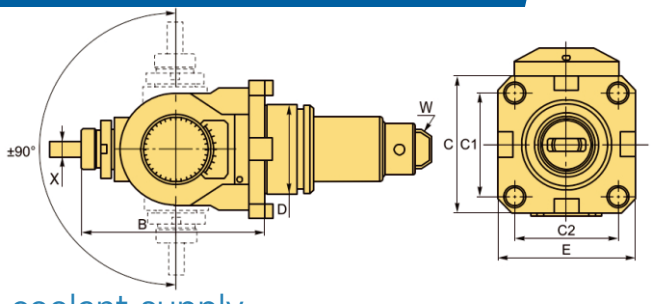
BMT55-ADN55-25-60, internal and external coolant supply

BMT type	BMT45	Weight, kg	6.5
Cooling type	Internal and external	Positioning	Radial
Tool setting size	ER25/ER25S	Tab size (W)	8*28 (BMT55)
Tool holder type	Powered	Collets:	ER25, ER25S
Holder series:	BMT-AND	C	102 mm
C1	29 mm	C2	32 mm
C3	16.5 mm	G	30 mm
X	1-16 mm	D	55 mm
A	95 mm	B	85 mm
L	84 mm	L2	75 mm
M	65	S	42 mm
V	45 mm		

BMT65-ADN65-32-72, internal and external coolant supply

BMT type	BMT65	Weight, kg	9
Cooling type	Internal and external	Positioning	Radial
Tool setting size	ER32/ER32S	Tab size (W)	10*27 (BMT65)
Tool holder type	Powered	Collets:	ER32, ER32S
Holder series:	BMT-AND	C	119.5 mm
C1	35 mm	C2	36.5 mm
C3	17 mm	G	32 mm
X	2-20 mm	D	65 mm
A	110 mm	B	94 mm
L	112 mm	L2	50 mm
M	72	S	50 mm
V	55 mm		

BMTadjustable powered tool holder (±90°)

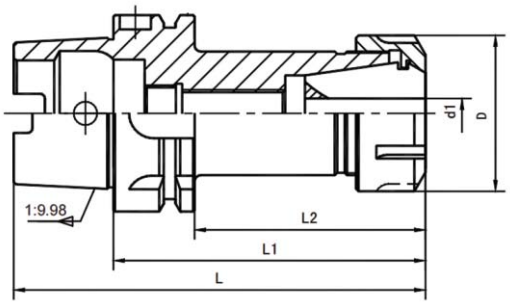


BMT45-ADC-ER20, internal and external coolant supply

BMT type	BMT45	Weight, kg	4.2
Cooling type	Internal and external	Positioning	Universal (with adjustable angle)
Tool setting size	Er20	Tab size (W)	6*13 (BMT45)
Tool holder type	Powered	Collets:	ER20
Holder series:	BMT-ADC	C	75 mm
C1	58 mm	C2	58 mm
X	1-13 mm	D	45 mm
B	119.5 mm	E	80 mm

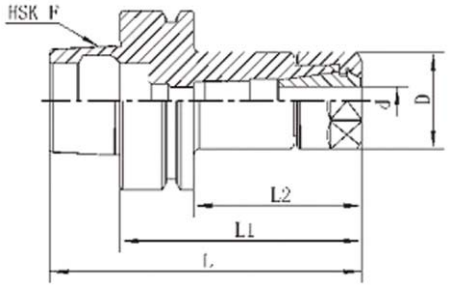
BMT55-ADC-ER20, internal and external coolant supply

BMT type	BMT55	Weight, kg	4.5
Cooling type	Internal and external	Positioning	Universal (with adjustable angle)
Tool setting size	Er20	Tab size (W)	8*28 (BMT55)
Tool holder type	Powered	Collets:	ER20
Holder series:	BMT-ADC	C	85 mm
C1	64 mm	C2	64 mm
X	1-13 mm	D	55 mm
B	119.5 mm	E	85 mm



○ A collet and replacement of cutting tools, screw nut and body must be clean, and add grease, Otherwise it will cause damage to the thread
○ The device must be placed when the collet nut, and then into the tool, then the lock body
○ The placement tool collet hole, clamping collet must exceed effective length, to avoid improper locking dama

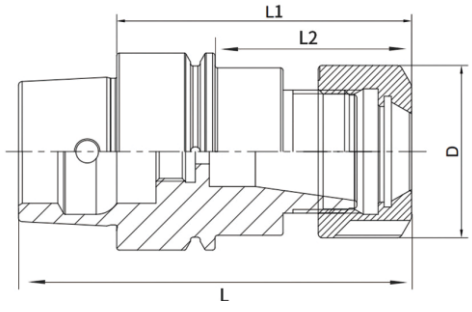
Model		L	L1	L2	D	d1
HSK63A	ER16-80	107	80	49	28	1 ~ 10
	ER16-100	132	100	74	28	1 ~ 10
	ER16-130	162	130	104	28	1 ~ 10
	ER16-160	192	160	134	28	1 ~ 10
	ER20-80	107	80	49	34	1 ~ 13
	ER20-100	132	100	74	34	1 ~ 13
	ER20-130	162	130	104	34	1 ~ 13
	ER20-160	192	160	134	34	1 ~ 13
	ER25-80	107	80	49	42	3 ~ 16
	ER25-100	132	100	74	42	3 ~ 16
	ER25-130	162	130	104	42	3 ~ 16
	ER25-160	192	160	134	42	3 ~ 16
	ER32-80	107	80	49	50	3 ~ 20
	ER32-100	132	100	74	50	3 ~ 20
	ER32-130	162	130	104	50	3 ~ 20
	ER32-160	192	160	134	50	3 ~ 20
	ER40-120	152	120	94	63	3 ~ 26
	ER40-160	192	160	134	63	3 ~ 26
HSK100A	ER16-100	150	100	71	28	1 ~ 10
	ER16-160	210	160	131	28	1 ~ 10
	ER20-100	150	100	71	34	1 ~ 13
	ER20-160	210	160	131	34	1 ~ 13
	ER25-100	150	100	71	42	3 ~ 16
	ER25-160	210	160	131	42	3 ~ 16
	ER32-100	150	100	71	50	3 ~ 20
	ER32-160	210	160	131	50	3 ~ 20
	ER40-100	150	100	71	63	3 ~ 26
	ER40-160	210	160	131	63	3 ~ 26



○ A collet and replacement of cutting tools, screw nut and body must be clean,and add grease, Otherwise it will ause damage tothe thread
○ The device must be placed when the collet nut, and then into the tool,then the lock body
○ The placement tool collet hole, clamping collet must exceed effective length, to avoid improper locking dama

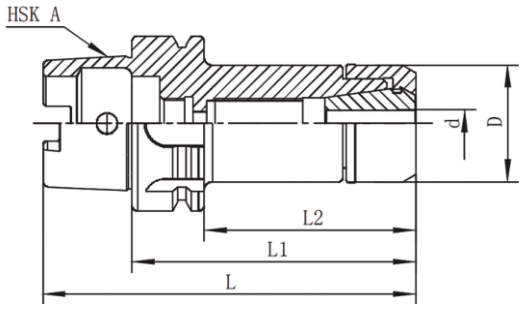
Model		L	L1	L2	D	d
HSK63F	ER16-75	100	75	49	28	1 ~ 10
	ER16-100	125	100	74	28	1 ~ 10
	ER20-75	100	75	49	34	1 ~ 13
	ER20-100	125	100	74	34	1 ~ 13
	ER25-75	100	75	49	42	3 ~ 16
	ER25-100	125	100	74	42	3 ~ 16
	ER32-80	105	80	54	50	3 ~ 20
	ER32-100	125	100	74	50	3 ~ 20
	ER40-80	105	80	54	63	3 ~ 26
	ER40-100	125	100	74	63	3 ~ 26

HSK-GER Stainless Steel Tool Holders



○ A collet and replacement of cutting tools, screw nut and body must be clean,and add grease, Otherwise it will ause damage tothe thread
○ The device must be placed when the collet nut, and then into the tool, then the lock body
○ The placement tool collet hole, clamping collet must exceed effective length, to avoid improper locking dama

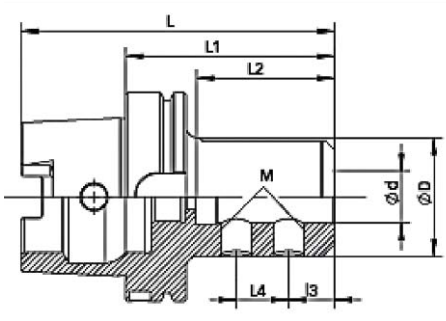
Model		L	L1	L2	D	Clamping Range
HSK32E	GER16	66	50	30	27.5	1-10
	GER20	66	50	30	30.5	1-13
HSK40E	GER16	85	65	45	27.5	1-10
	GER20	85	65	45	30.5	1-13
	GER25	90	70	50	30.5	1-16
HSK50E	GER16	95	70	44	27.5	1-10
	GER20	95	70	44	30.5	1-13
	GER25	95	70	44	35.5	3-16



- Into the collet and replacement of cutting tools, must clean up the thread of nut and ontology, and add grease, otherwise it will cause damage to the screw thread
- Full circle - no eccentric nut design, low noise, small wind resistance, suitable for high speed

Model		L	L1	L2	D	d
HSK 63A	GER16-75	102	75	49	27.5	1 ~ 10
	GER16-100	132	100	74	27.5	1 ~ 10
	GER16-130	162	130	104	27.5	1 ~ 10
	GER16-160	192	160	134	27.5	1 ~ 10
	GER20-75	102	75	49	30.5	1 ~ 13
	GER20-100	132	100	74	30.5	1 ~ 13
	GER20-130	162	130	104	30.5	1 ~ 13
	GER20-160	192	160	134	30.5	1 ~ 13
	GER25-75	102	75	49	35.5	3 ~ 16
	GER25-100	132	100	74	35.5	3 ~ 16
	GER25-130	162	130	104	35.5	3 ~ 16
	GER25-160	192	160	134	35.5	3 ~ 16
	GER32-75	102	75	49	48.5	3 ~ 20
	GER32-100	132	100	74	48.5	3 ~ 20
	GER32-130	162	130	104	48.5	3 ~ 20
	GER32-160	192	160	134	48.5	3 ~ 20
HSK 32E	GER16-50	66	50	30	27.5	1 ~ 10
	GER20-50	66	50	30	30.5	1 ~ 13
HSK 40E	GER16-65	85	65	45	27.5	1 ~ 10
	GER20-65	85	65	45	30.5	1 ~ 13
	GER25-70	90	70	50	35.5	3 ~ 16
HSK 50E	GER16-70	95	70	44	27.5	1 ~ 10
	GER20-70	95	70	44	30.5	1 ~ 13
	GER25-70	95	70	44	35.5	3 ~ 16

HSK-A-SLN Tool Holders

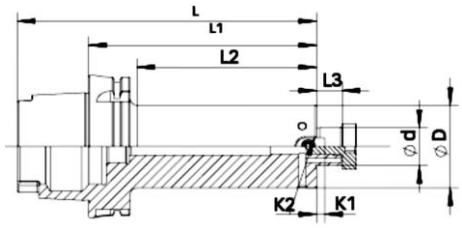


- The clamping hole tolerance H5
- With less than 20 mm a locking screw, with a diameter of 25 mm above two locking screw

Model		L	L1	L2	L3	L4	d	D	M
HSK A63	SLN6-65	97	65	36	18	-	6	25	M6
	SLN8-65	97	65	36	18	-	8	28	M8
	SLN10-65	97	65	36	20	-	10	35	M10
	SLN12-80	112	80	51	22	-	12	42	M12
	SLN14-80	112	80	51	20	20	14	44	M12
	SLN14-100	132	100	71	20	20	14	44	M12
	SLN16-80	112	80	52	20	20	16	48	M12
	SLN16-100	132	100	72	20	20	16	48	M12
	SLN18-80	112	80	54	20	20	18	50	M12
	SLN18-100	132	100	74	20	20	18	50	M12
	SLN20-80	112	80	54	20	25	20	52	M16
	SLN20-100	132	100	74	20	25	20	52	M16
	SLN25-110	142	110	84	22	25	25	57	M16
	SLN25-160	192	160	134	22	25	25	57	M16
	SLN32-110	142	110	84	22	25	32	63	M16
	SLN32-160	192	160	134	22	25	32	63	M16
	SLN40-125	157	125	99	25	32	40	72	M16

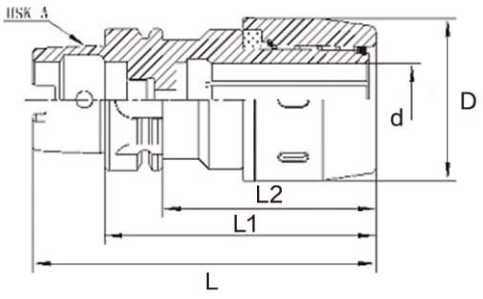
Model		L	L1	L2	L3	L4	d	D	M
HSK A100	SLN16-100	150	100	66	20	20	16	48	M12
	SLN16-160	210	160	126	20	20	16	48	M12
	SLN18-100	150	100	66	20	20	18	50	M12
	SLN18-160	210	160	126	20	20	18	50	M12
	SLN20-100	150	100	66	20	25	20	52	M16
	SLN20-160	210	160	126	20	25	20	52	M16
	SLN25-100	150	100	66	22	25	25	57	M16
	SLN25-160	210	160	126	22	25	25	57	M16
	SLN32-100	150	100	66	22	25	32	63	M16
	SLN32-160	210	160	126	22	25	32	63	M16
	SLN40-115	165	115	82	25	32	40	72	M16
	SLN40-160	210	160	127	25	32	40	72	M16
	SLN50-120	170	120	91	30	35	50	90	M20
	SLN50-160	210	160	131	30	35	50	90	M20

HSK-A-FMB Tool Holders



○ The face milling cutter with parts (d) shaft tolerance h6

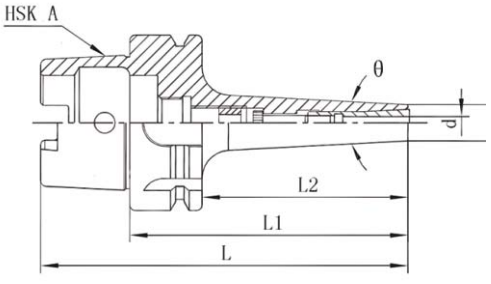
Model		L	L1	L2	L3	d	D	K1	K2
HSK63A	FMB16C-50	99	50	21	16	16	38	3.8	8
	FMB16C-100	149	100	71	16	16	38	3.8	8
	FMB22C-50	100	50	22	18	22	48	4.8	10
	FMB22C-100	150	100	72	18	22	48	4.8	10
	FMB22C-160	210	160	132	18	22	48	4.8	10
	FMB22C-200	250	200	172	18	22	48	4.8	10
	FMB27C-60	112	60	34	20	27	60	5.8	12
	FMB27C-100	152	100	74	20	27	60	5.8	12
	FMB32C-60	114	60	34	22	32	70	6.8	14
	FMB32C-100	154	100	74	22	32	70	6.8	14
	FMB40C-60	117	60	34	25	40	80	8.3	16
	FMB40C-100	157	100	74	25	40	80	8.3	16
HSK100A	FMB16C-100	167	100	66	17	16	38	3.8	8
	FMB16C-160	227	160	126	17	16	38	3.8	8
	FMB22C-60-D48	110	60	26	18	22	48	4.8	10
	FMB22C-100-D48	150	100	66	18	22	48	4.8	10
	FMB22C-160-D48	210	160	126	18	22	48	4.8	10
	FMB22C-200-D48	250	200	166	18	22	48	4.8	10
	FMB22C-160-D60	210	160	126	18	22	60	4.8	10
	FMB22C-200-D60	250	200	166	18	22	60	4.8	10
	FMB27C-100	170	100	66	20	27	60	5.8	12
	FMB27C-160	230	160	126	20	27	60	5.8	12
	FMB32C-100	172	100	66	22	32	70	6.8	14
	FMB32C-160	232	160	126	22	32	70	6.8	14
	FMB40C-100	175	100	66	25	40	80	8.3	16
	FMB40C-160	235	160	126	25	40	80	8.3	16



○ Handle clamping hole 6 to prevent sliding groove design increases the blessing
○ The appearance of nut uniformity, reduce wind resistance, suitable for high speed

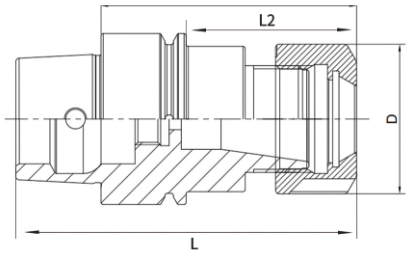
Model		L	L1	L2	D	d
HSK63A	C32-120	152	120	94	73	6-32
	C32-150	182	150	124	73	6-32
HSK100A	C32-120	170	120	91	73	6-32
	C32-165	215	165	136	73	6-32

HSK-A-SDC Back Pull Tool Holders



○ Collet nut design no pull, strong stability and high rigidity
○ The recommended torque wrench, do not exceed the recommended value of 30%, high torque, the deformation may lead

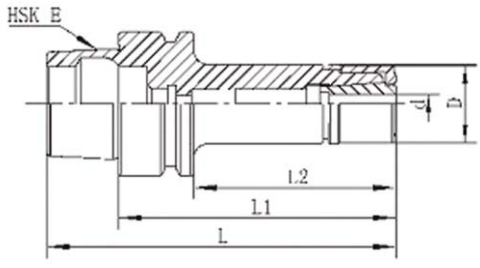
Model		L	L1	L2	θ	D	d	
HSK63A	SDC6-95	127	95	69	6°	14	3 ~ 6	5Nm
	SDC6-120	152	120	94	6°	14	3 ~ 6	5Nm
	SDC6-150	182	150	124	6°	14	3 ~ 6	5Nm
	SDC8-100	132	100	74	6°	22	3 ~ 8	7Nm
	SDC8-120	152	120	94	6°	22	3 ~ 8	7Nm
	SDC8-150	182	150	124	6°	22	3 ~ 8	7Nm
	SDC12-120	152	120	94	——	34	3 ~ 12	12Nm
HSK100A	SDC6-110	160	110	81	6°	14	3 ~ 6	5Nm
	SDC6-150	200	150	121	6°	14	3 ~ 6	5Nm
	SDC8-120	170	120	91	6°	22	3 ~ 8	7Nm
	SDC8-150	200	150	121	6°	22	3 ~ 8	7Nm
	SDC12-120	170	120	91	——	34	3 ~ 12	12Nm



○ Material: Stainless Steel ○ Speed: ≤ 40000RPM

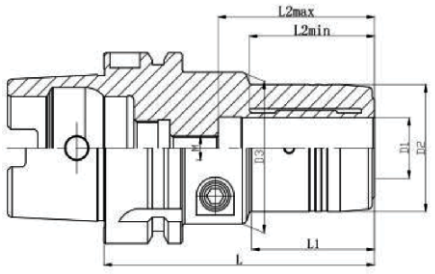
Model		L	L1	L2	D	Clamping Range
HSK32E	SK06	66	50	30	19.5	2-6
	SK10	66	50	30	27.5	3-10
HSK40E	SK06	85	65	35	19.5	2-6
	SK10	85	65	35	27.5	3-10
	SK16	120	100	80	27.5	3-10
HSK50E	SK06	95	70	44	19.5	2-6
	SK10	95	70	44	27.5	3-10
	SK16	95	70	44	40.5	3-16

HSK-E-GSK Tool Holders



○ Into the collet and replacement of cutting tools, must clean up the thread of nut and ontology, and add grease otherwise it will cause damage to the screw thread
○ Full circle - no eccentric nut design, low noise, small wind resistance, suitable for high speedvvv

Model		L	L1	L2	D	d
HSK32E	GSK06-50	66	50	30	19.5.	2~6
	GSK10-50	66	50	30	27.5	3 ~ 10
HSK40E	GSK06-65	85	65	35	19.5	2~6
	GSK10-65	85	65	35	27.5	3 ~ 10
	GSK10-100	120	100	80	27.5	3 ~ 10
HSK50E	GSK06-70	95	70	44	19.5	2~6
	GSK10-70	95	70	44	27.5	3 ~ 10
	GSK16-70	95	70	44	40.5	3~16

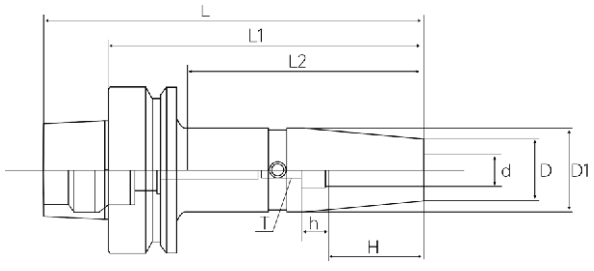


○ Material : 20CrMnTi ○ Speed: ≤ 20000RPM ○ Accuracy: 0.003mm

Model	D1	D2	D3	L	L1	L2min	L2max	M
HSK40E-PHC06-70L	6	28	34	70	33	26	39	M5
HSK40E-PHC08-70L	8	30	34	70	33	28	39	M5
HSK40E-PHC10-75L	10	32	34	75	39	34	45	M5
HSK40E-PHC12-80L	12	34	34	80	-	-	-	M5
HSK50E-PHC06-70L	6	30	42	70	25.5	26	38	M5
HSK50E-PHC08-70L	8	32	42	70	26	28	38	M6
HSK50E-PHC10-80L	10	34	42	80	32	34	45	M8
HSK50E-PHC12-85L	12	36	42	85	40	37	50	M8
HSK50E-PHC16-90L	16	40	42	90	43	41	51	M8
HSK50E-PHC20-90L	20	42	42	90	64	41	52	M8
HSK63A-PHC06-80L	6	32	48	80	32	29	46	M5
HSK63A-PHC06-125L	6	32	48	125	38.5	28	44.5	M5
HSK63A-PHC08-80L	8	34	50	80	32	29	46	M6
HSK63A-PHC08-125L	8	32	48	125	38.5	28	44.5	M6
HSK63A-PHC10-80L	10	36	50	80	32	31	50	M8
HSK63A-PHC10-125L	10	36	50	125	40	37	51	M8
HSK63A-PHC12-80L	12	38	50	80	32	32	50	M8
HSK63A-PHC12-125L	12	38	50	125	41	37	51	M8
HSK63A-PHC14-80L	14	40	50	80	40	38	50	M8
HSK63A-PHC16-90L	16	42	50	90	41	40	51	M8
HSK63A-PHC16-125L	16	42	50	125	43	40	52	M8
HSK63A-PHC18-90L	18	42	50	90	41	40	51	M8
HSK63A-PHC20-90L	20	42	50	90	41	40	52.5	M8

HSK63A-PHC20-125L	20	44	50	125	45	40	52.5	M8
HSK63A-PHC-25-110L	25	53	63	110	55.5	45	61	M8
HSK63A-PHC-32-110L	32	63	63	110	-	55	65	M8
HSK100A-PHC-20-105L	20	46	60	105	45	39	53	M12
HSK100A-PHC-25-110L	25	53	63	110	55	40	53	M12
HSK100A-PHC-32-110L	32	62	75	110	55	44	53	M12

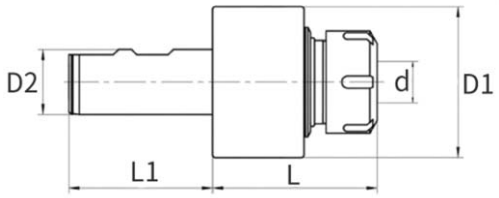
HSK-SF Shrink Tool Holders



Split type also available .

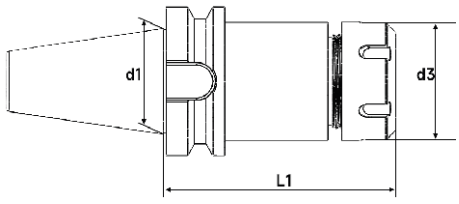
○ Material : H13 ○ Speed: ≥ 25000RPM ○ Accuracy: ≤ 0.003mm

Model	L1	L2	L3	D	D1	H	h	T	d Clamping Range
HSK63A-SF04-130	162	130	98	10	16	12	/	/	4
HSK63A-SF06-130	162	130	101	21	27	26	10	M5	6
HSK63A-SF06-160	192	160	131	21	27	26	10	M5	6
HSK63A-SF08-160	192	160	131	21	27	26	10	M6	8
HSK63A-SF10-160	192	160	131	24	32	32	10	M6	10
HSK63A-SF12-160	192	160	131	24	32	37	10	M6	12
HSK63A-SF16-160	192	160	131	27	34	40	10	M8	16
HSK63A-SF16-200	232	200	171	27	34	40	10	M8	16
HSK100A-SF06-160	210	160	117	21	27	26	10	M5	6
HSK100A-SF08-160	210	160	117	21	27	26	10	M6	8
HSK100A-SF10-160	210	160	121	24	32	32	10	M6	10
HSK100A-SF12-160	210	160	121	24	32	37	10	M6	12
HSK100A-SF16-160	210	160	126	27	34	40	10	M8	16
HSK100A-SF20-160	210	160	126	33	42	42	10	M8	20
HSK100A-SF25-160	210	160	126	44	53	48	10	M16	25
HSK100A-SF32-160	210	160	126	44	53	48	10	M16	32



○ Material : Imported alloy steel ○ Floating range : 0.8mm ○ Accuracy: ≤ 0.002mm

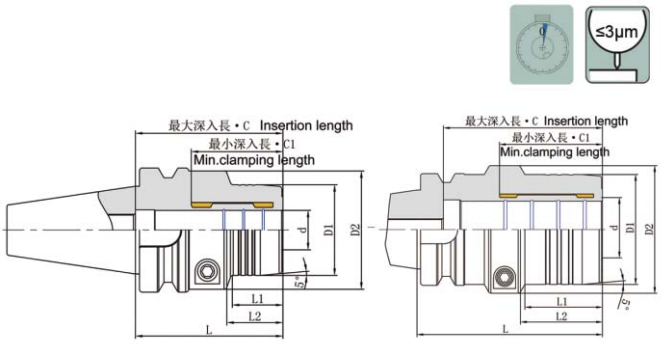
Model	D1	D2	L	L1	Collets	Clamping
C16-FDER11A-50-D30	30	16	50	50	ER11	1-7mm
C20-FDER11A-50-D30	30	20	50	50	ER11	
C16-FDER11M-50-D30	30	16	50	50	ER11	
C20-FDER11M-50-D30	30	20	50	50	ER11	
C16-FDER16A-65-D39	39	16	65	50	ER16	1-10mm
C20-FDER16A-65-D39	39	20	65	50	ER16	
C25-FDER16A-65-D39	39	25	65	55	ER16	
C16-FDER16M-65-D39	39	16	65	50	ER16	
C20-FDER16M-65-D39	39	20	65	55	ER20	
C25-FDER16M-65-D39	39	25	65	50	ER20	
C20-FDER20A-60-D45	45	20	65	50	ER20	1-13mm
C25-FDER20A-60-D45	45	25	65	55	ER20	
C20-FDER20M-60-D45	45	20	65	50	ER20	
C25-FDER20M-60-D45	45	25	65	55	ER20	
C20-FDER20A-75-D56	56	20	75	50	ER20	
C25-FDER20A-75-D56	56	20	75	55	ER20	
C20-FDER20M-75-D56	56	25	75	50	ER20	
C25-FDER20M-75-D56	56	20	75	55	ER20	
C20-FDER25-75-D56	56	20	75	50	ER25	1-16mm
C25-FDER25-75-D56	56	25	75	55	ER25	
C20-FDER32-75-D56	58	20	75	50	ER32	1-20mm
C25-FDER32-75-D56	58	25	75	55	ER32	



○ Standard : MAS403 ○ Material: 20CrMnTi ○ Speed: ⩾ 12000rpm ○ Accuracy: ⩽ 0.003mm

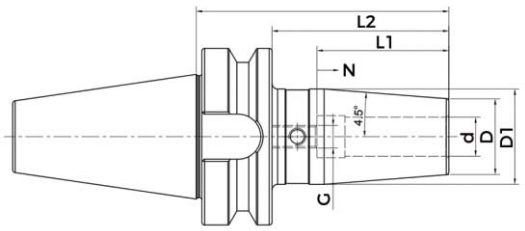
Model	L1	d3	d1
BT30-ER11A-70	70	19	31.75
BT30-ER16A-70	70	28	31.75
BT30-ER20A-70	70	34	31.75
BT30-ER25UM-70	70	42	31.75
BT30-ER32UM-100	100	50	31.75
BT40-ER11A-100	100	19	44.45
BT40-ER16A-100	100	28	44.45
BT40-ER20A-100	100	34	44.45
BT40-ER25UM-100	100	42	44.45
BT40-ER32UM-70	70	50	44.45
BT40-ER32UM-100	100	50	44.45
BT40-ER32UM-150	150	50	44.45
BT40-ER40UM-80	80	63	44.45
BT40-ER40UM-100	100	63	44.45
BT50-ER16A-100	100	28	69.85
BT50-ER16A-150	150	28	69.85
BT50-ER20A-150	150	34	69.85
BT50-ER25UM-150	150	42	69.85
BT50-ER32UM-100	100	50	69.85
BT50-ER32UM-150	150	50	69.85
BT50-ER40UM-100	100	63	69.85
BT50-ER40UM-150	150	63	69.85

Model	Qty.&Sizes	Bar Thread
BT30-ER16-70L	8PCS(3-10mm)	M12-1.75P
BT30-ER32-70L	6PCS(6-20mm)	M12-1.75P
	11PCS(4-20mm)	
	18PCS(3-20mm)	
BT40-ER32-70L	6PCS(6-20mm)	M16-2.0P
	11PCS(4-20mm)	
	18PCS(3-20mm)	
BT40-ER40-80L	7PCS(6-25mm)	M16-2.0P
	15PCS(4-26mm)	
	23PCS(4-26mm)	
BT40-ER16-100L	8PCS(3-10mm)	M16-2.0P
BT40-ER20-100L	11PCS(3-13mm)	
BT40-ER32-100L	6PCS(6-20mm)	M16-2.0P
	11PCS(4-20mm)	
	18PCS(3-20mm)	
BT40-ER40-100L	7PCS(6-25mm)	M16-2.0P
	15PCS(4-26mm)	
	23PCS(4-26mm)	
BT50-ER40-100L	6PCS(6-20mm)	M24-3.0P
	11PCS(4-20mm)	
	18PCS(3-20mm)	
BT50-ER40-100L	7PCS(6-25mm)	M24-3.0P
	15PCS(4-26mm)	
	23PCS(4-26mm)	
BT50-ER32-150	6PCS(6-20mm)	M24-3.0P
	11PCS(4-20mm)	
	PCS(183-20mm)	
BT50-ER40-150L	7PCS(6-25mm)	M24-3.0P
	15PCS(4-26mm)	
	23PCS(4-26mm)	



○ Material : 20CrMnTi ○ Speed: ≤ 20000RPM ○ Accuracy: 0.003mm

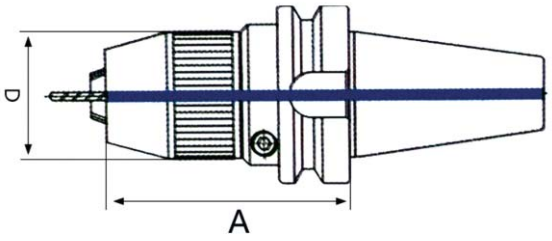
Model	Fig.	φd	φD1	φ D2	L	L1	L2	Insection Length C1	Insection Length C
BT40-PHC06-75	1	6	28	46	75	30	34.5	29	46
BT40-PHC06-90	1	6	28	46	90	29	44	29	46
BT40-PHC08-75	1	8	30	48	75	30	34.5	30	46
BT40-PHC08-90	1	8	30	48	90	29	44	30	46
BT40-PHC10-75	1	10	36	52	75	26	30	38	57
BT40-PHC10-90	1	10	36	52	90	40	44	38	57
BT40-PHC12-75	1	12	38	54	75	26	30	38	57
BT40-PHC12-90	1	12	38	54	90	40	44	38	57
BT40-PHC14-75	1	14	40	56	75	28	32	42	57
BT40-PHC16-75	1	16	42	58	75	26	30	46	75
BT40-PHC16-90	1	16	42	58	90	40	44	46	75
BT40-PHC20-75	1	20	46	60	75	26	30	46	75
BT40-PHC20-90	1	20	46	60	90	40	44	46	75
BT40-PHC25-105	1	25	52	62	105	55	58	46	80
BT40-PHC32-105	2	32	62	7D	105	44	47	58	90
BT50-PHC10-105	1	10	36	52	105	26	29	36	57
BT50-PHC12-105	1	12	38	54	105	26	29	38	57
BT50-PHC16-105	1	16	42	58	105	26	29	46	75
BT50-PHC20-105	1	20	46	60	105	26	29	46	75
BT50-PHC25-120	1	25	52	62	120	56	58	50	80
BT50-PHC32-120	1	32	62	72	120	43	47	60	90



- Hardness: ⩾ HRC52
- Clamping Accuracy: <0.005mm
- Speed: ⩽ 25000RPM

Split type also available .

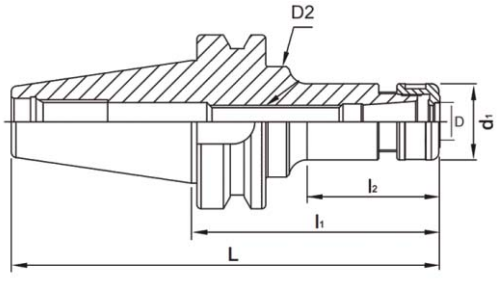
Size	d	D	D1	L	L2	L7	N	G
BT30-SF03-80	3	15	20	80	58			
BT30-SF04-80	4	15	20	80	58			
BT30-SF05-80	5	15	20	80	58			
BT30-SF06-80	6	21	27	80	58	36	10	M5
BT30-SF08-80	8	21	27	80	58	36	10	M6
BT30-SF10-80	10	24	32	80	58	42	10	M8x1
BT30-SF12-80	12	24	32	80	58	47	10	M10x1
BT30-SF14-80	14	27	34	80	58	47	10	M10x1
BT30-SF16-80	16	27	34	80	58	50	10	M12x1
B130-SF18-80	18	33	42	80	58	50	10	M12x
BT30-SF20-80	20	33	42	80	58	52	10	M16x1
BT40-SF03-80	3	15	20	80	53			
BT40-SF04-80	4	15	20	80	53			
BT40-SF05-80	5	15	20	80	53			
BT40-SF06-80	6	21	27	90	63	36		M5
BT40-SF08-80	8	21	27	90	63	36		M6
BT40-SF10-80	10	24	32	90	63	42	10	M8x1
BT40-SF12-80	12	24	32	90	63	47	10	M10x1
BT40-SF14-80	14	27	34	90	63	47	10	M10x1
BT40-SF16-80	16	27	34	90	63	50	10	M12x1
BT40-SF18-80	18	33	42	90	63	50	10	M12x1
BT40-SF20-80	20	33	42	90	63	52	10	M16x1
BT40-SF25-80	25	44	53	100	73	58	10	M16x1
BT40-SF32-80	32	44	53	100	73	62	10	M16x1



○ This product contains internal cooling.

Model	Capacity mm	A(mm)	D(mm)
BT30	1-13	82	45
BT40	1-13	89	45
BT40	1-16	95	50
BT50	1-16	116	50

BT-GSK High Speed Collet Chucks



Material : 20CrMnTi Accuracy : ≤ 0.003mm Speed : ≤ 30000RPM

Model	Clamping	L	L1	D1	Collets
BT30-SK10-60	3-10	60	33	29	SK10
BT30-SK10-90		90	63		
BT30-SK16-60	3-16	60	33	40.5	SK16
BT30-SK16-90		90	63		
BT40-SK10-60	3-10	60	33	29	SK10
BT40-SK10-90		90	63		
BT40-SK16-60	3-16	60	33	40.5	SK16
BT40-SK16-90		90	63		

JIS B6339-1998/DIN6357

Fig.1

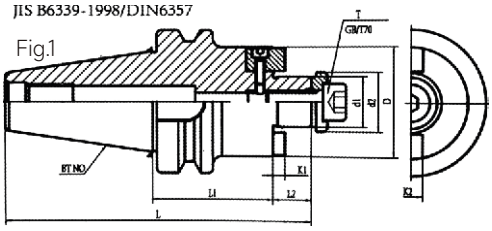
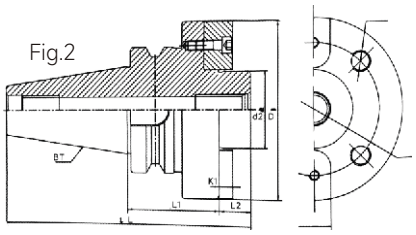
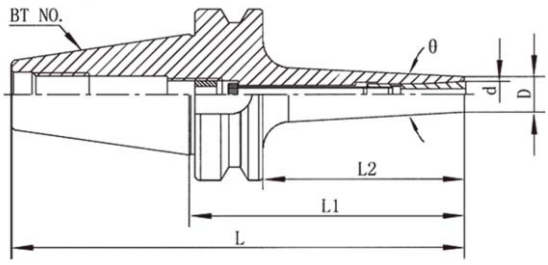


Fig.2



Material: 20CrMnTi Speed : ≤ 12000RPM

Model		Type	d1	d2	D3	D3	D	L1	L2	K1
BT30	FMB22-45	Fig.1	22	26	-	45	45	16.5	4.8	10
	FMB22-60						60			
	FMB27-45	Fig.1	27	33	-	54	45	18.5	5.8	12
	FMB27-60						60			
	FMB32-60	Fig.1	32	41	-	58	60	22	6.8	14
BT40	FMB22-45	Fig.1	22	26		48	45	16.5	4.8	10
	FMB22-60						60			
	FMB22-100						100			
	FMB22-150						150			
	FMB27-45	Fig.1	27	33	-	60	45	18.5	5.8	12
	FMB27-60						60			
	FMB27-100						100			
	FMB27-150						150			
	FMB27-200						200			
	FMB32-60	Fig.1	32	41	-	62	60	22	6.8	14
	FMB32-100						100			
	FMB32-150						150			
	FMB32-200						200			
	FMB40-60	Fig.1	40	48		80	60	25	8	16
	FMB40-100						100			
	FMB40-150						150			
	FMB40-200						200			
	FMC40-60	Fig.2	-	-	66.7	98	60			
BT50	FMB22-60	Fig.1	22	26	-	48	60	16.5	4.8	10
	FMB22-100						100			
	FMB22-150						150			
	FMB22-200						200			
	FMB27-60	Fig.1	27	33	-	60	60	18.5	5.8	12
	FMB27-100						100			
	FMB27-150						150			
	FMB27-200						200			
	FMB32-60	Fig.1	32	41	-	73	60	22	6.8	14
	FMB32-100						100			
	FMB32-150						150			
	FMB32-200						200			
	FMB40-60	Fig.1	40	48	-	80	60	25	8	16
	FMB40-100						100			
	FMB40-150						150			
	FMB40-200						200			
	FMC40-60	Fig.2		--	66.7	98	60			
	FMC60.140-75	Fig.2	60		101.6	140	75	25	12.5	25.4
	FMC60.140-100						100			
	FMC60.129-75	Fig.2	60		101.6	129	75	25	12.5	25.4
	FMC60.129-100						100			

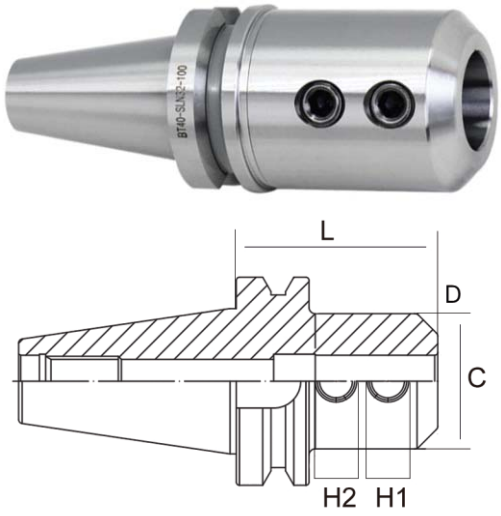


Material : 20CrMnTi Accuracy : ≤ 0.003mm Speed : ≤ 25000RPM

○ Collet nut design - no pull,strong stability and high rigidity
○ The recommended torque wrench,do not exceed the recommended value of 30%, high torque,the defor mation may lead

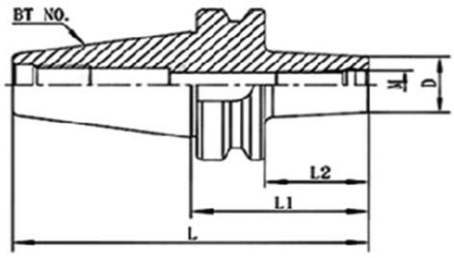
Model		L	L1	L2	θ	D	d
BT30	SDC06-60	108.4	60	38	6°	14	3-6
	SDC06-90	138.4	90	68	6°	14	3-6
	SDC08-60	108.4	60	38	6°	22	3-8
	SDC08-90	138.4	90	68	6°	22	3-8
	SDC12-80	128.4	80	58	—	34	3-12
BT40	SDC06-90	165.4	100	73	6°	14	3-6
	SDC06-150	215.4	150	123	6°	14	3-6
	SDC08-90	165.4	100	73	6°	22	3-8
	SDC08-150	215.4	150	123	6°	22	3-8
	SDC12-90	165.4	100	73	—	34	3-12
	SDC12-150	215.4	150	123	—	34	3-12
BT50	SDC06-100	201.8	100	62	6°	14	3-6
	SDC06-150	251.8	150	112	6°	14	3-6
	SDC08-100	201.8	100	62	6°	22	3-8
	SDC08-150	251.8	150	112	6°	22	3-8
	SDC12-100	201.8	100	62	—	34	3-12
	SDC12-150	251.8	150	112	—	34	3-12

BT-SLN Side Lock End Mill Arbors



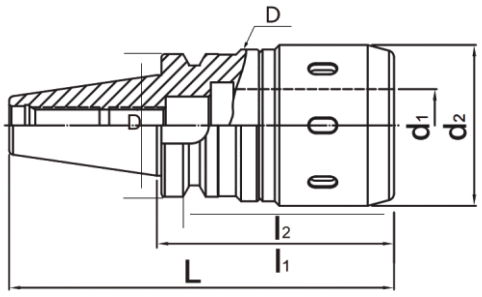
Material: 20CrMnTi Speed : ≤ 12000RPM

Model	L	C	H1	H2
BT30-SLN20-70	70	52	25	—
BT40-SLN20-70	70	52	25	—
BT40-SLN25-90	90	65	24	25
BT40-SLN32-100	100	72	24	28
BT50-SLN25-100	100	65	24	25
BT50-SLN32-105	105	72	24	28
BT50-SLN40-110	110	90	30	32



G2.5 25000-30000RPM 20CrMnTi ≤ 0.005mm

Model		L	L1	L2	D	M
BT30	M6-45	93.4	60	38	13	M6*1.0P
	M8-45	93.4	60	38	15	M8*1.25P
	M10-45	93.4	60	38	19	M10*1.5P
	M12-60	108.4	75	53	24	M12*1.75P
	M16-45	93.4	60	38	29	M16*2.0P
BT40	M6-60	125.4	60	33	13	M6*1.0P
	M6-100	165.4	100	73	13	M6*1.0P
	M6-150	215.4	150	123	13	M6*1.0P
	M8-60	125.4	60	33	15	M8*1.25P
	M8-100	165.4	100	73	15	M8*1.25P
	M8-150	215.4	150	123	15	M8*1.25P
	M10-60	125.4	60	33	19	M10*1.5P
	M10-100	165.4	100	73	19	M10*1.5P
	M10-150	215.4	150	123	19	M10*1.5P
	M12-60	125.4	60	33	24	M12*1.75P
	M12-100	165.4	100	73	24	M12*1.75P
	M12-150	215.4	150	123	24	M12*1.75P
	M16-60	125.4	60	33	29	M16*2.0P
	M16-100	165.4	100	73	29	M16*2.0P
	M16-150	215.4	150	123	29	M16*2.0P



HRC58-60 Material : 20CrMnTi Accuracy: ≤ 0.08mm

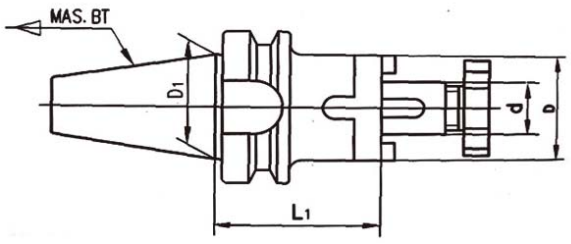
Model	L	L1	L2	D	d1	d2
BT30-C20-90	138.4	90	70	46	20	55
BT30-C25-100	128.4	100			25	58
BT30-C32-105	148.4	105	75		32	68
BT40-C20-90	155.4	90	70	63	20	55
BT40-C25-100	160.4	100			25	58
BT40-C25-130	195.4	130				
BT40-C32-105	170.4	105	75		32	68
BT40-C25-135	200.4	135				
BT50-C20-110	165.4	110	70	100	20	55
BT50-C20-165	215.4	165				
BT50-C25-110	170.4	110			25	58
BT50-C25-165	200.4	165				
BT50-C32-110	206.4	110	75		32	68
BT50-C32-135	236.8	135				
BT50-C32-165	266.8	165				
BT50-C32-200	265.4	100				
BT50-C32-250	315.4	100				
BT50-C32-300	365.4	100				
BT50-C42-110	211.8	110	90		42	84
BT50-C42-135	236.8	135				
BT50-C42-165	266.8	165				




Model	Tool Holders	Collets	Back Bar Thread	Wt.
MT4-C32-8PCS	MT4-C32-75L	C32	M16x2.0P	2.5
MT5-C32-8PCS	MT5-C32-75L	C32	M24x3.0P	3.5
MT5-C42-8PCS	MT5-C42-110L	C42		5.0
R8-C20-8PCS	R8-C20-85L	C20	M12x1.75P	2.5
NT30-C20-8PCS	NT30-C20-65L	C20	M12x1.75P	3.0
NT40-C20-8PCS	NT40-C20--70L	C20	M16x2.0P	3.5
NT40-C32-8PCS	NT40-C32-95L	C32		4.0
NT50-C32-8PCS	NT50-C32-100L	C32	M24x3.0P	4.5
NT50-C42-8PCS	NT50-C42-110L	C42		6.0
BT30-C20-8PCS	BT30-C20-85L	C20	M12x1.75P	2.5
BT30-C25-8PCS	BT30-C25-85L	C25		3.0
BT40-C20-8PCS	BT40-C20-90L/120L	C20	M16x2.0p	2.0/2.5
BT40-C25-8PCS	BT40-C25-95L/130L	C25		2.5/3.0
BT40-C32-8PCS	BT40-C32-105L/135L	C32		3.0/3.5
BT50-C32-8PCS	BT50-C32-110L/150L	C32	M24x3.0p	5.2/7.0
	BT50-C32-110L/135L	C32		6.5/7.5

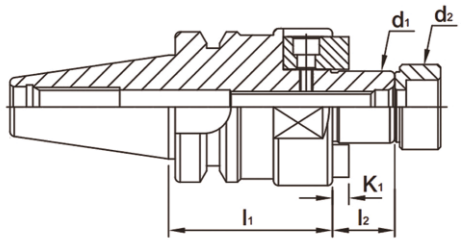
BT-CEM Combine Shell End Mill Arbors



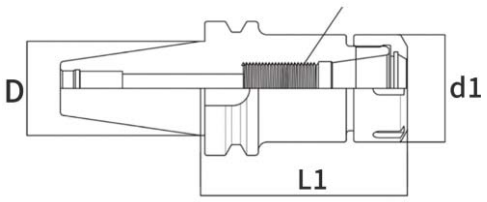


Material: 20CrMnTi Speed : ≥ 12000RPM

Model	L1	D	D1	d
BT30-CEM16-50	50	32	31.75	16
BT30-CEM22-50	50	40		22
BT30-CEM27-55	55	48		27
BT40-CEM16-55	55	32	44.45	16
BT40-CEM22-55	55	40		22
BT40-CEM27-55	55	48		27
BT40-CEM32-60	60	58		32
BT40-CEM40-60	60	70		40
BT50-CEM16-70	70	32	69.85	16
BT50-CEM22-70	70	40		22
BT50-CEM27-70	70	48		27
BT50-CEM32-70	70	58		32
BT50-CEM40-70	70	70		40

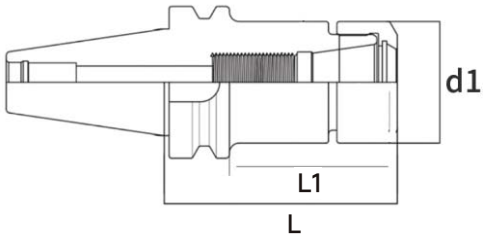


Model	l1	l2	D	d1	d2	k1	k2
BBT30-FMB22-45	45	19	48	22	26	4.8	10
BBT30-FMB22-60	60						
BBT30-FMB27-45	45	20	60	27	31.5	5.8	12
BBT30-FMB27-45	60						
BBT30-FMB32-45	45	22	78	32	41	6.8	14
BBT40-FMB22-45	45	19	48	22	26	4.8	10
BBT40-FMB22-60	60						
BBT40-FMB22-100	100						
BBT40-FMB22-150	150						
BBT40-FMB22-200	200						
BBT40-FMB27-45	45	20	60	27	31.5	5.8	12
BBT40-FMB27-60	60						
BBT40-FMB27-90	90						
BBT40-FMB27-105	105						
BBT40-FMB32-45	45	22	78	32	41	6.8	14
BBT40-FMB32-60	60						
BBT40-FMB40-60	60						
BBT50-FMB22-60	60	19	48	22	26	4.8	10
BBT50-FMB22-100	100						
BBT50-FMB22-150	150						
BBT50-FMB22-200	200						
BBT50-FMB22-250	250						
BBT50-FMB22-300	300						
BBT50-FMB22-350	350						
BBT50-FMB22-400	400						
BBT50-FMB27-60	60	20	60	27	31.5	5.8	12
BBT50-FMB27-100	100						
BBT50-FMB27-150	150						
BBT50-FMB27-200	200						
BBT50-FMB27-250	250						
BBT50-FMB32-60	60	22	78	32	41	6.8	14
BBT50-FMB32-100	100						
BBT50-FMB40-60	60	25	89	40	48	8.3	16
BBT50-FMB40-100	100						
BBT50-FMB40-105	105						



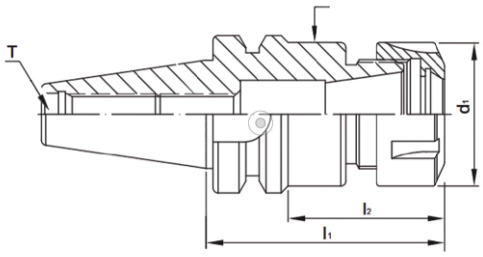
○ Material : 4Cr13 ○ Speed: ≤ 25000RPM ○ Accuracy: 0.002mm

Mode	L1	d1	D	H	Clamping Range
BBT40-ER11-70	70	19	44.45	30	1-7
BBT40-ER11-100	100	19		30	1-7
BBT40-ER16-70	70	28		50	1-10
BBT40-ER16-100	100	28		50	1-10
BBT40-ER16-125	125	28		50	1-10
BBT40-ER16-150	150	28		50	1-10
BBT40-ER20-70	70	34		70	1-13
BBT40-ER20-100	100	34		70	1-13
BBT40-ER20-125	125	34		70	1-13
BBT40-ER20-150	150	34		70	1-13
BBT40-ER25-70	70	42		90	1-16
BBT40-ER25-100	100	42		90	1-16
BBT40-ER25-125	125	42		90	1-16
BBT40-ER25-150	150	42		90	1-16
BBT40-ER32-70	70	50		90	1-20
BBT40-ER32-100	100	50		100	1-20
BBT40-ER32-125	125	50		100	1-20
BBT40-ER32-150	150	50		100	1-20
BBT40-ER40-80	80	63		90	3-26
BBT40-ER40-100	100	63		100	3-26
BBT40-ER40-125	125	63		100	3-26
BBT40-ER40-150	150	63		100	3-26



○ Material : 4Cr13 ○ Speed: ≤ 30000RPM ○ Accuracy: 0.002mm

Model		Clamping Range	d1	L	L1
BT/BBT30	GSK06-60	2-6	19.5	60	38
	GSK06-90			90	68
	GSK06-120			120	98
	GSK10-60	2-10	27.5	60	38
	GSK10-90			90	68
	GSK10-120			120	98
	GSK16-60	3-16	40	60	38
	GSK16-90			90	68
	GSK16-120			120	98
BT/BBT40	GSK06-60	2-6	19.5	60	43
	GSK06-90			90	63
	GSK06-120			120	93
	GSK10-60	2-10	27.5	60	43
	GSK10-90			90	63
	GSK10-120			120	93
	GSK16-60	3-16	40	60	43
	GSK16-90			90	63
	GSK16-120			120	93

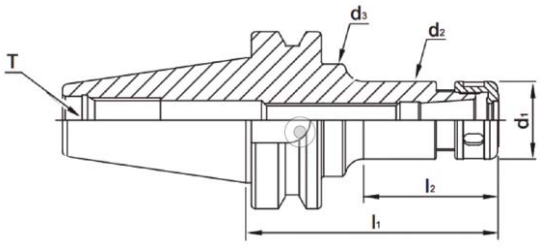


Material: 20CrMnTi Speed : ≤ 0.003mm Accuracy : G2.5 25000RPM

Model	11	2	d1	d2	d3	T
BBT30-ER16-50	50	27	28	16	28	M12*1.75P
BBT30-ER16-60	60	35				
BBT30-ER16-70	70	40				
BBT30-ER16-100	100	70				
BBT30-ER16-120	120	93				
BBT30-ER20-50	50	28	34	20	34	
BBT30-ER20-70	70	45				
BBT30-ER20-100	100	75				
BBT30-ER20-135	135	110				
BBT30-ER25-70	70	46	42	25	42	
BBT30-ER25-135	135	111				
BBT30-ER32-70	70	48	50	32	50	
BBT30-ER32-100	100	78				
BBT30-ER40-80	80	58	63	40	63	
BBT40-ER16-70	70	40	28	16	28	M16*2.0P
BBT40-ER16-100	100	63				
BBT40-ER16-125	125	88				
BBT40-ER16-150	150	103				
BBT40-ER16-180	180	143				
BBT40-ER20-70	70	40	34	20	34	
BBT40-ER20-100	100	63				
BBT40-ER20-135	135	98				
BBT40-ER20-150	150	113				
BBT40-ER25-70	70	40	42	25	42	
BBT40-ER25-100	100	70				
BBT40-ER25-125	125	95				
BBT40-ER25-150	150	115				
BBT40-ER32-70	70	40	50	32	50	
BBT40-ER32-100	100	70				
BBT40-ER32-150	150	118				

BBT40-ER40-80	80	53	63	40	63	M16*2.0P
BBT40-ER40-100	100	73				
BBT40-ER40-120	120	93				
BBT40-ER40-150	150	123				

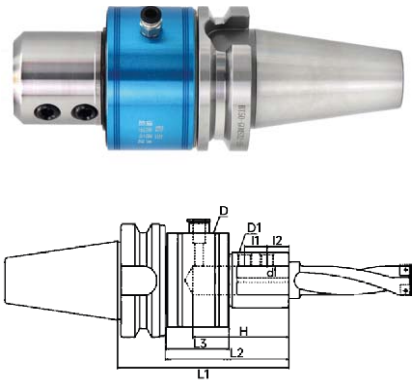
BBT-SK Tool Holders



HRC58-60 Material: 20CrMnTi Accuracy : ≤ 0.005mm Speed : G2.5 25000RPM

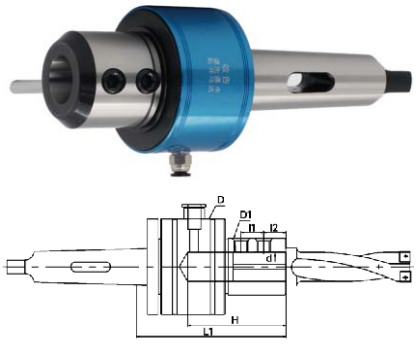
In high-speed machining, increase the stability of the tool holder. Reduce the poor accuracy of the tool holder during high-speed cutting.
The increase in contact diameter helps to increase the extension.
Improved tool stability can increase tool life and ensure repeated positioning accuracy after tool changea

Model	11	12	Clamping Range	d1	d2	d3	T
BBT30-SK10-45	45	14.5	φ3-φ10	30	27.6		M12*1.75P
BBT30-SK10-60	60	25					
BBT30-SK10-90	90	55					
BBT30-SK16-60	60	27.7	φ3-φ16	40	40		
BBT30-SK16-90	90	57.7					
BBT30-SK20-60	60	37	φ3-φ20	48.5	48.5		
BBT30-SK20-90	90	67					
BBT40-SK10-60	60	22	φ3-φ10	30	27.6	40	M16*2.0P
BBT40-SK10-90	90	37.721					
BBT40-SK10-120	120	68.499					
BBT40-SK16-60	60	23.2	φ3-φ16	40	40		
BBT40-SK16-90	90	48.7					
BBT40-SK16-120	120	78.876					
BBT40-SK20-60	60	32	φ3-φ20	48.5	48.5		
BBT40-SK20-90	90	60					
BBT40-SK20-120	120	90					



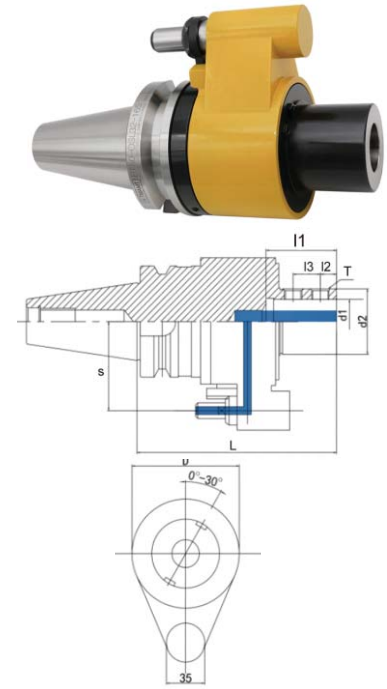
Model	L1	L2	L3	H	11	12	D	D1	d	Weight
BT40-OML20-140	140	96.7	57	78		20	φ83	φ49.5	20	3.74
BT40-OML25-155	155	111.7		93	20				25	3.81
BT40-OML32-155		112	59				φ89	φ54.5	32	4.10
BT50-OML20-140	140	97	57	78		20	φ83	φ49.5	20	7.17
BT50-OML25-155	155	112		93	20				25	7.39
BT50-OML32-155		112.7	59				φ98	φ59.5	32	8.10
BT50-OML40-160	160	117.7		95					40	7.90

MT Side Lock Oil Hole Holders

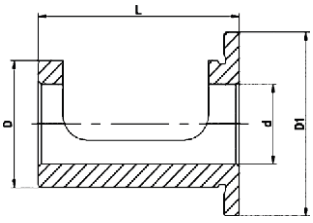


Model	L1	l1	12	H	D	D1	d	Weight
MT4-OML20-115	115		20	78	φ83	φ49.5	20	3.56
MT4-OML25-130	130	20		93			25	3.62
MT4-OML32-135	135				φ89	φ54.5	32	4.38
MT5-OML20-115	115			78	φ83	φ49.5	20	4.40
MT5-OML25-130	130	20		93			25	4.50
MT5-OML32-135	135				φ89	φ54.5	32	5.01
MT5-OML40-140	140			95	φ98	φ59.5	40	5.11
MT6-OML20-120	120			78	φ83	φ49.5	20	7.13
MT6-OML25-130	130	20		93			25	7.22
MT6-OML32-135	135				φ89	φ54.5	32	7.85
MT6-OML40-140	140			95	φ98		40	7.98

BT/OSL Oil Hole Tool Holders

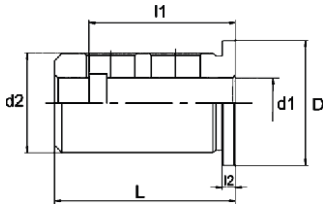


Model	L	l1	12	l3	D	d1	d2	S	T	Weight
BT40-OSL16-150	150	48	25	–	82	16	49.5	65	M12-1.75P	3.10
BT40-OSL20-150		50				20				3.50
BT40-OSL25-165	165	56	15	20		25				3.50
BT40-OSL32-165		60				32				7.80
BT50-OSL16-165		48	25	–	98	16	59	80	M14-2.0P	7.00
BT50-OSL20-165		50				20			M12-1.75P	7.50
BT50-OSL25-165		56	15	20		25			M16-2.0P	7.50
BT50-OSL32-165		60				32				9.05
BT50-OSL40-165		62		25		40			M14-2.0P	8.50



Model	L	d	D1	D	Weight
EC20-25	48	20	41	25	0.19
EC25-32	60	25	49	32	0.21
EC32-40	65	32	58	40	0.23
EC40-50	76	40	68	50	0.24

OSL Sleeves



Model	L	l1	l2	D	d1	d2	Weight
OSL-20-16	54	48	5.5	30	16	20	0.07
OSL-25-16	60			35		25	0.19
OSL-25-20		56			20		0.15
OSL-32-16	64	48		42	16	32	0.35
OSL-32-20		56			20		0.32
OSL-32-25					25		0.22
OSL-40-16	74	48		50	16	40	0.57
OSL-40-20		60			20		0.54
OSL-40-25					25		0.45
OSL-40-32					32		0.30

Tool Holder Sleeves

Function:Suitable to hold cylinderical shank tools on turret at CNC lathe.

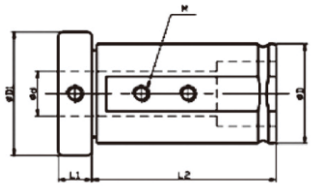


FIG1

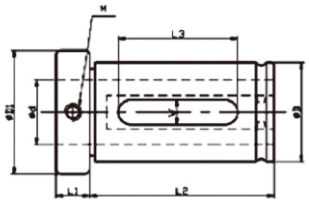
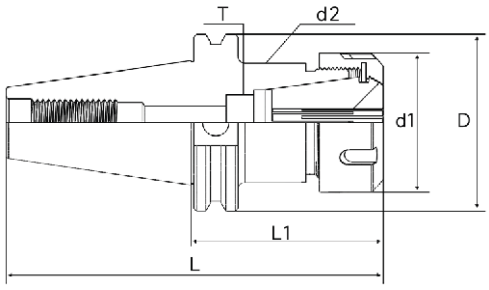


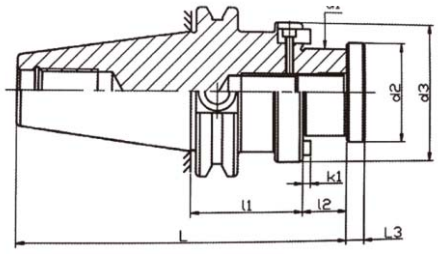
FIG2

Model	Specification
D40	φ6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32
	MT1/2/3/4
D32	φ4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25
	MT1/2/3/4
D25	φ4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20
	MT1/2/3
D20	φ4/5/6/7/8/9/10/11/12/13/14/15/16
D16	φ4/5/6/7/8/9/10/11/12



ANSI B5.50 Material: 20CrMnTi Accuracy : ≤ 0.005mm Speed : ≥ 12000rpm

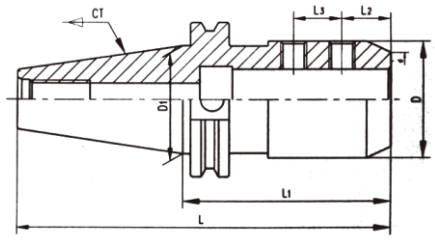
Model	L	L1	D	d1	d2	Thread	KGS
CAT40-ER16-2.76"	5.447"	2.76"		1.102"			1.05
CAT40-ER16-4"	6.687"	4"		1.102"			1.35
CAT40-ER16-6"	8.687"	6"		1.102"			1.65
CAT40-ER20-2.76"	5.447"	2.76"		1.339			1.25
CAT40-ER20-4"	6.687"	4"		1.339"			1.65
CAT40-ER25-2.76"	5.447'	2.76"		1.654"			1.35
CAT40-ER25-4"	6.687"	4"		1.654°			1.70
CAT40-ER25-6"	8.687"	6"	2.5"	1.65"	1.75"	5/8"-11	2.25
CAT40-ER32-2.76"	5.447"	2.76"		1.969			1.25
CAT40-ER32-4"	6.687"	4"		1.969			1.75
CAT40-ER32-5"	8.687"	6"		1.969			2.15
CAT40-ER40-3.15"	5.837°	3.15"		2.480"			1.80
CAT40-ER40-4"	6.687"	4"		2.480"			2.05
CAT40-ER40-6"	8.687"	6"		2.480"			3.30
CAT40-ER50-4"	6.687"	4"		3.070			2.65
CAT50-ER16-4"	8"	4"		1.102"			4.10
CAT50-ER16-6"	10"	6"		1.102"			4.28
CAT50-ER20-4"	8"	4"		1.339			4.20
CAT50-ER20-6"	10"	6"		1.339			4.45
CAT50-ER25-4"	8"	4"		1.654			4.15
CAT50-ER25-6"	10"	6"	3.875"	1.654"	2.75"	1"-8	4.50
CAT50-ER32-4"	8"	4"		1.969			4.70
CAT50-ER32-6"	10"	6"		1.969			4.60
CAT50-ER40-4"	8"	4"		2.480"			4.25
CAT50-ER40-6"	10"	6"		2.480"			4.80
CAT50-ER50-4"	8"	4"		3.070"			4.85



ANSI B5.50 Material: 20CrMnTi Accuracy : ≤ 0.005mm Speed : ≥ 12000rpm

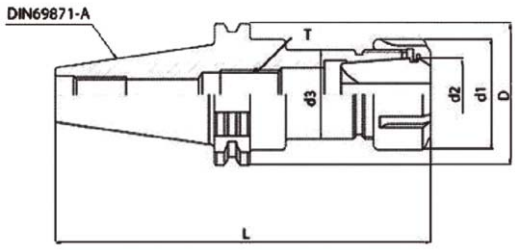
Model	L	L2	d1	d3
CAT40-FMB1"-1.75"	1.75"	17.5	1"	60
CAT40-FMB1.25"-2"	2"	17.5	1.25"	70
CAT40-FMB1.5"-2"	2"	23.8	1.5"	85
CAT50-FMB1.25"-4"	4"	17.5	1.25"	70
CAT50-FMB1.25"-6"	6"	17.5	1.25"	70
CAT50-FMB1.5"-4"	4"	23.8	1.5"	85
CAT50-FMB1.5"-6"	6"	23.8	1.5"	85
CAT50-FMB2"-2"	2"	24	2"	95
CAT50-FMB2"-4"	4"	24	2"	95
CAT50-FMB2"-6"	6"	24	2"	95

CAT Side Lock End Mill Arbors



ANSI B5.50

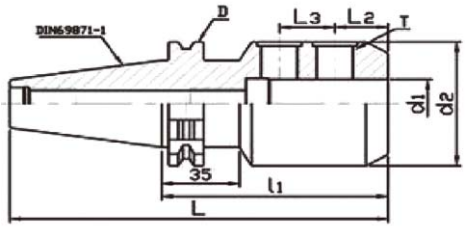
Model	L1	D	d	12	l3
CAT40-SL0.4"-2"	2"	1.4"	0.4"	0.8"	
CAT40-SL0.475"-2"	2"	1.675"	0.475"	9"	
CAT40-SL0.65"-2.5"	2.5"	1.925"	0.65"	1"	
CAT40-SL0.8"-2.5"	2.5"	2.075"	0.8"	1"	
CAT40-SL1"-4"	4"	2.625"	1"	1"	1"
CAT40-SL1.25"-4"	4"	2.85"	1.25"	1"	1.125"
CAT50-SL0.475"-2.5"	2.5"	1.675"	0.475"	9"	
CAT50-SL0.65"-2.5"	2.5"	1.925"	0.65"	1"	
CAT50-SL0.8"-2.5"	2.5"	2.075"	0.8"	1"	
CAT50-SL1"-3.2"	3.2"	2.625"	1"	1"	1"
CAT50-SL1.25"-4"	4"	2.85"	1.25"	1"	1.125"
CAT50-SL1.6"-4.8"	4.8"	3.6"	1.6"	1.2"	1.275"
CAT50-SL2"-5.2"	5.2"	4"	2"	1.4"	1.4"



Model	L	L1	D	d1	d2	KGS
SK30-ER11-100	148.4	80	50	19	11	0.6
SK30-ER16-100	148.4	100		28	16	0.7
SK30-ER20-100	148.4	100		34	20	0.75
SK40-ER11-80	148.4	80	63.55	19	11	1.05
SK40-ER16-70	138.4	70		28	16	1.3
SK40-ER16-100	168.4	100		28	16	1.4
SK40-ER20-100	168.4	100		34	20	1.5
SK40-ER25-100	168.4	100		42	25	1.85
SK40-ER25-150	218.4	150		42	25	2.25
SK40-ER32-70	138.4	70		50	32	1.6
SK40-ER32-100	168.4	100		50	32	2
SK40-ER40-70	138.4	70		63	40	1.5
SK40-ER40-100	168.4	100		50	32	2
SK50-ER16-100	201.4	100		28	16	3.2

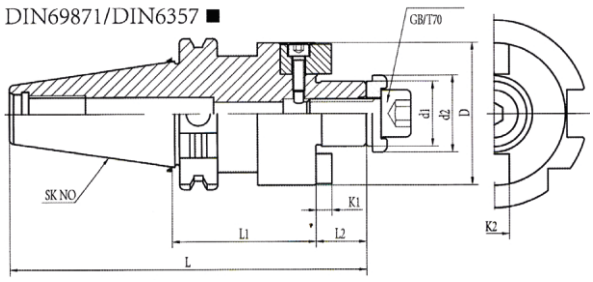
Model	L	L1	D	d1	d2	KGS
SK50-ER16-160	261.75	160	97.5	28	16	4.5
SK50-ER20-100	201.75	100		34	20	3.4
SK50-ER20-160	261.75	160		34	20	3.8
SK50-ER25-70	171.75	70		42	25	3.4
SK50-ER25-100	201.75	100		42	25	4.15
SK50-ER25-150	251.75	150		42	25	4.5
SK50-ER32-120	221.75	120		50	32	4.6
SK50-ER32-160	261.75	160		50	32	4.75
SK50-ER40-80	181.75	80		63	40	3.65
SK50-ER40-120	221.75	120		63	40	4.8
SK50-ER40-160	261.75	160		63	40	5.2
SK50-ER50-120	221.75	120		78	50	5.45
SK50-ER50-160	261.75	160		78	50	5.55

SK Side Lock End Mill Arbors

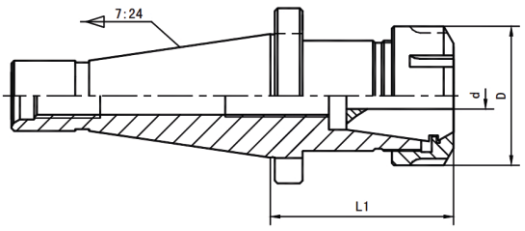


Model	L	l2	l2	L2	d2	KGS
SK30-SLN12-50	97.8	50	42	22.5	42	0.9
SK30-SLN16-63	97.8	63	48	24	48	1.10
SK40-SLN16-63	131.4	63	48	24	48	1.4
SK40-SLN20-63	131.4	63	52	25	52	1.3
SK40-SLN25-100	168.4	100	65	24	65	2.4
SK40-SLN32-100	168.4	100	72	24	72	2.7
SK50-SLN20-100	164.75	63	52	25	52	3.5
SK50-SLN25-100	181.75	80	65	24	65	4.2
SK50-SLN32-100	201.75	100	72	24	72	5.0
SK50-SLN40-100	201.75	100	90	30	90	5.6

DIN69871/DIN6357 ■



Model		d1	d2	D	L	L1	L2	K1	K2	T
SK30	FMB22-45	22	26	45	109.3	45	16.5	4.8	10	M10×30
	FMB22-60				124.3	60				
	FMB27-45	27	33	54	111.3	45	18.5	5.8	12	M12×30
	FMB27-60				126.3	60				
	FMB32-60	32	41	58	130.3	60	22	6.8	14	M16×35
SK40	FMB22-45	22	26	48	129.9	45	16.5	4.8	10	M10×30
	FMB22-60				144.9	60				
	FMB22-100				184.9	100				
	FMB22-150				234.9	150				
	FMB27-45	27	33	60	131.9	45	18.5	5.8	12	M12×30
	FMB27-60				146.9	60				
	FMB27-100				186.9	100				
	FMB27-150				236.9	150				
	FMB27-200				286.9	200				
	FMB32-60	32	41	62	150.4	60	22	6.8	14	M16×35
	FMB32-100				190.4	100				
	FMB32-150				240.4	150				
	FMB32-200				290.4	200				
	FMB40-60	40	48	80	153.4	60	25	8	16	M16×35
	FMB40-100				193.4	100				
	FMB40-150				243.4	150				
	FMB40-200				293.4	200				
SK50	FMB22-60	22	26	48	178.25	60	16.5	4.8	10	M10×30
	FMB22-100				218.25	100				
	FMB22-150				268.25	150				
	FMB22-200				318.25	200				
	FMB27-60	27	33	60	180.25	60	18.5	5.8	12	M12×30
	FMB27-100				220.25	100				
	FMB27-150				270.25	150				
	FMB27-200				320.25	200				
	FMB32-60	32	41	73	183.75	60	22	6.8	14	M16×35
	FMB32-100				223.75	100				
	FMB32-150				273.75	150				
	FMB32-200				333.75	200				
	FMB40-60	40	48	80	186.75	60	25	8	16	M16×35
	FMB40-100				226.75	100				
	FMB40-150				276.75	150				
	FMB40-200				326.75	200				



DIN2080

Model	7:24 NO.	d	D	L1
NT30-ER11	30	1 ~ 7	19	50
NT30-ER16	30	1 ~ 10	28	63
NT30-ER20	30	1 ~ 13	34	63
NT30-ER25	30	1 ~ 16	42	63
NT30-ER32	30	2 ~ 20	50	63
NT30-ER40	30	3 ~ 26	63	75
NT40-ER16	40	1 ~ 10	28	63
NT40-ER20	40	1 ~ 13	34	60
NT40-ER25	40	1 ~ 16	42	60

Model	7:24 NO.	d	D	L1
NT40-ER32	40	2 ~ 20	50	70
NT40-ER40	40	3 ~ 26	63	60
NT40-ER50	40	6 ~ 34	78	100
NT50-ER16	50	1 ~ 10	28	63
NT50-ER20	50	1 ~ 13	34	60
NT50-ER25	50	1 ~ 16	42	60
NT50-ER32	50	2 ~ 20	50	70
NT50-ER40	50	3 ~ 26	63	70
NT50-ER50	50	6 ~ 34	78	90

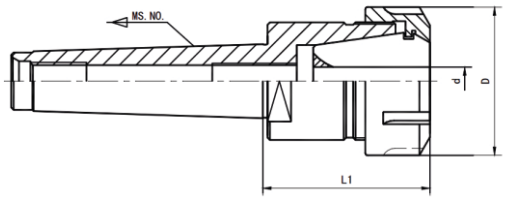
NT-ER Collets Chuck Sets

Model	Qty.& Clamping	Thread	Wt.
NT30-ER25	7PCS(2-16mm)	M12x1.75P	2.4
	15PCS(4-16mm)		2.8
NT30-ER32	6PCS(6-20mm)	M12x1.75P	2.8
	11PCS(4-20mm)		3.2
	18PCS(3-20mm)		4.2
NT30-ER40	7PCS(6-25mm)	M12x1.75P	4.6
	15PCS(4-26mm)		6.0
	23PCS(4-26mm)		7.3
NT40-ER25	7PCS(3-16mm)	M16x2.0P	3.0
	15PCS(3-16mm)		3.3

Model	Qty.& Clamping	Thread	Wt.
NT40-ER32	6PCS(6-20mm)	M16x2.0P	3.4
	11PCS(4-20mm)		3.8
	18PCS(3-20mm)		4.8
NT40-ER40	7PCS(6-25mm)	M16x2.0P	5.2
	15PCS(4-26mm)		6.9
	23PCS(4-26mm)		8.2
NT50-ER32	6PCS(6-20mm)	M24x3.0P	5.3
	11PCS(4-20mm)		5.5
	18PCS(3-20mm)		6.5
NT50-ER40	7PCS(6-25mm)	M24x3.0P	7.0
	15PCS(4-26mm)		8.5
	23PCS(4-26mm)		9.8

Type B

Type A



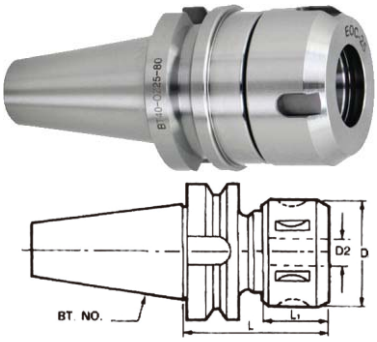
Model	MS.NO.	d	D	L1
MT2-ER11	MS2	1 ~ 7	19	35.3
MT2-ER16	MS2	1 ~ 10	28	44.3
MT2-ER20	MS2	1 ~ 13	34	53.3
MT2-ER25	MS2	1 ~ 16	42	57.7
MT3-ER16	MS3	1 ~ 10	28	49.3
MT3-ER20	MS3	1 ~ 13	34	56.2
MT3-ER25	MS3	1 ~ 16	42	55.7
MT3-ER32	MS3	2 ~ 20	50	65.7

Model	MS.NO.	d	D	L1
MT3-ER40	MS3	3 ~ 26	63	71.7
MT4-ER16	MS4	1 ~ 10	28	46.5
MT4-ER20	MS4	1 ~ 13	34	51.7
MT4-ER25	MS4	1 ~ 16	42	46.7
MT4-ER32	MS4	2 ~ 20	50	74.2
MT4-ER40	MS4	3 ~ 26	63	69.7
MT5-ER40	MS5	3 ~ 26	63	69.2
MT5-ER50	MS5	6 ~ 34	78	85

NT-ER Collets Chuck Sets

Model	Qty.& Clamping	Thread	Wt.
MT2-ER16	8PCS(3-10mm)	M10x1.5P	1.0
MT2-ER20	11PCS(3-13mm)		1.2
MT2-ER25	7PCS(6-16mm)		1.3
	15PCS(2-16mm)		2.4
MT3-ER16	8PCS(3-10mm)	M12x1.75P	1.1
MT3-ER20	11PCS(3-13mm)		1.3
MT3-ER25	7PCS(4-16mm)		2.1
	15PCS(2-16mm)		2.5
MT3-ER32	6PCS(6-20mm)		2.7
	11PCS(4-20mm)		3.0
	18PCS(3-20mm)		4.1

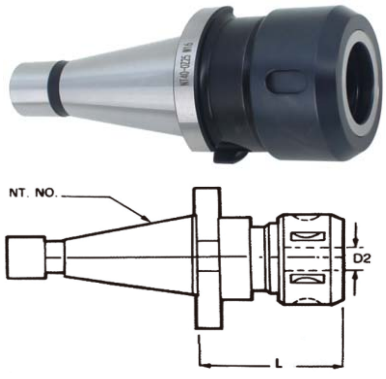
Model	Qty.& Clamping	Thread	Wt.
MT3-ER40	7PCS(6-25mm)	M12x1.75P	4.5
	15PCS(4-26mm)		6.0
	23PCS(4-26mm)		7.2
MT4-ER32	6PCS(6-20mm)	M16x2.0P	2.9
	11PCS(4-20mm)		3.2
	18PCS(3-20mm)		4.3
MT4-ER40	7PCS(6-25mm)		4.6
	15PCS(4-26mm)		6.1
	23PCS(4-26mm)		7.3
MT5-ER40	7PCS(6-25mm)	M20x2.5P	6.4
	15PCS(4-26mm)		6.9
	23PCS(4-26mm)		8.2



MAS403 Material: 20CrMnTi Speed : ≥ 12000RPM

Model	D2	L	D	L1	Collets	Thread
BT40-OZ25-80	3-25	80	60	30	OZ25	M16x2.0P
BT40-OZ25-120	3-25	120	60	30	OZ25	
BT40-OZ32-80	6-32	80	72	33	OZ32	
BT40-OZ32-150	6-32	150	72	33	OZ32	
BT50-OZ25-90	3-25	90	60	30	OZ25	M24x3.0P
BT50-OZ25-130	3-25	130	60	30	OZ25	
BT50-OZ32-105	6-32	105	72	33	OZ32	
BT50-OZ32-150	6-32	150	72	33	OZ32	

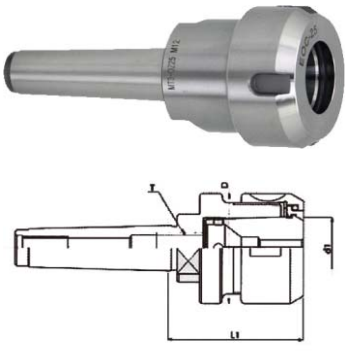
NT-OZ Collets Chucks



DN2080 Material: 20CrMnTi Speed : ≥ 12000RPM

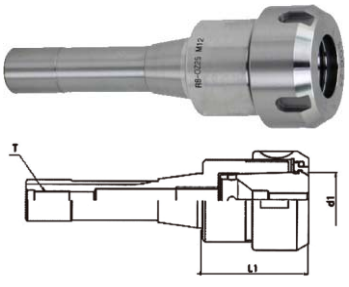
Model	D2	L	Collets	Thread
NT30-OZ25	3-25	70	OZ25	M12x1.75P
NT30-OZ32	6-32	100	OZ32	
NT40-OZ25	3-25	70	OZ25	M16x2.0P
NT40-OZ32	6-32	70	OZ32	
NT50-OZ25	3-25	80	OZ25	M24x3.0P
NT50-OZ32	6-32	80	OZ32	

MT-OZ Collets Chucks



Model	D2	L1	Collets	Thread
MT3-OZ25	3-25	60	OZ25	M12x1.75P
MT4-OZ25	3-25	60	OZ25	M16x2.0P
MT5-OZ25	3-25	75	OZ25	M24x3.0P
MT5-OZ32	6-32	75	OZ32	

R8-OZ Collets Chucks

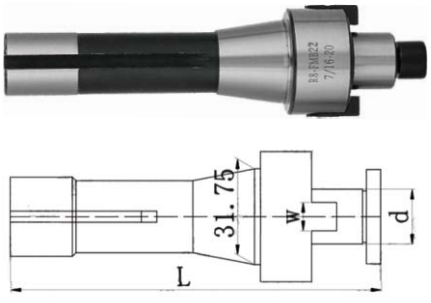


Model	D2	L1	Collets	Thread
R8-OZ25	3-25	60	OZ25	7/16-20UNF M12x1.75P



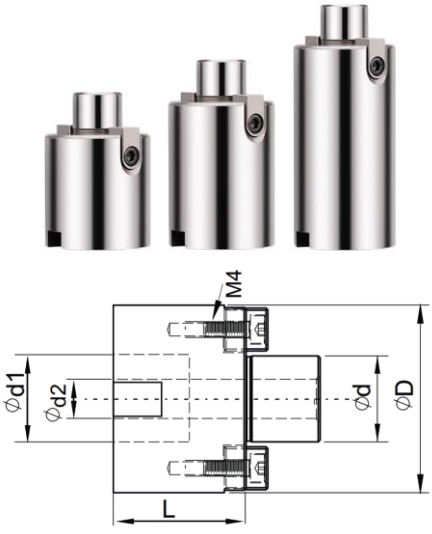
OZ25 (EOCA25)	7PCS	Metric	6; 8; 10; 12; 16; 20; 25mm
		Inch	1/4" 5/16" 3/8" 1/2" 5/8" 3/4"1"
	15PCS	Metric	3; 4; 5; 6; 7; 8; 9; 10; 11; 12; 14; 16; 18; 20; 25mm
		Inch	1/8",3/16",1/4",5/16",3/8",7/16",1/12",9/16",5/8",11/16",3/4",13/16",7/8",15/16",1"
OZ32 (EOCA32)	8PCS	Metric	3;8;10;12;16;20;25;32mm
		Inch	1/4",5/16",3/8",1/2",5/8",3/4",1",1-1/4",
	15PCS	Metric	6; 7; 8; 9; 10; 11; 12; 13; 16; 18; 20; 25; 30; 32mm
		Inch	1/4",5/16",3/8",7/16",1/2",9/16",5/8",11/16",3/4",13/16",7/8",15/16",1",1-1/8",1-1/4

R8-FMB Milling Tool Holders

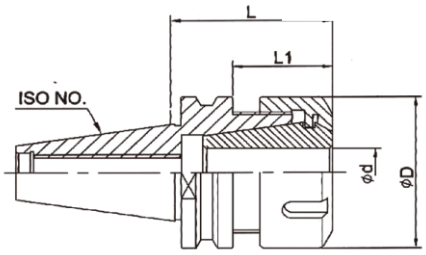


Model	d	W	L	Thread	Hole	Face Mill Size
R8-FMB22	22	10	155	M12 7/16-20UNF	22	50/63
R8-FMB27	27	12	160		27	80
R8-FMB32	32	14	160		32	100
R8-FMB40	40	16	170		40	125/160

FMB Milling Extension Adaptors



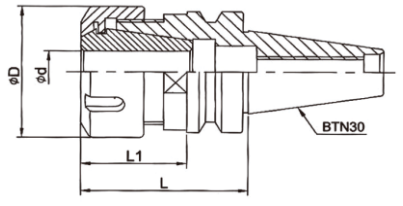
Model	d	d1	d2	L	D
C48-FMB22-50L	22	22	105	50	48
C58-FMB22-50L	22	22	105	50	58
C58-FMB22-100L	22	22	105	100	58
C58-FMB27-50L	27	27	125	50	58
C58-FMB27-100L	27	27	125	100	58
C64-FMB32-50L	32	32	145	50	64
C64-FMB32-100L	32	32	145	100	64
C69-FMB40-50L	40	40	16.5	50	69
C69-FMB40-100L	40	40	16.5	100	69



Accuracy : ≤ 0.005MM Material: 20CrMnTi Speed : ≤ 30000RPM

Model	Capacity	D	L	L1
ISO20-ER16MS-35	1-10	22	35	26
ISO25-ER20MS-35	1-13	28	35	26.2
ISO30-ER32UM-50	3-20	50	50	30.9

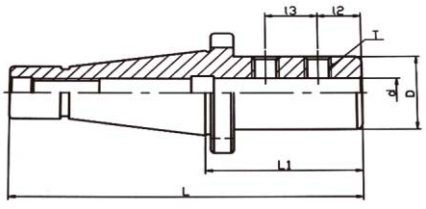
NBT30 Collet Chucks Without Keyway



Accuracy : ≤ 0.005MM Material: 20CrMnTi Speed : ≤ 30000RPM

Mode	Capacity	D	L	L1
NBT30-ER16-70	1-10	28	60	38
NBT30-ER20-70	1-13	34		38
NBT30-ER25-70	1-16	42		38
NBT30-ER32-70	3-20	50		38

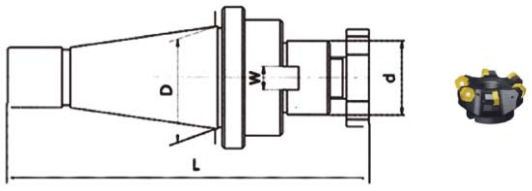
NT Side Lock End Mill Arbors



DIN2080

Model	L1	D	d	2	l3
NT30-SL20-63	63	52	20	25	—
NT30-SL25-80	82	65	25	24	25
NT40-SL20-63	63	52	20	25	_
NT40-SL25-80	80	65	25	24	25
NT40-SL32-80	80	72	32	24	28
NT50-SL25-80	80	65	25	24	25
NT50-SL32-80	80	72	32	24	28
NT50-SL40-100	100	90	40	30	32
NT50-SL42-100	100	90	42	30	32

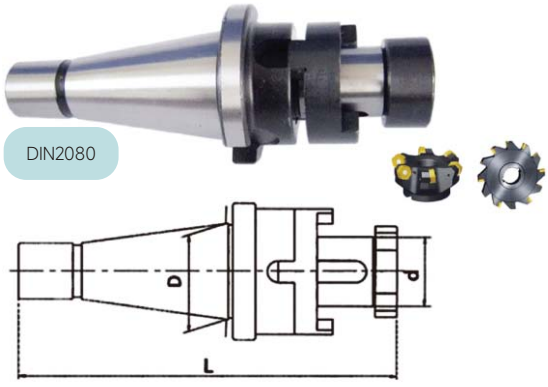
DIN2080



Model	D	d	W	L
NT30-FMB22	31.75	22	10	129
NT30-FMB27		27	12	134
NT40-FMB22	44.45	22	10	156
NT40-FMB27		27	12	159
NT40-FMB32		32	14	178
NT50-FMB22	69.85	22	10	208
NT50-FMB27		27	12	211
NT50-FMB32		32	14	215
NT50-FMB40		40	16	219

NT Combine Shell End Mill Arbors

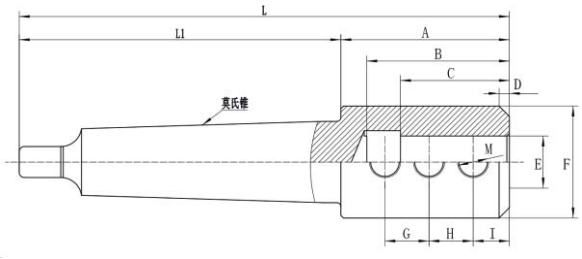
DIN2080



Model	Shank	d	L	Wt.
NT30-13	ISO30	13	120	0.608
NT30-16	ISO30	16	131	0.746
NT30-22	ISO30	22	132	1.038
NT30-27	ISO30	27	135	1.474
NT30-32	ISO30	32	151	2.101
NT40-16	ISO40	16	168	1.3
NT40-22	ISO40	22	171	2.042
NT40-27	ISO40	27	174	2.69
NT40-32	ISO40	32	178	2.679

MT Side Lock End Mill Arbors

DIN228

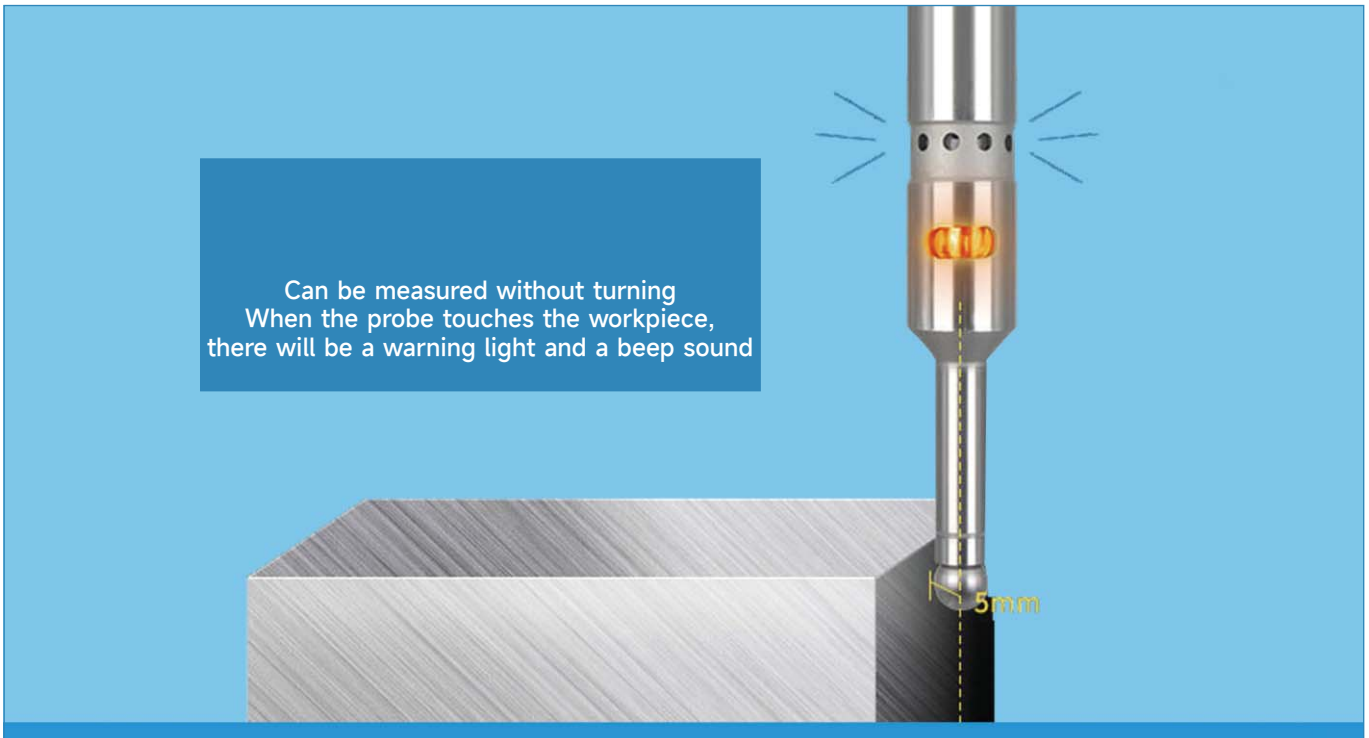


Model	L1	L	A	B	C	D	E	F	G	H	I	M
MTA3-SLN20	99	164	65	55	42	4x45°	φ20	φ43	17	17	14	3-M12
MTA3-SLN25	99	174	75	60	44	5x45°	φ25	φ48	19	19	13.999	3-M12
MTA3-SLN32	99	182	83	73	59	5x45°	φ32	φ58	23	23	20	3-M14
MTA3-SLN40	99	194	95	85	68	5x45°	φ40	φ63	28	28	20	3-M16
MTA4-SLN20	124	189	65	55	42	4x45°	φ20	φ43	17	17	14	3-M12
MTA4-SLN25	124	199	75	60	44	5x45°	φ25	φ48	19	19	13.999	3-M12
MTA4-SLN32	124	207	83	73	59	5x45°	φ32	φ58	23	23	20	3-M14
MTA4-SLN40	124	219	95	85	68	5x45°	φ40	φ63	28	28	20	3-M16
MTA5-SLN20	156	221	65	55	42	4x45°	φ20	φ43	17	17	14	3-M12
MTA5-SLN25	156	231	75	60	44	5x45°	φ25	φ48	19	19	13.999	3-M12
MTA5-SLN32	156	239	83	73	59	5x45°	φ32	φ58	23	23	20	3-M14
MTA5-SLN40	156	251	95	85	68	5x45°	φ40	φ63	28	28	20	3-M16

Model	D	L	d	wt.
ES-20	20	160	10	0.28

Function:
It's mainly used to for marking sure the center position of the work-piece precisely in the CNC machining.

How to use the photoelectric centring rod



Make the spindle of the machine tool stop and control the probe to approach the working surface slowly. When the probe is in contact with the working surface, the LED indicator lights up At the same time, a prompt sound is issued, and the distance between the machine tool spindle and the working plane is 5mm

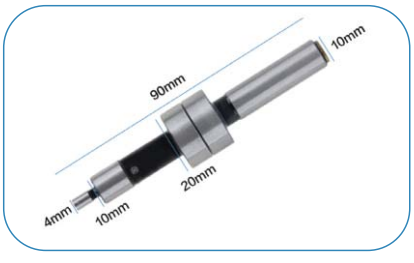
3D Edge Finders

Stroke	Accuracy	Probe length	Probe diameter	Probe material
XY±10mm Z 6mm	0.01mm	50mm	4.0mm	Ruby (more wear-resistant than steel probes)

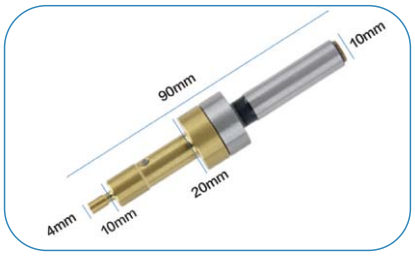
Mode	Grad.(mm)	Accuracy (mm)	Range(mm)	Straight probe length (mm)	Bend probe length (mm)	Center tip length (mm)	Clamping handle diameter (mm)	Measuring head diameter (mm)
1803-101	0.01	0.02	0-3	45,100,154	46,100,154	52.5	10	3

Model	Grad.(mm)		Range(mm)		Accuracy(mm)	Depth(mm)	Probe diameter	Fixed pin diameter
1804-101								
	0.003	0.01	0-10	0-6	0.008	30	Sφ4	φ20

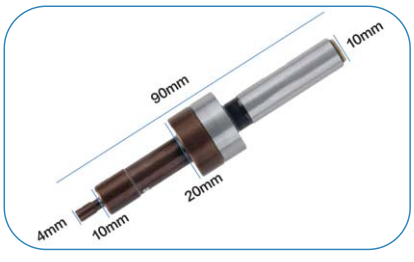
Machinery Edge Finders



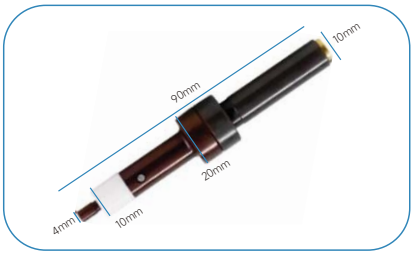
Ordinary magnetic



Yellow Titanium non-magnetic



Purple titanium non-magnetic



Ceramic 430

Ceramic straight body

Suitable speed: 400-600RPM

Application scenario:
Traditional milling machine Comprehensive processing machinery

Z-Axis Scale Zero Setters with Magnetic

Diameter : 62mm
Measurement : 44mm
Height : 50mm

1、Set the tool length on CNC, milling machine, and lathe
2、Measurement height: 50.00 ± 0.01mm
3、Large measurement surface, easy to operate
4、Low spring force can prevent small milling cutters or drill bits from breaking
5、Simply set using a ground parallel plate

Z-Axis Scale Zero Setters with Electro-optical

Diameter : 54mm
Measurement : 14mm
Height : 49mm

1、Height 50mm
2、Magnetic base
3、Red light comes on when touched
4、Accuracy: 0.005mm
5、Can be adsorbed for horizontal and vertical use
6、Weight: 0.5kgs

Digital Z-Axis Scale Zero Setters

Diameter : 55mm
Measurement : 25mm
Height : 49mm

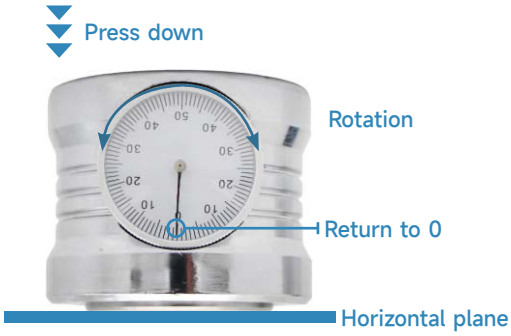
1、Precision 0.001mm
2、Large panel digital illuminated display
3、IP65 grade waterproof
4、Automatic power outage without operation for 5 minutes
5、Return to "0" position light prompt
6、Height tolerance value: ± 0.05mm

Z-avis Scale Zero Setters with Megnetic meter (height 100mm)

Diameter : 62mm
Measurement : 44mm
Height : 100mm

1、Mechanical dial design, large measuring surface, and easy to operate
2、Low spring force can prevent small milling cutters and drill bits from breaking
3、Height tolerance value: ± 0.01mm can be adsorbed on a horizontal surface for use
4、Precision measurement value: 0.01mm
5、Weight: 1.82KG
6、Height 100mm , belonging to the elevated type

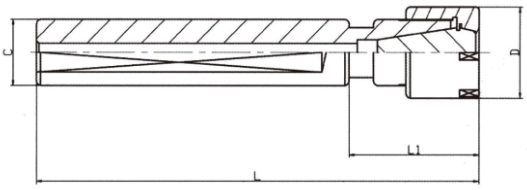
Rotate the dial to turn zero to the top



The measuring end faces downward and is pressed down to make it parallel to the horizontal plane.

Rotate the Rotate the dial indicator pointer to zero and start calibration

Put the Z-axis setter on the workpiece, and the tool contacts the measuring surface. Slowly feed the tool so that the pointer is at "0". The distance between the tool and the upper tool is equal, and the height difference distance between the tool and the workpiece is 50mm



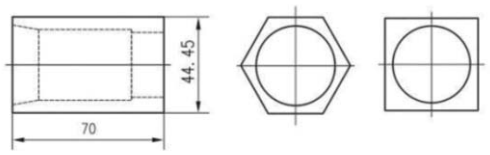
Material:42CrMo
Hardness: HRC52
Hole=Concentricity: 0.005mm

Model	L	L1	C	D
SL20-ER11-80	76.6	16.6	20	16
SL20-ER16-80	86.6	26.6	20	22
SL20-ER20-80	97	32	20	28
SL25-ER16-80	97	32	25	22
SL25-ER20-80	97	32	25	28
SL25-ER25-80	97	32	25	42
SL25-ER25-100	108	38	25	50
SL32-ER16-80	97	32	32	22
SL32-ER20-80	102	32	32	28
SL32-ER25-80	102	32	32	42
SL32-ER32-80	108	38	32	50
SL32-ER40-80	120	50	32	63
SL40-ER32-80	108	38	40	50
SL40-ER40-80	128	53	40	63
SL45-ER32-120	178	120	45	50
SL45-ER40-120	180	120	45	63
SL1-1/4"-ER25-60	97	60	1-1/4"I	42
SL1-1/4"-ER32-60	103	60	1-1/4"I	50
SL1-1/4"-ER40-60	120	60	1-1/4" I	63
SL1-1/2"-ER32-80	118	80	1-1/2"	50
SL1-1/2"-ER40-75	135	75	1-1/2"II	63

Lathe Material Pullers

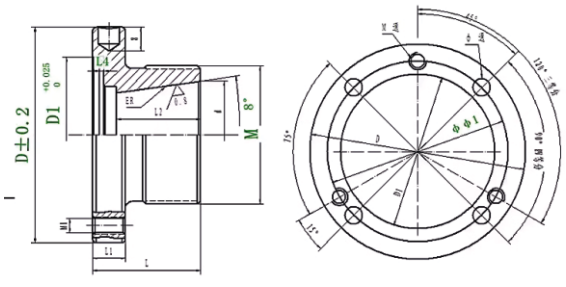
Fast pulling material, fastening without slipping

Mode	(Shank)	(Blessing range)
16	(round handle)	2.50mm
20		2.50mm
25		2.50mm
32		2-50mm
16	(square handle)	2.50mm
20		2.50mm
25		2.50mm

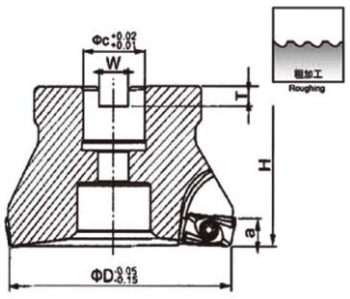


Main Technical Parameter	Outer size(in)
Square for 5C collets	1-3/4×1-3/4×2-3/4
Hex for 5C collets	1-3/4×1-3/4×1-3/4×2-3/4
Quick acting lever collet closer	1-11/16×4
Wt(kg)	1.41kg

ER Chucks for Lathe Machines

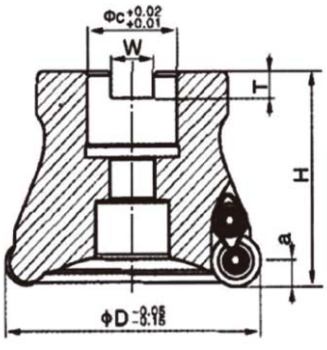


Model	D	D1	φ1 Fixing screw center distance	M1 Three equal parts	φ Four equal parts	L	L1	L3 Total height after clamping	L4 Stop depth	M Nut	Nut outer diameter
ER16-45	45	22	35		5	30	10	40	4	M22*1.5	28
ER20-45	45	22	35		5	30	10	40	4	M25*1.5	34
ER25-80	80	55	66	M6	6.5	40	12	55	6	M32*1.5	42
ER32-80	80	55	66	M6	6.5	40	12	55	6	M40*1.5	50
ER32-100	100	72	84	M8	8.5	40	12	55	6	M40*1.5	50
ER32-125	125	95	108	M8	8.5	40	12	55	6	M40*1.5	50
ER40-80	80	55	66	M6	6.5	40	12	55	6	M50*1.5	63
ER40-100	100	72	84	M8	8.5	40	12	55	6	M50*1.5	63
ER40-125	125	95	108	M8	8.5	40	12	55	6	M50*1.5	63
ER40-130	130	100	115	M8	8.5	40	12	55	6	M50*1.5	63
ER50-100	100	72	84	M8	8.5	50	18	78	6	M64*2	78
ER50-125	125	95	108	M8	8.5	50	18	78	6	M64*2	78
ER50-130	130	100	115	M8	8.5	50	18	78	6	M64*2	78
ER50-160	160	130	142	M8	8.5	50	18	78	6	M64*2	78

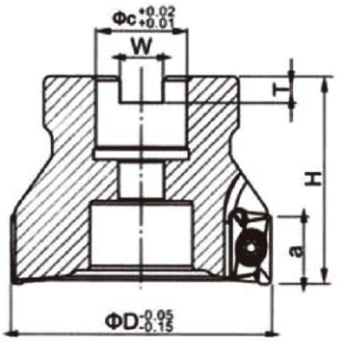


Model	Size(mm)						Circular Cushin	Applicabl Inserts	Clamp Screw	Wrench
	D	C	H	W	T	a				
RAP400R-50-22-4T	40	16	45	8.5	5	8		APMT 1604 PDER	M4×10	T15
RAP400R-63-22-4T	63	22	50	10.4	6.3	8				
RAP400R-80-27-5T	80	27	50	12.4	7	8				
RAP400R-100-32-6T	100	32	50	14.4	8	8	FMB-32-SHIM			
RAP400R-125-40-6T	125	40	63	16.4	9	8	FMB-40-SHIM			
RAP400R-160-40-6T	160	40	63	16.4	9	8	FMB-40-SHIM			
RAP400R-200-60-9T	200	60	63	25.7	14	8				

EMR Round Dowel Face Mills

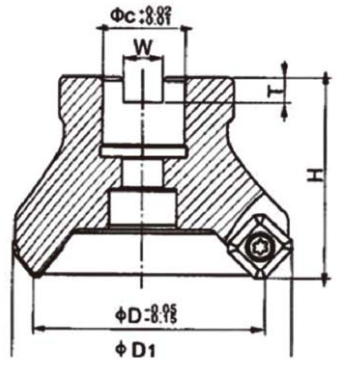


Model	Size(mm)						Circular Cushin	Applicabl Inserts	Clamp piece	Clamp	Wrench
	D	C	H	W	T	a					
EMR-5R-50-22-4T	50	22	50	10.4	6.3	5		PRMW 1003 MO PRMW 10T3 MOE	A-5R	M4×10	T15
EMR-5R-63-22-4T	63	22	50	10.4	6.3	5					
EMR-5R-80--27-6T	80	27	50	12.4	7	5	FMB-32-SHIM				
EMR-5R-100-32-6T	100	32	50	14.4	8	5					
EMR-6R-50-22-4T	50	22	50	10.4	6.3	6		PRMW 1204 MO	A-6R		
EMR-6R-63-22-4T	63	22	50	10.4	6.3	6					
EMR-6R-80-27--6T	80	27	50	12.4	7	6					
EMR-6R-100-32-6T	100	32	50	14.4	8	6	FMB-32-SHIM	PRMW 1204 MO			
EMR-6R-125-40-6T	125	40	63	16.4	9	6	FMB-40-SHIM				

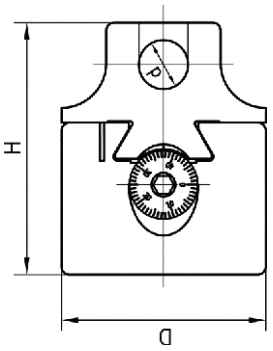


Model	Size(mm)						Circular Cushin	Applicabl Inserts	Clamp Screw	Wrench
	D	C	H	W	T	a				
TAP400R-50-22-4T	50	20	50	10.4	6.3	14		APMT 1604 PDER	M4×10	T15
TAP400R-63-22-4T	63	22	50	10.4	6.3	14				
TAP400R-80-27-6T	80	27	50	12.4	7	14				
TAP400R-100-32-6T	100	32	50	14.4	8	14	FMB-32-SHIM			
TAP400R-125-40-6T	125	40	63	14.4	8	14	FMB-40-SHIM			
TAP400R-160-40-9T	160	40	63	14.4	8	14	FMB-40-SHIM			
TAP400R-200-60-12T	200	60	63	25.7	14	14				
TAP400R-250-60-12T	250	60	63	25.7	14	14				

KM-45° Face Mills



Model	Size(mm)					Circular Cushin	Applicabl Inserts	Clamp Screw	Wrench
	D	C	H	W	T				
KM12-50-22-4T	50	22	50	10.4	6.3		SEKT1204	A501105D M5×11	T20F T20
KM12-63-22-4T	63	22	50	10.4	6.3				
KM12-80-27-5T	80	27	50	12.4	7				
KM12-100-32-5T	100	32	50	14.4	8	FMB-32-SHIM			
KM12-125-40-6T	125	40	63	16.4	8	FMB-40-SHIM			
KM12-160-40-9T	160	40	63	16.4	9	FMB-40-SHIM			



Model	D	H	Max Offset	Boring BarDia	Min Graduation	Dia.of Boring
F1-1/2"	50mm	63mm	5/8"	1/2"	0.001"	3/8"-5"
F1-3/4"	75mm	80mm	1"	3/4"	0.0005"	1/2"-9"
F1-1"	100mm	97mm	1-5/8"	1"	0.0005"	5/8"-12.5"
F1-12mm	50mm	63mm	16mm	12mm	0.01mm	10-125mm
F1-18mm	75mm	80mm	25mm	18mm	0.01mm	12-225mm
F1-25mm	100mm	97mm	41mm	25mm	0.01mm	15-320mm

F1 Rough Boring Cutters

9PCS for 12mm

12PCS for 18mm

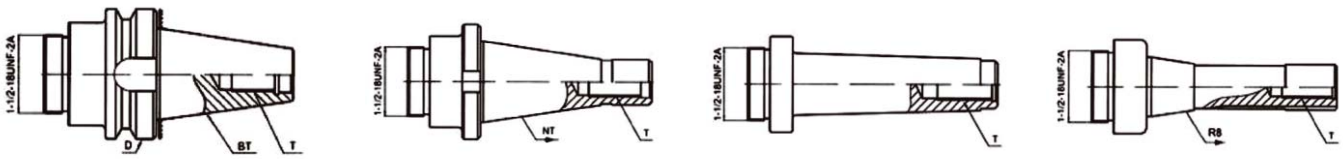
6PCS for 25mm

Metric			Inch		Qty.ofBoring Cutters	Holder Thread
Dia.of Boring Holes	Dia.of Boring Heads	Boring Capacity	Dia.of Boring Holes	Dia.of Boring Heads		
F1-12mm	50mm	10-125mm	F1-2"	1/2"	9PCS	7/8-20 1-1/2-18
F1-18mm	75mm	12-225mm	F1-3"	3/4"	12PCS	1-1/2-18
F1-25mm	100mm	15-320mm	F1-4"	1"	6PCS	1-1/2-18

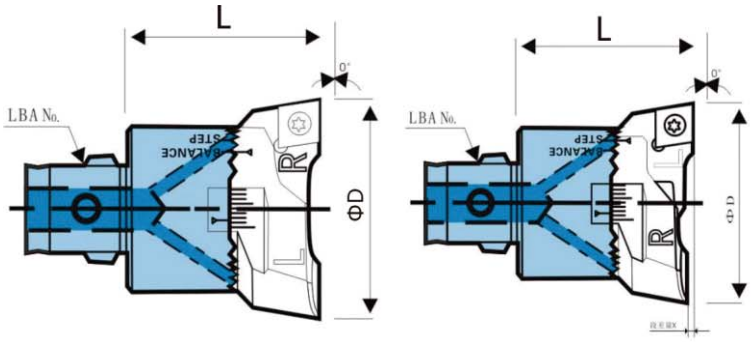
Boring Cutters with Replaceable Inserts

Model	Length(MM)	Matching Insert	Model	Length(MM)	Matching Insert
2"-6pcs	70	CCMT06	3"-7pcs	80	TCMT09
	75	TCMT09		80	CCMT06
	80	CCMT06		90	CCMT06
	90	TCMT11		90	CCMT09
	90	TCMT11		110	TCMT11
	105	TCMT09		115	TCMT11
				120	TCMT11

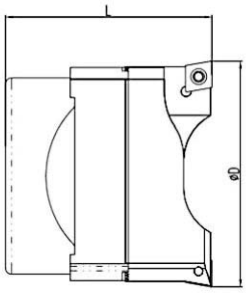
Model	T	L	Wt.
BT40	M16-2.0P	102	1.24
BT50	M24-3.0P	134	3.97
NT30	M12-1.75P	102	0.6
NT40	M16-2.0P	135	1.2
NT50	M24-3.0P	168	3.14
MT2	M10-1.5P	108	0.4
MT3	M12-1.75P	128	0.44
MT4	M16-2.0P	154	0.95
MT5	M24-3.0P	185	1.7
R8	M12-1.75	132.5	0.6
R8	7/16-20UNF	132.5	0.6



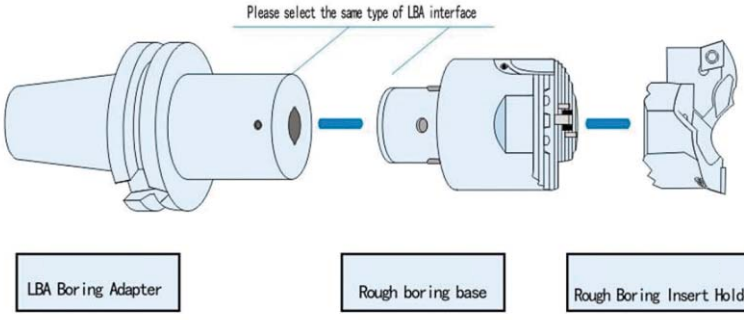
*Please state the detailed size when ordering; e.g.: F1-R8-18mm

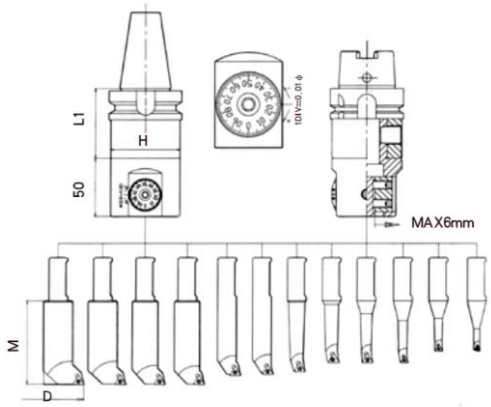


Specification	LBA No.	Boringrange φD	L	Insert/Screw/Wrench	Weight(kg)
RBA20-25	LBK1(11mm)	20-25mm	33mm	CCMT06020*/M2.5/T8	0.05
RBA25-33	LBK2(14mm)	25-33mm	37mm		0.1
RBA32-45	LBK3(18mm)	32-45mm	41mm		0.2
RBA40-55	LBK4(22mm)	40-55mm	50mm	CCMTO9T30*/M4.0/T15	0.4
RBA52-75	LBK5(28mm)	52-75mm	59mm		0.8
RBA68-95	LBK6(36mm)	68-95mm	70mm	CCMT12040*/M5.0/T20	1.6
RBA90-110		90-110mm			1.7



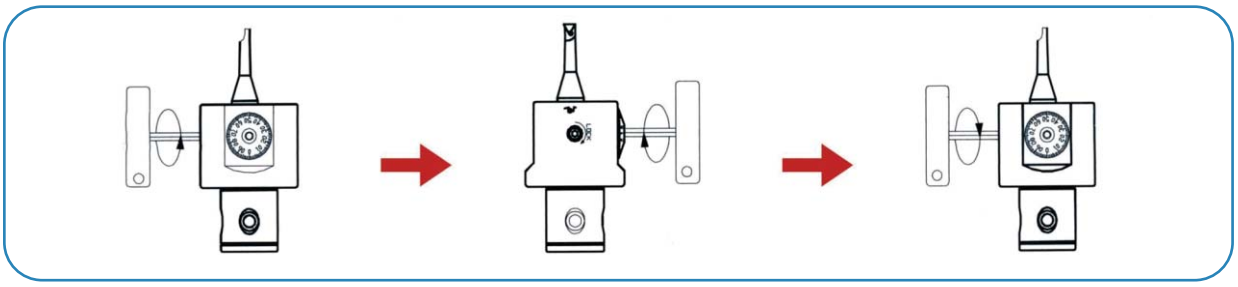
Specification	Boringadapter	Boringrange φD	L	Insert/Screw/Wrench	Weight(kg)
RBA110-160	BST	110-160mm	99mm	CCMT12040*/M5.0/T20	3.5
RBA160-204		160-204mm	99mm		3.9





Model	D*d*L(mm) Dimensions	(mm) Fine-Tune The Stroke	(mm) Fine-tuning Accuracy	(mm) Boring template	Adaptable tool holder	Connector diameter	(KG)
NBJ16	63*16*50	6	0.01	6-51	LBK 系列	36	1.6

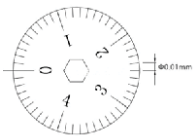
Nbj16 Fine Boring Tool Set Accessories List				
Accessory name	Accessory model	Accessories quantity/piece	Compatible Insert model	MM Boring range
NBJ16	NBJ16	1	—	6-51
LBK	BT40-LBK6-65L	1	—	—
1	SBJ1608-32	1	TBGT0601**L	8-11
2	SBJ1610-40	1	TBGT0601**L	10-13
3	SBJ1612-53	1	TPGH0902**L	12-15
4	SBJ1616-68	1	TPGH0902**L	16-21
5	SBJ1620-83	1	TPGH1103**L	20-26
6	SBJ1625-90	1	TPGH1103**L	25-31
7	SBJ1630-90	1	TPGH1103**L	30-36
8	SBJ1640-90	1	TPGH1103**L	40-46



Loosen lock screw

Turn the adjusting screw to adjust the scale to the desired size (0.01mm)

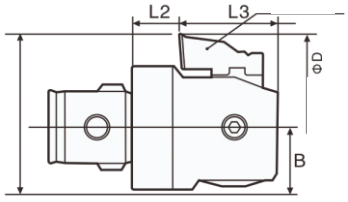
Tighten lock screw

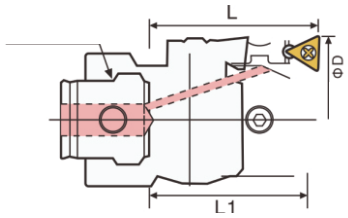


ENH-1

ENH-2

ENH-3





Specification	Insertholder	Boringrange φD (mm)	L (mm)	L1 (mm)	Boringrange φD (mm)	L2	L3	B	LBANo.	Insert/Screw/Wrench	Weight (kg)
CBA20	ENH1-1	20-25	30	27	/	10.5	19	10	LBK1 (11mm)	TP*08020*L/M2.0/T6	0.05
	ENH1-2	25-29			30-31						
	ENH1-3	30-34			30-36						
CBA25	ENH2-1	25-33	34	31	/	11.5	21	12.5	LBK2 (14mm)		0.15
	ENH2-2	32-40			36-40						
	ENH2-3	39-47			39-47						
CBA32	ENH3-1	32-43	41	37	/	10	25	16	LBK3 (18mm)	TP*08020*L/M2.0/T6	0.25
	ENH3-2	41-51			46-51						
	ENH3-3	50-60			50-60						
CBA40	ENH4-1	41-56	50	42	/	14	29	20	LBK4 (22mm)	TC*11020*L/M2.5/T8	0.45
	ENH4-2	51-67			53 -63						
	ENH4-3	64-77			64-79						
CBA52	ENH5-1	52-74	60	56	62-70	19	34	25.5	LBK5 (28mm)	TC*11020*L/M2.5/T8	0.9
	ENH5-2	64-87			65-82						
	ENH5-3	77-100			78-95						
CBA68	ENH6-1	68-103	70	66	80-100	22	45.2	32.5	LBK6 (36mm)		1.75
	ENH6-2	95-128			94-126						
	ENH6-3	118-153			118-150						
CBA100	ENH6-1	100-152	70	66	112-153	22	45.2	45.5	LBK6 (36mm)		2.46
	ENH6-2	126-179			126-179						
	ENH6-3	151-203			150-203						

○ Each boring head is equipped with three different insert holders to extend boring ranges.
○ The service life of insert will be prolonged with internal cooling design.
○ Each division for the adjustment is 0.01mm
Notice: No.1insert hold is included in the price of boring tool, while NO.2 and NO.3 insert holders shall be ordered separately

Specifcation	Inserts	Boring head	Boring range
Insert holder ENH1-1	TP08020	CBA20	20-26mm
Insert holder ENH1-2			25-31mm
Insert holder ENH1-3			30-36mm
Insert holder ENH2-1		CBA25	25-33mm
Insert holder ENH2-2			32-40mm
Insert holder ENH2-3			39-47mm
Insert holder ENH3-1		CBA32	32-42mm
Insert holder ENH3-2			41-51mm
Insert holder ENH3-3			50-60mm
Specifcation	**Inserts**	**Boring head**	**Boring range**
Insert holder ENH4-1	TP08020	CBA40	40-55mm
Insert holder ENH4-2			51-66mm
Insert holder ENH4-3			64-79mm
Insert holder ENH5-1	TC11020	CBA52	52-75mm
Insert holder ENH5-2			70-93mm
Insert holder ENH5-3			89-112mm
Insert holder ENH6-1		CBA68	68-100mm
Insert holder ENH6-2			94-125mm
Insert holder ENH6-3			118-150mm

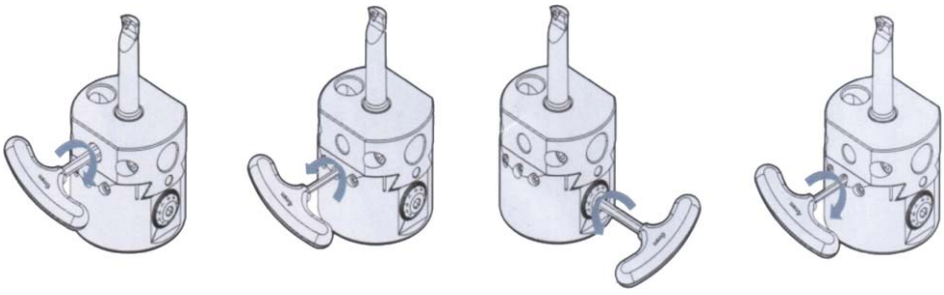
Boring Range

Model	(Mm) Scope	Depth	Clamping Handle Length	Total Length	Adapter Inserts	Screws	Wrench
SBJ-2008-32	8~11	32	20	80	TBGT0601.L	M2X5	T6
SBJ-2010-40	10~13	40	20	87	TBGT0601.L	M2X5	T6
SBJ-2012-53	12-17	53	20	98	TPGT0902.L	M2.5X6	TB
SBJ-2016-68	16-21	68	20	110	TPGT0902.L	M2.5X6	TB
SBJ-2020-83	20-130	83	20	123	TPGT1103.L	M3X7	T8
SBJ-2025-96	25~135	96	20	137	TPGT1103.L	M3X7	T8
SBJ-2030-115	30~140	115	20	152	TPGT1103.L	M3X7	T8
SBJ-20L20-100	120~280	84+BTL1	20	100	TPGT1103.L	M3X7	T8

Operating Instructions

Step1:: Hold right bor ing bar(See figure 6) in right hole(See pic AB.C . Mlake sure weldon part of bar is to the position of lok screw ard autting edge of boring bar is to the position of adjusting panel.
Step2: Loosen adjusting screw anti-clockwise .
Stan3: Ealarge the bor ing diameter by adjusting on the adjusting panel(Se figure 2) anti-tlockwise,mhile adjusting clockwise is to reduce the boring range.
Step4: Adjust till the boring diameter required and lock the adjusting screw properly.

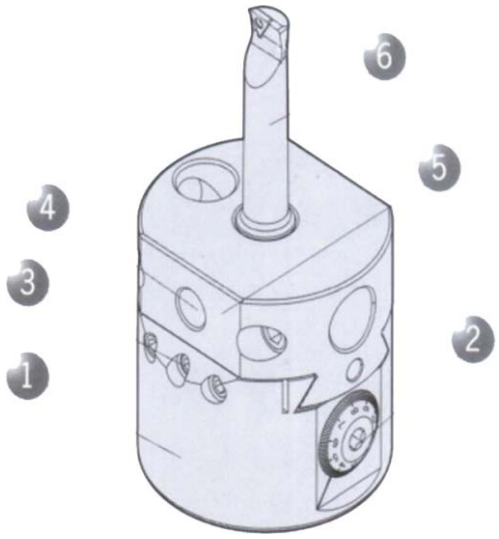
Instruction



Step1 Step2 Step3 Step4

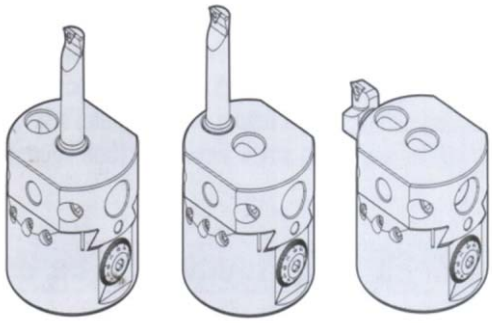
Manuals

1. Tool body
2. Ad justing Panel
3. Ad justing screw
4. Locking screw
5. Part
6. Boring bar



Notices Of The User

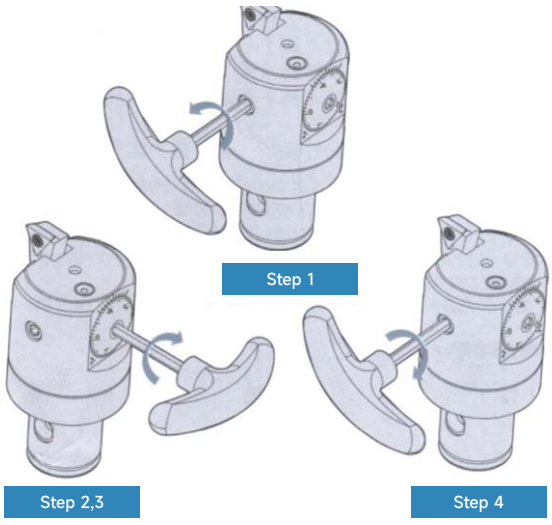
1.Please use this tool within work range(6-50mm) .
2.Please loosen the adjusting screw before ad justing.
3.Please fasten the adjusting knob by means of special wrench properly.4.Please stop the adjustmant when it is faced with a strong resistarce,Or it is notable to go on And make sure.
A lf the locking screws is unlocked;
B.if the adjustment is within the suggested work range;
C.Over adjustment will bring damage to the tool irreversibly.



Operating Instructions

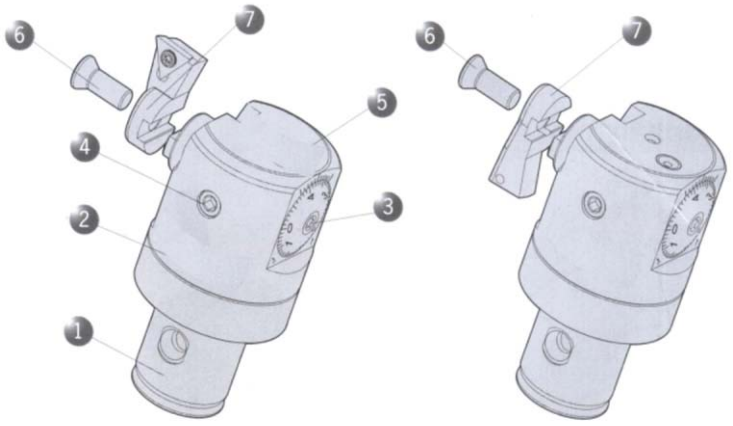
Checking before adjustment:Make sure right inserts mounted and screwfor insert holder fastened properly.
Step 1:Unlock the clamping screw(See figure 1)anti-clockwise.
Step 2:Move the insert holder(See figure 2,3)to the required working diameter
according to the reference line marked on the tool and insert holdet.
Step 3:Fasten the clamping screws(See figure 4)clockwise.
Step 4:Loosen the locking screw(See finure 1)anti-clockwise.

Instruction



Manuals

1. Connection part
2. Tool body
3. Adjusting scales
4. Locking screw
5. oil-feed hole
6. Clamping screw
7. Insert holder



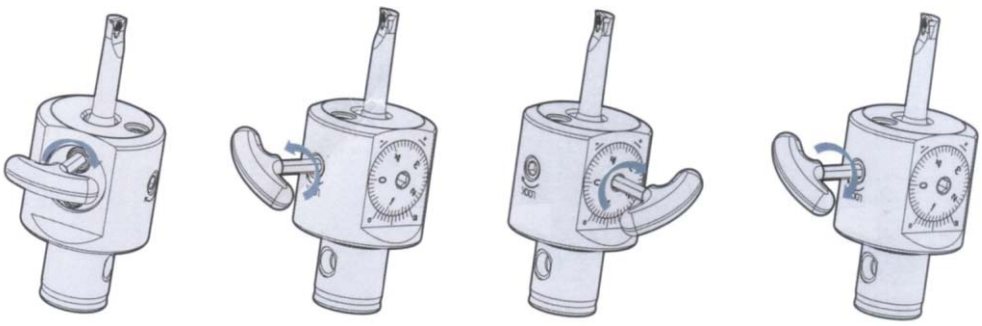
Operating Instructions

1.Use this tool within the suggested boring range.2.Please loosen the adjusting screw before adjusting.
3.Please stop the adjustment when it is faced with a strong resistance.And make sure:
A If the locking screws is unlocked;
B.If the adjustment is within the suggested work range;
4.The machine spindle shall run anti-clockwise when the function of back boring is adopted.
5.Lubrication grease shall be injected through the oil-feed hole properly(till some lubrication greasecan be found on the face of ad justing panel).
6.Disassembling of the tool without suggestion is not suggested.

Operating Instructions

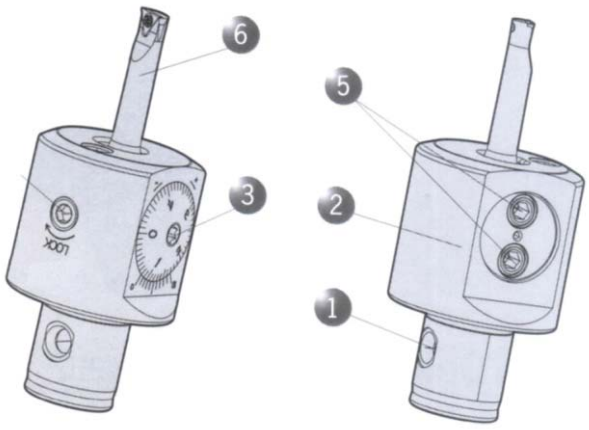
Step1 : Hold right boring bar in right hole.Make sure weldon part of boring bar is to the position of lock screw and cutting edze of boringbar is to the position of adjusting panel.Fasten the locking screw properly.
Step2: Loosen adjusting screw(see figure 4)anti-clockwise .
Step3: Enlarge the boring diameter by adjusting on the adjusting panel (See figure 2)anti-clockw'se,while adjusting clockwise is to reducethe boring range.
Step4: Adjust till the boring diameter required and lock the adjusting screw properly.

Instruction



Manuals

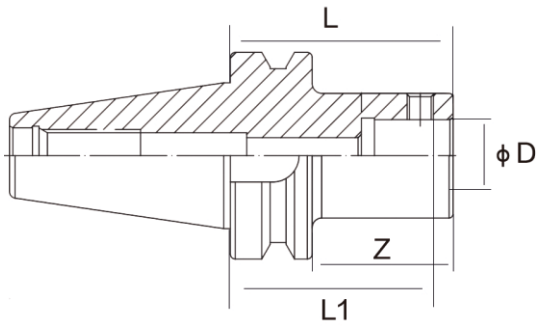
1. Connection part
2. Tool body
3. Adjusting scales
4. Locking screw
5. Mounting screw
6. Boring bar



Operating Instructions

1.Please use this tool within work range(6- 50mm)
2.Please loosen the adjusting screw before adjusting.
3.Please fasten the adjusting knob by means of special wrench properly
4.Please stop the adjustment when it is faced with a strong resistance or is unable to contirue adjustment, checkimmediately the ofllowing points:

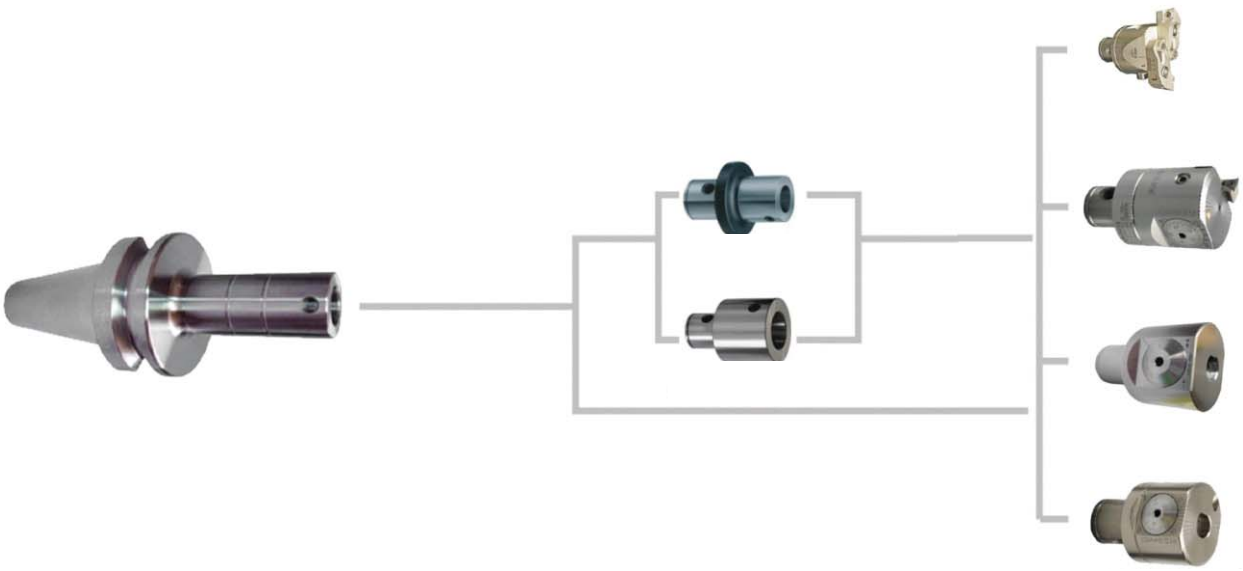
A.If the locking screws is unlocked;
B.If the ad justment is within the suggested work range;
C.Over adjustment will bring damage to the tool irreversibly.

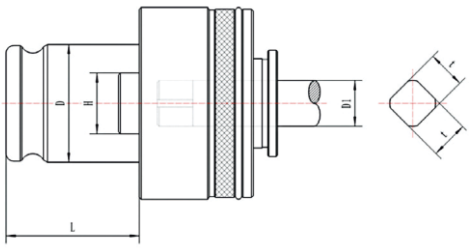


MAS403
20CrMnTi

Combination		Height Z	Range φD	Fig.	L	L1	D1	Wt.
LBK Shanks	CBA Head							
BT30-LBK1-70	CBA20	75	20-26-36	2	105	70	19	0.6
BT30-LBK2-80	CBA25	90	25-33-47		120	80	24	0.8
BT30-LBK3-80	CBA32		32-42-60				32	1.0
BT30-LBK4-70	CBA40		40-55-79			70	39	1.3
BT30-LBK5-60	CBA52		52-75-112			60	50	1.8
BT30-LBK6-60	CBA68	100	68-102-150		130		64	3.0
BT40-LBK1-75	CBA20	75	20-26-36	2	110	75	19	1.1
BT40-LBK1-105		105			140	105		1.3
BT40-LBK2-85	CBA25	90	25-33-47		125	85	24	1.3
BT40-LBK2-115		120			155	115		1.6
BT40-LBK3-95	CBA32	100	32-42-60		135	95	31	1.5
BT40-LBK3-125		130			165	125		1.8
BT40-LBK4-155		160			195	155		2.0
BT40-LBK4-85	CBA40	100	40-55-79		135	85	39	1.8
BT40-LBK4-130		145			180	130		2.4
BT40-LBK5-175		190			225	175		2.7
BT40-LBK5-75	CBA52	100	52-75-112		135	75	50	2.3
BT40-LBK5-125		150			185	125		3.3
BT40-LBK6-175		200			235	175		4.0
BT40-LBK6-65	CBA68	100	68-102-150		135	65	64	3.3
BT40-LBK6-115		150			185	115		4.7
BT40-LBK6-165		200			235	165		5.9
BT40-LBK6-65	CBA100	100	100-152-203		135	65		4.2
BT40-LBK6-115		150			185	115		5.6
BT40-LBK6-165		200			235	165		6.8
BT40-LBK6-65	CBA150	100	150-202		135	65		5.5
BT40-LBK6-115		150			185	115		6.9
BT40-LBK6-165		200			235	165		8.1

Combination		Height Z	Range φD	Fig.	L	L1	D1	Wt.
LBA Shanks	CBA Head							
BT50-LBK1-115	CBA20	75	20-26-36	1	150	115	31/19	4.1
BT50-LBK1-145		105			180	145		4.2
BT50-LBK2-110	CBA25	105	25-33-47		150	110	24	4.1
BT50-LBK2-140		135			180	140		4.2
BT50-LBK3-125	CBA32	120	32-42-60		165	125	31	4.4
BT50-LBK3-155		150			195	155		4.5
BT50-LBK4-115	CBA40	120	40-55-79		165	115	39	4.8
BT50-LBK4-145		150			195	145		4.9
BT50-LBK4-175		180			225	175		5.3
BT50-LBK4-205		210			225	205		5.4
BT50-LBK5-105	CBA52	120	52-75-112		165	105	50	5.5
BT50-LBK5-180		195			240	180		6.5
BT50-LBK5-240		25			300	240		7.2
BT50-LBK5-300		255			360	300		8.6
B150-LBK6-95	CBA68	120	68-102-150		165	95	64/50	6.5
BT50-LBK6-170		195			240	170		8.3
BT50-LBK6-230		255			300	230		9.6
BT50-LBK6-290		315			360	290		11.0
BT50-LBK6-350		375			420	350	64	15.5
BT50-LBK6-350		375			420	350	90/64	13.2





Model	D	H	L	Tapping range
TC312	19	10	21.5	M3-M12
TC820	31	16	35	M5-M30
TC1433	48	25	55.5	M24-M42

Tc312 Clamping tap specifications

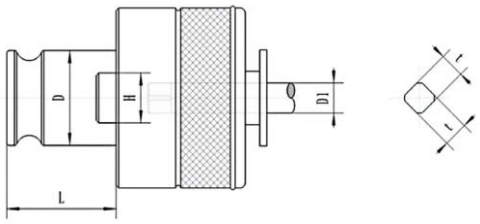
ISO	Tap size		JIS	Tap size		DIN	Tap size	
	D1			D1			D1	
M3	3.15	2.5	M3	4	3.2	M3	3.5	2.7
M4	4	3.15	M4	5	4	M4	4.5	3.4
M5	5	4	M5	5.5	4.5	M5	6	4.9
M6	6.3	5	M6	6	4.5	M6	6	4.9
M8	6.3	5	M8	6.2	5	M8	8	6.2
M10	8	6.3	M10	7	5.5	M10	10	8
M12	9	7.1	M12	8.5	6.5	M12	9	7

Tc820 Clamping tap specifications

M4	4	3.15	M4	5	4			
M5	5	4	M5	5.5	4.5			
M6	6.3	5	M6	6	4.5	M6	6	4.9
M8	6.3	5	M8	6.2	5	M8	8	6.2
M10	8	6.3	M10	7	5.5	M10	10	8
M12	9	7.1	M12	8.5	6.5	M12	9	7
M14	11.2	9	M14	10.5	8	M14	11	9
M16	12.5	10	M16	12.5	10	M16	12	9
M18	14	11.2	M18	14	11	M18	14	11
M20	14	11.2	M20	15	12	M20	16	12
M22	16	12.5	M22	17	13	M22	18	14.5
M24	18	14	M24	19	15	M24	18	14.5
M27	20	16	M27	20	15	M27	20	16
M30	20	16	M30	23	17	M30	22	18

Tc1433 Clamping tap specifications

M24	18	14	M24	19	15	M24	18	14.5
M27	20	16	M27	20	15	M27	20	16
M30	20	16	M30	23	17	M30	22	18
M33	22.4	18	M33	25	19	M33	25	20
M36	25	20	M34/M35	26	21	M36	28	22
M39	28	22.4	M36/M38	28	21	M39	32	24
M42	28	22.4	M39/M40	30	23	M42	32	24
			M42	32	26			



Model	D	H	L	Tapping range
GT12	19	10	21.5	M1-M16
GT24	30	12	30	M5-M30
GT42	45	20	48	M24-M42

Gt12 Clamping tap specifications

ISO	Tap size		JIS	Tap size		DIN	Tap size	
	D1			D1			D1	
M1-M2	2.5	2	M2	3	2.5	M1-M1.8	2.5	2.1
M2.2-M2.5	2.8	2.24				M2-M2.5	2.8	2.1
M3	3.15	2.5	M3	4	3.2	M3	3.5	2.7
M4	4	3.15	M4	5	4	M4	4.5	3.4
M5	5	4	M5	5.5	4.5	M5	6	4.9
M6	6.3	5	M6	6	4.5	M6	6	4.9
M8	6.3	5	M8	6.2	5	M8	8	6.2
M10	8	6.3	M10	7	5.5	M10	10	8
M12	9	7.1	M12	8.5	6.5	M12	9	7
M14	11.2	9	M14	10.5	8	M14	11	9
M16	12.5	10	M16	12.5	10	M16	12	9

Gt24 Clamping tap specifications

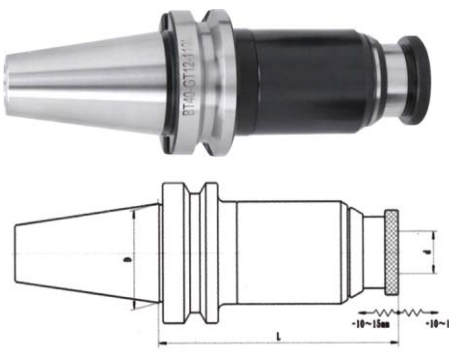
M4	4	3.15	M4	5	4			
M5	5	4	M5	5.5	4.5			
M6	6.3	5	M6	6	4.5	M6	6	4.9
M8	6.3	5	M8	6.2	5	M8	8	6.2
M10	8	6.3	M10	7	5.5	M10	10	8
M12	9	7.1	M12	8.5	6.5	M12	9	7
M14	11.2	9	M14	10.5	8	M14	11	9
M16	12.5	10	M16	12.5	10	M16	12	9
M18	14	11.2	M18	14	11	M18	14	11
M20	14	11.2	M20	15	12	M20	16	12
M22	16	12.5	M22	17	13	M22	18	14.5
M24	18	14	M24	19	15	M24	18	14.5
M27	20	16	M27	20	15	M27	20	16
M30	20	16	M30	23	17	M30	22	18

GT42 Clamping tap specifications

M24	18	14	M24	19	15	M24	18	14.5
M27	20	16	M27	20	15	M27	20	16
M30	20	16	M30	23	17	M30	22	18
M33	22.4	18	M33	25	19	M33	25	20
M36	25	20	M34/M35	26	21	M36	28	22
M39	28	22.4	M36/M38	28	21	M39	32	24
M42	28	22.4	M39/M40	30	23	M42	32	24
			M42	32	26			

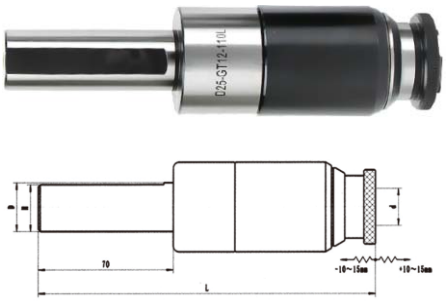
Model	Sizes of Collets	
MT3/4/5-GT12-7PCS	GT12	M3,M4,M5,M6,M8,M10,M12
NT30/40/50-GT12-7PCS		
BT30/40/50-GT12-7PCS		
MT3/4/5-GT24-7PCS	GT24	M12,M14,M16,M18,M20,M22,M24
NT30/40/50-GT24-7PCS		
BT40/50-GT24-7PCS		
MT3/4/5-GT42-7PCS	GT42	M24,M27,M30,M33,M36,M39,M42
NT30/40/50-GT42-7PCS		
BT40/50-GT42-7PCS		

BT Quick Change Tapping Chucks



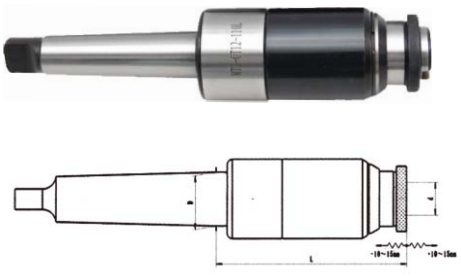
Model	Capacity	D	d	L	Sizes of Collets
BT30-GT12	M3-M16	φ31.75	φ19	125	GT12 TC312 G3
BT40-GT12	M3-M16	φ44.45	φ19	110	GT12 TC312 G3
BT40-GT24	M5-M30	φ44.45	φ30	130	GT24
BT40-TC820	M5-M24	φ44.45	φ31	130	TC820
BT50-GT12	M3-M16	φ69.85	φ19	110	GT12 TC312
BT50-GT24	M5-M30	φ69.85	φ30	120	GT24 G12
BT50-TC820	M5-M24	φ69.85	φ31	130	TC820

Side Lock Straight Quick Change Tapping Chucks

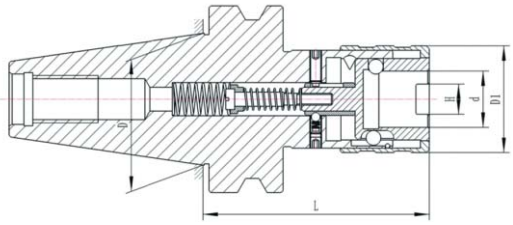


Model	Capacity	D	H	d	L	Sizes of Collets
D20-GT12	M3-M16	φ20	φ19	φ19	175	GT12 TC312
D25-GT12	M3-M16	φ25	φ24	φ19	175	GT12 TC312
D32-GT12	M3-M16	φ32	φ41	φ19	175	GT12 TC312
D25-GT24	M5-M30	φ25	φ24	φ30	190	GT24 G12
D32-GT24	M5-M30	φ32	φ31	φ30	190	GT24 G12

Morse Taper Quick Change Tapping Chucks

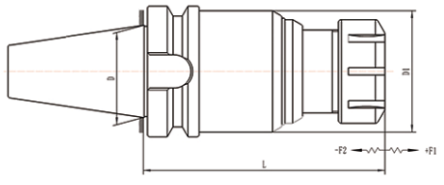


Model	Capacity	D	d	L	Sizes of Collets
MT2-GT12	M3-M16	φ17.780	φ19	110	GT12 TC312
MT3-GT12	M3-M16	φ23.825	φ19	110	GT12 TC312
MT4-GT12	M3-M16	φ31.267	φ19	110	GT12 TC312
MT3-GT24	M5-M30	φ23.825	φ30	130	GT24
MT4-GT24	M5-M30	φ31.267	φ30	130	GT24
MT5-GT24	M5-M30	φ44.399	φ30	13	GT24

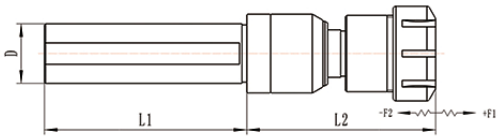


Model	D	D1	d	L	H	Tapping range	Telescopic length	
							Compression	Elongation
BT30-WF12-69L	31.75	36	10	69	10	M3-M12	5	5
BT30-WF20-100L	31.75	53	31	100	16	M5-M30	12	12
BT40-WF12-75L	44.45	36	19	75	10	M3-M12	5	5
BT40-WF20-96L	44.45	53	31	96	16	M5-M30	12	12
BT40-WF33-158L	44.45	78	48	158	25	M24-M42	20	20
BT50-WF12-90L	69.98	36	19	90	10	M3-M12	5	5
BT50-WF20-108L	69.98	53	31	108	16	M5-M30	12	12
BT50-WF33-145L	69.98	78	48	145	25	M24-M42	20	20
BT50-WF42-145L	69.98	78	45	145	20	M24-M42	20	20

Telescopic Buffer Type Tapping Tool Holders (BT-TER Type)

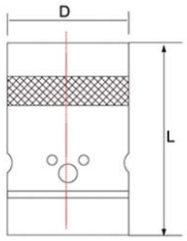


Model	D	D1	L	Sizes of Collets	Tapping range
BT30-TER16-110L	31.75	46	110	ER16	M2-M12
BT30-TER20-110L				ER20	M3-M16
BT30-TER25-110L				ER25	M3-M20
BT40-TER16-100L	44.45	46	100	ER16	M2-M12
BT40-TER20-100L				ER20	M3-M16
BT40-TER25-100L				ER25	M3-M20
BT40-TER32-115L		58	115	ER32	M3-M24
BT50-TER16-120L	69.85	46	120	ER16	M2-M12
BT50-TER20-120L				ER20	M3-M16
BT50-TER25-130L				ER25	M3-M20
BT50-TER32-130L		58	130	ER32	M3-M24

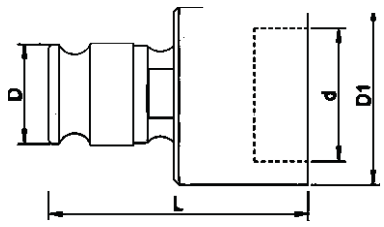


Model	D	L1	L2	Sizes of Collets	Tapping range
D16-TER16-70L	16	85	70	ER16	M2-M12
D16-TER20-80L			80	ER20	M3-M16
D16-TER25-85L			85	ER25	M3-M20
D20-TER16-70L	20	85	70	ER16	M2-M12
D20-TER20-80L			80	ER20	M3-M16
D20-TER25-85L			85	ER25	M3-M20
D20-TER32-90L			90	ER32	M3-M24
D25-TER16-70L	25	85	70	ER16	M2-M12
D25-TER20-80L			80	ER20	M3-M16
D25-TER25-85L			85	ER25	M3-M20
D25-TER32-90L			90	ER32	M3-M24
D32-TER16-70L	32	85	70	ER16	M2-M12
D32-TER20-80L			80	ER20	M3-M16
D32-TER25-85L			85	ER25	M3-M20
D32-TER32-90L			90	ER32	M3-M24

TC-series one-piece Multi-purpose Tapping Chucks

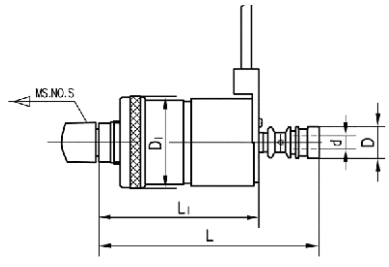


Model	Capacity		Support handle diameter range	Connection Taper	D	L
TC13-B16	M2-M13	1/8"-1/2"	φ2.5-φ10	B16	48	73
TC13-JT6	M2-M13	1/8"-1/2"	φ2.5-φ10	JT6	48	73
TC16-B18	M3-M16	1/8"-5/8"	φ3-φ12.5	B18	54	85
TC16-JT6	M3-M16	1/8"-5/8"	φ3-φ12.5	JT6	54	85
TC20-B18	M5-M20	3/16"-3/4"	φ4.5-φ15	B18	54	85
TC20-JT6	M5-M20	3/16"-3/4"	φ4.5-φ15	JT6	54	85
TC24-B22	M12-M24	1/2-15/16"	φ8.5-φ18	B22	60	95



Model	D	D1	L	d	L1	Maximum tapping depth
GT12-M3 ~ M6	19	28	45	20	3.4	45
GT12-M8		33	50	25	8.5	50
GT12-M10		38	55	30	10	55
GT12-M12 ~ M16		48	60	38	13	60
GT12-M16 ~ M20		59	81	45	18.5	65
GT24-M3 ~ M6	30	29	55	20	3.4	55
GT24-M8		33		25	8.5	
GT24-M10		38		30	10	
GT24-M12 ~ M16		48	70	38	13	70
GT24-M16 ~ M20		58	90	45	18	90
GT24-M22 ~ M24		68	120	55	20	72
GT24-M30		80	120	65	25.5	70
TC820-M3 ~ M6	31	28	60	20	3.4	60
TC820-M8		33		25	8.5	
TC820-M10		38		30	10	
TC820-M12 ~ M16		48	75	38	13	75
TC820-M16 ~ M20		58	95	45	18	95
TC820-M22 ~ M24		68	125	55	20	72
TC820-M30		80	125	65	25.5	70

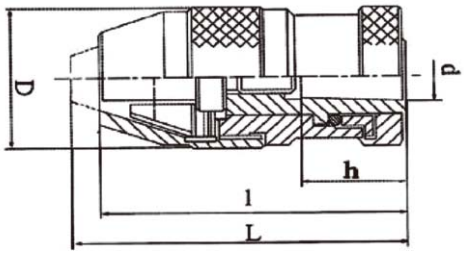
Reversible Tapping Chucks



Model	Tapping range	d	D	D1	L	L1	MS.NO.S
J467	M2—M7	2.5—6.5	23	55	135	JU	MS2—JT33 MS3—JT33
J4612	M5—M12	3.5—10	28	75	164	114.5	MS3—M16 MS4—M16
J4620	M8—M20	6.0—14	38	90.5	205	135	MS3—M20 MS4—M20

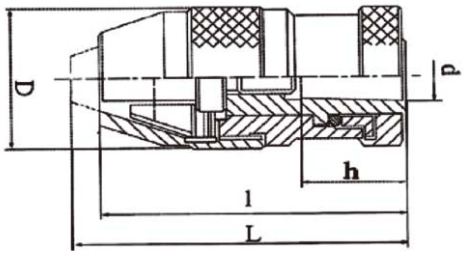
Taper-fitting Keyless Drill Chucks

D ≤ 0.06mm
M ≤ 0.12mm
P ≤ 0.20mm
C45S20



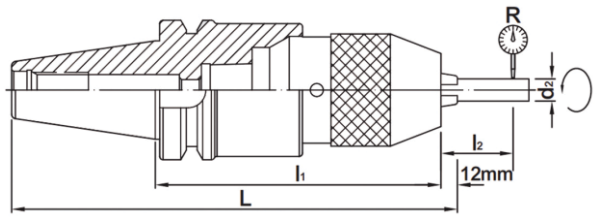
Model	Capacity	Taper	d	h	D	L	l
J0106	0.5-6	B10	10.094	14.5	35	67	61
J0110	1-10	B12	12.065	18.5	42	86	78
J0113	1-13	B16	15.733	24	44	97	88
J0116	3-16	B18	17.78	32	48	108	98
J0116A	1-16	B16	15.733	24	48	108	98
J0120	5-20	B22	21.3	30.5	53	115	103
J0206	1/6"-1/4"	JT1	9.754	16.669	35	67	61
J0210	1/32"-3/8"	JT2	14.199	22.225	42	86	78
J0213	1/32"-1/2"	JT33	15.85	25.4	44	97	88
J0216	1/8"-5/8"	JT6	17.17	25.4	48	102	92
J0216	1/8"-5/8"	JT3	20.599	30.956	48	108	98
J0220	3/16"-3/4"	JT3	20.599	30.956	53	115	103

Thread Mounted Keyless Drill Chucks



Model	Capacity		Thread	h	D	L	l
J0306	1/64"-1/4"	0.5-6	3/8"-24UNF	14	35	67	61
J0308	1/64"-5/16"	0.5-8	3/8"-24UNF	14	42	86	78
J0310A	1/32"-3/8"	1-10	3/8"-24UNF	14	42	86	78
J0310B	1/32"-3/8"	1-10	1/2"-20UNF	16	42	86	78
J0313A	1/32"-1/2"	1-13	1/2"-20UNF	16	44	90	81
J0313B	1/32"-1/2"	1-13	3/8"-24UNF	14	44	90	81
J0316A	1/8"-5/8"	3-16	1/2"-20UNF	16	48	102	92
J0316C	1/8"-5/8"	3-16	5/8"-16UNF	18	48	102	92

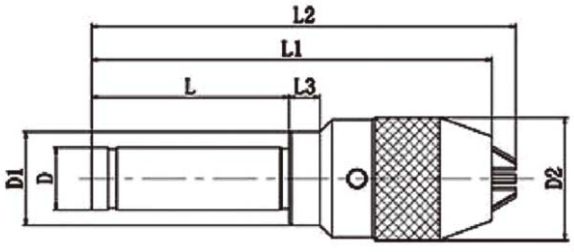
* Please state light or heavy duty as you prefer when ordering.



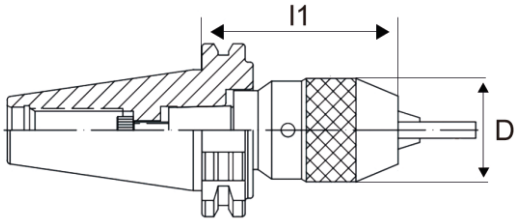
A, B, C three appearance materials are available

Model	Capacity	D	L	
			Min.	Max.
BT30-APU08-80	1-8	36.3	75	82
BT30-APU13-110	1-13	51.5	94	104.5
BT40-APU08-85	1-8	36.3	79	86.5
BT40-APU13-110	1-13	51.5	98	109
BT40-APU16-110	1-16	58	115	130
BT50-APU13-110	1-13	49	98	109
BT50-APU16-130	1-16	54	115	130

Integrated Keyless Drill Chucks with Morse Taper, Straight or R8 Shanks

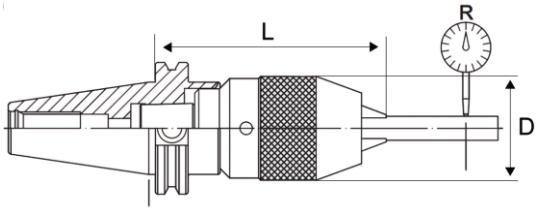


Model	Capacity		Dimensions				
	mm	nch	D	D1	L	L1	L2
MT3-13	1.0-13	1/32-1/2	23.825	51	99.5	182.5	195
MT3-16	1.0-16	1/32-5/8	23.825	57	99.5	208	219.5
MT4-13	1.0-13	1/32-1/2	31.542	51	125	207	218.5
MT4-16	1.0-16	1/32--5/8	31.542	56.5	125	219	234.5
C20-13	1.0-13	1/32-1/2	20	51	60	143	155.5
C20-16	1.0-16	1/32-5/8	20	57	60	153	167.5
R8-13	1.0-13	1/32-1/2	31.75	51	102	183.5	195
R8-16	1.0-16	1/32-5/8	31.75	57	102	195	210



Model	l1	l2	d1	d2	R	Capacity		KGS
						mm	inch	
SK30-APU08-80	80	55	37	6	0.4	1-8	1/24-5/16	0.60
SK30-APU13-120	120	75	50	13		1-13	1/24-1/2	1.45
SK30-APU16-120	120	75	57	16		3-16	1/8-5/8	1.78
SK40-APU8-75	75	55	37	6	0.4	1-8	1/24-5/16	1.32
SK40-APU13-100	100	75	50	13		1-13	1/24-1/2	1.92
SK40-APU16-115	115	80	57	16		3-16	1/8-5/8	2.28
SK50-APU8-75	75	55	37	6	0.4	1-8	1/24-5/16	3.86
SK50-APU13-100	100	75	50	13		1-13	1/24-1/2	4.40
SK50-APU16-105	105	80	57	16		3-16	1/8-5/8	4.48

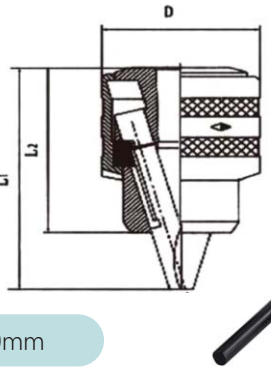
CAT Integrated Drill Chucks



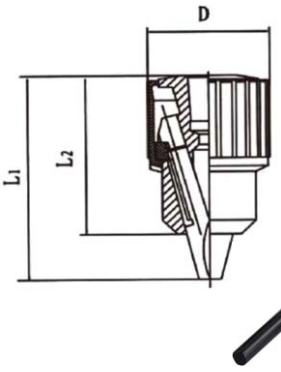
Model	Capacity		D		L			
					Minimum		Maximum	
	(φmm)	(φinch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)
CAT40-APU08	1-8	1/32"-5/16"	36.3	1.429"	65	2.559"	76.5	3.011"
CAT40-APU13	1-13	1/32"-1/2"	51.5	2.028"	88	3.464"	99	3.697"
CAT40-APU16	3-16	3/32"-5/8"	58	2.283"	106	4.173"	120	4.724"
CAT50-APU08	1-8	1/32"-5/16"	36.3	1.429"	70	2.755"	775	3.051"
CAT50-APU13	1-13	1/32"-1/2"	51.5	2.028"	89	3.503"	100	3.937"
CAT50-APU16	3-16	3/32"-5/8"	58	2.283"	96	3.779"	110	4.330"

Key-Type Drill Chucks With Taper Fitting（Heavy Duty）

A



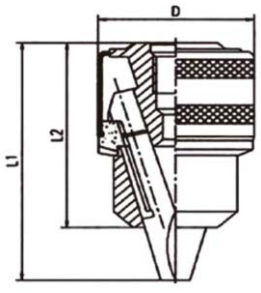
B



C45S20 ≤ 0.20mm

Model	Capacity	Mounts	D	L1	L2
J216	0.6-6	B10	30.3	50	39.5
J2110	1-10	B12	43.4	69.7	54
J2113	1-13	B16	53.2	86	67
J2116A	1-16	B16	57	93	75
J2116	3-16	B18	57	93	75
J2120	5-20	B22	65.3	110	82
J226	1/4"	JT1	30.3	50	39.5
J2210	3/8"	JT2	43.4	69.7	54
J2213A	1/2"	JT6	53.2	86	67
J2213	1/2"	JT33	53.2	86	67
J2216	5/8"	JT3	57	93	75
J2220	3/4"	JT3	68	120	92

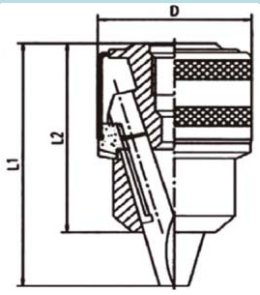
Key-Type Drill Chucks With Taper Fitting（Light Duty）



C45S20 ≤ 0.25mm

Model	Capacity	Mounts	D	L1	L2
J2510	1.5-10	B12	34	58.5	49
J2610	3/8"	JT2	34	58.5	49
J2513	1.5-13	B16	43.5	74	60
J2613	1/2"	JT6	43.5	76	60
J2516	3-16	B18	52	86	67
J2616	5/8"	JT3	53.2	97	78

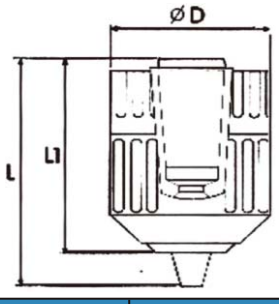
Key-Type Drill Chucks with Thread Mounted



C45S20 ≤ 0.30

Model	Capacity	Mounts	D	L1	L2
J3506B	0.6-6	3/8-24UNF	30.3	49	40
J3510D	1.5-10	M10-1	34	58.5	49
J3510C	1.5-10	3/8-24UNF	34	58.5	49
J3510G	1.5-10	1/2-20UNF	34	58.5	49
J3513D	1.5-13	M12-1.25	42	71.5	59
J3513A	1.5-13	1/2-20UNF	42	71.5	59
J3513B	1.5-13	3/8-24UNF	42	71.5	59
J3516A	3-16	1/2-20UNF	52	86	67
J3516A	3-16	5/8-16UN	52	86	67

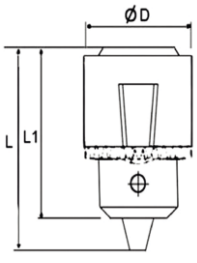
Keyless Hand-tightening Drill Chucks



PA6-30G ≤ 0.30

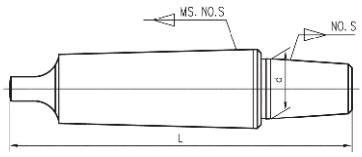
Model	Capacity	Mounts	D	L1	L
J1510A	0.8-10	3/8-24UNF	41	54.5	64
J1510B	0.8-10	12-20UNF	41	54.5	64
J1513A	2-13	1/2-20UNF	43	62	74.5
J1513B	2-13	3/8-24UNF	43	62	74.5

Stainless Steel Drill Chucks



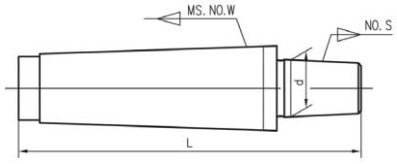
Material:3Cr13

Capacity	Connecting Hole	D	L	L1
0.3-4	JT0	20	36	30
0.6-6	JT1;B10 ; 3/8"-24UNF	28	47	38
0.6-8	JT1;B10 ; 3/8"-24UNF	30	50	42
1.0-10	JT2;B12 ; 3/8"-24UNF	34	60	50
1.0-13	JT6 ; JT33 ; B16 ; 1/2"-20UNF	42	70	56



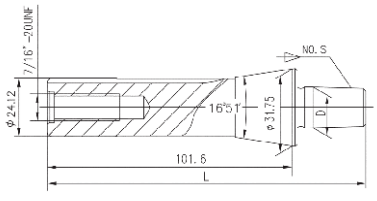
Model	L	d	Model	L	d
MT2-B16	112	15.733	JT33-MT3	127	15.85
MT3-B16	131	15.733	JT33-MT4	152	17.17
MT4-B16	156	15.733	JT33-MT5	184	15.85
MT3-B18	139	17.788	JT3-MT5	190	20.599
MT4-B18	164	17.788	JT4-MT4	169	28.55
MT5-B18	196	17.788	JT4-MT5	201	28.55

Drill Chuck Arbors with Draw Bar

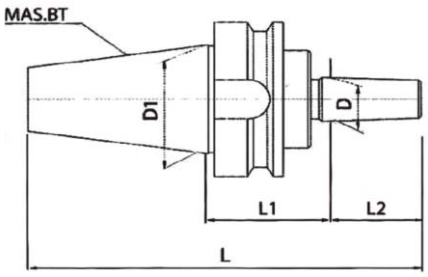


Model	L	d	Model	L	d
MT2-B16	103	15.733	JT33-MT3	114	15.85
MT3-B16	118	15.733	JT33-MT4	137	15.850
MT4-B16	141	15.733	JT3-MT2	103	20.599
MT3-B18	126	17.780	JT3-MT3	120	20.599
MT4-B18	149	17.780	JT3-MT4	143	20.599
MT5-B18	176	17.780	JT3-MT5	170	20.599

R8 Drill Chuck Arbors

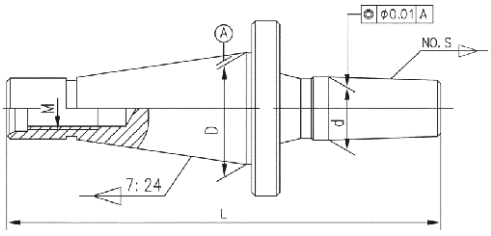


Model	L	d	Model	L	d
R8-JT33	132	15.85	R8-B12	128	12.065
R8-JT6	132	17.17	R8-B16	135	15.733
R8-JT3	137	20.599	R8-B18	143	17.78



Model	L2	L	D	D1	M
BT40-B16-45	24	134.4	15.733	44.45	M16
BT40-B18-45	32	142.4	15.733	44.45	M16
BT40-JT2-45	22.225	132.6	14.199	44.45	M16
BT40-JT3-45	30.956	141.4	20.599	44.45	M16
BT40-JT33-45	25.4	135.8	15.850	44.45	M16

NT Drill Chuck Arbors

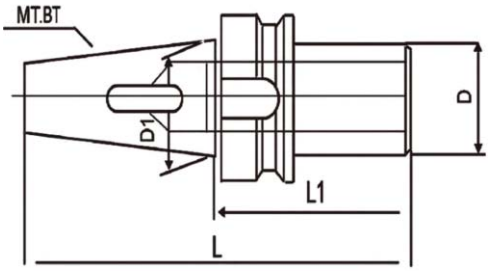


Model	D	d	L	M	Wt
NT40-JT2	44.45	14.199	141	M16	0.829
NT40-JT33	44.45	15.85	145	M16	0.853
NT40-B12	44.45	12.065	136	M16	0.809
NT40-B16	44.45	15.733	143	M16	0.848
NT40-B18	44.45	17.78	151	M16	0.869

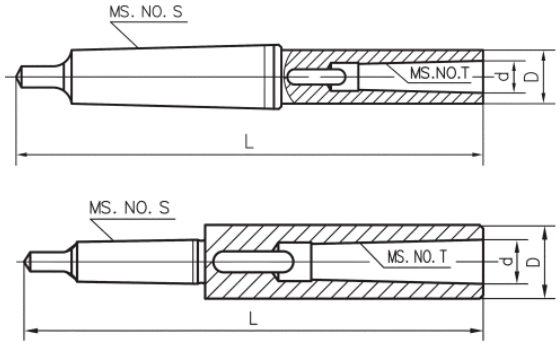
BT-MT Adapt Sleeves

BT-MTA

BT-MTB



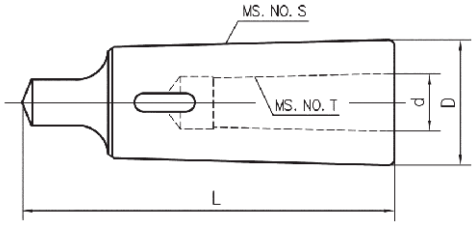
Model	L	D	D1
BT30-MT2-60	108.4	32	31.75
BT30-MT3-80	128.4	40	31.75
BT40-MT2-60	125.4	32	44.45
BT40-MT3-70	135.4	40	44.45
BT40-MT4-90	155.4	48	44.45
BT40-MT4-95	180.8	48	57.15
BT50-MT2-60	146.8	25	69.85
BT50-MT3-75	176.8	40	69.85
BT50-MT4-90	196.8	48	69.85



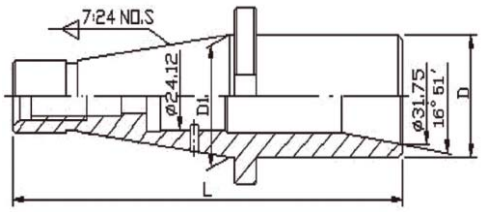
Model	MS.NO.S	MS.NO.T	D	d	L	Wt(kg)
MT1-1	1	1	20	12.065	145	0.19
MT1-2		2	30	17.78	160	0.4
MT1-3		3	36	23.825	181	0.4
MT2-1	2	1	20	12.065	160	0.29
MT2-2		2	30	17.78	175	0.5
MT2-3		3	36	23.825	196	0.6
MT2-4		4	48	31.267	221	1.43
MT3-1	3	1	20	12.065	175	0.41
MT3-2		2	30	17.78	194	0.62
MT3-3		3	36	23.825	215	0.89
MT3-3A		3	40	23.825	215	1.1
MT3-4		4	48	31.267	240	1.55
MT3-5		5	63	44.399	275	2.8
MT4-1	4	1	20	12.065	200	0.81
MT4-2		2	30	17.78	215	1
MT4-3		3	36	23.825	240	1.27
MT4-4		4	48	31.267	265	1.93
MT4-5		5	63	44.399	300	3.18
MT4-6		6	85	63.348	368	6.5

Model	MS.NO.S	MS.NO.T	D	d	L	Wt(kg)
MT5-1	5	1	20	12.065	232	1.79
MT5-2		2	30	17.78	247	2
MT5-3		3	36	23.825	268	2.27
MT5-4		4	48	31.267	300	2.93
MT5-5		5	63	44.399	335	4.18
MT5-6		6	85	63.348	403	6.7
MT6-1	6	1	20	12.065	294	4.4
MT6-2		2	30	17.78	309	4.25
MT6-3		3	36	23.825	330	4.52
MT6-4		4	48	31.267	355	5.18
MT6-5		5	63	44.399	390	6.43

MT Drill Sleeves

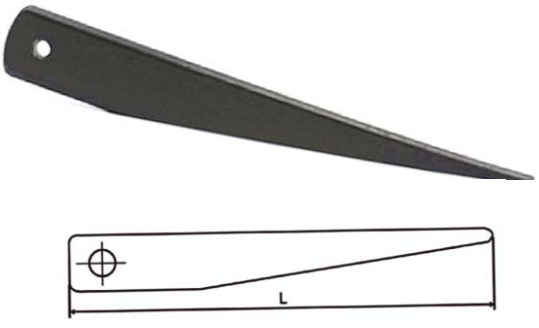


Model	MT.No.S	MT.No.T	D	d	L	Wt.
MT2-1	2	1	18.6	12.065	90	0.10
MT3-1	3	1	24.1		99	0.24
MT3-2	3	2	24.7	17.780	108	0.12
MT4-1	4	1	31.6	12.065	124	0.60
MT4-2	4	2		17.780		0.50
MT4-3	4	3	32.4	23.825	132	0.38
MT5-1	5	1	44.7	12.065	156	1.59
MT5-2	5	2		17.780		
MT5-3	5	3		23.825		1.36
MT5-4	5	4	45.5	31.267	171	0.95
MT6-1	6	1	63.8	12.065	218	3.84
MT6-2	6	2		17.780		3.73
MT6-3	6	3		23.825		3.85
MT6-4	6	4		31.267		3.12
MT6-5	6	5		44.399		1.95



Model	7:24.No.S	D	d	D	1L
NT30-MT2	NT30	32	17.780	31.75	118
NT30-MT3	NT30	40	23.825	31.75	138
NT40-MT2	NT40	32	17.780	44.45	143
NT40-MT3	NT40	40	23.825	44.45	158
NT40-MT4	NT40	48	31.267	44.45	186
NT50-MT3	NT50	40	23.825	69.85	192
NT50-MT4	NT50	48	31.267	69.85	197
NT50-MT5	NT50	61	44.399	69.85	232

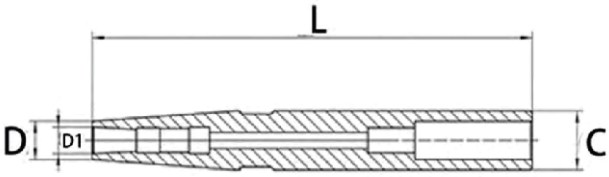
Drill Drafts



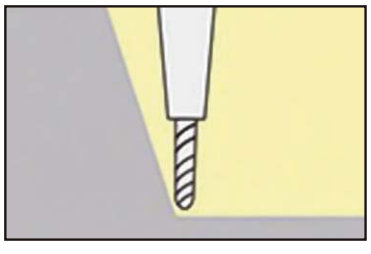
Mode	MS.NO	L
DIN317/0	0	90
DIN317/1-2	1-2	140
DIN317/3	3	190
DIN317/4	4	225
DIN317/5-6	5-6	265

Half Automatic Morse Shank Pullers

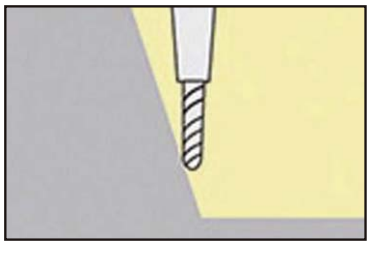
Model	MS.No	L
DIN318/1-3	1-3	317
DIN318/4-6	4-6	380



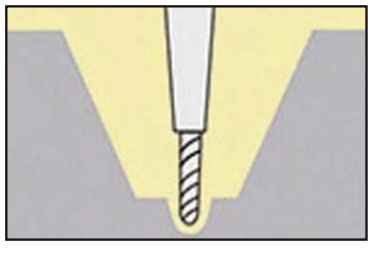
Model No	Clamping	C	D	D1	L	Collet
C12-DC06-120	2-6	12	13	10	120	CDC06
C12-DC06-150					150	CDC06
C16-DC06-150		16		14	150	CDC06
C16-DC06-200					200	CDC06
C20-DC06-150		20		17	150	CDCO6
C20-DC06-200					200	CDC06
C20-DC08-150	3-8		16		150	CDC08
C20-DC08-200					200	CDC08
C20-DC010-200	3-10		10		200	CDC10
C25-DC08-150	3-8	25	16	22	150	CDC08
C25-DC08-200					200	CDCO8
C25-DC12-200	3-12		18		200	CDC12
C25-DC12-250					250	CDC12



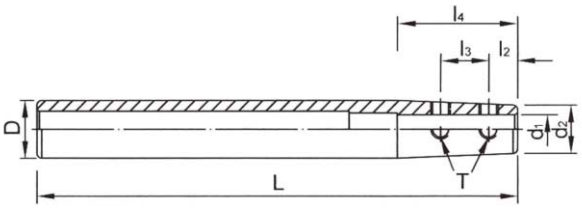
Corner Processing



Vertical wall Processing



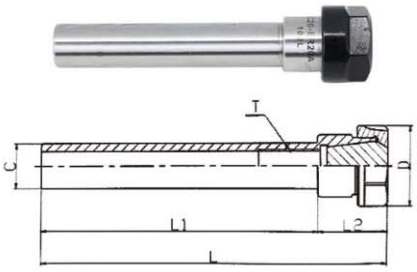
Slot Milling



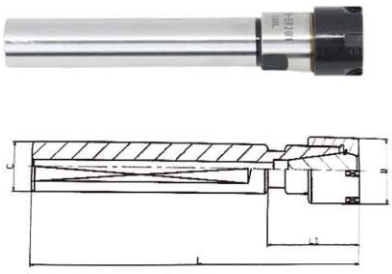
Model	L	l2	l3	l4	D	d1	d2	T	WEIGHT(KGS)
SLD3-C10-150L	150	6	10	25	10	3	9	M3x0.5P	0.10
SLD4-C10-150L						4		M4x0.7P	0.10
SLD6-C10-150L						6	—		0.10
SLD4-C12-150L					12	4	9		0.12
SLD6-C12-100L	100					6	10		0.10
SLD6-C12-150L	150								0.12
SLD4-C16-150L					16	4			0.15
SLD4-C16-200L	200								0.18
SLD6-C16-150L	150					6	13		0.15
SLD6-C16-200L	200								0.18
SLD8-C16-150L	150					8	15		0.15
SLD8-C16-200L	200								0.18
SLD6-C20-150L	150				20	6	13		0.18
SLD8-C20-150L						8	15	M6x1.0P	0.18
SLD8-C20-200L	200								0.18
SLD10-C20-150	150					10	17		0.18
SLD10-C20-200L	200								0.20
SLD12-C20-150L	150					12	19		0.18
SLD12-C20-200L	200								0.20
SLD6-C32-150L	150				32	6	13		0.21
SLD8-C32-150L						8	15		0.21
SLD10-C32-150L						10	17		0.22
SLD12-C32-150L						12	19		0.22

·Each extension rod comes with 4 screws and 1 wrench

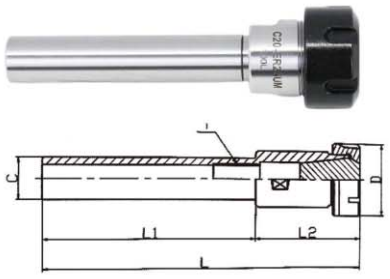
Type A



Type M

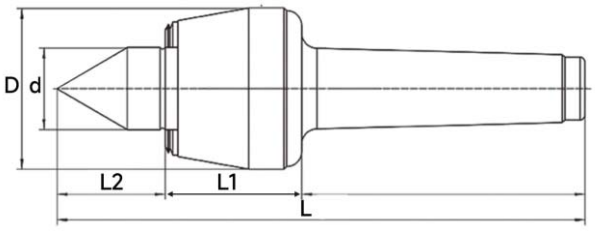


Type UM



Model	L	L1	C	D
C10-ER8A/M-100	117	100	10	12
C10-ER11A/M-100	121.6/116.6	100	10	19/16
C12-ER11A/M-100	121.6/116.6	100	12	19/16
C12-ER16A/M-100	140/137	100	12	28/22
C16-ER11A/M-100	121.6/116.6	100	16	19/16
C16-ER16A/M-100	140/137	100	16	28/22
C16-ER16A/M-150	190/187	150	16	28/22
C20-ER16A/M-100	140/137	100	20	28/22
C20-ER16A/M-150	190/187	150	20	28/22
C20-ER20A/M-100	140.5/140	100	20	34/28
C20-ER25UM-100	151	100	20	42
C20-ER32UM-100	51.5	100	20	50
C25-ER20UM-100	140.5/140	100	25	34/28
C25-ER25UM-100	51	100	25	42
C25-ER32UM-100	51.5	100	25	50
C32-ER32UM-100	51.5	100	32	50
C32-ER32UM-150	51.5	150	32	50
C40-ER32UM-100	51.5	100	40	50
C40-ER40UM-100	65	100	40	63

Any other special sizes as ordered.



GJMT-Series Precision Type

Model	L	L1	L2	D	d
GJMT3-A	184	61.5	34.5	53	25
GJMT3-B	199	61.5	49.5	53	25
GJMT4-A	206.5	55	40.5	68	32
GJMT4-B	223	55	57	68	32
GJMT5-A	263.5	71	55	83	40
GJMT5-B	279	71	70.5	83	40

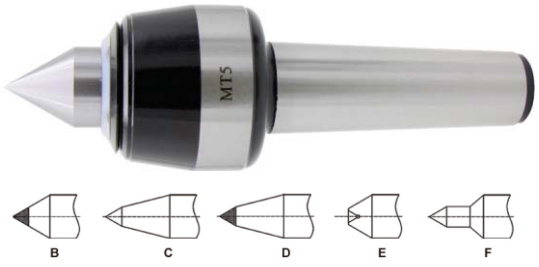
ZGJMT-Series Medium Type

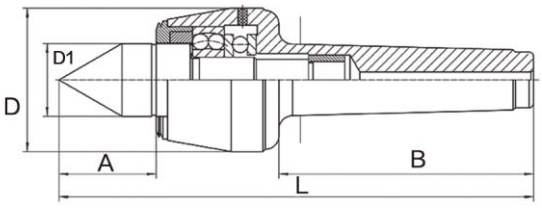
Model	L	L1	L2	D	d
ZGJMT4-A	218.5	67	40.5	63	32
ZGJMT5-A	272.5	80	55	83	40
Model	L	L1	L2	D	d
ZGJMT4-B	218.5	67	40.5	63	32
ZGJMT5-B	272.5	80	55	83	40

GJMT light series accuracy 0.003-0.005 load 400-1500KG speed 3000-5000RPM

ZGJMT Medium series accuracy 0.005-0.007 load 2000-5000KG speed 3000-4500RPM

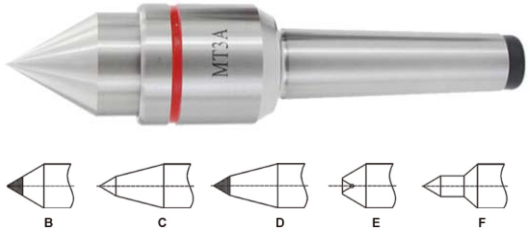
High Speed Black Type Live Centers with water-proof

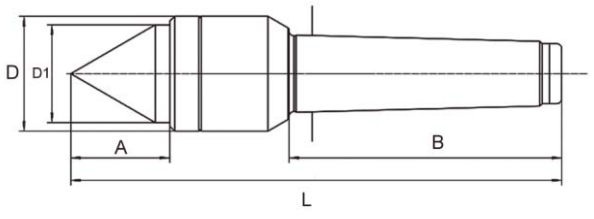




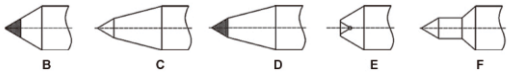
Mode	A	B	D	D1	L	Max load	Max Speed	Accuracy
MT2	28	65	46	24	140	100N	3500	0.01
MT3	38	81	59	28	170	250N	3000	0.015
MT4	45	102	64	31	198	400N	2500	0.015
MT5	52	130	78	44	245	700N	2000	0.02

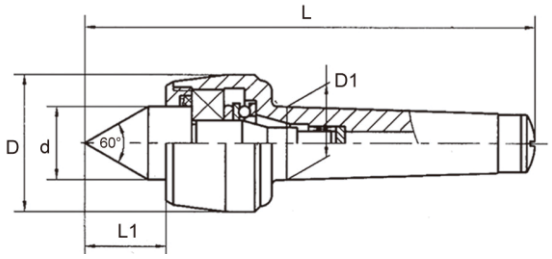
New Type Live Centers For CNC





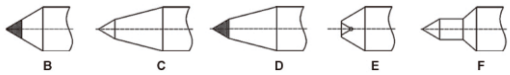
Model	A	B	C	D	D1	d	L	Max Speed
MT2A	28	35	69	32	32	—	132	5000
MT3A	36	44	86	41	41	—	166	3500
MT4A	41	51	108	47	47	—	200	3000
MT5A	54	72	136	65	65	—	262	2000

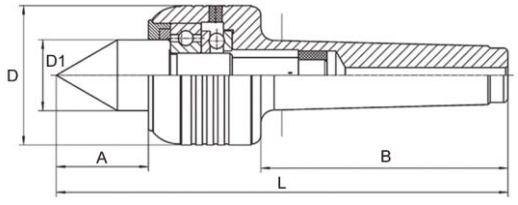




Model	L	D	L1	d	D 1	Max load	Max Speed	Accuracy
MT2	129.6	45	28.6	25	17.780	400N	5000	0.006
MT3	160.2	52	32	28	23.825	800N	4500	0.006
MT4	191.7	60	36.5	32	31.267	1250N	3500	0.006
MT5	244.5	80	50.8	45	44.399	1500N	3000	0.006

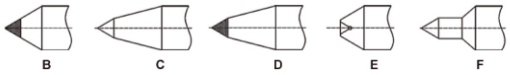
CNC Live Centers

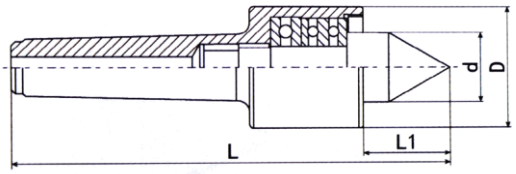




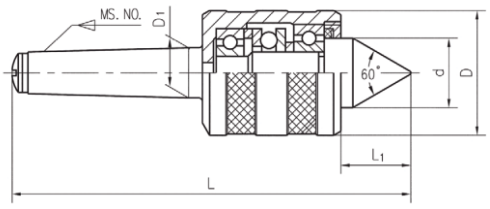
Model	A	B	D	D1	L	Max load	Max Speed	Accuracy
MT2	28	65	46	24	140	100N	3500	0.01
MT3	38	81	59	28	170	250N	3000	0.015
MT4	45	102	64	31	198	400N	2500	0.015
MT5	52	130	78	44	245	700N	2000	0.02

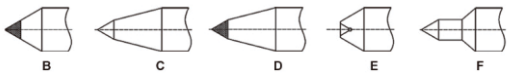
Heavy Duty Live Centers





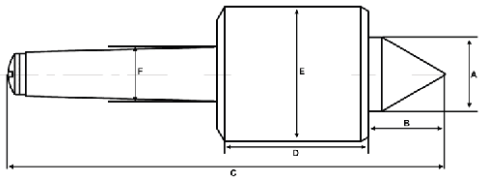
Model	L	L1	D	D1	d	Max Radial Load	Max Speed	Accuracy
MT2	145	35	46	17.780	24	1500	3000	0.01
MT3	170	36	53	23.825	27	2000	2500	0.01
MT4	207	45	60	31.267	32	3200	2000	0.01
MT5	261	55	78	44.399	46	6300	2000	0.01
MT6	362	68.5	120	63.348	63	10000	1500	0.01

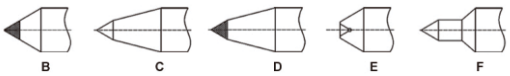




Model	MS.NO	L	L1	D	D1	Wt.
MT3	3	170	30	52	23.825	0.93
MT4	4	205.7	34.7	60	31.267	1.70
MT5	5	254	45	77	44.399	3.39

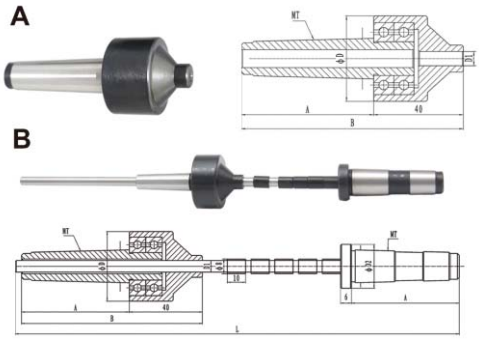
Heavy Duty Live Centers





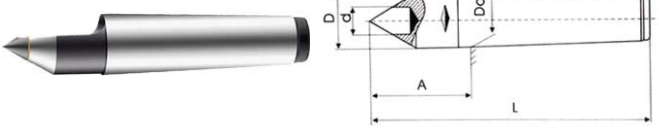
Model	A	B	C	D	E	F
MT5-1T	41	53	260	72	89	44.4
MT5-3T	47	63	278	80	104	44.4
MT5-5T	65	80	337	110	140	44.4
MT6-3T	57	70	373	104	120	63.3
MT6-5T	67	80	390	110	140	63.3
MT6-10T	71	82	414	133	160	63.3

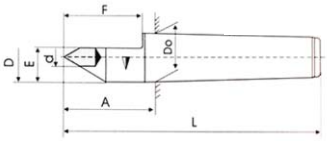
Pencil Centers



Model	A	B	D1	D
MT1	40	84	4.2 6.2	34
MT2	59	99	4.2 6.2	38

Model	L	A	B	D1	D	D2
MT1	265	40	84	4.2 6.2	34	18
MT2	285	59	99	4.2	38	24



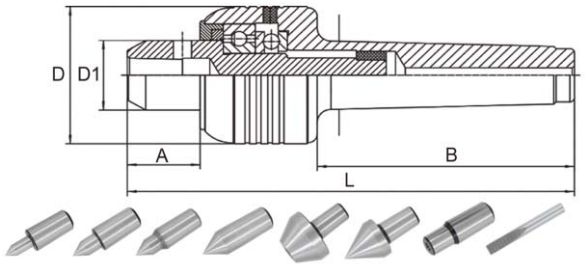


Alloy tip Non-alloy tip optional，Can be produced according to order

Model	D	L	Wt.
MT2	17.780	100	0.150
MT3	23.825	125	0.334
Model	D	L	Wt.
MT2	17.780	100	0.150
MT3	23.825	125	0.334

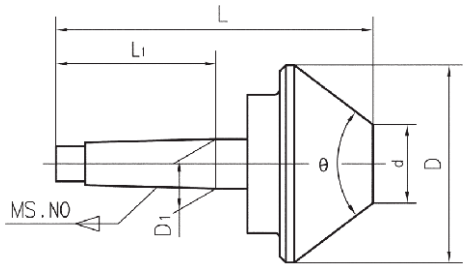
Model	D	L	Wt.
MT4	31.267	160	0.746
MT5	44.399	200	1.826
Model	D	L	Wt.
MT4	31.267	160	0.746
MT5	44.399	200	1.826

CNC Inter-Changable Tips Live Centers



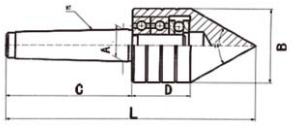
Model	A	B	D	D1	L	Max load	Max Speed	Accuracy
MT2	27	65	46	24	140	100	3500	0.01
MT3	32	81	59	28	170	250	3000	0.015
MT4	34.5	102	64	31	198	400	2500	0.015
MT5	44	130	78	44	245	700	2000	0.02

Bull Nose Live Centers



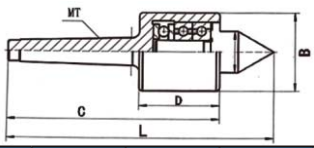
Mode	MS.NO	L	L1	D	D1	d	θ
MT2×60(60°)	MS2	132	64	60	17.780	20	60°
MT2×60(70°)	MS2	132	64	60	17.780	20	70°
MT3×80(75°)	MS3	152	81	80	23.825	19	75°
MT3×100(60°)	MS3	170	81	100	23.825	30	60°
MT3×100(75°)	MS3	164	81	100	23.825	32	75°
MT4×160(60°)	MS4	232	102.5	160	3.267	40	60°
MT4×160(75°)	MS4	225	102.5	160	31.267	35	75°
MT5×200(75°)	MS5	252	129.5	200	44.399	40	75°
MT5×250(75°)	MS5	281	129.5	250	44.399	57	75°
MT6×200(75°)	MS6	320	182	200	63.348	40	75°
MT6×250(75°)	MS6	355	182	250	63.348	57	75°

A



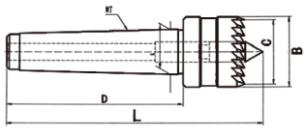
Mode	L	A	B	C	D
MT1	136	12.065	42	69	32
MT2	160	17.788	46	86	34

B



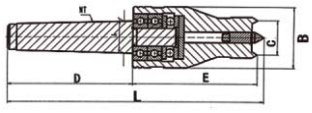
Model	L	A	B	C	D
MT1	146	12.065	40	69	43
MT2	163	17.788	40	86	43

C



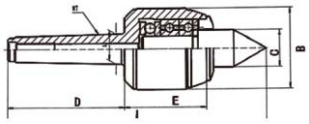
Model	L	A	B	C	D
MT1	87	12.065	22	19.05	56
MT2	100	17.788	28	25.4	69

D



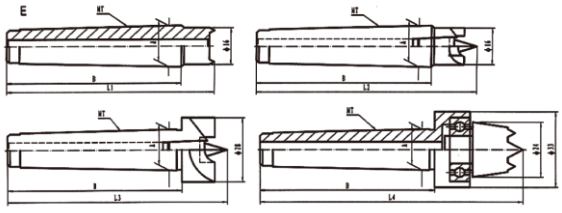
Model	L	A	B	C	D
MT1	152	12.065	48	22	69
MT2	173	17.788	58	24	86

E



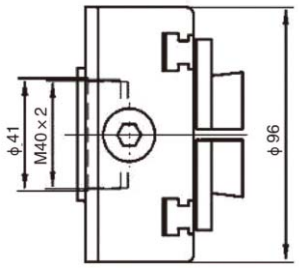
Model	L	A	B	C	D
MT1	128	12.065	34	19.05	56
MT2	141	17.788	34	19.05	69

Live Centers Sets for Wood-working Machines

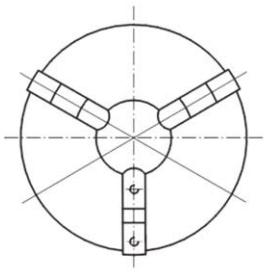


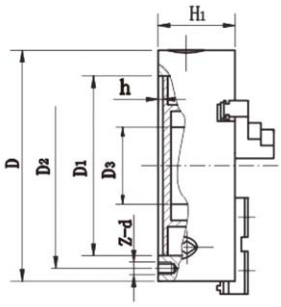
Model	L1	L2	L3	L4	A	B
MT1	69	74	74	91	12.065	56
MT2	82	87	87	104	17.78	69

Wood-working Scroll Chucks



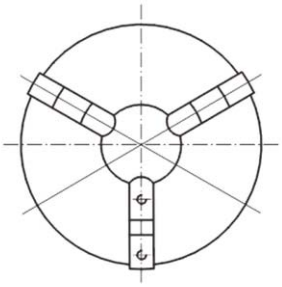
Model	Clamping	Thread Connection	Wt.
4"	8-60mm	M33×3.5;M40×2;1"-1/8TPI	2.3/3
5"	20-100mm	M33×3.5;M40×2;1"-10TPI;1"-1/4-8	4.2/5

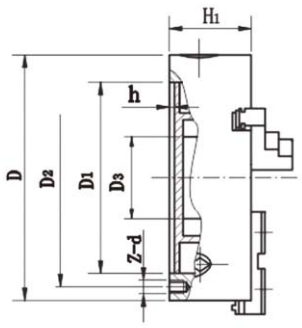




Features:
1、Short Cylindrical Center Mounting.
2、Steel body. Suitable for higher rotation speed.
3、The Structure type of jaws include one-picec and two-piece.

Size(D)	D1	D2	D3	H1	h	Z-d	Max.input torque(N.m)	Max.Speed(R/min)	Net WT.
80	55	66	16	50	3.5	3-M6	40	4000	1.9
100	72	84	22	55	3.5	3-M8	60	3500	3.2
125	95/92	108	30	58	4	3-M8	100	3000	5
130	100	115	30	60	4	3-M8	100	3000	5.6
160	130	142	45	65	5	3-M8	160	2500	8.8
165	130	145	45	66.5	4.5	3-M8	160	2500	9.5
190	155	172	55	75	5	3-M10	250	2000	13.8
200	165	180	65	75	5	3-M10	250	2000	15.5
240	195	215	70	80	5	3-M12	320	1600	24
250	206	226	80	80	5	3-M12	320	1600	25.7
250A	206	226	80	80	5	3-M12	320	1600	23.5
250C	206	226	80	80	5	3-M12	320	1600	23
315	260	285	100	90	6	3-M16	400	1200	47
315A	260	285	100	90	6	3-M16	400	1200	41
315C	260	285	100	90	6	3-M16	400	1200	40
320	270	290	100	95	11	3-M16	400	1200	47.5
320C	270	290	100	95	11	3-M16	400	1200	42
325	272	296	100	96	11	3-M16	400	1200	49
380A	325	350	135	98	6	3-M16	500	1000	62
400A	340	368	130	100	6	3-M16	500	1000	71
500A	440	465	200	115	7	6-M16	630	800	118
630A	560	595	260	130	8	6-M16	800	600	210
800A*	710	760	280	150	8	6-M20	1000	730	386
1000A*	910	950	400	165	10	6-M24	1200	600	592





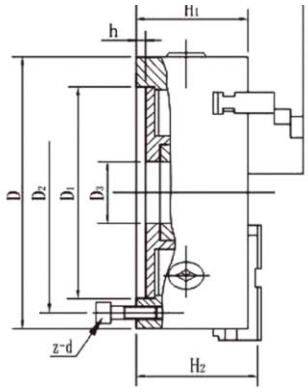
The type three/four jaw self-centering chucks are suitable for the main shaft of four Germany standard,produce according to DIN6350 or DIN55026 standard.It has front lock type as well.

DIN6350

SPEC./MODEL	D1	D2	D3	Hi	h	Z-d	Nte WT
80	56	67	16	50	4	3-M6	1.5
85	62	72	18	50	4	3-M6	1.9
100	70	83	22	55	3	3-M8	2.8
110	80	95	27	55	3	3-M8	3.4
125	95	108	30	58	4	3-M8	5
140	105	120	40	58	4	3-M8	6
160	125	140	45	65	5	3-M10	10
200	160	176	65	75	5	3-M10	17.5
250	200	224	80	80	5	3-M12	29
315	260	286	100	90	6	3-M16	50
400	330	362	130	100	6	3-M16	85

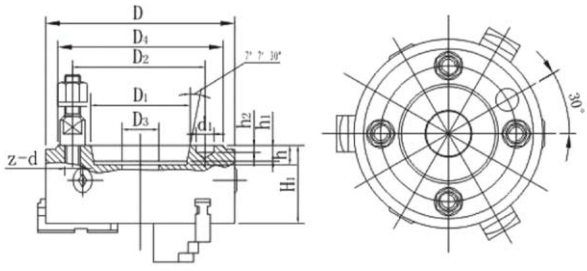
DIN55026

SPEC./MODEL	D1	D2	D3	H1	h	Z-d	Nte WT.
80	63	70	17	45	3	3×M5	1.5
100	80	90	23	52	3	3×M6	2.8
125	100	110	28	58	4	3×M8	5
160	130	143	48	62	4	3×M10	10
200	163	180	52	76	5	3×M10	17.5
250	210	226	78	82	5	3×M10	29
315	265	290	108	100	6	4xM12	50
400	350	375	144	110	7	6×M12	85
500	420	458	190	120	8	6xM16	118

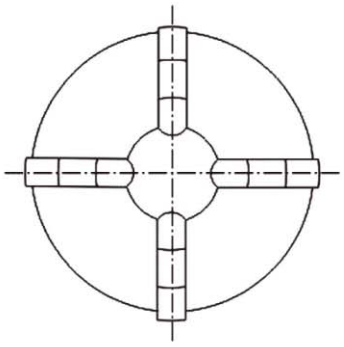


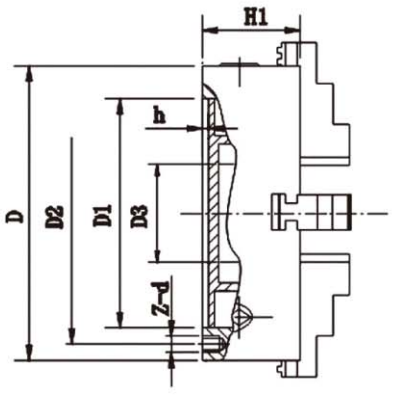
Russian Standardized 3-Jaw Self-Centering Chucks adopt short conical connection according to Standard 「OCT 2675. The jaws have one-piece and two-piece called A type. A type two-piece jaws are according to ISO 3442 Standard. Soft jaws can be provided according to the clients'requests. Highte centering accuracy can be achieved after machining.

Model	D1	D2	D3	H	H1	H2	h	Z-d
7100-0001TT	55	66	16	66	50	_	3.5	3-M6
7100-0002TT	72	86	22	74.5	55	_	3.5	3-M8
7100-0003TT	95	108	30	85	58	_	4	3-M8
7100-0005TT	130	142	40	95	65	_	5	3-M8
7100-0007TT	165	180	65	109	75	_	5	3-M10
7100-0009TT	210	226	80	120	80	_	5	3-M12
7100-0011TT	270	290	100	142.5	90	_	6	3-M12
7100-0015TT	340	368	130	155.5	100	_	6	3-M16
7100-0017TT	440	465	200	176	115	_	6	3-M16



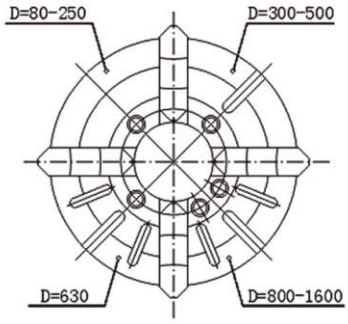
Model	D	D1	D2	D3	D4	H1	h	h1	h2	d1	Z-d
7100-0033TT	200	106.375	133.4	60	170	88	16	13	6.5	19.5	4-M12
7100-0035TT	250	106.375	133.4	70	170	95	16	13	6.5	19.5	4-M12
7100-0037TT	250	139.719	171.4	80	220	95	18	14	8	24.2	4-M16
7100-0039TT	315	106.375	133.4	100	170	112	16	13	6.5	19.5	4-M12
7100-0041TT	315	139.719	171.4	100	220	112	18	14	8	24.2	4-M16
7100-0043TT	400	139.719	171.4	130	220	122	18	14	8	24.2	4-M16
7100-0045TT	400	196.869	235	130	290	122	20	16	10	29.4	6-M20

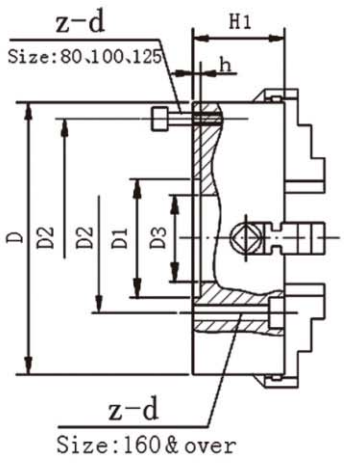




Mode K12 chucks are suitable for using in processing a large quantity of the square workpieces and The eight-edged work-pieces.They are remarkable for their automatic centring and quick clamping.The structure parameters of these chucks are the same as those of K11 series three-jaw self-centring chucks.

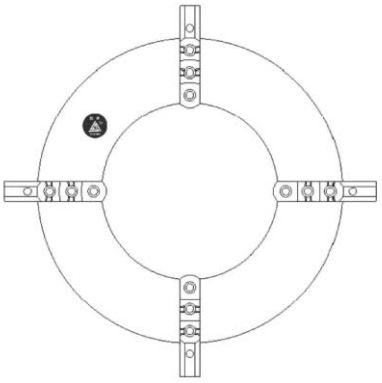
Size(D)	D1	D2	D3	H1	h	Z-d	Max.input torque (N.m)	Max.Speed (R/min)	Net WT.
80	55	66	16	50	3.5	4-M6	40	4000	1.9
100	72	84	22	55	3.5	4-M8	60	3500	3.2
125	95	108	30	58	4	4-M8	100	3000	5
130	100	115	30	60	4	4-M8	100	3000	5.6
160	130	142	45	65	5	3-M8	160	2500	8.8
165	130	145	45	66.5	4.5	3-M8	160	2500	9.5
190	155	172	55	75	5	3-M10	250	2000	13.8
200	165	180	65	75	5	3-M10	250	2000	15.5
240	195	215	70	80	5	3-M12	320	1600	24
250	206	226	80	80	5	3-M12	320	1600	25.7
250A	206	226	80	80	5	3-M12	320	1600	23.5
250C	206	226	80	80	5	3-M12	320	1600	23
315	260	285	100	90	6	3-M16	400	1200	47
315A	260	285	100	90	6	3-M16	400	1200	41
315C	260	285	100	90	6	3-M16	400	1200	40
320	270	290	100	95	11	3-M16	400	1200	47.5
320C	270	290	100	95	11	3-M16	400	1200	42
325	272	296	100	96	11	3-M16	400	1200	49
380A	325	350	135	98	6	3-M16	500	1000	62
400A	340	368	130	100	6	3-M16	500	1000	71
500A	440	465	200	115	7	6-M16	630	800	118
630A	560	595	260	130	8	6-M16	800	600	210
800A*	710	760	280	155	8	6-M20	1000	730	390
1000A*	910	950	400	165	10	6-M24	1200	600	596

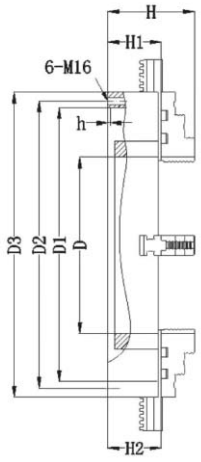




Chucks adopt short cyindrical center mounting. They are Independent and a djustable and for machining all kingds of special-shaped workpieces.

Size(D)	D1	D2	D3	H1	h	Z-d	Max.input torque (N.m)	Max.Speed (R/min)	Net WT.
50	15	38	M14x1	39	5	4-M4	10	6000	0.55
80	55	66	22	42	3.5	4-M6	25	4000	1.5
100	72	84	25	74	3.5	4-M8	30	3500	3
125	95/92	108	30	56	4.5	4-M8	50	3000	5
160	65	95	45	65	5	4-M10	70	2500	9
200	80/75	112/95	56	75	6	4-M10	100	2000	15
250	110	130	75	80	6	4-M12	150	1600	23
300	152	130	75	90	6	4-M12	180	1200	39
320	140	165	95	90	6	4-M16	200	1200	40
350	130	168	95	90	6	4-M16	250	1200	53
400	160	185	125	95	8	4-M16	280	1000	55
450	180	205	140	100	8	4-M16	300	900	71
500	200	236	160	106	8	4-M20	350	800	102
630	220	258	180	115	10	4-M20	400	600	159
800	250	300	240	135	12	8-M20	500	500	255
1000	285	330.2	280	152	23	8-M24	600	400	430
1250	285	330.2	280	156	23	8-M24	-	-	735
1400	285	330.2	280	156	23	8-M24	-	-	860
1600	285	330.2	280	168	23	8-M24	-	-	1250





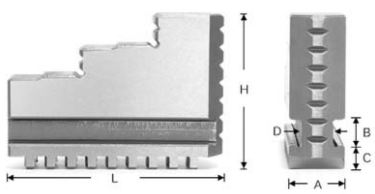
D	D1	D2	D3	H	H1	H2	h	z-d	
300	528	560	590	200	115	121	6	6-M16	50-300
400	628	660	690	200	115	121	6	6-M16	50-400
600	828	860	890	200	115	121	6	6-M16	250-600
800	1028	1060	1090	200	115	121	6	6-M16	450-800
1000	1228	1365	1400	200	115	121	6	6-M16	650-1000
1200	1428	1565	1600	200	115	121	6	6-M16	850-1200

Chuck Jaws

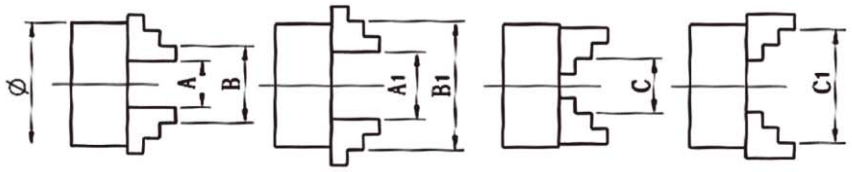
Hydraulic Chuck Jaws

Model	L	W	H	D	Center distance of screw hole	Tooth pitch	Universal chuck
4 inch	49.5	23	23	10	14	1.5*60°	4 (110)
5 inch	54	25	30	10	14	1.5*60°	5 (135)
6 inch	73	31	36	12	20	1.5*60°	6 (169)
8 inch	95	35	37	14	25	1.5*60°	8 (210)
10 inch	110	40	42	16	30	1.5*60°	10 (254)
12 inch hollow	130	50	50	21	30	1.5*60°	12 (304)
12 inch solid	130	50	50	18	30	1.5*60°	12 (304)
15 inch hollow	165	62	62	22	43	1.5*60°	15 (381)

Three-jaw Chuck Jaws

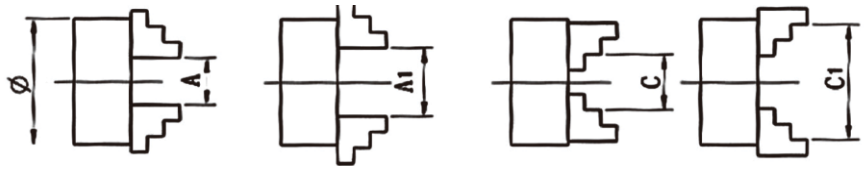


Model	A	B	C	D	H	L	Mention
80	12	7	5.5	5.2	33	32	5
100	15	8	6.4	6.6	38	42	6
125/130	16	8	6.9	7.5	45	57.3	7
160	18.5	10	9	8.4	54	70	7
200	22	10	10	12.3	6	85	9
250	27	10	12	16	69	105	9
320	36	13	14	22	88	125	10
400	36	13	14	23	88	125	11

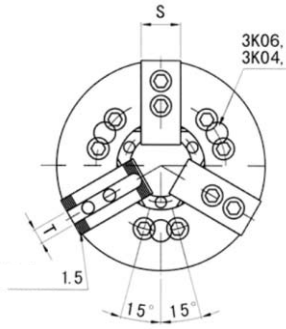


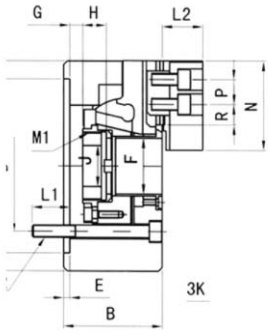
Size	Internal Jaw		External Jaw
	Clamping Range	Jamming Range	Clamping Range
	A-A1	B-B1	C-C1
80	2-22	25-70	22-63
100	2-30	30-90	30-80
125	2.5-40	38-125	38-110
160	3-55	50-160	55-145
200	4-85	65-200	65-200
250	6-110	80-250	90-250
315	10-140	95-315	100-315
400	15-210	120-400	120-400
500	25-280	150-500	150-500
630	50-350	170-630	170-630
800	150-450	300-800	300-800
1000	290-600	430-1000	430-1000

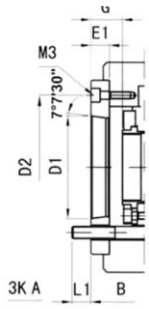
Indenpendent Chuck Clamping Range



Size	Internal Jaw	External Jaw
	Clamping Range	Clamping Range
	A-A1	C-C1
80	5-35	35-80
100	6-45	40-100
125	7-57	48-125
160	8-80	50-160
200	10-100	63-200
250	15-130	80-250
315	20-170	100-315
400	25-250	118-400
500	35-300	120-500
630	50-400	160-630
800	70-540	200-800
1000	100-680	250-1000
1250	120-930	280-1250







Hollow design can be used for long workprece processing.It boasts sound accuracy for positioning repetition,sound clamp force and suitability for automatic production.

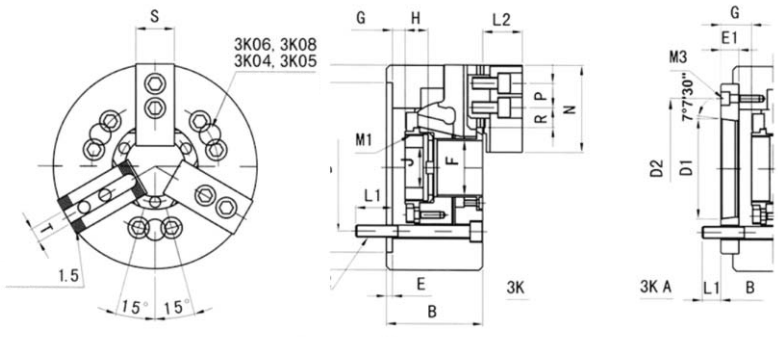
Performance Parameters

Specification		A	B		C(H6)	D	D1	D2	E	E1	F	G				H	J
												max		min			
3K-04		110	59		85	70.6			4		26	3.5		-6.5		17.5	12
3K-05	A4	135	60	71	110	82.6	63.51	96		15	33	1	16	-9	6	20	
3K-06	A5	169	81	91	140	104.8	82.56	116	5		45	11	26	-1	14	19	20
3K-08	A5	210	91	109	170	133.4		140.8		23	52	14.5	37.5	-1.5	21.5	20.5	30
	A6			103			106.38	150		17			31.5		15.5		
3K-10	A6	254	100	120	220	171.4		133.4		25	75	8.5	33.5	-10.5	14.5	25	45
	A8			113			139.72	190		18			26.5		7.5		
3K-12	A8	304	120	137	220	171.4	139.72	190	5	22	92	23	45	0	22	32	

specification		L1		L2	M1	M2	M3	N	P	R		S	T
										max	min		
3K-04		16		24	M32*1.5	3-M10		52	14	11.3	6.8	25	10
3K-05	A4	15	15	31	M40*1.5		3-M6	62		19.8	7.8		
3K-06	A5	16	16	37	M55*2	3-M10		73	20	22.8	9.3	31	12
3K-08	A5	20	17	38	M60*2	3-M12	6-M10	95	25	29.8	14.8	35	14
	A6		18				3-M6						
3K-10	A6	22		43	M85*2	6-M16	6-M12		30	33.8	14.3	40	16
	A8		24				3-M8						
3K-12	A8	38	30	52	M100*2	6-M16	6-M10		30	21.2	15.9	50	18

Performance Parameters

Specification		mm Wedge core travel	mm Jaw stroke t (Diameter)	KN(kgf) Permitted push-pull force	KN(kgf) Max.gripping force KN(kgf)	r/min Limited rotating speed (r/min)	mm Clamping range	Inertia Kg.m²	k g Net weight		Recommended oil cylinde	MPa(kgf) Max.application pressure
3K-04		10	5.4	13.7(1400)	28.4(2900)	8000	1-110	0.01	4		KY-428	2.3(23)
3K-05	A4			17.1(1750)	35.8(3650)	7000	12-135	0.02	6.7	7.5	KY-536	2.9(29)
3K-06	A5	12	5.5	21.5(2200)	56.8(5800)	6000	15-168	0.06	11.9	13.7	KY-646	2.8(28)
3K-08	A5	16	7.4	34.3(3500)	85.8(8750)	5000	13-210	0.18	22.5	25.4	TK-852	2.8(28)
	A6									23.6		
3K-10	A6	17	8.8	42.6(4380)	110.7(11300)	4200	31-254	0.33	34.5	41.5	KY-1075	2.7(27)
	A8									40		
3K-12	A8	23	10.6	54(5510)	140.4(14326)	3200	35-304	0.42	58.5		P2091	2.6(27)



It boasts sound accuracy for positioning repetition,sound clamp forceand suitability for automatic production.

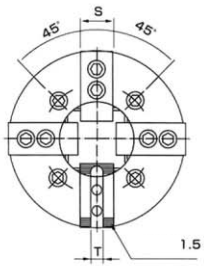
Performance Parameters

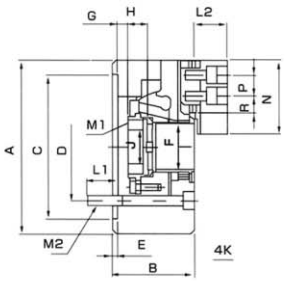
Specification		A	B		C (H6)	D	D1	D2	E	E1	F	G max	G min		H	J
3S-04		110	52		60	80	—	—	6	—	—	18	3		25	26
3S-15		135	55		80	100			7			9	-6		35	28
3S-16	A5	165	74	84	140	104.8	82.56	116	5	15	21	101.5	86.5	81.5	66.6	34
3S-08	A5	210	85	103	170	133.4		104.8		23	25	127	104	106	83	38
	A6			97			106.38	150		17			110		89	
3S-10	A6	254	89	109	220	171.4		133.4		25	34	158	133	133	108	45
	A8			102			139.72	190		18			140		115	
3S-12	A6	304	106	125	220	171.4	106.38	133.4	6	25	34	163	138	133	108	50
	A8			118			139.72	190		18			145		115	

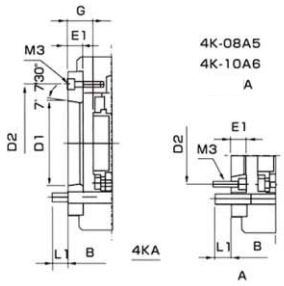
Specification		L1		L2	M1	M2	M3	N	P	R max	R min	S	T
3S-04		12		F	M10*1.5	3-M8		52	14	11.3	8.3	25	10
3S-15		14		32	M12*1.75			62		13.5	6		
3S-16	A5	14	14	39	M16*2	3-M10	3-M6	73	20	18	7.5	1	12
3S-08	A5	20	17	41	M20*2.5	3-M12	6-M10	95	25	22.3	11.8	35	14
	A6		18				3-M6						
3S-10	A6	18		46		6-M16	6-M12	110	30	30.8	11.3	40	16
	A8		25				3-M8						
3S-12	A6	18	18	51	M20*2.5	6-M16	6-M12	130	30	48.8	12.3	50	18/21
	A8		25				3-M8						

Performance Parameters

Specification		mm Wedge core travel	mm Jaw stroke t (Diameter)	KN(kgf) Permitted push-pull force	KN(kgf Max.gripping force KN(kgf)	r/min Limited rotating speed(/min)	mm Clamping range	Inertia Kg.m²	kg Net weight		Recommended oil cylinde	MPa(kgf) Max.application pressure
3S-04		15	6.4	8.1(830)	22.5(2300)	6000	5-110	0.01	4.1		SY-80	2.2(22)
3S-15					25(2550)	5500	14-135	0.02	6.2		SY-80/SQ-130	
3S-16	A5	20	8.5	17.9(1830)	52.4(5350)	5250	14-165	0.05	13	14	SY-100	3.0(30)
3S-08	A5	21	8.8	25(2550)	74.5(7600)	4750	17-210	0.14	24	28	SY-125	2.6(26)
	A6									27		
3S-10	A6	25	8.8	28.9(2950)	107.8(11000)	4000	22-254	0.30	35	42	SY-125 SQ-170B	3.0(30)
	A8									40		
3S-12	A6	30	10.5	41(4180)	155.8(15900)	3360	22-304	0.73	59	65	SY-150	3.0(30)
	A8									63		







The Product,solid and durable,can operate smoothly at high speed.It boasts sound accuracy for positioning repetition,sound clamp force and suitability for automatic production.It is especially suitable for clamping atypical work pieces.The through-hole type is designed to process long work pieces.

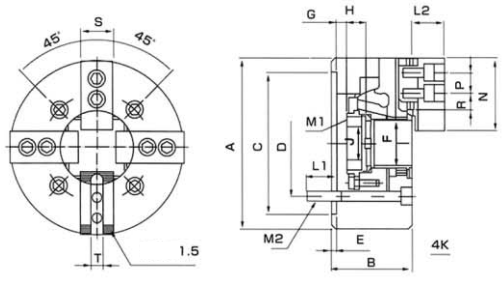
Performance Parameters

Specificatior		A	B		C (H6)	D	D1	D2	E	E1	F	G				H	J
												max		min			
4K-06	A5	169	81	91	140	104.8	82.56	116	5	15	45	11	26	-1	14	19	20
4K-08	A5	210	91	109	170	133.4		104.8		23	52	14.5	37.5	-1.5	21.5	20.5	30
	A6			103			106.38	150		17			31.5		15.5		
4K-10	A6	254	100	120	220	171.4		133.4		25	75	8.5	33.5	-10.5	14.5	25	45
	A8			113			139.72	190		18			26.5		7.5		

Specification		L1		L2	M1	M2	M3	N	P	R		S	T
										max	min		
4K-06	A5	16	16	37	M55*2	6-M10	3-M6	73	20	22.8	9.3	31	12
4K-08	A5	20	17	38	M80*2	4-M12	6-M10	95	25	29.8	14.8	35	14
	A6		18				3-M6						
4K-10	A6	22		43	M82*2	4-M16	6-M12	110	30	33.8	14.3	40	16
	A8		24				3-M8						

Performance Parameters

Specification		mm Wedge core travel	mm Jaw stroke t (Diameter)	KN(kgf) Permitted push-pull force	KN(kgf) Max.gripping force KN(kgf)	r/min Limited rotating speed (c/min)	mm Clamping range	Inertia $Kg.m^2$	kg Net weight		Recommended oil cylinde	MPa(kgf) Max. application pressure
4K-06	A5	12	5.5	21.5(2200)	56.8(5800)	6000	15-168	0.06	11.9	13.7	KY-646	2.8(28)
4K-08	A5	16	7.4	34.3(3500)	85.8(8750)	5000	13-210	0.18	0.18	25.4	TK-852	2.8(28)
	A6									23.6		
4K-10	A6	19	8.8	42.6(4380)	110.7(11300)	4200	31-254	0.33	0.33	41.5	KY-1075	2.7(27)
	A8									40		



The Product,solid and durable,can operate smoothly at high speed.It boasts sound accuracy for positioning repetition,sound clamp force and suitability for automatic production.It is especially suitable for clamping atypical work pieces.

Performance Parameters

Specification		A	B		C (H6)	D	D1	D2	E	E1	F	G max		G min		H	J
4S-06	A5	169	74	84	140	104.8	82.56	116	5	15	21	101.5	86.5	81.5	66.6	36	34
4S-08	A5	210	85	103	170	133.4		104.8		23	25	127	104	106	83		38
	A6			97			106.38	150		17			110		89		
4S-10	A6	254	89	109	220	171.4		133.4		25	34	158	133	133	108		45
	A8			102			139.72	190		18			140		115		

Specification		L1		L2	M1	M2	M3	N	P	R max	R min	S	T
4S-06	A5	14	16	39	M16*2	4-M10	3-M6	73	20	18	7.5	31	12
4S-08	A5	20	17	41	M20*2.5	4-M12	6-M10	95	25	22.3	11.8	35	14
	A6		18				3-M6						
4S-10	A6	18		46		4-M16	6-M12	110	30	30.8	11.3	40	16
	A8	工0	24				3-M8						

Performance Parameters

Specification		mm Wedge core trave	mm Jaw stroke t (Diameter)	KN(kgt) Permitted push-pull force	KN(kgt) Max.gripping force KN(kgf)	r/min Limited rotating speed(c/min)	mm Clamping range	Inertia Kg.m²	kg Net weight		Recommended oil cylinde	MPa(kgt) Max. application pressure
4S-06	A5	20	9.2	17.9(1830)	52.4(5350)	5250	14-165	0.05	13	14	SY-100	3.0(30)
4S-08	A5	21	9.7	25(2550)	74.5(7600)	4750	17-210	0.14	24	28	SY-125	2.6(26)
	A6									27		
4S-10	A6	25	8.8	28.9(2950)	107.8(11000)	4000	22-254	0.3	35	42	SQ-170B	3.0(30)
	A8									40		0.6(6)

Type A

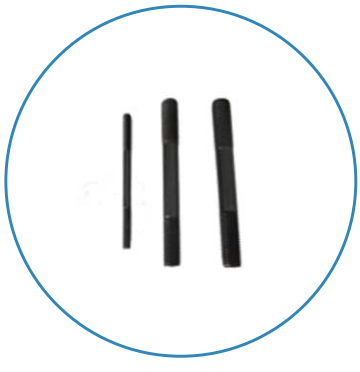
Type B

Step Blocks 12Pcs

Step Clamps 6Pcs

T-Nuts 6Pcs

Flange Nuts 6Pcs



Studs 24Pcs

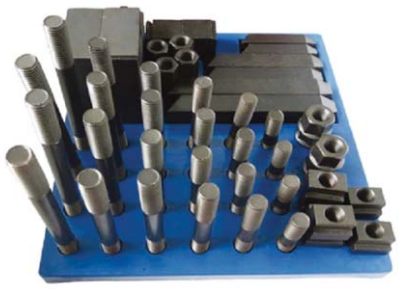
Coupling Nuts 4Pcs

Material: S45C;

Hardness: HRC20±;

Heat treated steel black oxide finish.

The set contains 58Pcs;



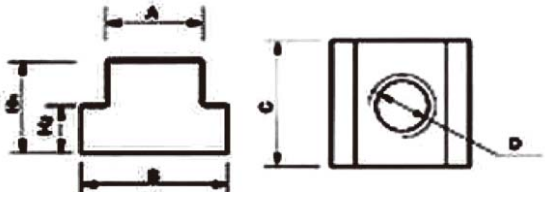
M18-M24

Model	Taiwan Code	Table Slot	Stud Sizes	G.W.	GB
M8	CK-08	10	8-1.25P	7	
M10	CK-10	12	10-1.25P	9	3/8-16
M12	CK-12	14	12-1.75P	10	1/2-12
M14	CK-14	16	14-2.0P	11	
M16	CK-16	18	16-2.0P	13	5/8-11
M18	CK-18	20	18-2.5P	25	
M20	CK-20	22	20-2.5P	26	3/4-10
M24	CK-24	28	24-3.0P	38	

Mounting Kits For Wood-working Machines

Metric	Taiwan Code	Table Slot	Stud Size	Wt.
M8	CK-08	10	8-1.25P	6.1
M10	CK-10	12	10-1.25P	7.09
M12	CK-12	14	12-1.25P	8.6

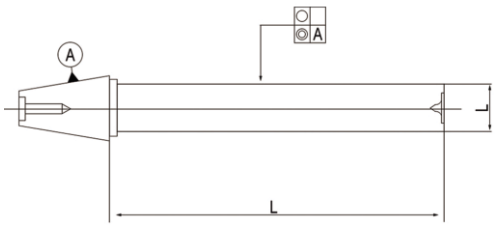
T-Nuts



D	A	B	C	H1	H2
M8	10	15	15	12	6
M10	12	18	20	14	7
M12	14	22	25	16	8
M14	16	25	25	16	10
M16	18	29	30	19	10.5
M18	20	34	34	28	14
M20	22	34	34	28	14
M22	24	40	40	28	15
M24	28	44	44	36	18

BT

HSK



Model	D	L	Cylindricity	Concentricity
BT30-D32-250	32	250	0.002	0.003
BT40-D40-300	40	300	0.002	0.003
BT50-D40-300	40	300	0.002	0.003
BT50-D40-350	40	350	0.002	0.003

Model	D	L	Cylindricity	Concentricity
HSK32A/E-D25-200	25	200	0.002	0.003
HSK40A/E-D30-200	30	200	0.002	0.003
HSK50A/E-D30-250	30	250	0.002	0.003
HSK63A/E-D40-300	40	300	0.002	0.003
HSK100A/E-D50-300	50	300	0.002	0.003

Tool Holder Devices

BT Series Harden Locking Devices

Model	Applicable holders
ZZ-BT30	MAS403-BT30
ZZ-BT40	MAS403-BT40
ZZ-BT50	MAS403-BT50

Locking Devices With Bearings

Model	Applicable holders
BD-HSK32	HSK32A/32E
BD-HSK40	HSK40A/40E
BD-HSK50	HSK50A/50E
BD-HSK63	HSK63A/F
BD-HSK100	HSK100

BT Series Aluminum Harden Locking Devices

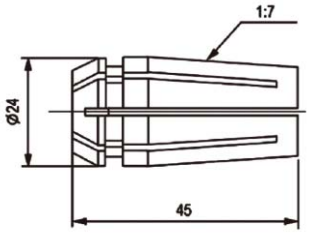
Model	Applicable holders
BT30	MAS403-BT30
BT40	MAS403-BT40

Tool Holder Tightening Fixture

Applicable holders
MAS403-BT30
MAS403-BT40
MAS403-BT50

Grain type	Wheel(mm)	Size(mm)
Stralght grain	19	0.5-0.6-0.8-1.0-1.2-1.6-2.0mm
	28	0.3-0.4-0.5-0.6-0.8-1.0-1.2-1.5-1.6-1.8-2.0-2.2-2.5-3.0mm
Net grain	19	0.5-0.6-0.8-1.0-1.2-1.6-2.0mm
	26	0.3-0.4-0.5-0.6-0.8-1.0-1.2-1.5-1.6-1,8-2.0-2.2-2.5-3.0mm

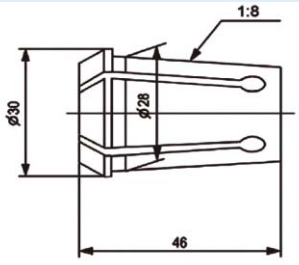
J7316A Collets & Chuck Set



Collets Taper 1 : 7

Model	Hole Sizes		PCS/Set	Shank Sizes	Wt.
	mm	Inch			
J7316A/NT30	4,5,6,8,10,12,14,16	1/" 3/16" 1/4" 5/16" 3/8" 1/2" 9/16" 5/18"	8	NT30	3.373
J7316A/NT40				NT40	3.708
J7316A/MT2				MT2	3.52
J7316A/MT3				MT3	3.752
J7316A/MT4				MT4	4.646

J7316B Collets & Chuck Sets



Model	Hole Sizes		PCS/Set	Shank Sizes	Wt.
	mm	Inch			
J7316B/MT2	4	1/8"	8	MT2	3.52
J7316B/MT3	5	3/16"		MT3	3.752
J7316B/MT4	6	1/4"		MT4	4.646
J7316B/NT30	8	5/16"		NT30	3.373
J7316B/NT40	10	3/8"		NT40	3.708
J7316B/1"	12	1/2"		1"	3.80
J7316B/1-1/4"	14	9/16"		1-1/4"	4.506
J7316B/R8	16	5/18"		R8	3.58

83 Type Heavy Duty Bench Vices With Anvil Swivel Base

Model	Size	Width of jaw	QTY/Case	G.W./N.W.
8303	3"	75	4	28/26
8304	4"	100	2	23/22
8305	5"	125	1	20/19
8306	6"	150	1	30/29
8308	8"	200	1	44/42
8310	10"	250	1	70/62
8312	12"	300	1	75/69

83 Type Heavy Duty Bench Vices With Anvil Stationary Base

Model	Size	Width of jaw	QTY/Case	G.W./N.W.
8323	3"	75	4	22/20
8324	4"	100	2	22/20
8325	5"	125	1	18/17
8326	6"	150	1	28/26
8328	8"	200	1	42/40

83 Type Heavy Duty Bench Vices Without Anvil Swivel Base

Model	Size	Width of jaw	QTY/Case	G.W./N.W.
8353	3"	75	4	24/22
8354	4"	100	2	22/20
8355	5"	125	1	18/17
8356	6"	150	1	28/26
8358	8"	200	1	42/40

83 Type Heavy Duty Bench Vices Without Anvil Stationary Base

Model	Size	Width of jaw	QTY/Case	G.W./N.W.
8363	3"	75	4	24/22
8364	4"	100	2	22/20
8365	5"	125	1	18/17
8366	6"	150	1	28/26
8368	8"	200	1	42/40

89 Type Light Duty Bench Vices With Anvil Swiveak Base

Model	Size	Width of jaw	QTY/Case	G.W./N.W.
8903	3"	75	4	20/18
8904	4"	100	4	30/28
8905	5"	125	2	28/26
8906	6"	150	1	21/20
8908	8"	200	1	31/30
8910	10"	250	1	46/44

89 Type Light Duty Bench Vices With Anvil Stationary Base

Model	Size	Width of jaw	QTY/Case	G.W./N.W.
8924	4"	100	4	30/28
8925	5"	125	2	28/26
8926	6"	150	1	21/20
8928	8"	200	1	31/30

89 Type Light Duty Bench Vices With Anvil Stationary Base

Model	Size	Width of jaw	QTY/Case	G.W./N.W.
8954	4"	100	4	30/28
8955	5"	125	2	28/26
8956	6"	150	1	21/20
8958	8"	200	1	31/30

89 Type Light Duty Bench Vices Without Anvil Stationary Base

Model	Size	Width of jaw	QTY/Case	G.W./N.W.
8964	4"	100	4	22/20
8965	5"	125	2	22/20
8966	6"	150	1	18/17
8968	8"	200	1	26/25

96 Type Super Light Duty Bench Vices With Anvil Swivel Base

Model	Size	Width of jaw	QTY/Case	G.W./N.W.
9604	4"	100	4	22/20
9605	5"	125	2	17/15
9606	6"	150	1	12/11
9608	8"	200	1	24/22

96 Type Super Light Duty Bench Vices With Anvil Stationary Base

Model	Size	Width of jaw	QTY/Case	G.W./N.W.
9624	4"	100	4	22/20
9625	5"	125	2	17/15
9626	6"	150	1	12/11
9628	8"	200	1	24/22

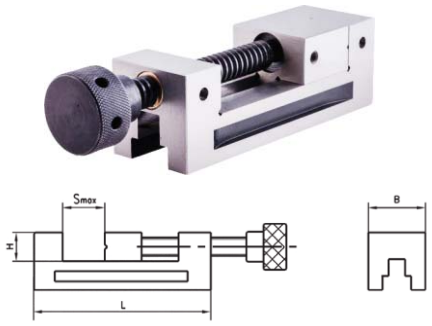
93 American Type Bench Vices With Anvil Swivel Base

Model	Size	Width of jaw	QTY/Case	G.W./N.W.
9303	3.5"	875	6	30/27
9304	4"	100	4	21.5/19

95 American Type Bench Vices With Anvil Swivel Base

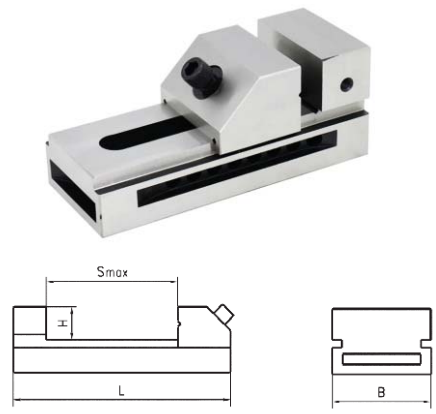
Model	Size	Width of jaw	Max.Opening	QTY/ Case	G.W./N.W.
9504	4"	100	127	2	28/26
9505	5"	125	152	2	19/18
9506	6"	150	178	1	29/27

QGG Precisiion Tool Vices



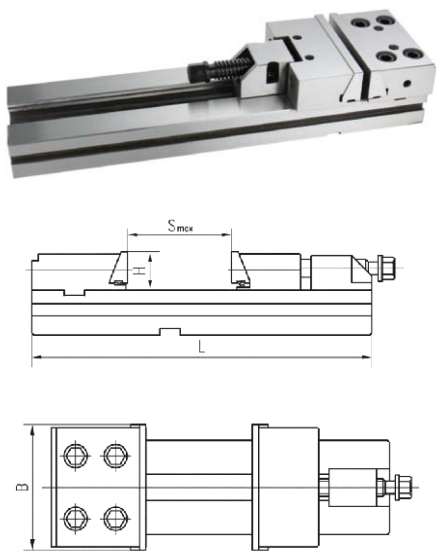
Model	B	H	Smax	L	Wt(kg)
QGG50	50	25	65	155	3
QGG60	60	25	55	110	2.4
QGG63	63	32	85	190	3.8
QGG73	73	35	100	210	5
QGG80	80	40	100	220	6.5
QGG88	88	40	125	250	11
QGG100	100	45	125	260	13
QGG125	125	50	160	300	19.5
QGG125A	125	50	210	350	23
QGG150	150	50	175	315	23.8

QKG Precision Tool Vices



Model	B	H	Smax	L	Wt(kg)
QKG25	26	9.15	22	65.4	0.5
QKG50	50	25	65	140	2
QKG63	63	32	85	175	3
QKG73	73	35	100	190	4.1
QKG80	80	40	100	200	5.5
QKG88	88	40	125	235	7.3
QKG100	100	45	125	245	10
QKG125	125	50	160	285	18
QKG150	150	50	200	330	21.5

GT Precision Moldular Vices



Model	B	H	Smax	L	(Kg)Clamping force
GT100	100	30	100	270	3000
GT125	125	40	150	345	3000
GT150A	150	50	200	420	5000
GT150B	150	50	300	520	5000
GT150C	150	50	400	620	5000
GT175A	175	60	200	455	6000
GT175B	175	60	300	555	6000
GT175C	175	60	400	655	6000
GT175D	175	60	500	755	6000
GT175E	175	60	600	855	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	80	200	535	12000
GT300B	300	80	300	635	12000
GT300C	300	80	400	735	12000
GT300D	300	80	500	835	12000
GT300E	300	80	600	935	12000
GT300F	300	80	700	1035	12000
GT300G	300	80	800	1135	12000

QHK Declinable Machine Vices(QHK=Q41)

Performance and characterist:
○ 1. It is made of high-quality cast iron
○ 2. Parallelism 0.025mm/100mm,squareness 0.025mm
○ 3. The wice body can be indexed through 90 degrees in vertical direction along large arcshaped guideway of swivel disc which can be indexed through 360degrees in horizontal direction on the base
○ 4. It is widely used on machine tool in making some kinds of slots,holes and faces

Model	Width of Jaw	Height of Jaw	Max.Opening	GW./NW.
QHK100	100	41	80	18\17
QHK125	125	45	95	28\27
QHK125L	125	45	140	31\29
QHK160	160	50	125	40\39

QW Universal Machine Vices

Performance and characterist:
1. It is made of high-quality cast iron
2. Parallelism 0.025mm/100mm,squareness 0.025mm
3. Attained fitting with a stop in three way,by using such sircling delinable structure asvice body,two way body and sliding base
4. It is used on machining and EDM complex parts

Model	Width of Jaw	Height of Jaw	Max.Opening	GW./NW.
QW100	105	40	105	26/25
QW125	125	44	125	27/26

Q93 Double-action Angle Tight Vices

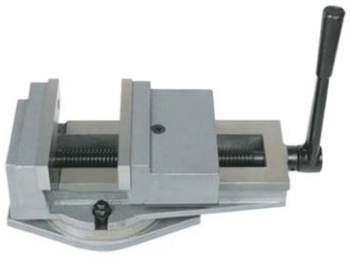
Performance and characterist:
1. It is made of spheroidal cast iron
2. The hardness of woaking surface is HRC50 ~ 60
3. The vice with angle locked vice can prevent workpieces rising during operation
4. It is possessed of two clamping positions.two workpieces of same sixe or of different sixe can be clamped whith it the vice is also able to ciamp two same workpieces which are clamped in different positions and p rocessed in diffe rent surfaces

Model	Width of Jaw	Height of Jaw	Max.Opening	GW./NW.
Q93100	100	35	76	15/14
Q93160	160	50	100	37/36

Erformance and character
○ It is made of ductile cast iron(HT200)
○ The accuracy of vice is parallelism at 0.025mm/100mm and squareness at 0.025.
○ It is widely used on milling and drilling machine for making some kinds of slots, holes and faces

Model	Width of Jaw	Height of Jaw	Max.Opening	GW./NW.
QH80	80	32	63	30\28
QH100	100	35	80	45\44
QH125	125	40	100	18\17
QH160	160	52	125	34\33
QH200	200	63	160	45\44

QB Planning Machine Vices(QB=Q13)



Performance and character
○ It is made of ductile cast iron(HT200)
○ The accuracy of vice is parallelism at 0.025mm/100mm and squareness at 0.025
○ The vice can be used with single or settled side by side on the machine Worktable
○ It is widely used on machining center and other precision machine

Model	Width of Jaw	Height of Jaw	Max.Opening	GW./NW.
QB135	135	36	170	17/16
QB160	160	51	180	27/26
QB200	200	64	220	38/37
QB250	250	64	280	56/54
QB320	320	81	360	81/79

Qm16 Accu-lock Machine Vices

Performance and character
○ It is made of ductile cast iron(HT200)
○ The accuracy of vice is parallelism at 0.025mm/100mm and squareness at 0.025.
○ The vice can be used with single or settled side by side on the machine Worktable.
○ It is widely used on machining center and other precision machine.

Model	Width of Jaw	Height of Jaw	Max.Opening	GW./NW.
QM16100	100	32	100	17/16
QM16125	125	40	125	21/20
QM16160	160	45	150	36/35
QM16200	200	50	190	58/56

QM16N Accu-lock Precision Machine Vices

Erformance and character
- ○ It is made of ductile cast iron(HT200)
- ○ The accuracy of vice is parallelism at 0.025mm/100mm and squareness at 0.025
- ○ The vice can be used with single or settled side by side on the machine Worktable
- ○ It is widely used on machining center and other precision machine

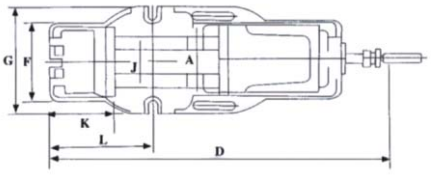
Model	Width of Jaw	Height of Jaw	Max.Opening	GW./NW.
QM16100N	100	32	100	113/12
QM16160N	160	45	160	29/28

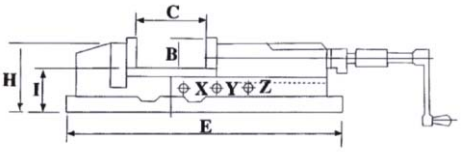
Q52 Hydraulic Power Machine Vices

Performance and character
- ○ 1.It is made of ductile cast iron(HT200)
- ○ 2.The accuracy of vice is parallelism at 0.025mm/100mm and squareness at 0.025

Model	Width of jaw(mm)	Height of jaw(mm)	Max.opening(mm)	G.W./N.W.(kg)	Packing volume (cm)	Packing shape
Q52400	400	85	430	430	83x48x30	纸箱 carton
Q52320	320	81	345	105/103	71x37x26	纸箱 carton
Q52150	152	52	320	44/42	66x26x17	纸箱 carton

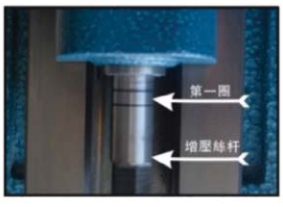
Built-in Hydraulic Vises



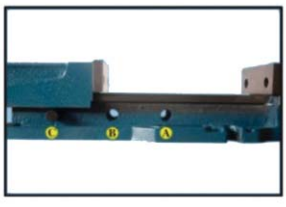


Model	A	B	C	D	E	F	G	H	I	J	K	L	Weight	Power	
HP-5	125	46	220	670	540	165	185	118	72	97	117	185	33KG	3500	655x190x225
HP-6	150	51	300	800	620	200	240	133	82	116	125	247	50KG	4500	760x190x215
HP-8	200	62	300	900	700	240	280	162	100	160	160	266	70KG	6500	820x230x220

- ○ Purpose: Built-in hydraulic vise is suitable for general milling machine, CNC vertical integrated machining center, maximum opening can clamp 300mm
- ○ Features: As long as you shoot with your hand, you will have a ton of clamping force after two turns.

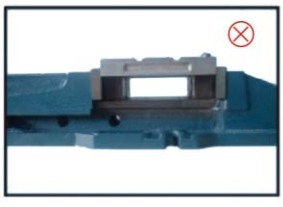


In order to increase the service life of the vise, please advance the pressurized screw to the first lap or properly pressurize



Remember the three small holes ABC, open each time Increase by 100mm, aim at the inner tooth seat Otherwise you will get stuck

It is not easy to be clamped, such as the thin heart tube easily Flat, pressurized screw into the first circle or suitable When pressurized



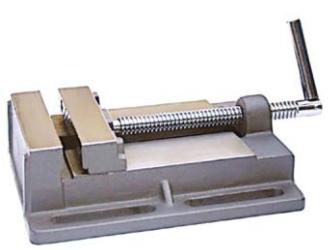
It is not easy to be clamped. For example, the aluminum sheet is easy to flatten. The area to be clamped should be a little more. Supported

Model	Width of Jaw	Max.Opening	G.W./N.W.
Q1975	75	50	23/21(10PCS)
Q19100	100	75	36/34(10PCS)
Q19125	125	100	25/23(5PCS)
Q19150	150	125	32/30(5PCS)
Q19200	200	175	24/23(2PCS)

Q19E Gulid-Screw Leading-in Drilling Vices

Model	Width of Jaw	Max.Opening	G.W./N.W.
Q1985E	85	60	22/21(10PCS)
Q19100E	100	75	35/33(10PCS)
Q19120E	120	100	24/22(5PCS)
Q19150E	150	125	32/30(5PCS)

Q19A American Type Drilling Machine Vices



Model	Width of Jaw	Max.Opening	G.W./N.W.
Q192-1/2A	67	70	21/19(10PCS)
Q193A	78	78	24/22(10PCS)
Q194A	100	110	33/32(10PCS)
Q195A	125	128	22/21(5PCS)
Q196A	150	150	22/21(5PCS)

SY Arbor Presses

Model	Width of Jaw	KN	Max.Opening	G.W./N.W.
0.5T	5	500	100	30/28
1T	10	1000	125	28/26
2T	20	2000	150	21/20
3T	30	3000	200	31/30
5T	50	5000	430	176/154

parameter name	parameter
Model:	AC-500
main motor power:	90W
Speed range:	0-190
Maximum speed:	190RPM
Maximum torque:	380
Power requirements:	AC11V
Applicable Model:	
Project includes:	X Y Z AL-500

Pb150 Parallel Blocks

1.Hardeness: HRC55 ~ 62 2.Accuracy: 0.01mm 3.Parallelism: 0.005mm

Model	L×W×H	Pcs
PB150-1	150×10×14(16,18,20,22,24,26,28,30,32,35,40,45,50)	14×2
PB150-2	150×8×14 (16,18,20,2224,26,28,30,32,35,40,45,50)	14×2
PB150-3	80x4x14 (16,18,20,22,24,26,28,30,332,35,40,45,50)	14×2
PB150-4	200×10×14 (16,18,20,22,24,26,28,30,32,35,40,45,50)	14×2

PB151 Parallel Blocks

1.Hardeness: HRC55 ~ 62 2.Accuracy: 0.01mm 3.Parallelism: 0.005mm

Model	L×W×H	Pcs
PB151-1	100×4×10(14,18,22,26,30,34,38,42)	9×2
PB151-2	160×4×10(14,18,22,26,30,34,38,42)	9×2
PB151-3	150×8.5×14(16,20,24,30,32,40,44)	9×2
PB151-4	150×10×14(16,2s0,24,30,32,36,40,44)	9×2

1.Hardeness: HRC55 ~ 62 2.Accuracy: 0.01mm 3.Parallelism: 0.005mm

Model	LxW×H	Pcs
PB153-1	125×8×11(16,21,26,31,36)	24×2
	125×10×13(18,23,28,33,38)	
	125×12×15(20,25,30,35,40)	
	125×14×17(22,27,32,37,42)	
PB153-2	150×8×11(16,21,26,31,36)	24×2
	150×10×13(18,23,28,33,38)	
	150×12×15(20,25,30,35,40)	
	150×14×17(22,27,32,37,42)	

Pb154 Parallel Blocks

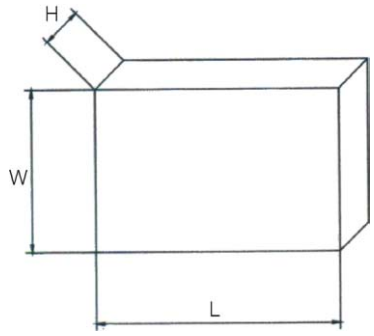
1.Hardeness: HRC55 ~ 62 2.Accuracy: 0.01mm 3.Parallelism: 0.005mm

Model	L×W×H	Pcs
PB154-1	150×8×16 (18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50)	18×2
PB154-2	150×8×17 (19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51)	18×2

PB155 Parallel Blocks

1.Hardeness: HRC55 ~ 62 2.Accuracy: 0.01mm 3.Parallelism: 0.005mm

Model	LxWxH	Pcs
PB155-1	120×10×14(16,18,20,22,24,26,28,32,35,40)	12×2
PB155-2	150×10×14(16,18,20,22,24,26,28,30,32,35,40)	12×2



1×2×3"BLOCKS

Precision Ground Hardened
Five3/8"-16tapped holes are provided operation
Hardness: HRC55-62

Model	Size(H×W×L)	Squareness	Tolerance of size	Hole
ZT01-01	1×2×3"	0.0003"/1"	±0.0002"	23
ZT01-02		0.0001"/1"	+0.0003"	

1×2×3"BLOCKS

Precision Ground Hardened
Hardness: HRC55-62

Model	Size (H×W×L)	Squareness	Tolerance of size	Hole
ZTO1-03	1×2×3"	0.0003"/1"	±0.0002"	
ZTO1-04				
ZT01-05		0.0001"/1"	+0.0003"	
ZT01-06				

1×2×3"BLOCKS

Precision Ground Hardened
Five5/16"-18 tapped holes are provided for clamping operation.
Hardness: HRC55-62.

Model	Size(H×W×L)	Squareness	Tolerance of size	Hole
ZT01-07	1×2×3"	0.0003"/1"	±0.0002"	11
ZT01-08		0.0001"/1"	+0.0003"	

2×3×4"BLOCKS

Precision Ground Hardened
Hardness: HRC55-62.

Model	Size(H×W×L)	Squareness	Tolerance of size	Hole
ZT01-09	2×3×4"	-	±0.0003"	23
ZTO1-10		0.0003"/1"		

2×4×6"BLOCKS

Precision Ground Hardened
Hardness: HRC55-62.

Model	Size(H×W×L)	Squareness	Tolerance of size	Hole
ZTO1-11	2×4×6"	0.0003"/1"	±0.0005"	23

4×6×8"BLOCKS

Precision Ground Hardened
Hardness: HRC55-62.

Model	Size(H×W×L)	Squareness	Tolerance of size	Hole
ZTO1-12	4×6×8"		±0.0005"	23

Metric Blocks

Hardness: HRC55-62

Model	Size(H×W×L)	Squareness	Tolerance of size	Hole
ZT01-13	25×50×75mm	0.005mm	±0.005mm	23
ZT01-14	25×50×75mm		±0.005mm	23 , M10
ZT01-15	25×50×100mm		±0.005mm	23
ZT01-16	50×100×150mm		±0.0125mm	23

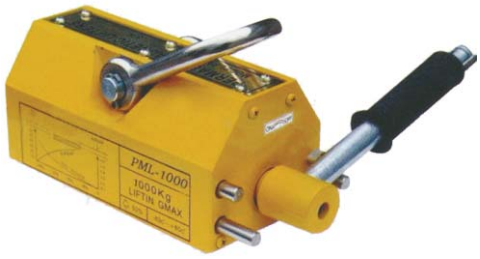
○ Features and use scope: Circular dense pole permanent magnetic chuck is on surface grinder, sparks machine, engraving machine, wire cutting machine, grinding machine, bench marking processing, magnetic sucker interval flne, uniform distribution of magnetic force, processing thin workpieces, the effect is obvious.

Model	Model	(mm)		(mm) Pole distance	(N/cm2)
		φ	High		
4"	XM51 100	100	55	2(0.5+1.5)	⩾ 80
5"	XM51 125	125	55	2(0.5+1.5)	⩾ 80
6"	XM51 150	150	55	2(0.5+1.5)	⩾ 80
8"	XM51 200	200	55	2(0.5+1.5)	⩾ 80
10"	XM51 250	250	60	2(0.5+1.5)	⩾ 100
12"	XM51 300	300	60	2(0.5+1.5)	⩾ 100
14"	XM51 350	350	60	2(0.5+1.5)	⩾ 100
16"	XM51 400	400	60	2(0.5+1.5)	⩾ 100

Xm91 Rectangular Permanent Magnetic Chucks

○ Scope of use: the breakdown of permanent magnetic chuck mainly in a variety of surface grinding machine, engraving machine, wire cutting, EDM as positioning the workpiece machining.

Model	Model	(mm)			(mm) pole distance	(N/cm2)
		Long	Width	High		
4"×7"	Xm91 100×175	175	100	45	2(0.5+1.5)	⩾ 100
5"×10"	XM91 125×250	250	125	45	2(0.5+1.5)	⩾ 100
6"×6"	XM91 150×150	150	150	45	2(0.5+1.5)	⩾ 100
6"×12"	XM91 150×300	300	150	45	2(0.5+1.5)	⩾ 100
6"×14"	XM91 150×350	350	150	45	2(0.5+1.5)	⩾ 100
6"×16"	XM91 150×400	400	150	45	2(0.5+1.5)	⩾ 100
6"×18"	XM91 150×450	450	150	45	2(0.5+1.5)	⩾ 100
8"×16"	XM91 200×400	400	200	45	2(0.5+1.5)	⩾ 100
8"×18"	XM91 200×450	450	200	45	2(0.5+1.5)	⩾ 100
8"×20"	XM91 200×500	500	200	45	2(0.5+1.5)	⩾ 100
8"×22"	XM91 200×560	560	200	50	2(0.5+1.5)	⩾ 100
10"×20"	XM91 250×500	500	250	50	2(0.5+1.5)	⩾ 100
12"×20"	XM91 300×500	500	300	50	2(0.5+1.5)	⩾ 100
12"×24"	XM91 300×600	600	300	50	2(0.5+1.5)	⩾ 100



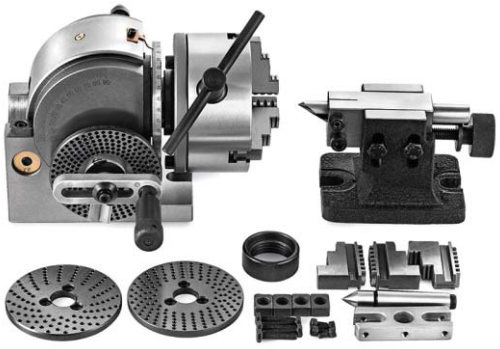
○ Permanent magnetic lifters use new type and high-performancemagnetic material .It is characte -rzedby its smaller and lighter weightPowerful lifiting effort and few of residual magnetism.Easy and safeoperate,Without electricity in operation,Long period effort ,They have been used widely to lift and transport the steel and iron.

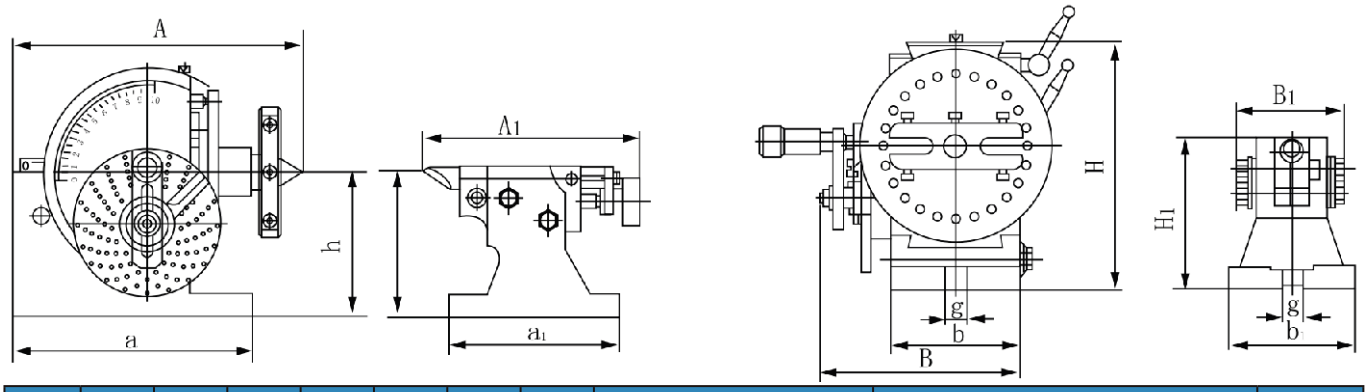
Model	Capacity	Max Force KGS	Dimensions			Weight (kg)
			Length	Width	Height	
YQ100	100	300	150	80	160	3.2
YQ200	200	600	190	110	220	4.2
YQ300	300	900	230	120	210	10.5
YQ600	600	1800	290	145	250	19.6
YQ1000	1000	3000	410	150	310	34.2
YQ2000	2000	6000	460	180	350	64.5
YQ3000	3000	9000	480	210	380	82

Electro Magnetic Lifters

○ Electro Magnetic Lifter used for handling ingots, steel balls, coils and all kinds of scrap iron, strong lifting, remote control operation, use safe and convenient. Increase work efficiency, reduce labor intensity. Widely used in factories, freight yard to do heavy lifting exercise

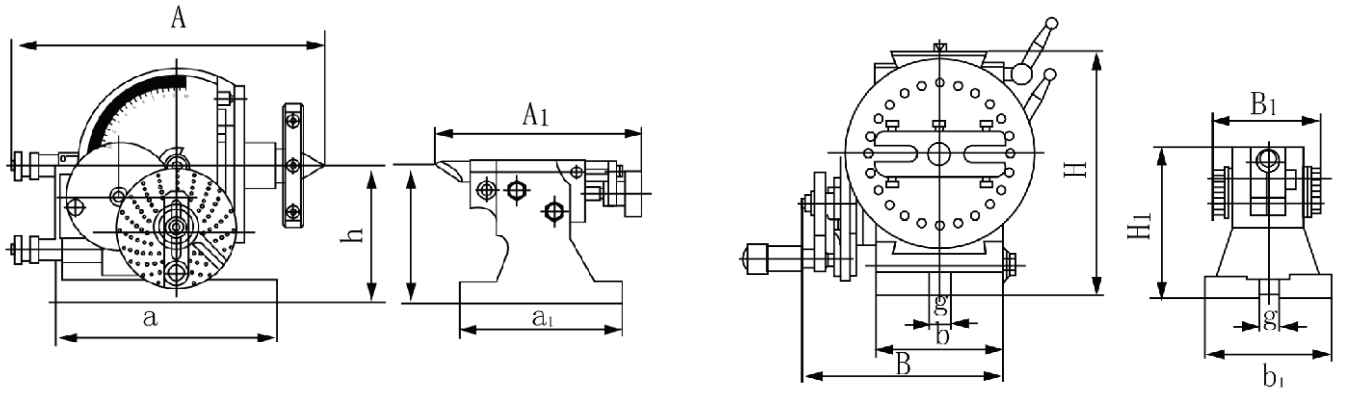
Model	Dimensions		Power	Weight
	Diameter	height		
MI W5-70L	700	320	3.3	490
MI W5-80L	800	320	3.96	620
MI W5-90L	900	320	5.9	800
MI W5-110L	1100	320	7.7	1350
MI W5-120L	1200	320	9.02	1800
MI W5-130L	1300	320	12	2010
MI W5-135L	1350	320	13.2	2580
MI W5-150L	1500	320	15.6	2830
MI W5-165L	1650	320	16.5	3450
MI W5-180L	1800	320	22.5	4230
MI W5-185L	1850	320	23.8	4550
MI W5-210L	2100	320	28.4	7000
MI W5-240L	2400	320	33.9	9000





Model	A	B	H	h	a	b	g	Taper of center	Diameter ofSpindle hole	N.W.(kg)
BS-0	193	140	173	100	166	90	16	MT2	18	23.8
	7.59	5.51	6.81	3.93	6.53	3.54	0.63	B&S NO.7		
BS-1	242	168	220	128	206	113	16	MT3	20	35.8
	9.52	6.61	8.66	5.04	8.11	4.45	0.63	B&S NO.9		

Model	A1	B1	H1	h	a1	b1	g1
BS-0	175	87	107	100	130	92	16
	6.89	3.42	4.21	3.93	5.12	3.62	0.63
BS-1	183	87	137	128	158	110	16
	7.20	3.42	5.39	5.04	6.22	4.33	0.63

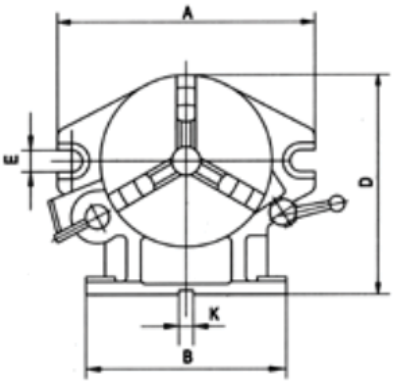


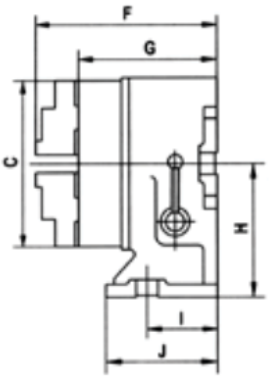
Model	A	B	H	h	a	b	g	Work hole taper	N.W.(kg)
BS-2	370	280	236	133	212	134	16	MT4	73
	14.57	11.02	9.29	5.24	8.35	5.28	0.63	B&S NO.10	
BS-2A	264	210	236	133	212	134	16	MT4	52
	10.39	8.26	9.29	5.24	8.35	5.28	0.63	B&S NO.10	

Model	A1	B1	H1	h	a1	b1	g1
BS-2/ BS-2A	183	87	156	133	175	122	16
	7.2	3.42	6.14	5.24	6.89	4.80	0.63

Model	Dividing plates	Number of Holes		Used of Model
3PCS	A	15,16,17,18,19,20		● RT-HV4,HV8 ● RT-6
	B	21,23,27,29,21,23		
	C	37,39,41,43,47,49		
2PCS	A	A1	26,30,34,38,41,44,47,51,57	● RT-HV8,HV10, HV12,HV14,HV16 ● RT-8,10,12,14 CS-6",8"
		A2	28,32,37,39,43,46,49,53,59	
	B	B1	61,67,71,77,81,87,91,97	
		B2	63,69,73,79,83,89,93,99	

F2 Type Direct Dividing Heads





Installation sketch and dimensions

Model	A	B	C	D	E	F	G	H	I	J	K
F2-8	310	255	f210	255.25	18	214	171.5	149.25	80	150	16
F2-6	260	220	f167	220	18	197.5	155.5	130	70	130	16

Main specifications

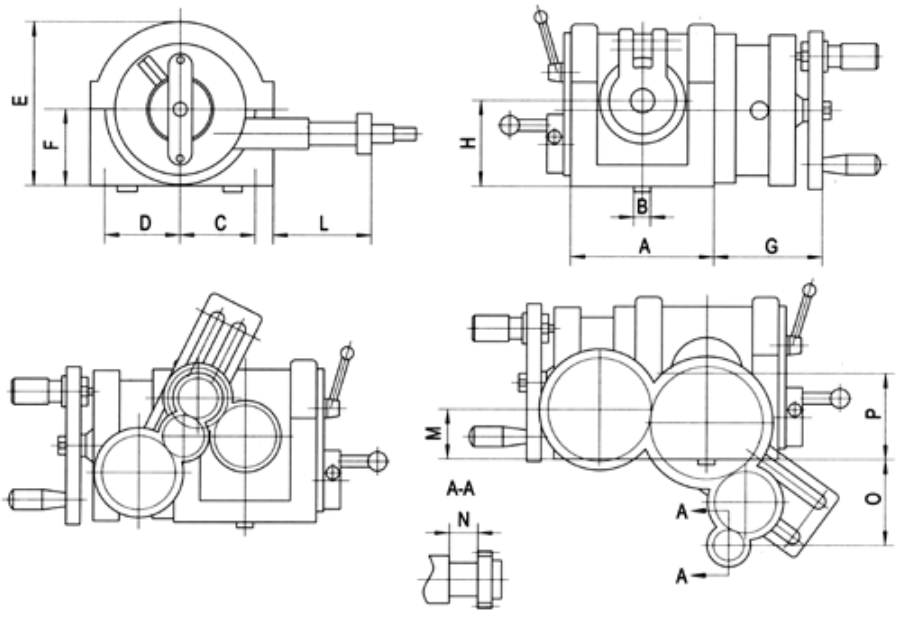
Specifications	F2-8	F2-6
Centerheightmm	149.25	130
Centerdiameterofthespindlemm	φ119.774	φ80
Divisions	2、3、4、6、8、12、24	
Heightbetweenexternalcerteringdiameterofthespindletothebase(inverticalposition)mm	96	89.5
Locatingdiameterofthespindlemm	f212	f170
Widthoflocatingkey.mm	16	
Matchedchuck	K31210A	K31167
24divisionsindividualerror	25 〃	
NetweightKg	52	33
CrossweightKg	60	39

○ Type F2、F2-6 super spacer is designed for using and Indexing in both horizontal and vertical positlon. It is the most optimum in use for milling machines, drilling machines and planer etc. The divisions in 2,3,4,6,8,12,24 are anydesired angular indexing can be performed too permitted by using a graduated ring on the spindle and a verner.

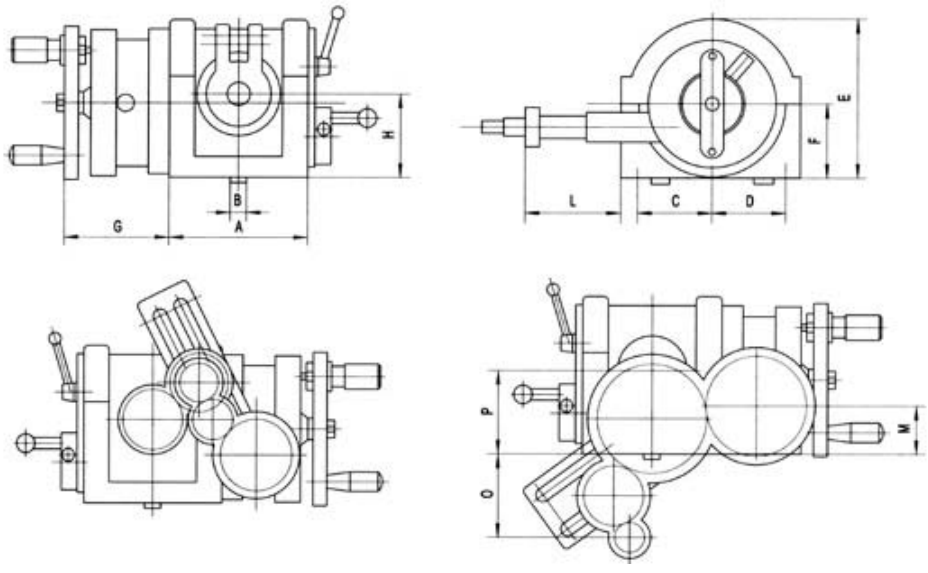
Main specifications

Specifications		FW80	F11100A	F11125A	F11160A	F1120A
Centerheightmm		80	100	125	160	200
Swivelangleofspindlefromit'shorizontalposition(upward)		⩽ 90°	⩽ 95°			
Horizontalposition(downward)		⩽ 6°	⩽ 5°			
Rotatingangleofspindleforonecompleterevolutionofdividinghandle		9° (540grad.,1`each)				
Min.readingofvernier		10 〃				
Wormgearratio		1:40				
Taperofspindlebore		MS3		MS4		
Widthoflocatingkey.mm		14		18		
Diameterofshorttaperofspindlenoseformountingflangemm		φ36.541	φ41.275	φ53.975	φ53.975	
	1stplate	24,25,28,30,34,37,38,39,41,42,43				
Holenumbersonindexplate	2ndplate	46,47,49,51,53,54,57,58,59,62,66				
	Module	1.5		2		
ChangeGear	Teethnumbers	25,30,35,40,50,55,60,70,80,90,100				
Individualindexingerrorofthespindleforonecompleterevolutionofdividinghandle		60 〃	±45 〃			
Cumulateerroratany1/4peripheryofspindle		±1`				
Max.bearing Kg		80	100	130	130	130
Netweight Kg		36	67	101.5	113	130
Crossweight Kg		45	79	111.5	123	140

F11 Dimensional Sketch

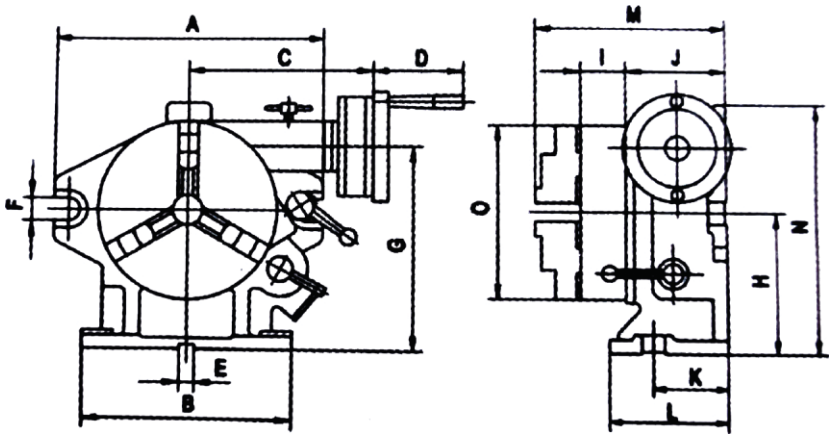


DimensionalSketch



FW80 Installationsketchanddimensions

Model	A	B	C	D	E	F	G	H	L	M	N	O	P
FW80	139	14	77	73	147	77	78	80	106	43	30	60	80
F11100A	162	14	102	87	186	95	116	100	93	54.7	30	100	100
F11125A	209	18	116	98	224	117	120	125	103	68.5	34.5	100	125
F11160A	209	18	116	98	259	152	120	160	103	68.5	34.5	100	160
F11200A	209	18	116	98	299	192	120	200	103	68.5	34.5	100	200

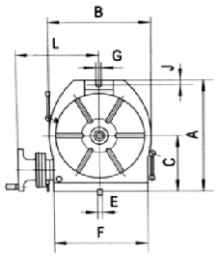


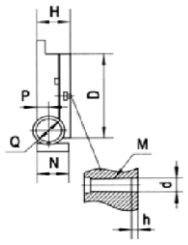
Installation sketch and dimensions

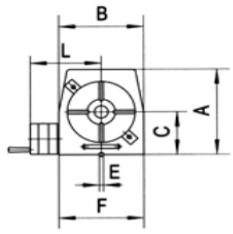
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
F3-8	310	255	200	78	16	18	230	150	75	126	90	155	244	285	f210
F3-6	250	220	188	78	16	18	198.75	130	66	112	80	150	220	235	f167

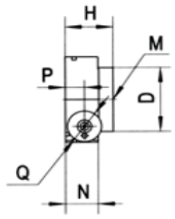
Main specifications

Specifications	F3-8	F3-6
Centerheightmm	150	130
Centerdiameterofthespindlemm	φ119.774	φ80
Diameterofthespindleshoudermm	φ212	φ170
Divisions	2、3、4、6、8、12、24	
Graduateddiscofspindle	360°	
Modulesofwormandwormgear	1.2	1.25
Transmissionratioofwormandwormgear	1:90	
Showeddegreeofworktableperrevolutionofworm	4°	
Minimumvalueofvemier	10 〃	
Widthoflocatingkey.mm	16	
Matchedchuck	K31210A	K31167
24divisionsindividualerror	25 〃	
Wormgeardividingerror	±60 〃	
NetweightKg	(62)77	(40)50
CrossweightKg	(73)88	(50)60



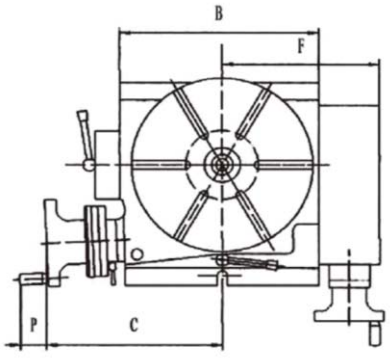


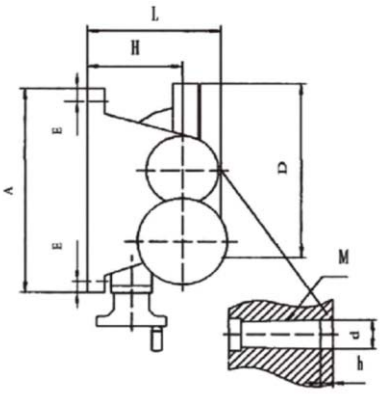




Ht250 Material:HT250

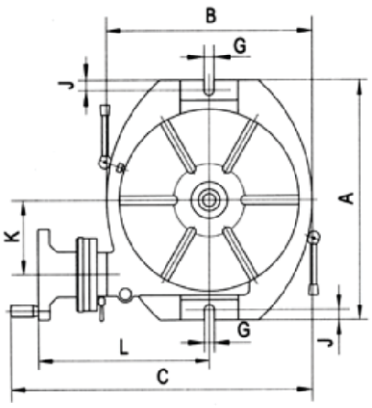
Specifications	HV-4"	HV-6"	HV-8"	HV-10"	HV-12"	HV-16"
Tablediametermm	φ100	φ160	φ200	φ250	φ320	φ400
Morsetaperofthecenterhole	2#		3#		4#	
Diameterofthecenterholemm	φ20X8	φ25X6	φ30X6		φ40X10	
HeightofcenterforVerti.mountingmm	70	125	150	170	210	260
WidthoftheT-slotmm	6	10	12		14	
AdjacentangleoftableT-slot	90°			60°		
Widthoflocatingkey.mm	10	12	14		18	
Moduleofthewormgear	1	1.5	1.75	2	2.5	3.5
Transmissionratiooftheworm gear	1: 72	1: 90				
Graduationofthetable	360°					
Readoutofthehandwheel	2`	1`				
Minimumreadingofthevernier	10 〃					
Indexingaccuracy	120 〃	80 〃	60 〃			
Max.bearing(withtableHor.)kg	150	100	150	200	250	300
Max.bearing(withtableVert.)kg	75	50	75	100	125	175
NetweightKg	7	23	31.5	46	77	150
GrossweightKg	11.5	15	30	45	73	95

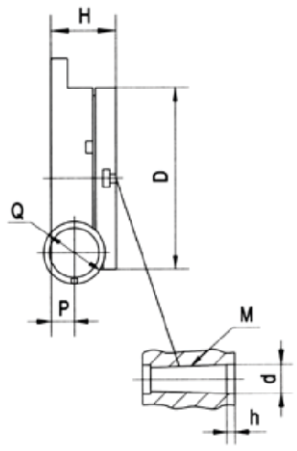




Ht250 Material:HT250

Specifications	TSK160	TSK200	TSK250	TSK320	TSK400
Diameteroftablemm	φ160	φ200	φ250	φ320	φ400
Morsetaperofthecenterhole	2#	3#		4#	
Diameterofthecenterholemm	φ25X6	φ30X6		φ40X10	
WidthoftheT-slotmm	10	12		14	
Moduleofthewormgear	1.5	2		2.5	3.5
Widthoflocatingkey.mm	12	14		18	
AdjacentangleoftableT-slot	90°		60°		
Transmissionratiooftheworm gear	1 : 90				
Tiltingangle	0° ~ 90°				
Readoutofthehandwheel	1'				
Minimumreadingofthevernier	10 〃				
Minimumreadingofthetiltingvernier	2'				
Indexingaccuracy	80 〃	60 〃			
Max.bearing(withtableHor.)kg	100	150	200	250	300
Max.bearing(withtableVert.)kg	50	75	100	125	150
CrossweightKg	44	67	93	150	305
Matched Chuck	K11125	K11160	K11200	K11250	K11325





Ht250 Material:HT250

Specifications	TS160A	TS200A	TS250A	TS320A	TS400A	TS500A	TS630A	TS800A	TS1000A
Tablediametermm	f160	f200	f250	f320	f400	f500	f630	f800	f1000
Morsetaperofthecenterhole	2#	3#		4#		5#		6#	
WidthoftheT-slotmm	10	12		14		16		22	
AdjacentangleoftableT-slot	90°		60°			45°			
Widthoflocatingkey.mm	12	14		18		-	-	-	-
Transmissionratiooftheworm gear	1 : 90					1 : 120			
Graduationofthetable	360°								
Rotatingangleoftablewithone revolutionoftheworm	4° (1`pergraduation)					3° (1`pergraduation)			
Minimumvalueofvernier	10 〃								
Indexingaccuracy	80 〃	60 〃							
Max,workloadkg	100	150	200	250	300	550	700	1250	2000
CrossweightKg	21.5	31	44.5	76	145	238	377	855	1400
Matched Chuck	K11125	K11160	K11200	K11250	K11325	K11400	K11500A	K11630A	

○ Model OL-Z13 is a portable knife sharpener that can grind 2-blade,3-blade and 4-blade milling cutters without technology.Optionalfxture group can grind 5-blade end mill.
○ By adjusting the lifting button wheel, the width and depth of the cflute can be controlled to better meet the processing needs ofdifferent materials.
○ The unique structure can grind the axial wedge angle of the millingcutter, increase the sharpness of the cutting edge of the end face,and reduce the cutting resistance.

Same function,multiple specifications

OL-X3A

OL-X5

OL-X11

Model	X3	X3A	X5	X11
Grinding range	φ4-φ14	φ4-φ20	φ12-φ30	φ6-φ30
Power	AC,220V±10%	AC,220V±10%	AC,220V±10%	AC,220V±10%
Motor	180W/ 4800RPM	220W/ 4800RPM	250W/ 4400RPM	250W/ 4400RPM
Dimension	35x23x24CM	35x23x24CM	40x28x31CM	50x29x30
Weight	15KG	16KG	28KG	33KG

○ Note : Standard collet X3 Type: 6 pieces; X3A type; 9 pieces;X5 type; 10 pieces ; X11 type:13 pieces. It is not easy to align below 4MM

Drill Granding Machines

Portable

○ Note: Standard collet Z13 / D type: 11 pieces;Z20 type: 18 pieces;Z26 type: 13 pieces; Z32 type: 30 pieces. It is not easy to align below 3MM.

○ This machine is portable, accurate and durable, equipped with diamond grinding wheel made inTaiwan.
○ It can sharpen the tip angle (apex angle), front cutting edge (positive rake angle), chip flute (rear angle), and the size of thecenter transverse blade can be adjusted at will.easier.
○ Z32 is a compound drill grinding machine (left and right double-head grinding work).

Model	Z13/Z13D	Z20	Z26	Z32
Grinding range	φ3-φ13(φ14)	φ3-φ20	φ13-φ26(φ32)	φ3-φ32
Point angle	90° -140°	95° -140°	95° -140°	95° -140° / 95° -140°
Power	AC,220V±10%	AC,220V±10%	AC,220V±10%	AC,220V±10%
Motor	120W/ 4800RPM	180W/ 4800RPM	250W/ 4400RPM	250W/ 4400RPM
Dimension	36x21x19cm	43x22x21cm	43x23x21cm	42x27x34cm
Weight	9KG	14KG	25KG	29KG

○ Universal cutter sharpener is a necessary equipment for computerengraving cutter and engraving milling machine.
○ U3 universal cutter sharpener also has the functions and devicesfor sharpening drills, turning tools, and ball end mills.The maximum clamping diameter can reach 16.

Model	U3
Collet diamenter	φ 3 - φ 1 6
Motor	220V/380V 1/3Hp 50Hz
Power	5300RPM
Grinding wheel	φ100x50xφ20
Dimension	550x450x470mm
Weight	46KGs/48KGs

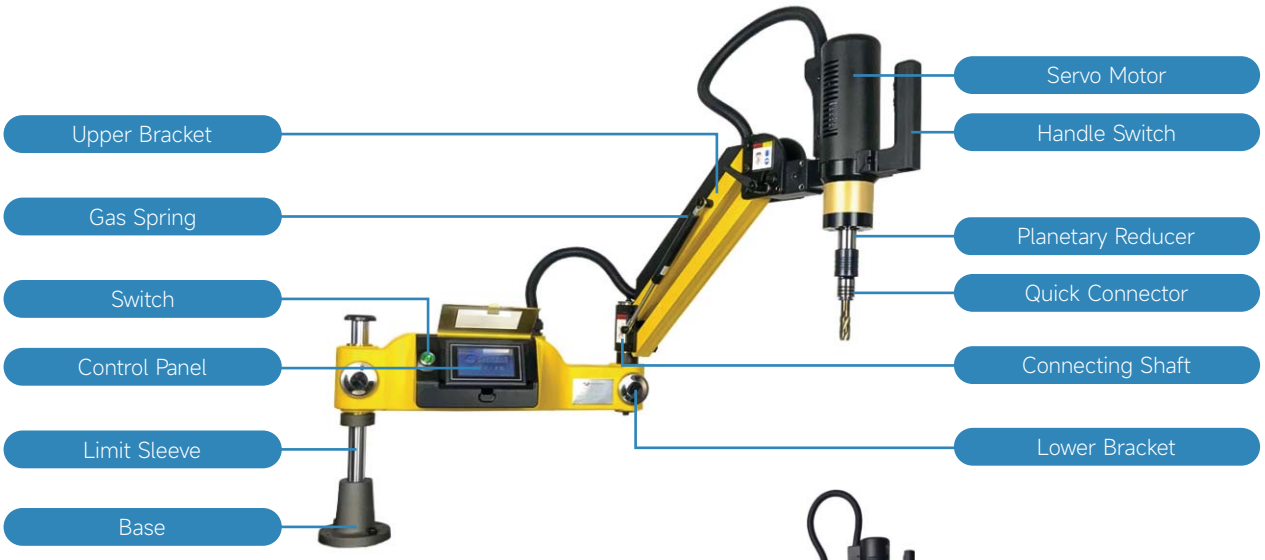
○ Note: The factory is equipped with 6mm collet (or 1/4")

OL-U2 Universal Cutter Grinders

○ Universal cutter grinder is a supporting equipment for cnc and other processing equipment.
○ It can be used for sharpening sharp cutter, engraving cutter, straight shank milling cutter, drills, turning cutter and other tools
○ With the 5C collet, It can hold workpieces with a diameter of 3-28mm, which is convenient and flexible to use .
○ Yellow/green two colors available Other colors can be customized

Model	OL-U2
Max.clamping diameter	φ3-φ16mm
Spindle Speed	3600RPM
Longitudinal travel of tool holder	140mm
Longitudinal travel adjustment of tool holder	18mm
Longitudinal travel of spindle and grinding wheel	8mm
Taper angle range	0° -180°
Negative taper angle range	0° -10°
Relief angle range	0° -25°
Voltage/Power	220/380V 50/60Hz/0.37Kw
Motor speed	2810mm/min
Wheel size	φ100*{50/35}*20mm
Gross weight	52Kg
Packing dimensions L×W×H(mm)	555x450x430mm

○ Note: Standard collet X3 Type: 6 pieces; X3A type; 9 pieces;X5 type; 10 pieces ; X11 type:13 pieces. It is not easy to align below 4MM



Model	M16E
Type	Electricthreading machine
Voltage	220V50Hz
Power	600W
Tapping range	M3-M16
Connector	GT12-T14
Collets	M3-M16
Quantity	8
Operation mode	Vertical,vertical and horizontal*
Working radius	1045mm、1545mm*
Minimum radius	330mm
Maximumspeed	375rpm
Customized	可定制 Customizable
Weight	30KG

Model	M30E
Type	Electricthreading machine
Voltage	220V50Hz
Power	1200W
Tapping range	M6-M30
Connector	GT24-T20
Collets	M6-M24
Quantity	8
Operation mode	Vertical,vertical and horizontal*
Working radius	1180mm、1735mm*
Minimum radius	370mm
Maximumspeed	200rpm
Customized	Customizable
Weight	53KG

Model	M36E
Type	Electricthreading machine
Voltage	220V50Hz
Power	600W
Tapping range	M6-M36
Connector	GT12-T14
Collets	M6-M36
Quantity	11
Operation mode	Vertical,vertical and horizontal *
Working radius	1180mm、1735mm*
Minimum radius	370mm
Maximumspeed	125rpm
Customized	Customizable
Weight	56KG

The functions, components and accessories marked with * in the diagrams or instructions are not included in the standard configuration. If necessary, please select them separately.

Standard Tool Holders

BT30 BT40 BT50 HSK63 HSK100

BT

HSK

Model	Model	Specification(mm)	Configuration	Parameter Description
Bt30	NB30	645L×140W×165H	Can store 6pcs BT30 tool Holders	Each holder is equipped with 2 feet
Bt40	NB40		Can store 5pcs BT40 tool Holders	
Bt50	NB50		Can store 4pcs BT50 tool Holders	
Model	**Model**	**Specification(mm)**	**Configuration**	
HSK63	NH63	645L×140W×165H	Can store 6pcs HSK63 tool Holders	Each holder is equipped with 2 feet
HSK100	NH100		Can store 4pcs HSK100 tool Holders	

Model	CNS-01				
Specification	W1100xD600×H880				
Tool model	BT30	BT40	BT50	HSK63	HSK100
Quantity	30	25	20	25	20

Model	CNS-02				
Specification	W1100xD600×H880				
Tool model	BT30	BT40	BT50	HSK63	HSK100
Quantity	30	25	20	25	20

Model	CNS-03				
Specification	W717×D572×H880				
Tool model	BT30	BT40	BT50	HSK63	HSK100
Quantity	24	24	20	24	20

Model	CNS-05			
Specification	W564×D572×H985			
Tool model	BT30	BT40	BT50	HSK63
Quantity	43	43	26	43

Model	CNS-06			
Specification	W564×D572×H860(挂板)			
Tool model	BT30	BT40	BT50	HSK63
Quantity	22	18	16	18

Model	CNS-09		
Specification	W850×D450×H800		
Tool model	BT30	BT40	BT50
Quantity	45	35	25

Model	CNS-11		
Specification	W810×D500×H920		
Tool model	BT30	BT40	BT50
Quantity	56	48	40

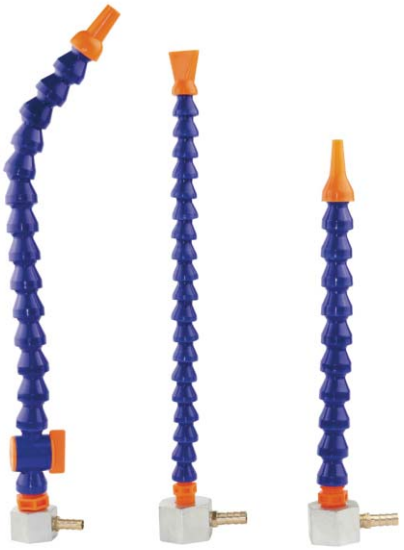
Model	CNS90		
Specification	W900×D475×H800		
Tool model	BT30	BT40	BT50
Quantity	45	35	215

Model	CNS9811		
Specification	W720×D420×H980+250		
Tool model	BT30	BT40	BT50
Quantity	31	31	24

Model	CNS-07				
Specification	1000W×650D×1500H				
Tool model	BT30	BT40	BT50	HSK63	HSK100
Quantity	40	35	30	35	30

Model	CNS-08		
Specification	870Wx500D×1450H		
Tool model	BT-30	BT-40	BT-50
Total number of tools that can be installed	77	63	49

Galvanized magnetic base (silver)



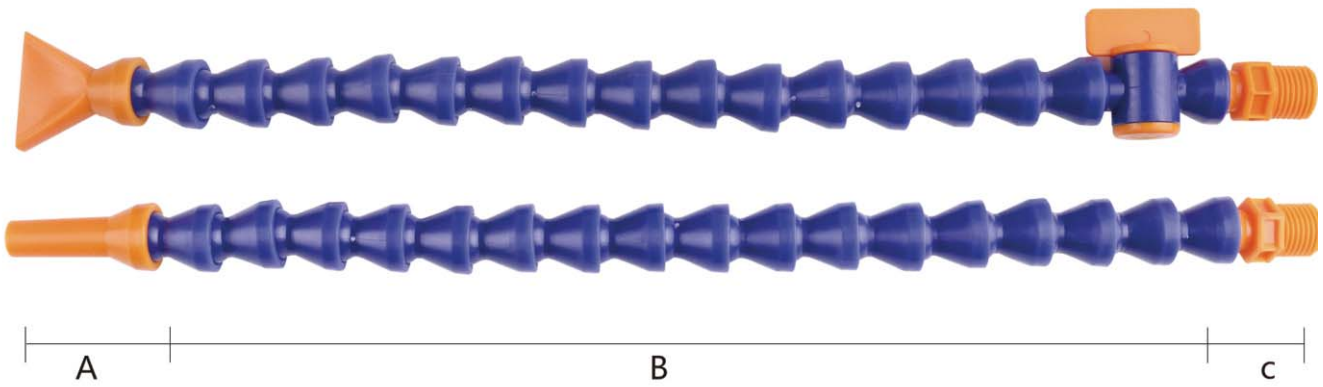
Installation demonstration

1/2 4“ 3/8 3“ 1/4 2" single water outlet double water outlet three water outlet

The plastic cooling water pipe is equipped with an inner thread connector, and the outer thread water pipe instantly becomes an inner thread. Solved the problem that some machine tool plastic cooling water pipes require internal threads.

Thin round nozzel | Thick round nozzel | Flat nozzel

Calculation method for combined length of plastic cooling water pipes



Nozzle length (A)	+	Pipe section length (B)	+	long thread (C)	=	full length
35mm	+	15mm (Number of particles)	+	22mm	=	full length

1/4" plastic cooling water pipe accessories assembly table(Can be assembled with any length of pipe fittings as required)

1/4 regulating valve

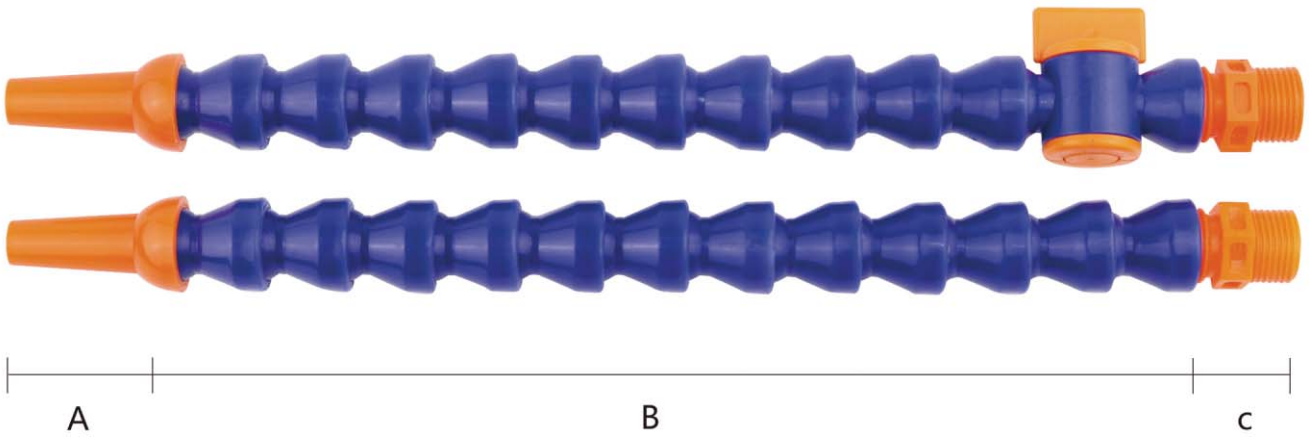
1/4 small diameter round nozzle
Inner diameter of water outlet : 4mm
Nozzle height: 35mm

1/4 large diameter round nozzle
Outlet width: 28mm
Nozzle height: 29mm

1/4 thread connector
Height:22mm
Thread specification: 1/4 2 "
Thread diameter: about 13mm

1/4 large diameter round nozzle
Inner diameter of water outlet: 7mm
Nozzle height: 35mm

Calculation method for combined length of plastic cooling water pipes



Nozzle length (A)	+	Pipe section length (B)	+	long thread (C)	=	full length
37mm	+	18.5mm (Number of particles)	+	22mm	=	full length

plastic cooling water pipe accessories assembly table(Can be assembled with any length of pipe fittings as required)

3/8 regulating valve

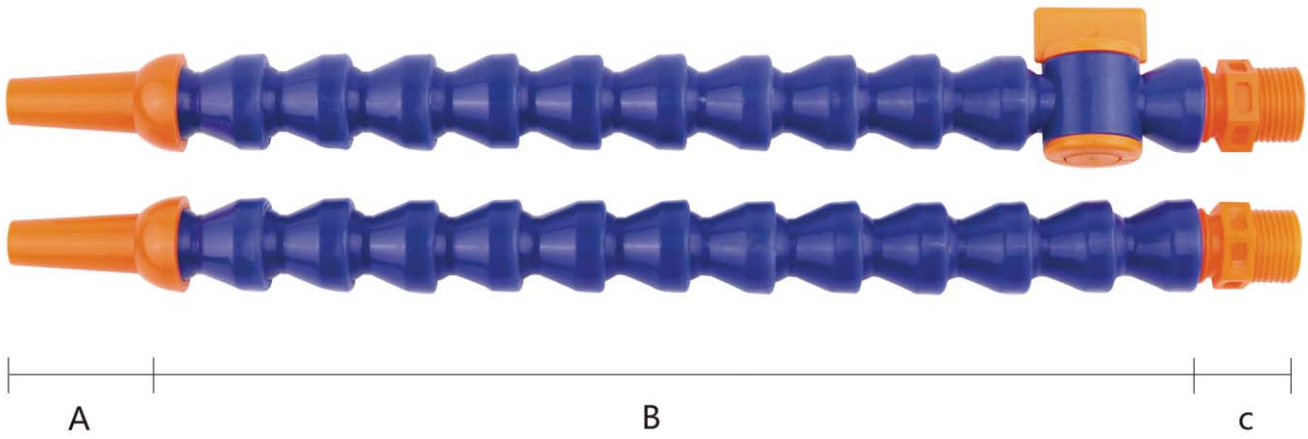
3/8 small diameter round nozzle
Inner diameter of water outlet: 4mm
Nozzle height: 35mm

3/8 large diameter round nozzle
Outlet width: 34mm
Nozzle height: 36.5mm

3/8 thread connector
Thread specification: 3/8 3 "
Thread diameter: about 15.6mm

3/8 large diameter round nozzle
Inner diameter of water outlet: 7mm
Nozzle height: 37mm

Calculation method for combined length of plastic cooling water pipes



Nozzle length (A)	+	Pipe section length (B)	+	long thread (C)	=	full length
27.6mm	+	21mm (Number of particles)	+	22mm	=	full length

plastic cooling water pipe accessories assembly table(Can be assembled with any length of pipe fittings as required)

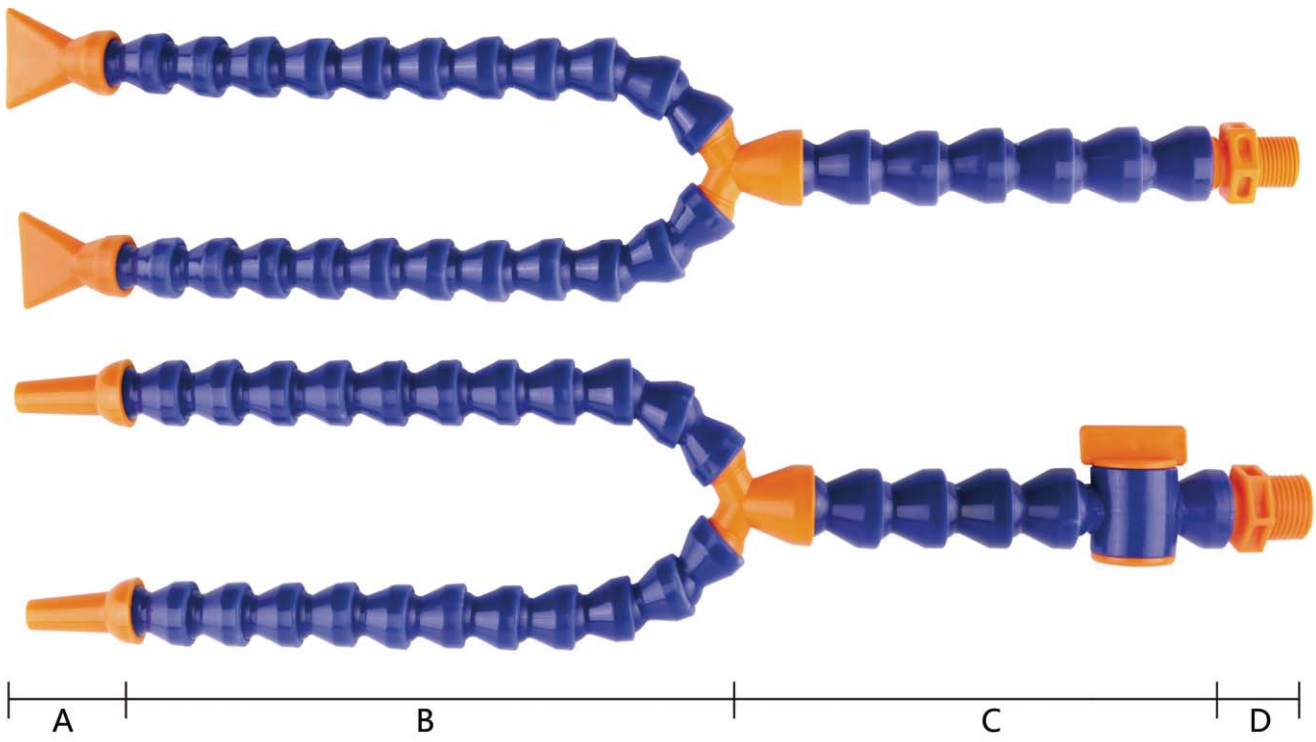
1/2 regulating valve

1/2 small diameter round nozzle
Inner diameter of water outlet : 6.5mm
Nozzle height : 42mm

1/2 large diameter round nozzle
Outlet width : 47mm
Nozzle heigh t: 41mm

1/2 large diameter round nozzle
Inner diameter of water outlet : 9mm
Nozzle height : 37.6mm

Calculation method for combined length of plastic cooling water pipes



Nozzle length (A)	+	Pipe section length (B)	+	Double tube length (C)	+	long thread (D)	=	full length
24.5mm	+	18.5mm (Number of particles)	+	21mm	+	26mm	=	full length

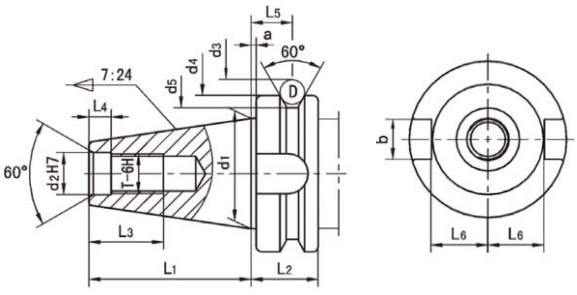
plastic cooling water pipe accessories assembly table(Can be assembled with any length of pipe fittings as required)

3/8 Y-shaped split

1/2 split special thread

3/8 split special thread

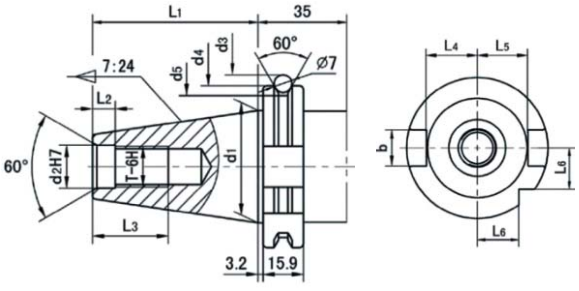
MAS403BT



Model	L1	L2	L3	L4	L5	L6	d1	d2
BT30	48.4	22	24	7	13.6	16.3	31.75	12.5
BT40	65.4	27	30	9	16.6	22.6	44.45	17
BT50	101.8	38	45	13	23.2	35.4	69.85	25

Model	d3	d4	d5	D	a	b	T
BT30	56.144	46	38	8	2	16.1	M12
BT40	75.679	63	53	10	2	16.1	M16
BT50	119.02	100	85	15	3	25.7	M24

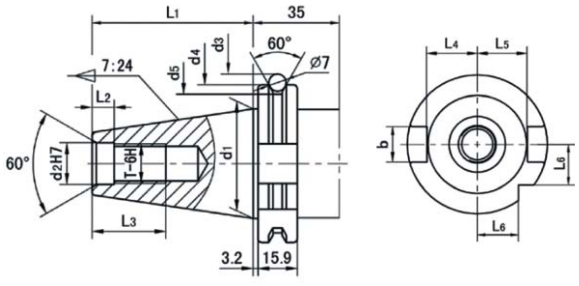
DIN 69871



Model	L1	L2	L3	L4	L5	L6	d1
SK30	47.8	5.5	24	16.4	19	15	31.75
SK40	68.4	8.2	32	22.8	25	18.5	44.45
SK50	101.8	11.5	47	35.5	37.7	30	69.85

Model	d2	d3	d4	d5	b	T
SK30	13	59.3	50	44.3	16.1	M12
SK40	17	72.3	63.66	56.25	16.1	M16
SK50	25	107.25	97.5	91.25	25.7	M24

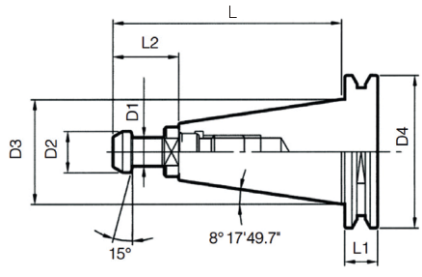
ANSI B5.50 CAT



Model	L1	L2	L3	L4	L5	d1
CAT30	1.875	0.188	1.00	0.664	0.735	1.25
CAT40	2.687	0.188	1.12	0.89	0.985	1.75
CAT50	4.000	0.250	1.75	1.39	1.485	2.75

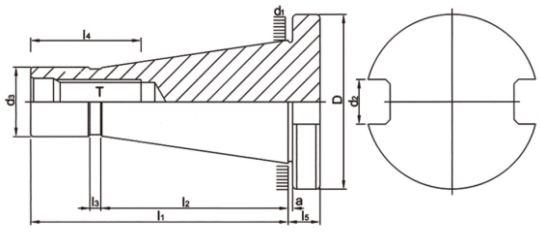
Model	d2	d3	d4	d5	b	T
CAT30	0.516	2.176	1.812	1.531	0.645	1/2"-13
CAT40	0.641	2.863	2.500	2.219	0.645	5/8"-11
CAT50	1.031	4.238	3.875	3.594	1.020	1"-8

ISO



Model	D1	D2	D3	D4	L1	L2	L3
ISO20	6	9	22.225	33	8	12	45.3
ISO25	7	10	25.4	37	8	16	55.7
ISO30	9	13	31.75	50	15.9	24	71.8

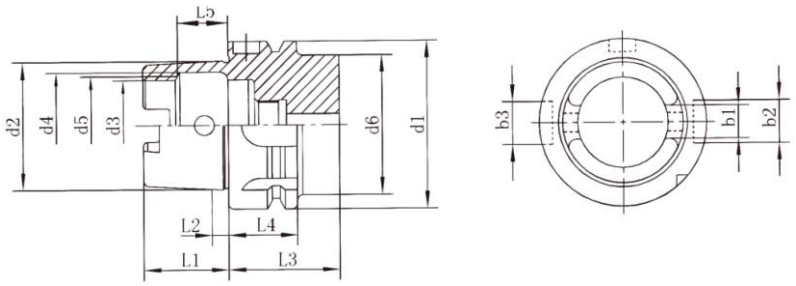
DIN2080 NT



ISO is Equivalent to DIN2080 NT
XT/GB3837:30 is Euivalent to NT

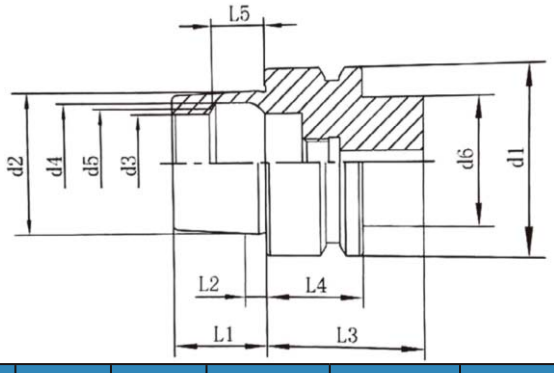
Model	D	d1	d2	d3	a	l1	l2	l3	l4	l5	T
NT30	49	31.75	16.1	17.05	1.6	68.4	48.4	3	24	8	1/2"-12W,M12x1.75p,1/2"-13UNC
NT40	63	44.45	16.1	24.92	1.6	93.4	65.4	5	32	10	5/8"-11W,M16x2.0P
NT50	97.5	69.85	25.7	39.19	3.2	126.8	101.8	8	47	12	1"-8W,M24x3.0p

DIN69893 HSK-A



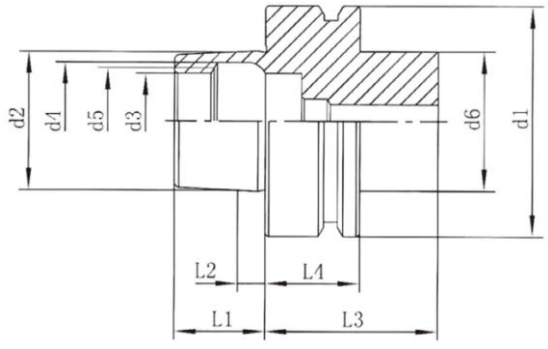
Model	L1 0 -0.2	L2	L3 min	L4	L5 js10	d1 h10	d2	d3 H10	d4 H11	d5	d6 max	b1 ±0.04	b2 H10	b3 H10
HSK32A	16	3.2	35	20	8.92	32	24.007	17	20.5	19	26	7.05	7	9
HSK40A	20	4	35	20	11.42	40	30.007	21	25.5	23	34	8.05	9	11
HSK50A	25	5	42	26	14.12	50	38.009	26	32	29	42	10.54	12	14
HSK63A	32	6.3	42	26	18.13	63	48.01	34	40	37	53	12.54	16	18
HSK80A	40	8	42	26	22.85	80	60.012	42	50	46	68	16.04	18	20
HSK100A	50	10	45	29	28.56	100	75.013	53	63	58	68	20.02	20	22
HSK125A	63	12.5	45	29	36.27	125	95.016	67	80	73	111	25.02	25	28
HSK160A	80	16	47	30	45.98	160	120.016	85	85	92	144	30.02	32	36

DIN69893 HSK-E



Model	L1 0 -0.2	L2	L3 min	L4	L5 js10	d1 h10	d2	d3 H10	d4 H11	L	d6 max
HSK32E	16	3.2	35	20	8.92	32	24.007	17	20.5	19	26
HSK40E	20	4	35	20	11.42	40	30.007	21	20.5	23	34
HSK50E	25	5	42	26	14.12	50	38.009	26	32	29	42
HSK63E	32	6.3	42	26	18.13	63	48.01	34	40	37	53

DIN63893 HSK-F



Model	L1 0 -0.2	L2	L3 min	L4	L5 js10	d1 h10	d2	d3 H10	d4 H11	d5	d6 max
HSK50F	20	4	42	26	11.42	50	30.007	21	25.5	23	42
HSK63F	25	5	42	26	11.42	63	38.009	26	32	29	53