



Catalog & Price List

N.Y.C INTERATIONEL

ADDRESS

16/21 เทียนทะเล 20
ถนนบางขุนเทียน-ชายทะเล
แขวงแสดมดำ เขตบางขุนเทียน
กรุงเทพมหานคร 10150

CONTACT

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SCAN ME



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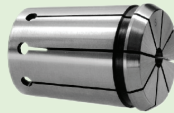
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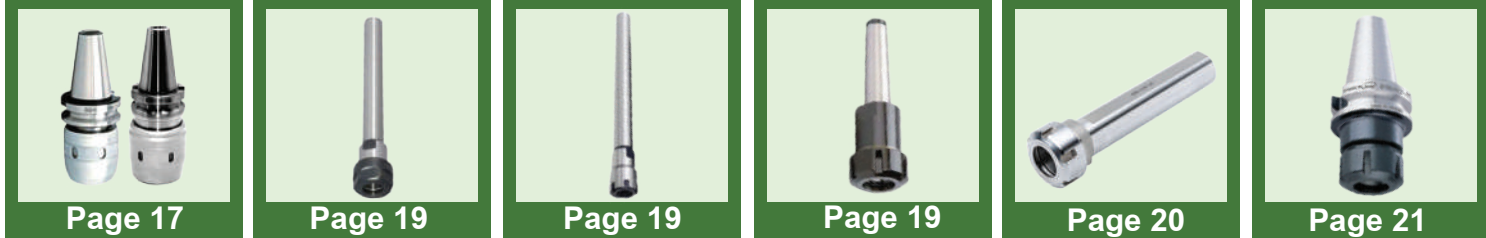


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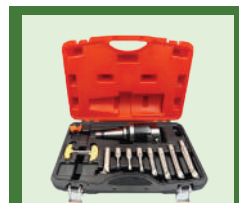
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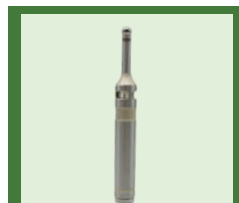
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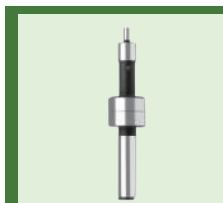
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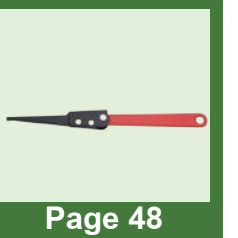
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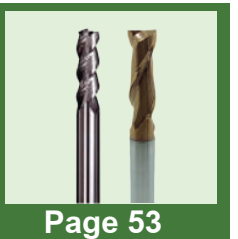
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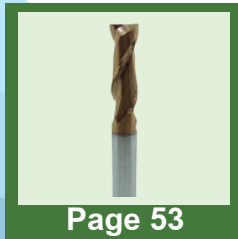
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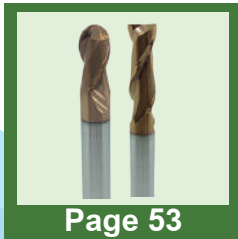
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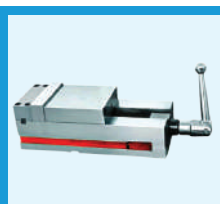


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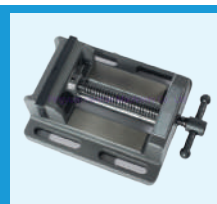
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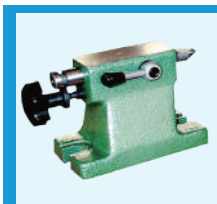
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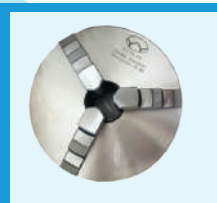
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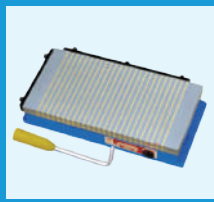
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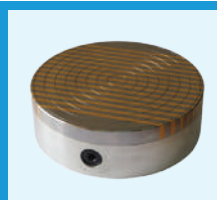
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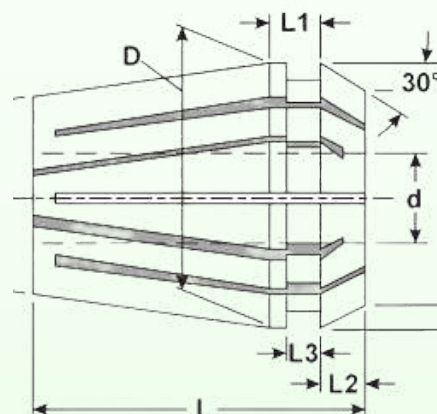
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TOOLING SYSTEM



Material:65Mn
Hardness:HRC44-48

Run out
 $I \leq 0.005\text{mm}$
 $II \leq 0.008\text{mm}$

Model	dH7	D	D1	D2	L	L1	L2	L3	Model
ER8	1.0-5.0	8	8.5	6.5	13.5	2.7	1.5	1.5	0.5
ER11	1.0-7.0	11	11.5	9.5	18	3.8	2.5	2	0.5
ER16	1.0-2.5	16	17	13.8	27.5	6.26	4.0	2.7	0.5
	2.5-10.0	16	17	13.8	27.5	6.26	4.0	2.7	1.0
ER20	1.0-2.5	20.0	21.0	17.4	31.5	6.4	4.8	2.8	0.5
	2.5-13.0	20.0	21.0	17.4	31.5	6.4	4.8	2.8	1.0
ER25	1.0-2.5	25	26	22.0	34.0	6.66	5.0	3.1	0.5
	2.5-16.0	25	26	22.2	34.0	6.66	5.0	3.1	1.0
ER32	2.0-2.5	32	33	29.2	40.0	7.16	5.5	3.6	0.5
	2.5-20.0	32	33	29.2	40.0	7.16	5.5	3.6	1.0
ER40	3.0-26.0	40	41	36.2	46.0	7.66	7.0	4.1	1.0
ER50	6.0-10.0	50	52	46.0	60.0	12.6	8.5	5.5	1.0
	10.0-34.0	50	52	46.0	60.0	12.6	8.5	5.5	2.0

Model	Types	
	Types	inch
ER8	1,1.5,2.2,5,3,3.5,4,4.5,5	1/32,3/64,1/16,5/64,3/32,7/64,1/8,9/64,5/32,11/64,3/16
ER11	1,1.5,2.2,5,3,3.5,4,4.5,5,5.5,6,6.5,7	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	1,1.5,2.2,5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10	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	1,1.5,2.2,5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13	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	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	3/64,1/16,5/64,3/32,7/64,1/8,9/64,5/32,11/64,3/16,13/64,7/32,15/64,1/4,17/64,9/32,19/64,5/16,21/64,3/8,7/16,29/64,15/32,31/64,1/2,33/64,17/32,35/64,9/16,37/64,19/32,39/64,5/8
ER32	1,1.5,2.2,5,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	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	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26	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
ER50	6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34	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

ER-A Nuts



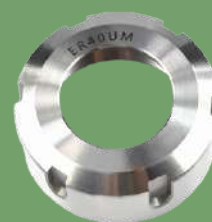
MODEL	L	D	M
ER11A	11.3	19	M14x0.75P
ER16A	17.5	28	M22x1.5P
ER20A	19	34	M22x1.5P

ER-M Nuts



MODEL	L	D	M
ER11M	12	16	M13x0.75P
ER16M	18	22	M19x1.0P
ER19M	19	28	M24x1.0P
ER20M	20	35	M30x1.0P

ER-UM Nuts



MODEL	L	D	M
ER25UM	20	42	M32x1.5P
ER32UM	22.5	50	M40x1.5P
ER40UM	25.5	63	M50x1.5P

ER-MS Nuts



MODEL	L	D	M
ER11MS	11.3	16	M13X0.75P
ER16MS	17	22	M19X1.0P
ER20MS	19	28	M24X1.0P
ER25MS	23	35	M30X1.0P

GER Nuts



MODEL	L	D	M
GER16	19	27	M22X1.5P
GER20	21	30	M24X1.0P
GER25	25	35	M30X1.0P
GER32	27	48	M40X1.5P

GSK Nuts



MODEL	L	D	M
GSK06	21	19	M15.5X1.0P
GSK10	24	27	M21.5X1.0P
GSK13	27	35	M28X1.5P
GSK16	31	40	M32X1.5P
GSK20	35	48	M40X1.5P
GSK25	37	55	M45X1.5P

ERM Spanners



Model of Spanners	Type of Nuts
ER 11 M	ER 11 M
ER 16 M	ER 16 M
ER 20 M	ER 20 M

ER Spanners



Model of Spanners	Type of Nuts
ER 11 A	ER 11 A
ER 16 A	ER 16 A
ER 20 A	ER 20 A

WTG Spanners



Model of Spanners	Type of Nuts
WTG - 42	ER 25
WTG - 52	ER 32 APU 13
WTG - 63	ER 40 APU 16
WTG - 85	ER 50 C 32

ER/UM Spaners



Model of Spanners	Type of Nuts
ER 25	ER 25 UM
ER 32	ER 32 UM
ER 40	ER 40 UM

GSK Spanners



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

ERMS Spanners

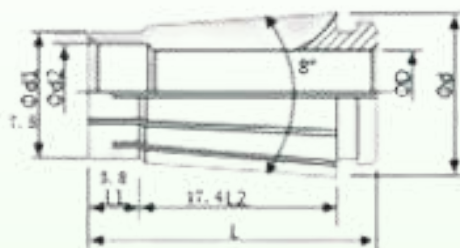


Model of Spanners	Type of Nuts
ER16MS	ER16MS
ER20MS	ER20MS

65Mn

HRC:44-48

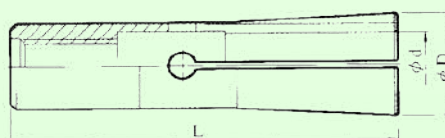
≤0.005mm.



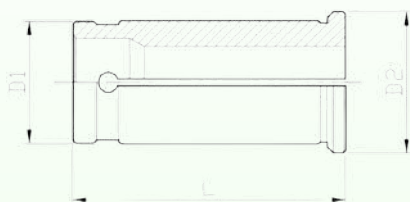
Size	Inside Diameter	d	d1	L	L1	L2
SK10	2,2.5,3,3.5,4,4.5,5,5.5,6, 6.5,7,7.5,8,8.5,9,9.5,10mm.	15.5	12	30.5	5.1	21.3
SK16	3,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10, 10.5,11,11.5,12,12.5,13,13.5,14,14.5,15,15.5,16 mm.	24.5	18.8	45	7.5	32.4
SK20	7.5,8,9.5,10,11.5,12,15.5,16, 16.5,17,17.5,18,18.5,19,19.5,20mm.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

SDC

SDC Collets



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



65Mn

HRC:44-48

≤0.01mm.

Size	Inside Diameter	D	D2	L
C20	3,4,5,6,8,10,12,16mm	20	25	52
C25	3,4,5,6,8,10,12,16,18,20mm	25	31	60
C32	3,4,5,6,8,10,12,16,18,22,24,20,25mm	32	37	73
C42	3,4,5,6,8,10,12,16,18,20,22,24,25,28,30,32mm	42	48	80

Tool Holder Sleeves

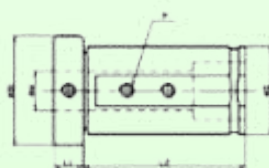


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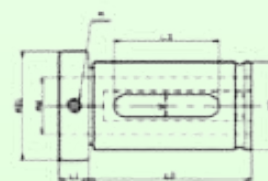
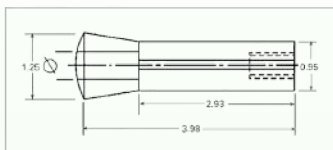


FIG2

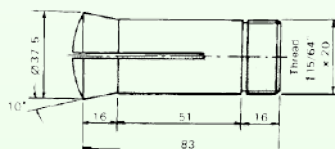
Model	D	D1	L1	L2	L3	W	M	Fig
D40(7PCS)	8;10;12;16;20	46.5	15	80			M8	1
	25;32	46.5	15	80	65	12		2
D32(6PCS)	8;10;12;16	39	14	70			M8	1
	20;25	39	14	70	58	10		2
D25(4PCS)	8;10;12	33	14	50			M8	1
	16	33	14	50	42	10		2
D20(3PCS)	8;10	28	12	50			M8	1
	12	28	12	50	42	8		2
D16(2PCS)	8	24	10	40			M8	1
	10	24	10	40	34	6		2

 ^{65}Mn

Model	Type	Clamping Range		Wt.
R8-d	Round	1-20	1/16-1/8	0.24

5C

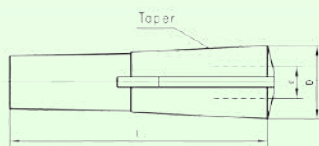
5C Collets



65Mn

Model	Type	Clamping Range		Wt.
5C-d	Round	1-28	1/32-1-1/8	0.24

Morse Taper Collets

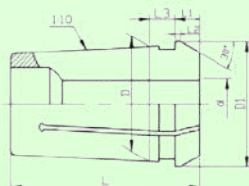


65Mn

Model	Type	Hole size	D	L	Wt.
MS2	2	2,3,4,5,6,8,10,12	18	68	0.08
MS3	3	2,3,4,5,6,8,10,12,14,16,17,18	24.1	86	0.10

EOC

EOC Collets



DIN6388

≤0.015MM

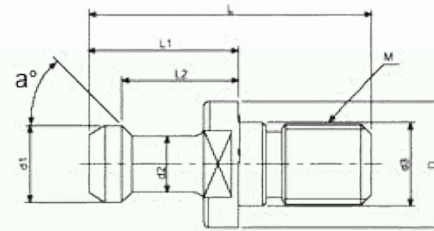
EOCA=OZ

65Mn

Tape : 1 : 10

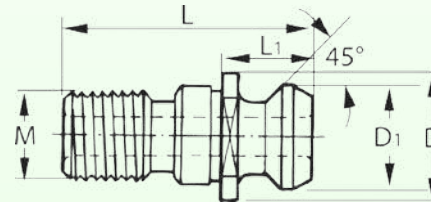
Model	D1	L	D2	
EOC25	35.5	52	Metric	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25
			Inch	1/8",3/16",1/4",5/16",3/8",7/16",1/2",9/16",5/8",11/16",3/4",13/16",7/8",15/16",1"
EOC32	44	60	Metric	6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32
			Inch	1/4",5/16",3/8",7/16",1/2",9/16",5/8",11/16",3/4",13/16",7/8",15/16",1"-1-1/8"-1-1/4"

MAS403-1982



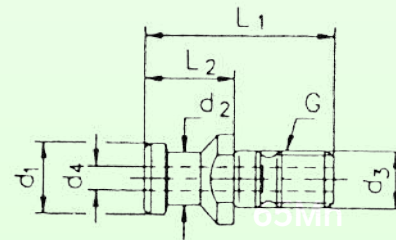
Model	L	L1	L2	D	D1	D2	H	H1	M	°		
BT30	43	23	18	12.5	7	11	5	2.5	M12	45°	60°	90°
BT40	60	35	28	17	10	15	6	3	M16	45°	60°	90°
BT50	85	45	35	25	17	23	10	5	M24	45°	60°	90°

MAZAK



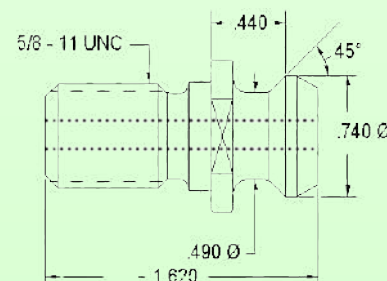
Model	L	L1	L2	D	D1	D2	H	H1	M
MAZAK-BT40	44.1	19.1	14.02	17	12.45	18.8	3.05	1.52	M16
MAZAK-CT40	41.25	16.25	11.17	17	12.45	18.8	3.05	1.52	M16
MAZAK-BT50	65.2	25.2	17.7	25	20.83	28.96	5.05	2.54	M24

DIN69872-1988

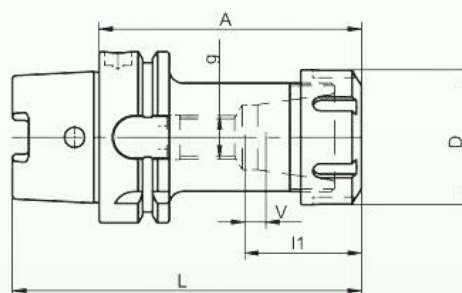


Model	L	L1	L2	D	D1	D2	M
JT30	44	24	19	13	9	13	M16
JT40	54	26	20	17	14	19	M16
JT50	74	34	25	25	21	28	M24

ANSI/ASME B5.50-1985



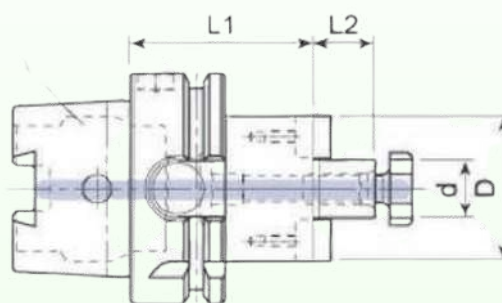
Model	L	L1	L2	D1	D2	H	H1	M
CAT30	27.94	11.68	8.13	9.78	13.21	2.54	1.01	12"-13
CAT40	38.1	16.26	11.18	12.45	18.8	3.05	1.52	5/8"-11
CAT50	58.42	25.4	17.78	20.83	28.96	5.08	2.54	1"-8



Pre-balanced nut. Entire branch through hole, conducive to water and anti-seismic.

According to customer needs, precision balance can be up to G6.3/15000 RPM of G2.5/30000RPM.

Model	Shank	Collets	Clamping Ranger	D	L1
HSK63A-ER16-80	HSK63A	ER16	1-10	28	80
HSK63A-ER16-100	HSK63A	ER16	1-10	28	100
HSK63A-ER16-125	HSK63A	ER16	1-10	28	125
HSK63A-ER16-160	HSK63A	ER16	1-10	28	160
HSK63A-ER20-80	HSK63A	ER20	1-13	34	80
HSK63A-ER20-100	HSK63A	ER20	1-13	34	100
HSK63A-ER20-125	HSK63A	ER20	1-13	34	125
HSK63A-ER20-160	HSK63A	ER20	1-13	34	160
HSK63A-ER25-80	HSK63A	ER25	2-16	42	80
HSK63A-ER25-100	HSK63A	ER25	2-16	42	100
HSK63A-ER25-125	HSK63A	ER25	2-16	42	125
HSK63A-ER25-160	HSK63A	ER25	2-16	42	160
HSK63A-ER32-100	HSK63A	ER32	2-20	50	100
HSK63A-ER32-125	HSK63A	ER32	2-20	50	125
HSK63A-ER32-160	HSK63A	ER32	2-20	50	160
HSK63A-ER40-100	HSK63A	ER40	3-26	63	100
HSK63A-ER40-120	HSK63A	ER40	3-26	63	120
HSK63A-ER40-160	HSK63A	ER40	3-26	63	160
HSK100A-ER16-100	HSK100A	ER16	1-10	28	100
HSK100A-ER16-125	HSK100A	ER16	1-10	28	125
HSK100A-ER16-160	HSK100A	ER16	1-10	28	160
HSK100A-ER20-100	HSK100A	ER20	1-13	34	100
HSK100A-ER20-125	HSK100A	ER20	1-13	34	125
HSK100A-ER20-160	HSK100A	ER20	1-13	34	160
HSK100A-ER25-100	HSK100A	ER25	1-16	42	100
HSK100A-ER25-125	HSK100A	ER25	1-16	42	125
HSK100A-ER25-160	HSK100A	ER25	1-16	42	160
HSK100A-ER32-100	HSK100A	ER32	2-20	50	100
HSK100A-ER32-125	HSK100A	ER32	2-20	50	125
HSK100A-ER32-160	HSK100A	ER32	2-20	50	160
HSK100A-ER40-100	HSK100A	ER40	3-26	63	100
HSK100A-ER40-120	HSK100A	ER40	3-26	63	120
HSK100A-ER40-160	HSK100A	ER40	3-26	63	160



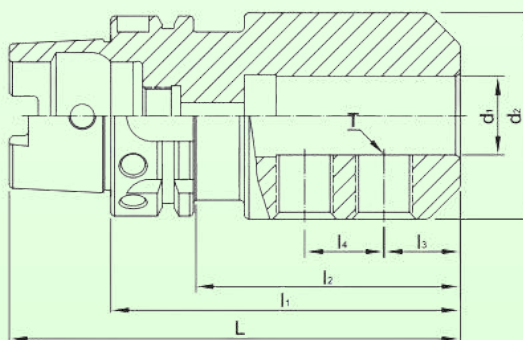
The tolerance of d : h6

Model	Shank	d	D	L1	L2
HSK63A-FMB22-50	HSK63A	22	48	50	19
HSK63A-FMB22-100	HSK63A	22	48	100	19
HSK63A-FMB22-150	HSK63A	22	48	150	19
HSK63A-FMB27-60	HSK63A	27	58	60	21
HSK63A-FMB27-100	HSK63A	27	58	100	21
HSK63A-FMB27-150	HSK63A	27	58	150	21
HSK63A-FMB32-60	HSK63A	32	78	60	24
HSK63A-FMB32-100	HSK63A	32	78	100	24
HSK63A-FMB32-150	HSK63A	32	78	150	24
HSK63A-FMB40-60	HSK63A	40	88	60	27
HSK100A-FMB22-50	HSK100A	22	48	50	19
HSK100A-FMB22-100	HSK100A	22	48	100	19
HSK100A-FMB22-150	HSK100A	22	48	150	19
HSK100A-FMB27-50	HSK100A	27	58	50	21
HSK100A-FMB27-100	HSK100A	27	58	100	21
HSK100A-FMB27-150	HSK100A	27	58	150	21
HSK100A-FMB32-50	HSK100A	32	78	50	24
HSK100A-FMB32-100	HSK100A	32	78	100	24
HSK100A-FMB32-150	HSK100A	32	78	150	24
HSK100A-FMB40-60	HSK100A	40	88	60	27
HSK100A-FMB40-100	HSK100A	40	88	100	27
HSK100A-FMB40-160	HSK100A	40	88	150	27



Model	Shank	d	Clamping Range	D	L1
HSK63A-HEC32-110	HSK63A	32	3-32	73	110
HSK63A-HEC32-130	HSK63A	32	3-32	73	130
HSK100A-HEC32-105	HSK100A	32	3-32	73	105
HSK100A-HEC32-115	HSK100A	32	3-32	73	115
HSK100A-HEC32-135	HSK100A	32	3-32	73	135
HSK100A-HEC32-165	HSK100A	32	3-32	73	165

HSK-A-SLN Side Lock End Mill Arbors

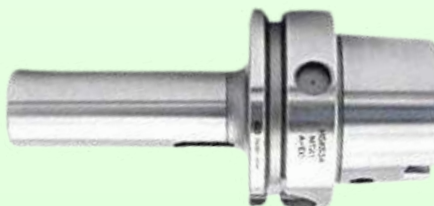


Model	d	d1	D	L	L1	L2	L3	D
HSK63A	16	48	63	80	54	24	-	63
HSK63A	20	52	63	80	54	25	-	63
HSK63A	25	65	63	110	84	24	25	63
HSK63A	32	65	63	110	84	24	28	63
HSK100A	16	48	100	100	74	24	-	100
HSK100A	20	52	100	100	74	24	-	100
HSK100A	25	65	100	100	74	24	25	100
HSK100A	32	72	100	100	74	24	28	100
HSK100A	40	80	100	120	94	30	32	100

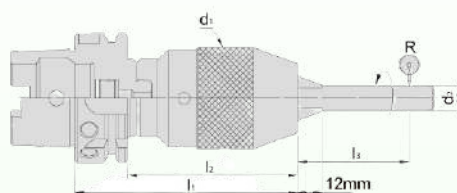


Model	L	L1	D	L1	MT
HSK63A-MTA1-100	100	74	63	25	1
HSK63A-MTA2-120	120	94	63	32	2
HSK63A-MTA3-140	140	114	63	40	3
HSK63A-MTA4-160	160	134	63	48	4
HSK63A-MTA1-110	110	81	100	25	1
HSK63A-MTA2-120	120	91	100	32	2
HSK63A-MTA3-150	150	121	100	40	3
HSK63A-MTA4-170	170	141	100	48	4
HSK63A-MTA5-200	200	171	100	63	5

HSK-A-MTB Tool Holders

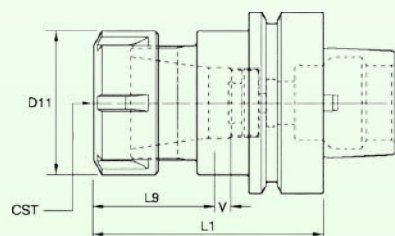


Model	L	L1	D	L1	MT
HSK63A-MTA1-100	100	74	63	25	1
HSK63A-MTA2-120	120	94	63	32	2
HSK63A-MTA3-140	140	114	63	40	3
HSK63A-MTA4-160	160	134	63	48	4
HSK63A-MTA1-110	110	81	100	25	1
HSK63A-MTA2-120	120	91	100	32	2
HSK63A-MTA3-150	150	121	100	40	3
HSK63A-MTA4-170	170	141	100	48	4
HSK63A-MTA5-200	200	171	100	63	5



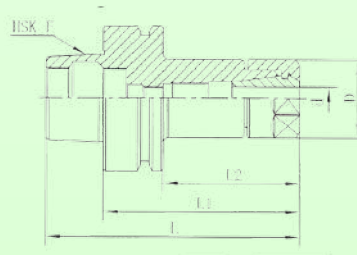
Model	l1	l2	l3	d1	d2	R	Wt
HSK50A-SPU13-150	150	124	55	50	5	0.04	1.4
HSK63A-SPU13-150	150	124	55	50	10	0.04	2.1
HSK100A-SPU13-150	155	126	75	50	13	0.04	3.1

HSK-F-ER Collets Holders



Model	Clamping Range	D	L	L1
HSK63F-ER16-70	1.0-10.0	28	70	44
HSK63F-ER16-100	1.0-10.0	28	100	74
HSK63F-ER20-100	1.0-13.0	34	100	74
HSK63F-ER25-100	1.0-16.0	42	100	74
HSK63F-ER32-73	3.0-20.0	50	73	47
HSK63F-ER40-75	4.0-26.0	63	75	47

HSK-E-GSK Collets Chucks

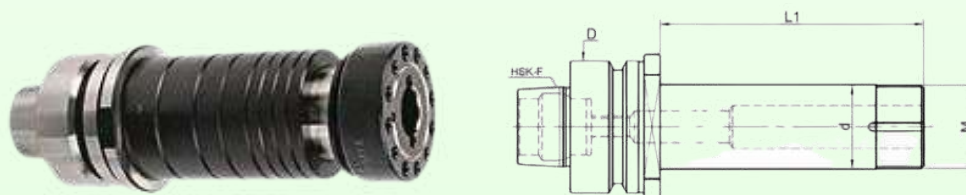


Model	Clamping Range	D	L	L1
HSK40E-GSK10-60	2.0-10.0	27.5	60	40
HSK40E-GSK16-60	3.0-16.0	40	60	40
HSK50E-GSK10-80	2.0-10.0	27.5	80	54
HSK50E-GSK16-80	3.0-16.0	40	80	54



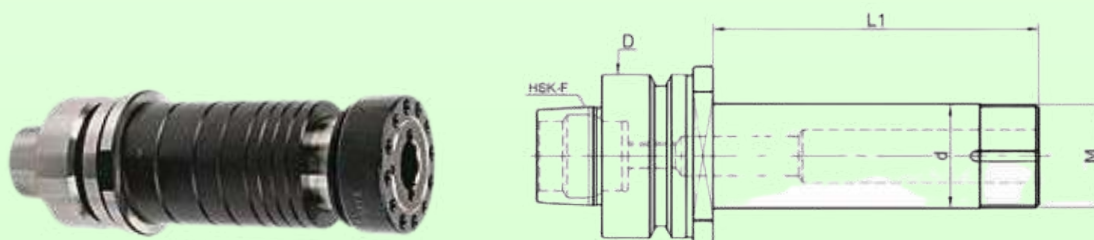
Model	D	d	L1	M
HSK40F-OD31.75-75	Ø40	Ø31.75	75	M31.5x1.5
HSK40F-OD31.75-95	Ø40	Ø31.75	95	M31.5x1.5
HSK40F-OD31.75-85	Ø50	Ø31.75	85	M31.5x1.5
HSK40F-OD31.75-100	Ø50	Ø31.75	100	M31.5x1.5

HS40FC-OD Grinding Wheel Arbors

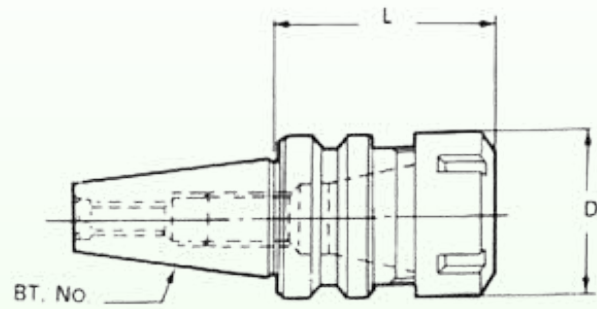


Model	D	d	L	L1	M
HSK40FC-OD20-95A	Ø40	Ø20	95	/	M20X1.5
HSK40FC-OD31.75-95-A	Ø40	Ø31.75	95	/	M31.5x1.5
HSK40FC-OD31.75-95-B	Ø40	Ø31.75	95	1	M31.5x1.5

HS40FC-OD Grinding Wheel Arbors



Model	D	d	L	L1	M
HSK63F-OD31.75-80	Ø63	Ø31.75	80	42	M31.5x1.5
HSK63F-OD31.75-80-L	Ø63	Ø31.75	80	42	M31.5x1.5



MAS403

20CrMnTi

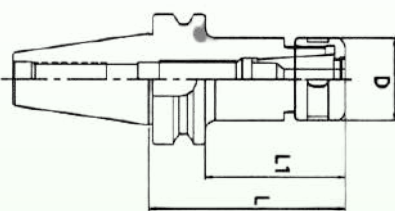
≤0.005 mm

≥12000rpm

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
BT40-16A-100	100	28	44.45
BT40-ER20A-100	100	34	44.45
BT40-ER25UM-100	100	42	44.45
BT40-ER32UM-150	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



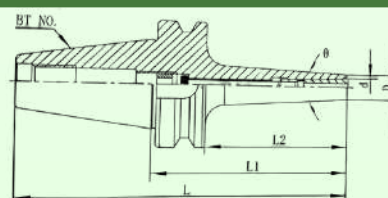
Mode	Qty.Sizes	Bar Thread
BT30-ER16-70L	8PCS(3-10mm)	M12-1.75P
BT30-ER32-70L	6PCS(6-20mm)	M12-1.75P
	11PCS(4-20mm)	
	18PCS(3-20mm)	
BT40-ER32-70L	6PCS(6-20mm)	M16-2.0P
	11PCS(4-20mm)	
	18PCS(3-20mm)	
BT40-ER40-80L	7PCS(6-25mm)	M162.0P
	15PCS(4-26mm)	
	23PCS(4-26mm)	
BT40-ER16-100L	8PCS(3-10mm)	M12-1.75P
BT40-ER20-100L	11PCS(3-13mm)	M12-1.75P
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-ER32-150L	8PCS(3-10mm)	M24-3.0P
	6PCS(6-200mm)	
	11PCS(4-20mm)	
BT50-ER40-150L	PCS(183-20mm)	M24-3.0P
	7PCS(6-25mm)	
	15PCS(4-26mm)	



MAS403
20CrMnTiH
<0.005mm
>30000rpm

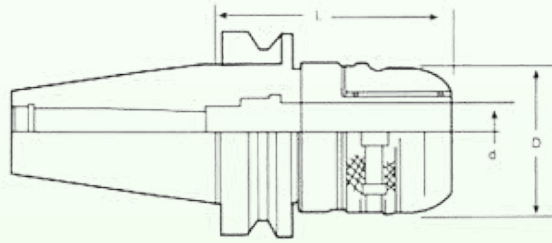
Model	Clamping	L	L1	D1	Collets
BT30-SK10-60	3-10	60	33	29	SK10
BT30-SK10-90		90	63		
BT30-SK16-60	3-16	60	33	40.5	SK16
BT30-SK16-90		90	63		
BT40-SK10-60	3-10	60	33	29	SK10
BT40-SK10-90		90	63		
BT40-SK16-60	3-10	60	33	40.5	SK16
BT40-SK16-90		90	63		

SDC Collets Chuck



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

Model		L	L1	L2	B	D	d
BT30	SDC06-60	108.4	50	38	6°	14	3-6
	SDC06-90	138.4	90	68	6°	14	3-6
	SDC08-60	108.4	50	38	6°	22	3-8
	SDC08-90	138.4	90	68	6°	22	3-8
	SDC-12-80	128.4	80	58	-	34	3-12
BT40	SDC06-100	165.4	100	73	6°	14	3-6
	SDC-06-150	215.4	150	123	6°	14	3-6
	SDC-08-100	165.4	100	73	6°	22	3-8
	SDC-08-150	215.4	150	123	6°	22	3-8
	SDC-12-100	165.4	100	73	-	34	3-12
	SDC-12-150	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
	SDC-08-150	251.8	150	112	6°	22	3-8
	SDC-12-100	201.8	100	62	-	34	3-12
	SDC-12-150	251.8	150	112	-	34	3-12

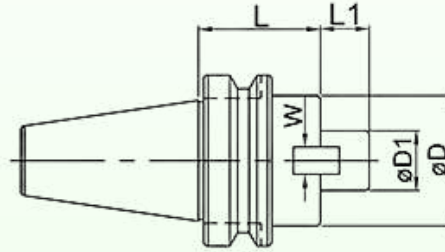


65Mn

HRC:44-48

≤0.01mm.

Size of shank & Collets		Bacck Bar Thread	wt.
MT4	C32-75L	M16x2.0P	2.5
MT5	C32-75L	M24x3.0P	3.5
	C42-110L		5
R8	C20-85L	7/16" - 20	2.5
NT30	C20-65L	M12x1.75P	3
NT40	C20-70L	M16x2.0P	3.5
	C32-95L		4
NT50	C32-100L	M24x3.0P	4.5
	C42-110L		6
BT30	C20-85L	M12x1.75P	2.5
	C25-85L		3
BT40	C20-90L/120L	M16x2.0P	3.0/4.0
	C20-25-95L/130L		4.5/5.0
	C32-105L/135L		3.0/3.5
BT50	C32-110L/150L	M24x3.0P	5.2/7.0
	C32-110L/135L		6.5/7.5



MAS403

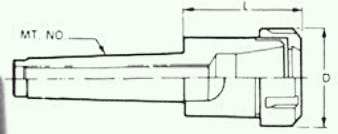
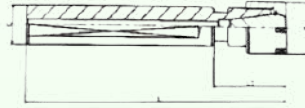
20 CrMnTi

$\geq 12000\text{rpm}$

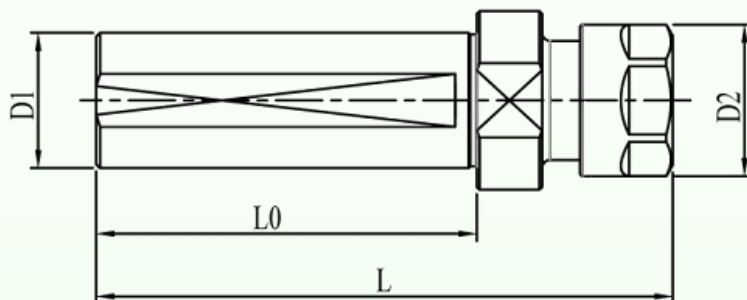
Model	L1	D	d
BT30 - FMB22 - 45	45	50	22
BT30 - FMB27 - 45	45	60	27
BT30 - FMB32 - 60	60	78	32
BT40 - FMB22 - 60	60	48	22
BT40 - FMB22 - 100	100	48	22
BT40 - FMB27 - 60	60	60	27
BT40 - FMB32 - 60	60	78	32
BT40 - FMB40 - 60	60	89	40
BT50 - FMB22 - 100	100	50	22
BT50 - FMB27 - 100	100	60	27
BT50 - FMB32 - 100	100	78	32
BT50 - FMB40 - 100	100	98	40
BT50 - FMB60-75	75	140	60

≥12000rpm

20CrMnTi

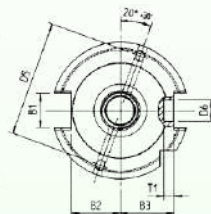
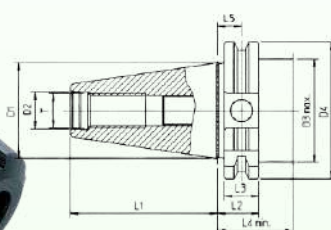


Model	L	L1	C	D
C10-ER8A/M-100	117	100	10	12
C10-ER11A/M-100	121.6/116.6	100	10	19/16
C12-ER16A/M-100	121.6/116.6	100	12	19/16
C12-ER16A/M-100	140/137	100	121	28/22
C16-ER11A/M-100	121.6/116.6	100	6	19/16
C16-ER16A/M-100	140/137	100	16	28/22
C16-ER16A/M-150	190/187	100	16	28/22
C20-ER16A/M-100	140/137	100	20	28/22
C20-ER16A/M-150	190/187	100	20	28/22
C20-ER20A/M-100	140/137	100	20	28/22
C20-ER25UM-100	190/187	100	20	34/28
C20-ER32UM-100	140.5/140	100	20	42
C25-ER20UM-100	51	100	25	50
C25-ER25UM-100	51.5	100	25	42
C25-ER32UM-100	51.5	100	25	50
C32-ER32UM-100	51.5	100	32	50
C32-ER32UM-150	51.5	100	32	50
C40-ER32UM-100	51.5	100	40	50
C40-ER40UM-100	65	100	40	63



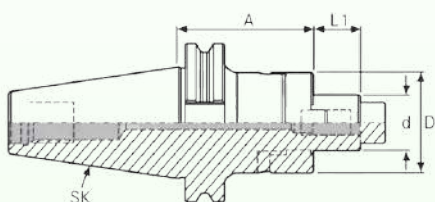
- Applicable to a variety of CNC lathes, Swiss Type, or walk the knife-type automatic lathes, etc., can be used as a knife folder (folded drills, end mills, small boring tool, etc.) can be shock-absorbing efficiency
- Material: 42CrMo
- Hardness: HRC52
- Hole concentricity: 0.005mm
- Clamping handle bit-side leveling screw for locking the side of a knife block.

Model	L	L1	C	D
SL20-ER11-60	76.6	16.6	20	16
SL20-ER16-60	66.6	26.6	20	22
SL20-ER20-65	97	32	20	28
SL25-ER16-65	97	32	25	22
SL25-ER20-65	97	32	25	28
SL25-ER25-65	97	32	25	42
SL25-ER25-70	108	38	25	50
SL32-ER16-65	97	32	32	22
SL32-ER20-70	102	32	32	28
SL32-ER25-70	102	32	32	42
SL32-ER32-70	108	38	32	50
SL32-ER40-70	120	50	32	63
SL40-ER32-70	108	38	40	50
SL40-ER40-75	128	53	40	63
SL45-ER32-120	178	120	45	50
SL45-ER40-65	180	120	45	63
SL1-1/4"-ER25-60	97	60	1-1/4"1	42
SL1-1/4"-ER32-60	103	60	1-1/4"1	50
SL1-1/4"-ER40-60	120	60	1-1/4"1	63
SL1-1/2"-ER32-80	118	80	1-1/2"	50
SL1-1/2"-ER40-75	135	75	1-1/2"	63



DIN69871-A
20CrMnTi
<0.005mm
>12000rpm

Model	L	L1	D	d1	d2	Thread	KGS
SK30-ER11-100	148.4	80	50	19	11	M6*1P	0.6
SK30-ER16-100	148.4	100		28	16	M10*1.5P	0.7
SK30-ER20-100	148.4	100		34	20	M12*1.75P	0.75
SK40-ER11-80	148.4	80	63.55	19	11	M6*1P	1.05
SK40-ER16-70	148.4	70		28	16	M10*1.5P	1.3
SK40-ER16-100	138.4	100		28	16	M10*1.5P	1.4
SK40-ER20-100	168.4	100		34	20	M12*1.75P	1.5
SK40-ER25-100	168.4	100		42	25	M16*2P	1.85
SK40-ER25-150	218.4	150		42	25	M16*2P	2.25
SK40-ER32-70	138.4	70		50	32	M16*2P	1.6
SK40-ER32-100	168.4	100		50	32	M16*2P	2
SK40-ER40-70	138.4	70		63	40	M16*2P	1.5
SK40-ER40-100	168.4	100		50	32	M16*2P	2
SK40-ER40-135	203.4	135		63	40	M16*2P	3.3
SK50-ER16-100	201.4	100	97.5	28	16	M10*1.5P	3.2
SK50-ER16-160	261.75	160		28	16	M10*1.5P	4.5
SK50-ER20-100	201.75	100		34	20	M12*1.75P	3.4
SK50-ER20-160	261.75	160		34	20	M12*1.75P	3.8
SK50-ER25-70	171.75	70		42	25	M16*2P	3.4
SK50-ER25-100	201.75	100		42	25	M16*2P	4.15
SK50-ER25-150	251.75	150		42	25	M16*2P	4.5
SK50-ER32-120	221.75	120		50	32	M16*2P	4.6
SK50-ER32-160	261.75	160		50	32	M16*2P	4.75
SK50-ER40-80	181.75	80		63	40	M16*2P	3.65
SK50-ER40-120	221.75	120		63	40	M16*2P	4.8
SK50-ER40-160	261.75	160		63	40	M16*2P	5.2
SK50-ER50-120	221.75	120		78	50	M20*2.5P	5.45
SK50-ER50-160	261.75	160		78	50	M20*2.5P	5.55

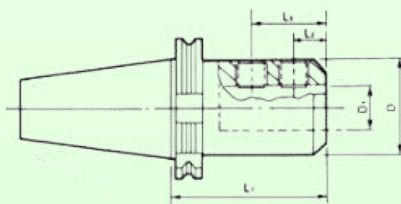


DIN69871-A

20CrMnTi

Model	L	l2	l3	d2	d3	k1	k2	KGS
SK30-FMB22-35	100.8	18	14	26	47	4.8	10	1.00
SK30-FMB27-35	102.8	20	16	31.5	58	5.8	12	1.05
SK40-FMB22-35	121.4	18	14	26	47	4.8	10	1.20
SK40-FMB27-60	148.4	20	16	31.5	58	5.8	12	1.8
SK40-FMB32-60	150.4	22	16	41	66	6.8	14	2.3
SK40-FMB40-60	153.4	25	20.5	48	80	8.3	16	2.8
SK50-FMB22-35	154.75	18	14	26	47	4.8	10	3.4
SK50-FMB27-35	156.75	20	16	31.5	58	5.8	12	3.5
SK50-FMB32-35	158.75	22	16	41	66	6.8	14	3.7
SK50-FMB40-50	189.75	25	20.5	48	80	8.3	16	4.7

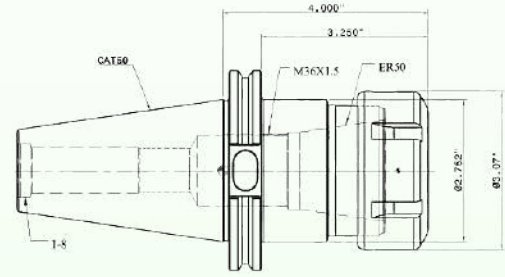
SK Side Lock End Mill Arbors



DIN69871-A

20CrMnTi

Model	L	l2	l3	L2	d2	T	KGS
SK30-SLN12-50	97.8	50	42	22.5	42	M12x1.75P	0.9
SK30-SLN16-63	97.8	63	48	24	48	M14x2.0P	1.10
SK40-SLN16-63	131.4	63	48	24	48	M14x2.0P	1.4
SK40-SLN20-63	131.4	63	52	25	52	M16x2.0P	1.3
SK40-SLN25-100	168.4	100	65	24	65	M18x2.0P	2.4
SK40-SLN32-100	168.4	100	72	24	72	M20x2.0P	2.7
SK50-SLN20-63	164.75	63	52	25	52	M16x2.0P	3.5
SK50-SLN25-80	181.75	80	65	24	65	M18x2.0P	4.2
SK50-SLN32-100	201.75	100	72	24	72	M20x2.0P	5.0
SK50-SLN40-100	201.75	100	90	30	90	M20x2.0P	5.6



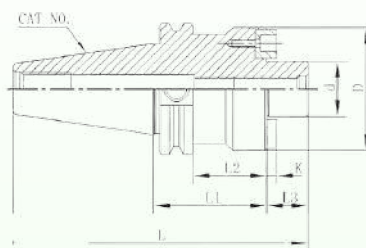
ANSI B5.50

20CrMnTi

≤0.005MM

≥12000rpm

Model	L	L1	D	d1	d2	Thread	KGS
CAT40-ER16-2.76"	5.447"	2.76"	2.5"	1.102"	1.75"	M10*1.5P	1.05
CAT40-ER16-4"	6.687"	4"		1.102"		M10*1.5P	1.35
CAT40-ER16-6"	8.687"	6"		1.102"		M10*1.5P	1.65
CAT40-ER20-2.76"	5.447"	2.76"		1.339"		M12*1.75P	1.25
CAT40-ER20-4"	6.687"	4"		1.339"		M12*1.75P	1.65
CAT40-ER25-2.76"	5.447"	2.76"		1.654"		M16*2P	1.35
CAT40-ER25-4"	6.687"	4"		1.654"		M16*2P	1.70
CAT40-ER25-6"	8.687"	6"		1.65"		M16*2P	2.25
CAT40-ER32-2.76"	5.447"	2.76"		1.969"		M16*2P	1.25
CAT40-ER32-4"	6.687"	4"		1.969"		M16*2P	1.75
CAT40-ER32-5"	8.687"	6"		1.969"		M16*2P	2.15
CAT40-ER40-3.15"	5.837"	3.15"		2.480"		M20*2.5P	1.80
CAT40-ER40-4"	6.687"	4"		2.480"		M20*2.5P	2.05
CAT40-ER40-6"	8.687"	6"		2.480"		M20*2.5P	3.3
CAT40-ER50-4"	6.687"	4"		3.070"		M24*3.0P	2.65
CAT50-ER16-4"	8"	4"	3.875"	1.102"	2.75"	M10*1.5P	4.10
CAT50-ER16-6"	10"	6"		1.102"		M10*1.5P	4.28
CAT50-ER20-4"	8"	4"		1.339"		M12*1.75P	4.20
CAT50-ER20-6"	10"	6"		1.339"		M12*1.75P	4.45
CAT50-ER25-4"	8"	4"		1.654"		M16*2P	4.15
CAT50-ER25-6"	10"	6"		1.654"		M16*2P	4.50
CAT50-ER32-4"	8"	4"		1.969"		M16*2P	4.70
CAT50-ER32-6"	10"	6"		1.969"		M16*2P	4.60
CAT50-ER32-4"	8"	4"		2.480"		M20*2.5P	4.25
CAT50-ER40-6"	10"	6"		2.480"		M20*2.5P	4.80
CAT50-ER50-4"	8"	4"		3.070"		M24*3.0P	4.85



ANSI B5.50

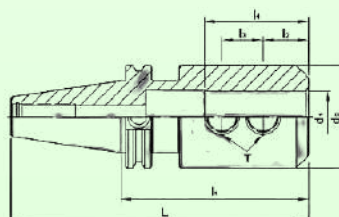
20CrMnTi

≤0.005MM

≥12000rpm

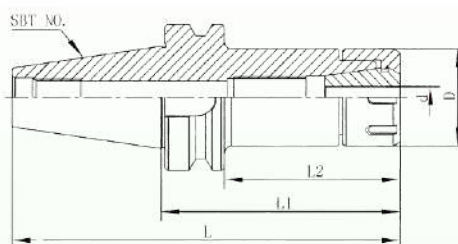
Model	L	L2	d1	d3
CAT40-FMB1 " - 1.75"	1.75"	17.5	1"	60
CAT40-FMB1.25 " - 2"	2"	17.5	1.25"	70
CAT40-FMB1.5 " - 2"	2"	23.8	1.5"	85
CAT50-FMB1.25 " - 4"	4"	17.5	1.25"	70
CAT50-FMB1.25 " - 6"	6"	17.5	1.25"	70
CAT50-FMB1.5 " - 4"	4"	23.8	1.5"	85
CAT50-FMB1.5 " - 6"	6"	23.8	1.5"	85
CAT50-FMB2 " - 2"	2"	24	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	l2	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"	2.65"	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
CAT40-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



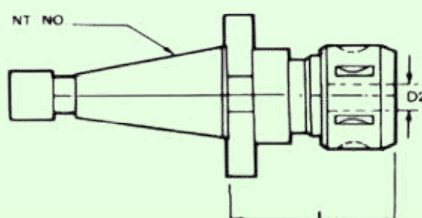
MAS403

20CrMnTi

≥12000rpm

Model	D2	L	D	L1	Collets	Back BarThread
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 Holders

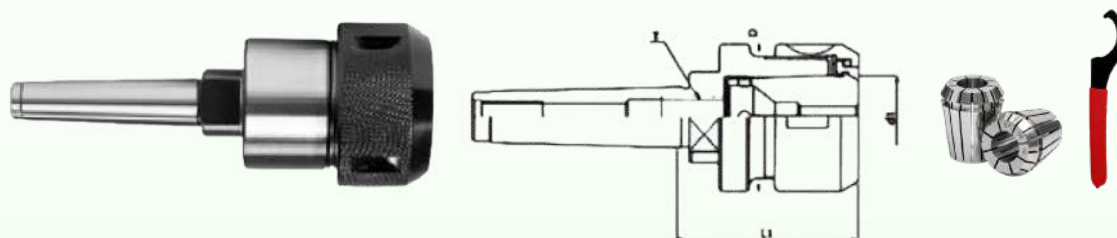


MAS403

20CrMnTi

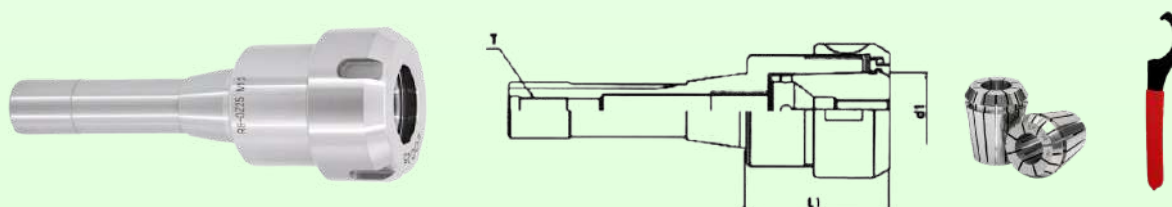
≥12000rpm

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

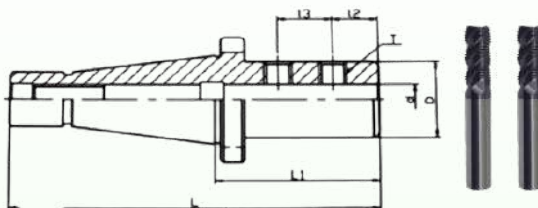


Model	D2	L1	Collets	Back Bar Thread
MT3-OZ25-60	3-25	60	OZ25	M10x1.0P
MT4-OZ25-60	3-25	60	OZ25	M16x2.0P
MT5-OZ25-75	3-25	75	OZ25	M24x3.0P
MT5-OZ32-75	6-32	75	OZ32	

R8-OZ Collets Holders



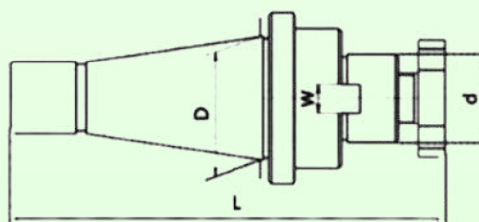
Model	D2	L1	Collets	Back Bar Thread
R8-OZ25-60	3-25	60	OZ25	7/16-20UNF



DIN2080

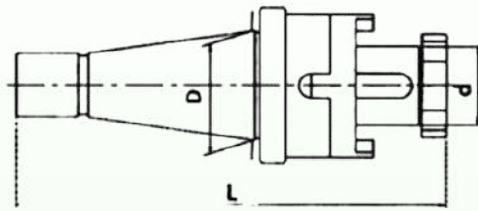
Model	L1	D	d	l2	l3
NT30 - SLN20 - 63	63	52	20	25	-
NT30 - SLN25 - 80	82	65	25	24	25
NT40 - SLN20 - 63	63	52	20	25	-
NT40 - SLN25 - 80	80	65	25	24	25
NT40 - SLN32 - 80	80	72	32	24	28
NT50 - SLN25 - 80	80	65	25	24	25
NT50 - SLN32 - 80	80	72	32	24	28
NT50 - SLN40 - 100	100	90	40	30	32
NT50 - SLN42 - 100	100	90	42	30	32

NT Shell End Mill Arbors



DIN2080

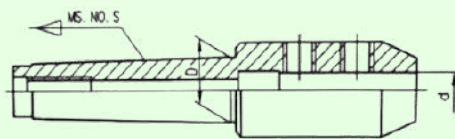
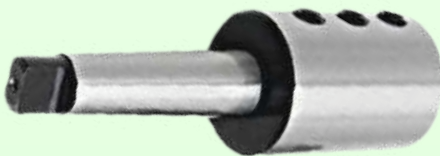
Model	D	d	W	L
NT30 - FMB22	31.75	22	10	129
NT30 - FMB27		27	12	134
NT40 - FMB22	44.45	22	10	156
NT40 - FMB27		27	12	159
NT40 - FMB32		32	14	178
NT50 - FMB22	69.85	22	10	208
NT50 - FMB27		27	12	211
NT50 - FMB32		32	14	215
NT50 - FMB40		40	16	219



DIN2080

Model	Shank	d	L	Wt
NT30 - 13	IS030	13	120	0.608
NT30 - 16	IS030	16	131	0.746
NT30 - 22	IS030	22	132	1.038
NT30 - 27	IS030	27	135	1.471
NT30 - 32	IS030	32	151	2.101
NT40 - 16	IS040	16	168	1.3
NT40 - 22	IS040	22	171	2.042
NT40 - 27	IS040	27	174	2.69
NT40 - 32	IS040	32	178	2.679

MT Side Lock End Mill Arbors



DIN228

Model	D	d		
			Inch	Inch
MT2-20	17.780	4-20	3/16" - 3/4"	3/8 " - 3/4
MT3-25	23.825	4-25	3/16" - 1 "	3/8 " -1 "
MT4-40	31.267	4-40	3/16" - 1 - 1/2 "	3/8 " - 1 - 1/2 "
MT5-63	44.399	4-63	3/16" - 1/2 "	3/8 " - 1 - 1/2 "



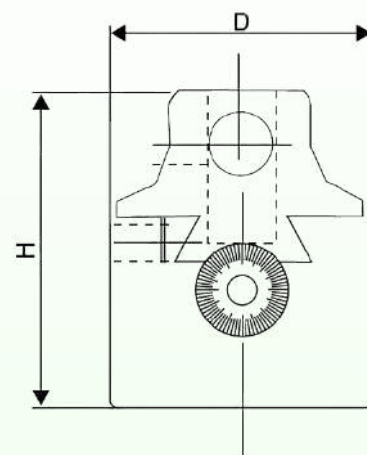
F1-25mm (4")



F1-18mm (3")



F1-12mm (2")



Model	D	H	Max Offset	Boring BarDia.	Min Graduation	Dia.of Boring
F1-2"	2"	2-7/16"	5/8"	1/2"	0.01mm	3/8"-5"
F1-3"	3"	3-5/32"	1"	3/4"	0.01mm	1/2"-9"
F1-4"	4"	3-1/2"	1-5/8"	1"	0.01mm	5/8I-25"
F1-12mm	50	63	16 mm	12 mm	0.01mm	10-125 mm
F1-18mm	75	80	25 mm	18 mm	0.01mm	12-225 mm
F1-25mm	100	88	41 mm	25 mm	0.01mm	15-630 mm

F1 Rough Boring Heads Shanks



9PCS for 12mm



12PCS for 18mm



6PCS for 25mm

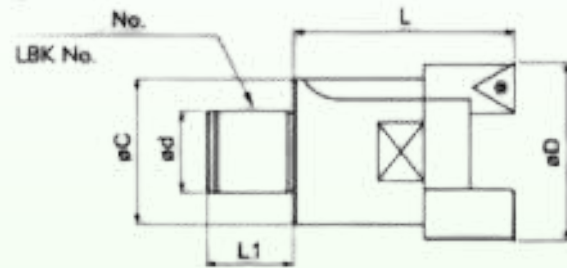
Metric			Inch		Qty.of Boring Cutters	Bar Thread
Dia.of Boring Holes	Dia.of Boring Heads	Boring Capacity	Dia.of Boring Heads	Dia.of Boring Heads		
F1-12 mm	50 mm	10-125 mm	F1-2"	1/2"	9 PCS	7/8/2020 1-1/2-18
F1-18 mm	75 mm	12-225 mm	F1-3"	3/4"	12 PCS	1-1/2-18
F1-25 mm	100 mm	15-320 mm	F1-4"	1"	6 PCS	1-1/2-18



Model	T	L	Wt.
BT40	M16-2.0P	102	1.24
BT50	M24-30.P	134	3.97
NT30	1/2 - UNC	102	0.6
NT30	M12-1.75P	102	0.6
NT40	5/8 - UNC	135	1.2
NT40	M16-2.0P	135	1.2
NT50	1" - 8 UNC	168	3.14
NT50	M24 - 3.0P	168	3.14
MT2	3/8-16 UNC	93	0.4
MT2	M10 - 1.5P	108	0.4
MT3	3/8-16 UNC	110	0.44
MT3	1/2-13 UNC	100	0.44
MT3	1/2-12 UNC	110	0.44
MT3	M12-1.75P	128	0.44
MT4	5/8 - 11 UNC	133	0.95
MT4	M16-2.0P	154	0.95
MT5	1" - 8 UNC	160	1.7
MT5	M24-3.0P	185	1.7
R8	7/16-20 UNF	132.5	0.6

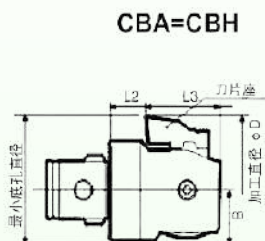
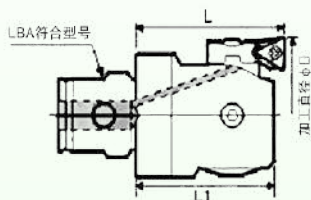
***Please state the detailed size when ordering; e.g.: F1-R8-18mm.**





Model	Boring Range	D	L	LBK No.	Insert	Screw	Wrench
RBH-25-35LA-C	25-35	24	50	LBK2	CC,,0.602	M2.5 -6.0	T8
RBH-32-45LA-C	32-45	31	60	LBK3		-3.5	
RBH-32-45LA-T						TC,,1.102	
RBH40-55LA-C	40-55	39	74	LBK4	CC,,09T3	M4-10-5.7-60	T15
RBH40-55LA-T					TC,,.16T3	M4-10-5.0-43	
RBH52-75LA-C	52-75	50	80	LBK5	CC,,09T3	M4-10-5.7-60	
RBH52-75LA-T					TC,,.16T3	M4-10-5.0-43	
RBH68-100LA-C	68-130	66	90	LBK6	CC,,.1204	M5-11-7.0-5.5	T20
RBH68-100LA-T					TC,,.16T3	M4-10-5.0-43	T15
RBH90-130LA-C	90-130	88	100		CC,,.1204	M5-11-7.0-5.5	T20
RBH90-130LA-T					TC,,.16T3	M4-10-5.0-43	T15
RBH120-164LA-C	120-164	100	95	BST series	CC,,.1204	M5-11-7.0-5.5	T20
RBH120-164LA-T	160-204	130			TC,,.2204		
RBH160-164LA-C					CC,,.1204		
RBH160-164LA-T					TC,,.2204		





Model	Insert seat	Sck. No.	Internal Boring			External Boring				Insert/ Screw/ Wrench
			Ranger	L	L1	Ranger	L2	L3	B	
CBA20 (20-36)	ENH1-1	LBK1	20-26	35	32	-	10.5	19	10	TR08
	ENH1-2		25-31			30-31				
	ENH1-3		30-36			30-36				
CBA25 (25-47)	ENH2-1	LBK2	25-33	40	37	-	11.5	21	12.5	TR08
	ENH2-2		32-40			36-40				
	ENH2-3		39-47			39-47				
CBA32 (32-60)	ENH3-1	LBK3	32-42	40	37	-	10	25	16	TR08
	ENH3-2		41-51			46-51				
	ENH3-3		50-60			50-60				
CBA40 (40-79)	ENH4-1	LBK4	40-55	50	47	-	14	29	20	TC11
	ENH4-2		51-66			53-63				
	ENH4-3		64-79			64-79				
CBA52 (52-112)	ENH5-1	LBK5	52-75	60	56	62-70	19	34	25.5	TC11
	ENH5-2		70-93			65-82				TC11
	ENH5-3		89-112			78-95				TC11
CBA68 (68-150)	ENH6-1	LBK6	68-100	70	66	80-100	22	45.2	32.5	TC11
	ENH6-2		94-125			94-126				TC11
	ENH6-3		118-150			118-150				TC11
CBA100 (100-203)	ENH6-1	LBK6	100-153	70	66	112-153	22	45.2	32.5	TC11
	ENH6-2		126-179			126-179				TC11
	ENH6-3		150-203			150-203				TC11
CBA150 (150-210)		LBK6/ BST	150-210	70	66	150-203	38	45.2	45.5	TC11

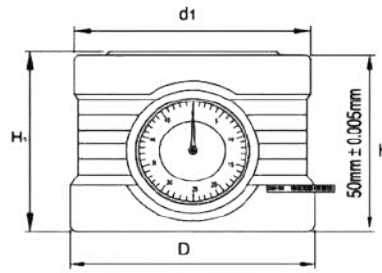


Model	Boring Range	Type	Wt.
BT30-NBH2084-8PCS	08-280	M12-1.75P	8.0
BT40-NBH2084-8PCS	08-280	M16-2.0P	9.5
BT50-NBH2084-8PCS	08-280	M24-3.0P	12.0
R8-NBH2084-8PCS	08-280	7/16"-20UNC	10.0
NT30-NBH2084-8PCS	08-280	1/2"-12UNC	8.0
NT30-NBH2084-8PCS	08-280	M12-1.75P	8.0
NT40-NBH2084-8PCS	08-280	5/8"-11UNC	9.5
NT40-NBH2084-8PCS	08-280	M16-2.0P	9.5
NT50-NBH2084-8PCS	08-280	1"-8UNC	10.8
NT50-NBH2084-8PCS	08-280	M24-3.0P	10.8
MT3-NBH2084-8PCS	08-280	M12-1.75P	7.8
MT4-NBH2084-8PCS	08-280	M16-2.0P	10.3
MT5-NBH2084-8PCS	08-280	M24-3.0P	10.8
MT3-NBH2084-8PCS	08-280	TANG	7.8
MT4-NBH2084-8PCS	08-280	TANG	10.3
MT5-NBH2084-8PCS	08-280	TANG	10.8
20-NBH2084-8PCS	08-280	20-60	7.9
25-NBH2084-8PCS	08-280	20-60	8.0
32-NBH2084-8PCS	08-280	32-60	8.1

Tool Holder Devices



Model	
HV-BT30	MAS403-BT30
HV-BT40	MAS403-BT40
HV-BT50	MAS403-BT50

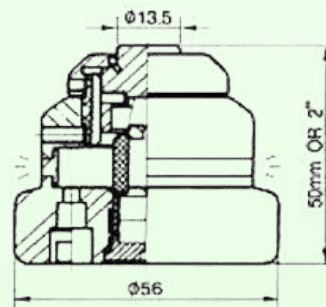


Features:

1. Used in the computer milling machine/lathe for the tool length.
2. Height: $50.00 \pm 0.01\text{mm}$.
3. Large measuring surface. Easy to use
4. Low force spring. avoiding the fracture of small cutter and drill.
5. Easy to be calibrated by a grade parallel or gauge block
6. Better parallelism, sensitivity

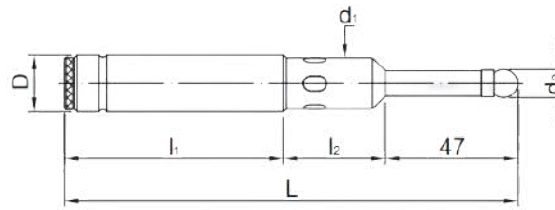
Model	Pattern	Gross Attitude
ZDI-50A	Volume-adjusting	50

Z-Axis Scale Zero Setters with Electro-optical



Features:

1. Height: 50mm.
2. With magnetic base.
3. The red lamp will be lighted up when touched
4. Accuracy: 0.005mm .
5. Combined vertical and horizontal in a unit
6. Weight: 0.5kgs.



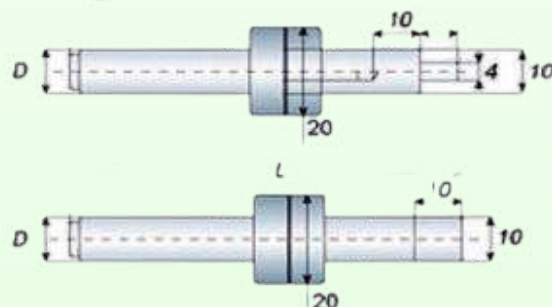
Model	D(mm)	L(mm)	D(mm)	Wt.
ES-20	20	160	10	0.28

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

Features:

1. Not necessary to rotate while measuring
2. Quickly locate work edges
3. Save time to find positions for milling machine, jig borers, and other machine tools
4. the scope of application includes edge surface, Inside and outside diameters and high efficiency.
5. There is a safety spring which puts the ball precisely back to the positing when ball breaks away from ball seat.
6. Accuracy: 0.003-0.005mm.

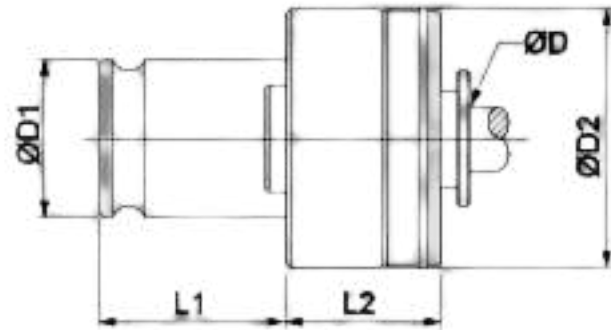
Machine Edge Finders



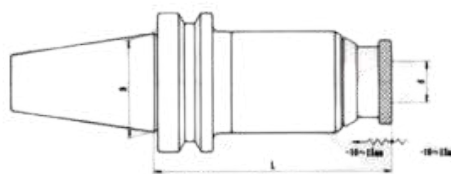
Model	D(mm)	L(mm)	D(mm)
PM10-A	10	90	1
PM10-B	10	83	2

Features:

1. Mechanical edge finder for quick and easy location of round or flat work.
2. material: High quality steel
3. Accuracy of zero point to point is with in 0.005mm.

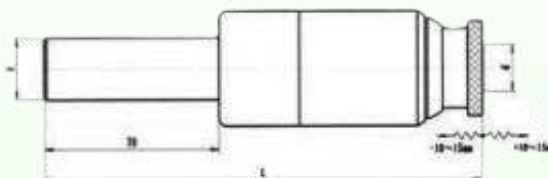


Model		capacity	d	D	D1(ISO)	W(ISO)	D1(JIS)	W(JIS)	L	Model
GT12	-3	M3	19	38	3.15	2.5	4	3.2	54	7 PCS/ 9 PCS (3-16 mm)
	-4	M4			4	3	5	4		
	-5	M5			5	4	5.5	4.5		
	-6	M6			6.3	5	6	4.5		
	-8	M8M			6.3	5	6.2	5		
	-10	M10			8	6.3	7	5.5		
	-12	M12			9	7.1	8.5	6.5		
GT24	-12	M12	30	58	9	7.1	8.5	6.5	79.5	7PCS (5-30 mm) Middle
	-14	M14			11.2	9	10.5	8		
	-16	M16			12.5	10	12.5	10		
	-18	M18			14	11.2	14	11		
	-20	M20			14	11.2	15	12		
	-22	M22			16	12.5	17	13		
	-24	M24			18	14.05	19	15		
GT42	-24	M24	45	85	18	14.05	19	15	117	Large
	-27	M27			20	16.06	21	17		
	-30	M30			20	16.05	23	17		
	-33	M33			22.4	18.05				
	-36	M36			25	20.05				
	-39	M39			28	22.45				
	-42	M42			28	22.45				



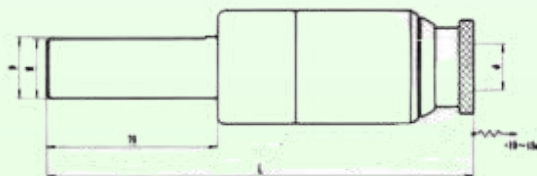
Model	Capacity	D	d	L	
BT30-GT12	M3-M16	Φ31.75	Φ19	125	GT12 GT12B TC312 G3
BT40-GT12	M3-M16	Φ44.45	Φ19	110	GT12 GT12B TC312 G3
BT40-GT24	M5-M30	Φ44.45	Φ30	130	GT24 GT24B G12
BT40-TC820	M5-M24	Φ44.45	Φ31	130	TC820
BT50-GT12	M3-M16	Φ69.85	Φ19	110	GT12 GT12B TC312 G3
BT50-GT24	M5-M30	Φ69.85	Φ30	1230	GT24 GT24B G12
BT50-TC820	M5-M24	Φ69.85	Φ31	130	TC820

Straight Quick Change Tapping Chuck Adapter

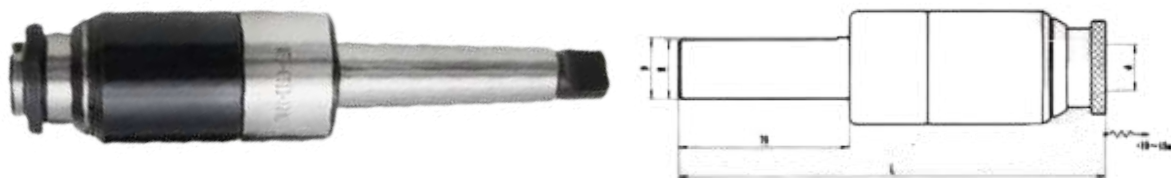


Model	Capacity	D	d	L	
D20-GT12	M3-M16	Φ20	Φ19	175	GT12 GT12B TC312 G3
D25-GT12	M3-M16	Φ25	Φ19	175	GT12 GT12B TC312 G3
D32-GT12	M3-M16	Φ32	Φ19	175	GT12 GT12B TC312 G3
D25-GT24	M5-M30	Φ25	Φ30	190	GT24 GT24B G12
D32-GT24	M5-M30	Φ32	Φ30	190	GT24 GT24B G12

Side Lock Straight Quick Change Tapping Chuck Adapter



Model	Capacity	D	d	L	
D20-GT12	M3-M16	Φ20	Φ19	175	GT12 GT12B TC312 G3
D25-GT12	M3-M16	Φ25	Φ24	175	GT12 GT12B TC312 G3
D32-GT12	M3-M16	Φ32	Φ41	175	GT12 GT12B TC312 G3
D25-GT24	M5-M30	Φ25	Φ24	190	GT24 GT24B G12
D32-GT24	M5-M30	Φ32	Φ31	190	GT24 GT24B G12



Model	Capacity	D	d	L	
MT2-GT12	M3-M16	Φ17.780	Φ19	110	GT12 GT12B TC312 G3
MT3-GT12	M3-M16	Φ23.825	Φ19	110	GT12 GT12B TC312 G3
MT4-GT12	M3-M16	Φ31.267	Φ19	110	GT12 GT12B TC312 G3
MT3-GT24	M5-M30	Φ23.825	Φ30	130	GT24 GT24B G12
MT4-GT24	M5-M30	Φ31.267	Φ30	130	GT24 GT24B G12
MT5-GT25	M5-M30	Φ44.399	Φ30	13	GT24 GT24B G13

Quick Change Tapping Chuck Adapters



Model	Capacity	d	d1	D	L	X	
B12-GT12	M3-M16	Φ12.065	Φ19	Φ34	60	B12	GT12 GT12B TC312 G3
B12-GT12	M3-M16	Φ15.733	Φ19	Φ34	65	B16	GT12 GT12B TC312 G3
B12-GT12	M3-M16	Φ17.780	Φ19	Φ34	73	B18	GT12 GT12B TC312 G3
JT6-GT12	M3-M16	Φ17.17	Φ19	Φ34	65	JT6	GT12 GT12B TC312 G3
Φ14-GT12	M3-M16	Φ14	Φ19	Φ34	70		GT12 GT12B TC312 G3
Φ16-GT12	M3-M16	Φ16	Φ19	Φ34	73		GT12 GT12B TC312 G3
B16-GT24	M5-M30	Φ15.733	Φ30	Φ51	76	B16	GT24 GT24B G12
B16-GT24	M5-M30	Φ17.780	Φ30	Φ51	84	B18	GT24 GT24B G12
B18-GT24	M5-M30	Φ23.825	Φ30	Φ51	101	B24	GT24 GT24B G12
B24-GT24	M5-M30	Φ17.17	Φ30	Φ51	76	JT6	GT24 GT24B G12
Φ20-GT24	M5-M30	Φ20	Φ30	Φ51	84		GT24 GT24B G12
BT18-TC820	M12-M24	Φ17.780	Φ31	Φ51	88	18	TC820

Taping Chuck Reducers

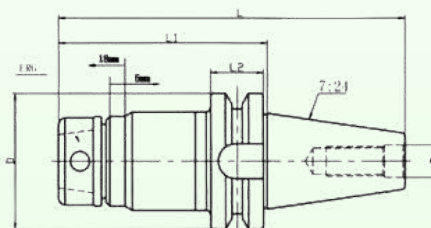


Model	D	d	D1	L	H	
GT4-2GT24	Φ45	Φ30	69	57	20	GT24 GT24B G12
GT24-GT12	Φ30	Φ19	48	36	12	GT12 GT12B TC312 G3
TC1433-TC820	Φ48	Φ31	69	63	24	TC820
TC820-TC312	Φ31	Φ19	41	41	16	GT12 GT12B TC312 G3

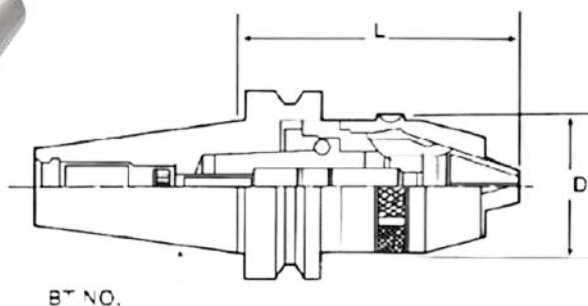


Model	Sizes of Collets	
MT3/4/5-GT12-7PCS	GT12	M3,M4,M5,M6,M8,M10,M12
NT30/40/50-GT12-7PCS		
BT30/40/50-GT12-7PCS		
MT3/4/5-GT24-7PCS	GT24	M12,M14,M16,M18,M20,M22,M24
NT30/40/50-GT24-7PCS		
BT40/50-GT24-7PCS		
MT3/4/5-GT42-7PCS	GT42	M24,M27,M30,M33,M36,M39,M42
NT30/40/50-GT42-7PCS		
BT40/50-GT42-7PCS		

Rigid Telescopic Tapping Shanks

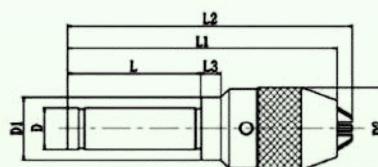


Model	Grcl range	D	L	L1	L2	T	COLLET
BT30-TER16	M3-M10	46	149	100.6	20	M12	ER16G
BT30-TER20	M3-M17	46	151	102.6	20	M12	ER20G
BT30-TER25	M3-M22	46	153	204.6	20	M12	ER25G
BT30-TER32	M3-M27	46	156	107.6	20	M12	ER32R
BT40-TER16	M3-M10	65	161	95.6	25	M16	ER16G
BT40-TER20	M3-M17	65	163	97.6	25	M16	ER20G
BT40-TER25	M3-M22	65	165	99.6	25	M16	ER25G
BT40-TER32	M3-M27	65	168	102.6	25	M16	ER32G
BT50-TER16	M3-M10	100	207	105.2	35	M24	ER16G
BT50-TER20	M3-M17	100	209	107.2	35	M24	ER20G
BT50-TER25	M3-M22	100	211	109.2	35	M24	ER25G
BT40-TER32	M3-M27	100	214	112.2	35	M24	ER32G

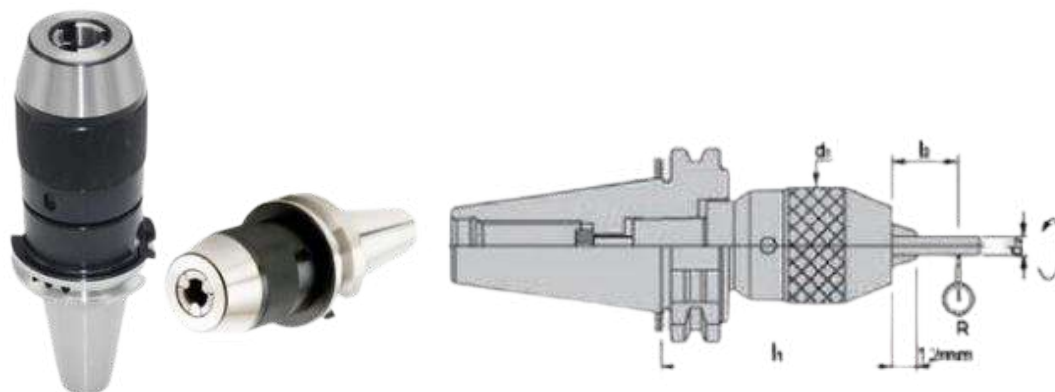


Model	Clamping range	D	L	
			Min	Max.
BT30-APU08-80	1-8	36.3	75	82
BT30-APU13-110	1-13	51.5	94	104.5
BT30-APU16-110	3-16	46	110	
BT40-APU08-85	1-8	36.3	79	86.5
BT40-APU13-110	1-13	51.5	98	109
BT40-APU16-110	1-16	58	115	130
BT50-APU13-110	1-13	49	98	109
BT50-APU16-130	1-16	54	115	130

Integrated keyless Drill Chucks with Morse Taper Straight or R8 Shanks

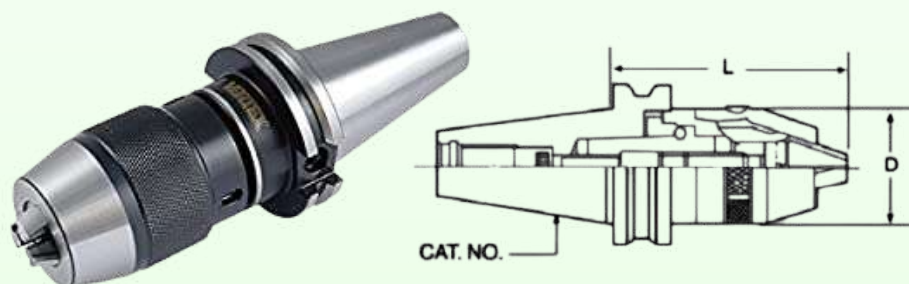


Model	Dimensions		
	D	D1	L
MT3-13	23.825	51	99.5
MT3-16	23.825	57	99.5
MT4-13	31.542	51	125
MT4-16	31.542	56.5	125
C16-13	16	51	60
C16-16	16	57	80
C20-13	20	51	60
C20-16	20	57	80
R8-13	31.75	51	102
R8-16	31.75	57	102
NT30-13	63	50	100
NT30-16	63	57	100
NT40-13	63	50	110
NT40-16	63	57	110



Model	l1	l2	d1	d2	R	Range		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	Clamping range		D		L			
					Minimum		Maximum	
	mm	Inch	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"	77.5	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"

Material: 3Cr13



Capacity	Connecting hole	D	L	L1
0.3-4	JT0; 3/8"-24UNF	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

Features:

1. High precision threaded or tapered tightly mounts on the tools
2. Jaw are specifically engineered for tight tolerance on drilling.
3. Suitable for super electrical grinders, engraving machines, precision machine lathes & medical equipments.



Carbon Steel

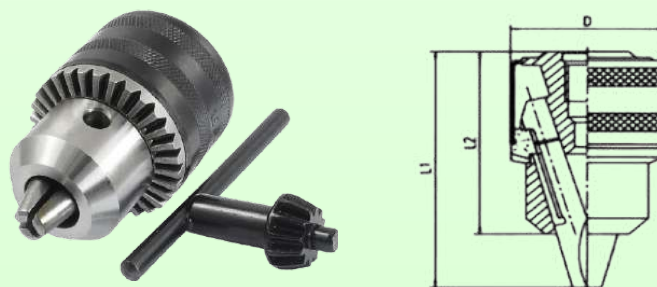
Heavy Duty



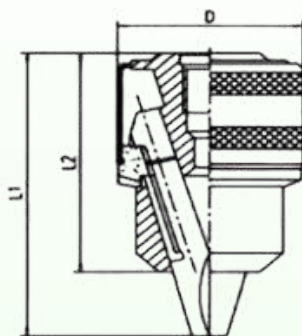
C45S20 $\leq 0.20\text{mm}$

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	1-16A	B16	57	93	75
J2116A	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
J2213A	1/2"	JT33	53.2	86	67
J2216	5/8"	JT3	57	93	75
J2220	3/4"	JT3	68	120	92

Light Duty



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

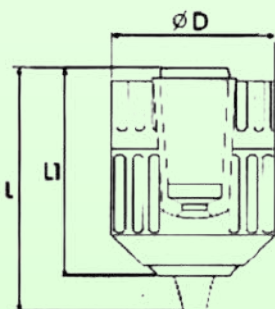


C45S20

≤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

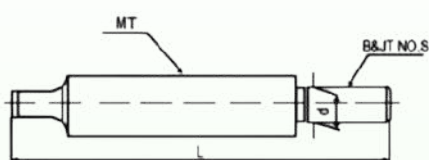
Keyless Hand-lightening Drill Chucks



PA6-30G

≤0.30

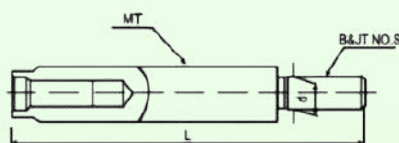
Model	Capacity	Mounts	D	L1	L
J1510A	0.8-10	3/8-24UNF	41	54.5	64
J1510B	0.8-10	12-20UNF	41	54.5	64
J1513A	2-13	1/2-20UNF	43	62	74.5
J1513B	2-13	3/8-24UNF	43	62	74.5



DIN238A
C25
≥85%

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

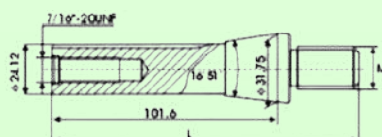
Drill Chuck Arbors with Draw Bar



DIN228
C45
≥85%

Model	L	d	Model	L	d
B16-MT2	103	15.733	J33-MT3	114	15.85
B16-MT3	118	15.733	JT33-MT4	13	15.850
B16-MT4	141	15.733	JT3-MT2	103	20.599
B18-MT3	126	17.780	JT3-MT3	120	20.599
B18-MT4	149	17.780	JT3-MT4	143	20.599
B18-MT5	176	17.780	JT3-MT5	170	20.599

R8 Drill Chuck Arbors



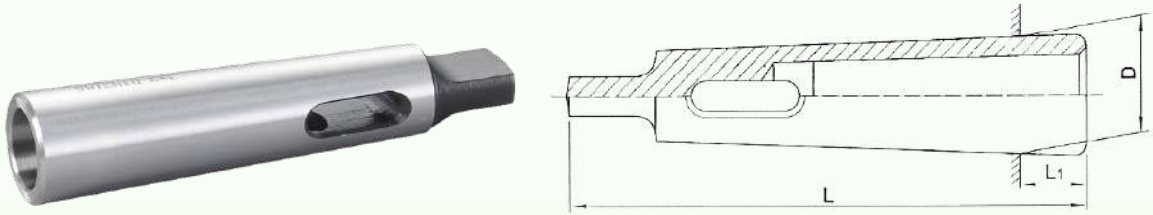
C45
≥85%

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

DIN2185

C45

≥85%



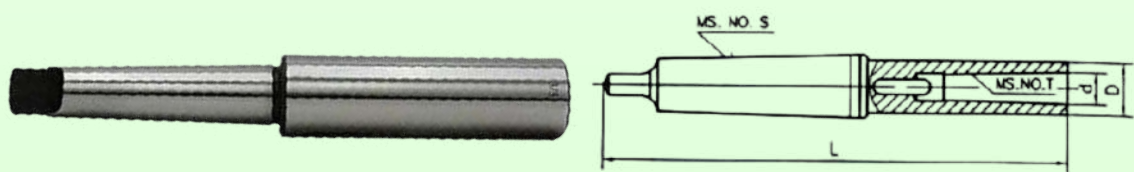
Model	MT.No.S	MT.No.T	D	d	L	Wt.
MT2-1	2	1	18.6	12.065	90	0.1
MT3-1	3	1	24.1	12.065	99	0.24
MT3-2	3	2	24.1	17.78	108	0.12
MT4-2	4	2	31.6	17.78	124	0.5
MT4-3	4	3	32.4	23.825	132	0.38
MT5-3	5	3	44.7	23.825	156	1.36
MT5-4	5	4	45.5	31.267	164	0.95
MT6-4	6	4	63.8	31.267	218	3.12
MT6-5	6	5	63.8	44.399	218	1.95

Extension Drill Sleeves

DIN2185

C45

≥85%



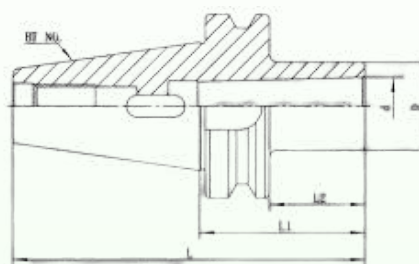
Model	MT.No.S	MT.No.T	D	d	L	Wt.
MT3-2	3	2	30	17.78	194	0.62
MT3-3	3	3	36	23.825	215	0.89
MT3-4	3	4	48	31.267	240	1.55
MT3-5	3	5	63	44.399	275	2.8
MT4-3	4	3	36	23.825	240	1.27
MT4-4	4	4	48	31.267	265	1.93
MT4-5	4	5	63	44.399	300	3.18
MT4-6	4	6	85	63.348	368	6.5



BT-MTA

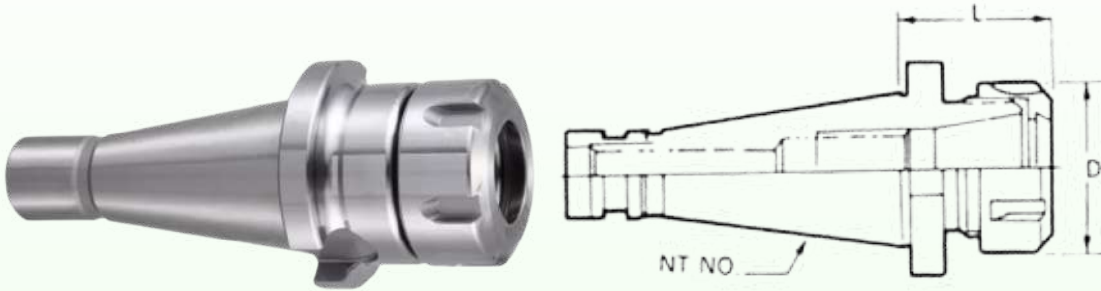


BT-MTB



MAS403
20CrMnTi
≥85%

Model	L1	D	D1
BT30-MT2-60	108.4	32	31.75
BT30-MT2-80	128.4	40	31.75
BT40-MT2-60	125.4	32	44.45
BT40-MT2-120	185.4	32	44.45
BT40-MT3-70	135.4	40	44.45
BT40-MT3-75	140.4	40	44.45
BT40-MT4-90	155.4	48	44.45
BT40-MT4-95	160.4	48	57.15
BT40-MT4-135	200.4	48	69.85
BT40-MT4-98	180.8	48	69.85
BT50-MT2-45	146.8	25	69.85
BT50-MT3-65	166.8	40	69.85
BT50-MT3-75	176.8	40	69.85
BT50-MT3-120	221.8	40	69.85
BT50-MT3-135	236.8	40	69.85
BT50-MT3-150	251.8	40	69.85
BT50-MT4-85	186.8	48	69.85
BT50-MT4-95	196.8	48	69.85



DIN2080
20CrMnTi
≥85%

Model	7:24No.S	D	d	D	1L
NT30-MT2	NT30	32	17.78	31.75	118
NT30-MT3	NT30	40	23.825	31.75	138
NT40-MT2	NT40	32	17.78	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

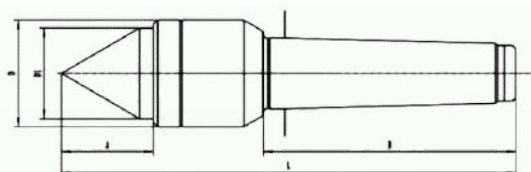


Model	MS.NC	L
DIN317 / 0	0	90
DIN317/1 - 2	1-2	140
DIN317 / 3	3	190
DIN317 / 4	4	225
DIN317 / 5 - 6	5-6	265

Hall Automatic Morse Shank Pullers

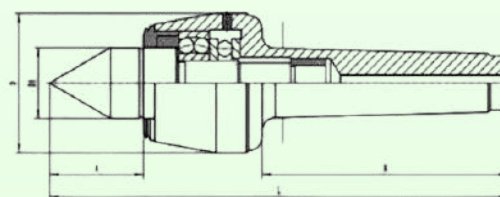


Model	MS.NC	L
DIN318 / 1 - 3	1 - 3	317
DIN318 / 4 - 6	4 - 6	380



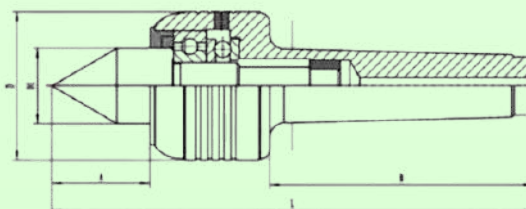
Model	A	B	C	D	D1	d	L	Max speed
MT2A	28	35	69	32	32	-	132	50000
MT3A	36	44	86	41	41	-	166	35000
MT4A	41	51	108	47	47	-	200	30000
MT5A	54	72	136	65	65	-	262	20000

High Speed Live Centers with water proof

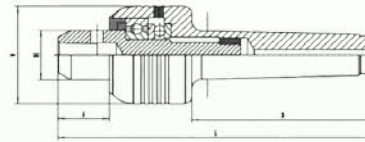


Model	A	B	C	D	D1	L	Max speed
MT3A	39	55	86	53	30	180	50000
MT4A	42	65	108	63	32	208	45000
MT5A	49	71	136	83	40	256	35000

CNC Live enters

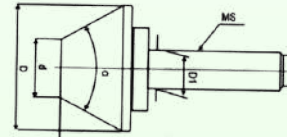


Model	A	B	D	D1	L	Max load	Max Speed	Accuracy
MT2	28	65	46	24	140	100	3500	0.01
MT3	38	81	59	28	170	250	3000	0.015
MT4	45	102	64	31	198	400	2500	0.015
MT5	52	130	78	44	245	700	2000	0.02



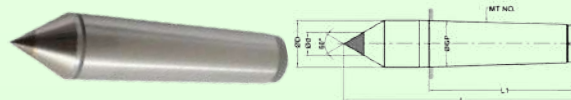
Model	A	B	D	D1	L	Max load	Max Speed	Accuracy
MT2	27	65	46	24	140	100	3500	0.01
MT3	32	81	59	28	170	250	3000	0.015
MT4	34.50	102	64	31	198	400	2500	0.015
MT5	44	130	78	44	245	700	2000	0.02

Bull Nose Live Centers



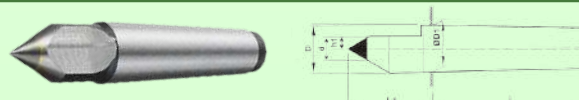
Model	D	D1	L	d	a
MT2-60	60	17.78	137	20	60°
MT3-90	90	23.825	169	32	60°
MT4-110	110	31.267	184	35	75°
MT5-120	120	44.399	251.00	40	60°
MT5-200	200	44.399	252.00	40	75°
MT5-250	250	44.399	281.00	56	75°
MT6-250	250	63.348	335.00	56	75°

Carbide Dead Centers

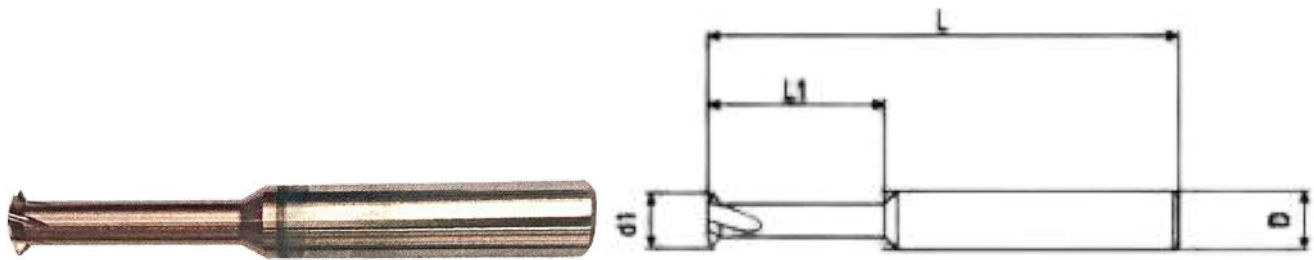


Model	D	L	Wt.
MT2	17.78	100	0.15
MT3	23.825	125	0.334
MT4	31.267	160	0.746
MT5	44.399	200	1.826

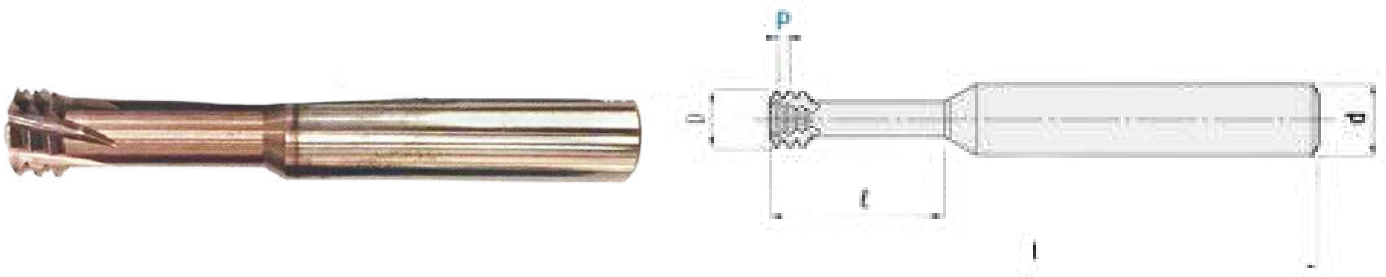
Half-notched Carbide Dead Centers



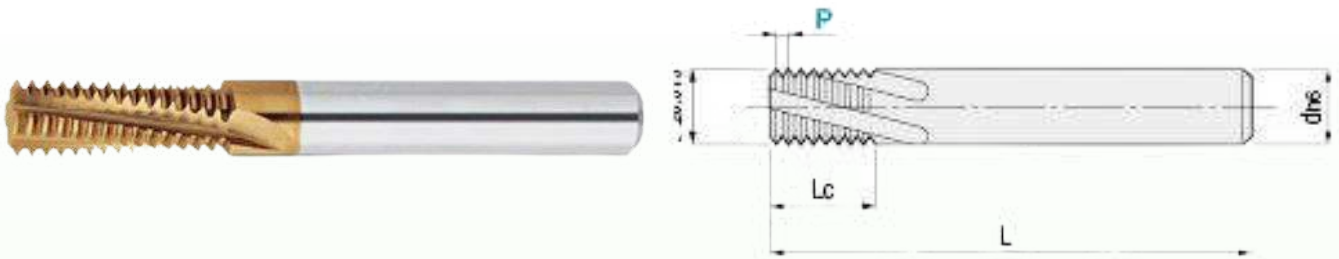
Model	D	L	Wt.
MT2	17.78	100	0.15
MT3	23.825	125	0.34
MT4	31.267	160	0.71
MT5	44.399	200	1.78



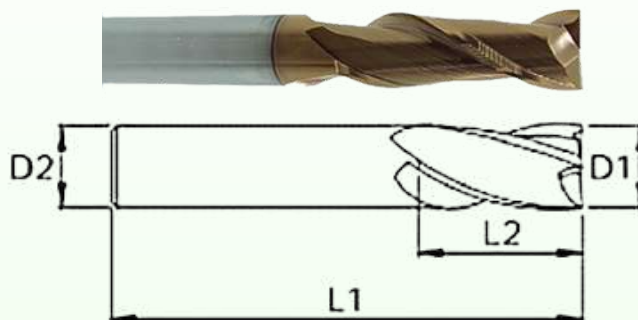
ขนาด	ระยะห่างฟัน	(d)	(L1)	(D)	(L)	จำนวนใบมีด	
M0.8*0.2	0.2-0.225	0.55	1.6	4	50	3	45
M0.9*0.225	0.225-0.3	0.6	1.8	4	50	3	45
M1*0.25	0.25-0.35	0.73	2.3	4	50	3	27
M1.2*0.25	0.25-0.35	0.92	2.8	4	50	3	27
M1.4*0.3	0.3-0.4	1.05	3.2	4	50	3	27
M1.6*0.35	0.35-0.4	1.2	4	4	50	3	25
M2*0.4	0.4-0.5	1.54	4.4	4	50	3	25
M2.5*0.45	0.45-0.5	1.96	5	4	50	3	25
M3*0.5	0.5-0.6	2.4	7.5	4	50	3	25
M5*0.8	0.5-0.8	3	12	4	50	4	25
M4*0.7	0.5-0.8	3.15	10	4	50	3	25
M5*0.8	0.5-1.0	4	12	4	50	4	25
M5*0.8	0.5-1.0	4	13	6	50	3	42
M6*1.0	0.5-1.0	4.75	16	6	50	3	42
M8*1.25	0.5-1.25	5	16	6	50	4	42
M8*1.25	0.5-1.25	6	20	6	60	3	45
M10*1.5	0.8-1.5	7.9	25	8	60	4	65
M10*1.5	0.8-1.5	8	20	8	75	4	75
M12*1.5	1.25-2.0	9.4	28	10	75	4	105
M12*1.75	1.0-3.0	9.9	30	10	75	4	105
M12*2.0	1.25-2.0	10	28	10	75	4	105
M16*2.0	2.0-5.0	12	30	12	75	4	135
M16*2.0	1.0-5.0	12	30	12	83	4	145
M18*2.5	1.0-5.0	14	35	14	100	5	195
M22*3.0	2.0-5.0	16	40	16	100	5	235



ขนาด	ระยะห่างฟัน	(d)	(L1)	(D)	(L)	จำนวนใบมีด	
M1*0.25	0.25	0.73	2.3	3	4	50	38
M1.2*0.25	0.25	0.92	3.3	3	4	50	38
M1.4*0.3	0.3	1.05	3.2	3	4	50	38
M1.6*0.35	0.35	1.21	3.6	3	4	50	38
M1.8*0.35	0.35	1.4	4	3	4	50	38
M2*0.4	0.4	1.54	4.6	3	4	50	38
M2.2*0.45	0.45	1.63	5	3	4	50	38
M2.5*0.45	0.45	1.96	5.6	3	4	50	38
M3*0.5	0.5	2.42	7.1	3	4	50	38
M3.5*0.6	0.6	2.75	7.4	3	4	50	38
M4*0.7	0.7	3.15	8.8	3	4	50	38
M5*0.8	0.8	4	12	3	6	50	56
M6*0.5	0.5	5	13	3	6	50	56
M6*1.0	1	4.75	12.9	3	6	50	56
M8*1.25	1.25	6	17.6	3	6	60	65
M10*1.25	1.25	7.9	25	4	8	62	96
M10*1.5	1.5	7.9	21	4	8	62	96
M12*1.25	1.25	9.9	30	4	10	75	138
M12*1.75	1.75	9.9	25	4	10	75	138



ขนาด	ระยะห่างฟัน	(d)	ด้าม (D)	ความยาว ใบมีด	(L)	จำนวนใบมีด	
M1.6*0.35	0.35	1.2	4	3.4	50	3	55
M2*0.4	0.4	1.54	4	5	50	3	55
M2.5*0.45-d1.96-D4	0.45	1.96	4	5.3	60	3	55
M3*0.5-d2.4-D4	0.5	2.4	4	6	50	3	55
M4*0.5-d3-D4	0.5	3	4	10	50	3	55
M4*0.7-d3.15-D4	0.7	3.15	4	10	50	3	55
M5*0.5-d3.9-D4	0.5	3.9	4	12	50	3	55
M5*0.8-d3.5-D4	0.8	3.5	4	11	50	3	55
M5*0.8-d3.9-D6	0.8	3.9	6	10	50	3	78
M6*0.5-d4.8-D6	0.5	4.8	6	13	50	3	78
M6*0.75-d3.9-D4	0.75	3.9	4	12	50	3	78
M6*0.75-d4.8-D6	0.75	4.8	4	15	50	3	78
M6*d1.0-d3.9-D4	1	3.9	4	12	50	3	78
M6*d1.0-4.75-D6	1	4.75	6	14	50	3	78
M8*0.5-d6.0-D6	0.5	6	6	17	60	3	80
M8*0.75-d5.9-D6	0.8	5.9	6	20	60	3	80
M8*1.0-d5.9-D6	1	5.9	6	16	60	3	80
M8*1.25-d5.9-D6	1.25	5.9	6	16	60	3	80
M10*0.5-d7.9-D8	0.5	7.9	8	21	65	3	118
M10*0.75-d7.9-D8	0.75	7.9	8	20	65	4	118
M10*d1.0-d7.9-D8	1	7.9	8	22	65	3	118
M10*1.0-d7.9-D10	1	7.9	8	22	65	3	118
M10*1.25-d7.7-D8	1.25	7.7	8	20	75	3	130
M10*1.5-d7.7-D8	1.5	7.7	8	20	75	3	130
M12*0.5-d9.9-D10	0.5	9.9	10	30	75	3	165
M12*0.75-d10.0-D10	0.75	10	10	28	75	4	165
M12*d1.0-d9.9-D10	1	9.9	10	25	75	4	165
M12*1.25-d9.9-D10	1.25	9.9	10	25	75	4	165
M12*1.5-d9.4-D10	1.5	9.4	10	24	75	4	165
M12*1.75-d8.5-D10	1.75	8.5/9.5	10	25	75	4	165



4 ฟัน | HRC-55

CODE	D	L1	D1	L
EM4-010-050	1.0	3	4	50
EM4-015-050	1.5	3	4	50
EM4-020-050	2.0	5	4	50
EM4-025-050	2.5	8	4	50
EM4-030-050	3.0	8	4	50
EM4-035-050	3.5	10	4	50
EM4-040-050	4.0	10	4	50
EM4-050-050	5.0	13	6	50
EM4-060-050	6.0	15	6	50
EM4-070-060	7.0	20	8	60
EM4-080-060	8.0	20	8	60
EM4-090-075	9.0	20	10	75
EM4-100-075	10.0	25	10	75
EM4-110-075	11.0	25	12	75
EM4-120-075	12.0	30	12	75
EM4-140-080	14.0	35	14	80
EM4-160-100	16.0	40	16	100
EM4-180-100	18.0	40	18	100
EM4-200-100	20.0	40	20	100

2 ฟัน | HRC-55

CODE	D	L1	D1	L
EM2-010-050	1.0	3	4	50
EM2-015-050	1.5	3	4	50
EM2-020-050	2.0	5	4	50
EM2-025-050	2.5	8	4	50
EM2-030-050	3.0	8	4	50
EM2-035-050	3.5	10	4	50
EM2-040-050	4.0	10	4	50
EM2-050-050	5.0	13	6	50
EM2-060-050	6.0	15	6	50
EM2-070-060	7.0	20	8	60
EM2-080-060	8.0	20	8	60
EM2-090-075	9.0	20	10	75
EM2-100-075	10.0	25	10	75
EM2-110-075	11.0	25	12	75
EM2-120-075	12.0	30	12	75
EM2-140-080	14.0	35	14	80
EM2-160-100	16.0	40	16	100
EM2-180-100	18.0	40	18	100
EM2-200-100	20.0	40	20	100

4 ฟัน ขนาดยาว | HRC-55

CODE	D	L1	D1	L
EM4-030-075	3.0	16	4	75
EM4-040-075	4.0	20	4	75
EM4-060-075	6.0	20	6	75
EM4-080-075	8.0	25	8	75
EM4-100-100	10.0	40	10	100
EM4-120-100	12.0	40	12	100
EM4-140-100	14.0	40	14	100
EM4-060-150	6.0	30	6	150
EM4-080-150	8.0	40	8	150
EM4-100-150	10.0	45	10	150
EM4-120-150	12.0	50	12	150
EM4-140-150	14.0	50	14	150
EM4-160-150	16.0	55	16	150
EM4-200-150	20.0	70	20	150

2 ฟัน ขนาดยาว | HRC-55

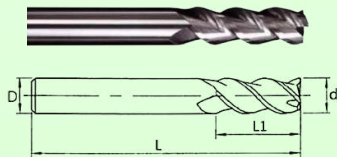
CODE	D	L1	D1	L
EM2-030-075	3.0	16	4	75
EM2-040-075	4.0	20	4	75
EM2-060-075	6.0	20	6	75
EM2-080-075	8.0	25	8	75
EM2-100-100	10.0	40	10	100
EM2-120-100	12.0	40	12	100
EM2-140-100	14.0	40	14	100
EM2-060-150	6.0	30	6	150
EM2-080-150	8.0	40	8	150
EM2-100-150	10.0	45	10	150
EM2-120-150	12.0	50	12	150
EM2-140-150	14.0	50	14	150
EM2-160-150	16.0	55	16	150
EM2-200-150	20.0	70	20	150

บอล 2 ฟัน I HRC-55

CODE	D	L1	D1	L
EMB-0050-050	0.5	2	4	50
EMB-0075-050	0.75	3	4	50
EMB-010-050	1.0	4	4	50
EMB-0125-050	1.25	5	4	50
EMB-015-050	1.5	6	4	50
EMB-0175-050	1.75	7	4	50
EMB-020-050	2.0	8	4	50
EMB-025-050	2.5	10	6	50
EMB-030-050	3.0	12	6	50
EMB-040-060	4.0	16	8	60
EMB-050-075	5.0	20	10	75
EMB-060-100	6.0	24	12	100
EMB-070-100	7.0	28	14	100
EMB-080-100	8.0	32	16	100
EMB-100-100	10.0	40	2	100

บอล 2 ฟัน ขนาดยาว I HRC-55

CODE	D	L1	D1	L
EMB-010-075	1.0	4	4	75
EMB-015-075	1.5	6	4	75
EMB-020-075	2.0	8	4	75
EMB-025-075	2.5	10	6	75
EMB-030-075	3.0	12	6	75
EMB-040-075	4.0	16	8	75
EMB-050-075	5.0	20	10.4	75
EMB-020-100	2.0	8	4	100
EMB-025-100	2.5	10	6	100
EMB-030-100	3.0	12	6	100
EMB-040-100	4.0	16	8	100
EMB-050-100	5.0	20	10	100
EMB-030-150	3.0	30	6	150
EMB-040-150	4.0	30	8	150
EMB-050-150	5.0	40	10	150
EMB-060-150	6.0	40	12	150
EMB-070-150	7.0	40	14	150
EMB-080-150	8.0	40	16	150
EMB-090-150	9.0	40	18	150
EMB-100-150	10.0	40	20	150

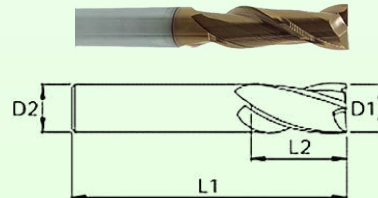


3 ฟัน I HRC-55

CODE	D	L1	D1	L
EM3-010-050	1.0	3	4	50
EM3-020-050	2.0	6	4	50
EM3-030-050	3.0	9	4	50
EM3-040-050	4.0	12	4	50
EM3-050-050	5.0	15	6	50
EM3-060-050	6.0	18	6	50
EM3-080-060	8.0	24	8	60
EM3-100-075	10.0	25	10	75
EM3-120-075	12.0	30	12	75
EM3-160-100	16.0	40	16	100
EM3-200-100	20.0	40	20	100

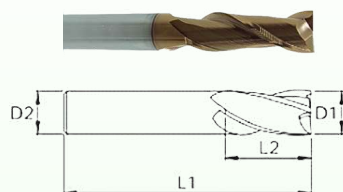
2 ฟัน มีมุม I HRC-55

CODE	D	L1	D1	L
EMCN2-2R02-050	2R0.2	6	4	50
EMCN2-2R03-050	2R0.3	6	4	50
EMCN2-2R05-050	2R0.5	6	4	50
EMCN2-3R02-050	2R0.2	8	4	50
EMCN2-3R03-050	3R0.3	8	4	50
EMCN2-3R05-050	3R0.5	8	4	50
EMCN2-4R05-050	4R0.5	10	4	50
EMCN2-4R10-050	4R1.0	10	4	50
EMCN2-5R05-050	5R0.5	13	6	50
EMCN2-5R10-050	5R1.0	13	6	50
EMCN2-6R05-050	6R0.5	15	6	50
EMCN2-6R10-050	6R1.0	15	6	50
EMCN2-8R05-060	8R0.5	20	8	60
EMCN2-8R10-060	8R1.0	20	8	60
EMCN2-10R05-075	10R0.5	25	8	75
EMCN2-10R10-075	10R1.0	25	10	75
EMCN2-12R05-075	12R0.5	30	10	75
EMCN2-12R10-075	12R1.0	30	12	75
EMCN2-6R05-100	6R0.5	30	12	100
EMCN2-6R10-100	6R1.0	30	6	100
EMCN2-8R05-060	8R0.5	35	6	60
EMCN2-8R10-060	8R1.0	35	8	60
EMCN2-10R05-100	10R0.5	40	8	100
EMCN2-10R10-100	10R1.0	40	10	100
EMCN2-12R05-100	12R0.5	40	10	100
EMCN2-12R10-100	12R1.0	40	12	100



4 ฟัน มีมุม I HRC-55

CODE	D	L1	D1	L
EMCN4-2R02-050	2R0.2	6	4	50
EMCN4-2R03-050	2R0.3	6	4	50
EMCN4-2R05-050	2R0.5	6	4	50
EMCN4-3R02-050	2R0.2	8	4	50
EMCN4-3R03-050	3R0.3	8	4	50
EMCN4-3R05-050	3R0.5	8	4	50
EMCN4-4R05-050	4R0.5	10	4	50
EMCN4-4R10-050	4R1.0	10	4	50
EMCN4-5R05-050	5R0.5	13	6	50
EMCN4-5R10-050	5R1.0	13	6	50
EMCN4-6R05-050	6R0.5	15	6	50
EMCN4-6R10-050	6R1.0	15	6	50
EMCN4-8R05-060	8R0.5	20	8	60
EMCN4-8R10-060	8R1.0	20	8	60
EMCN4-10R05-075	10R0.5	25	8	75
EMCN4-10R10-075	10R1.0	25	10	75
EMCN4-12R05-075	12R0.5	30	10	75
EMCN4-12R10-075	12R1.0	30	12	75
EMCN4-6R05-100	6R0.5	30	12	100
EMCN4-6R10-100	6R1.0	30	6	100
EMCN4-8R05-060	8R0.5	35	6	60
EMCN4-8R10-060	8R1.0	35	8	60
EMCN4-10R05-100	10R0.5	40	8	100
EMCN4-10R10-100	10R1.0	40	10	100
EMCN4-12R05-100	12R0.5	40	10	100
EMCN4-12R10-100	12R1.0	40	12	100



4 ฟัน | HRC-60

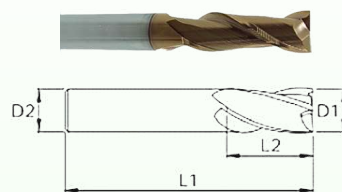
CODE	D	L1	D1	L
EM4-010-050	1.0	3	4	50
EM4-015-050	1.5	4	4	50
EM4-020-050	2.0	6	4	50
EM4-030-050	3.0	8	4	50
EM4-040-050	4.0	10	4	50
EM4-050-050	5.0	13	6	50
EM4-060-050	6.0	15	6	50
EM4-080-060	8.0	25	8	60
EM4-100-075	10.0	25	10	75
EM4-120-075	12.0	30	12	75
EM4-140-080	14.0	40	14	80
EM4-160-100	16.0	40	16	100
EM4-180-100	18.0	45	18	100
EM4-200-100	20.0	40	20	100

4 ฟัน ขนาดยาว | HRC-60

CODE	D	L1	D1	L
EM4-030-075	3.0	15	4	75
EM4-040-075	4.0	16	4	75
EM4-050-075	5.0	20	6	75
EM4-060-075	6.0	24	6	75
EM4-080-075	8.0	32	8	75
EM4-100-100	10.0	40	10	100
EM4-120-100	12.0	48	12	100
EM4-040-100	4.0	16	4	100
EM4-060-100	6.0	24	6	100
EM4-080-100	8.0	25	8	100

บอล 2 ฟัน | HRC-60

CODE	D	L1	D1	L
EMB-0050-050	0.5	3	4	50
EMB-0075-050	0.75	4	4	50
EMB-010-050	1.0	4	4	50
EMB-0125-050	1.25	6	4	50
EMB-015-050	1.5	6	4	50
EMB-020-050	2.0	10	4	50
EMB-025-050	2.5	12	6	50
EMB-030-050	3.0	12	6	50
EMB-040-060	4.0	16	8	60
EMB-050-075	5.0	25	10	75
EMB-060-100	6.0	25	12	100
EMB-070-100	7.0	30	14	100
EMB-080-100	8.0	30	16	100
EMB-090-100	9.0	35	18	100
EMB-100-100	10.0	40	20	100

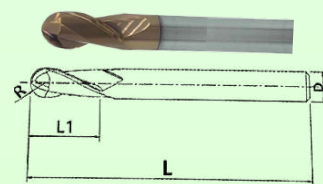


2 ฟัน | HRC-60

CODE	D	L1	D1	L
EM2-010-050	1.0	3	4	50
EM2-015-050	1.5	4	4	50
EM2-020-050	2.0	6	4	50
EM2-030-050	3.0	8	4	50
EM2-040-050	4.0	10	4	50
EM2-050-050	5.0	13	6	50
EM2-060-050	6.0	15	6	50
EM2-080-060	8.0	25	8	60
EM2-100-075	10.0	25	10	75
EM2-120-075	12.0	30	12	75
EM2-140-080	14.0	40	14	80
EM2-160-100	16.0	40	16	100
EM2-180-100	18.0	45	18	100
EM2-200-100	20.0	40	20	100

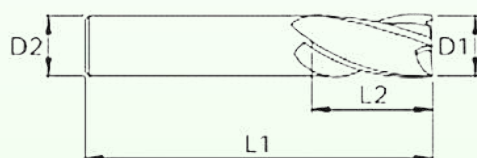
2 ฟัน ขนาดยาว | HRC-60

CODE	D	L1	D1	L
EM2-030-075	3.0	15	4	75
EM2-040-075	4.0	16	4	75
EM2-050-075	5.0	20	6	75
EM2-060-075	6.0	24	6	75
EM2-080-075	8.0	32	8	75
EM2-100-100	10.0	40	10	100
EM2-120-100	12.0	48	12	100
EM2-040-100	4.0	16	4	100
EM2-060-100	6.0	24	6	100
EM2-080-100	8.0	25	8	100



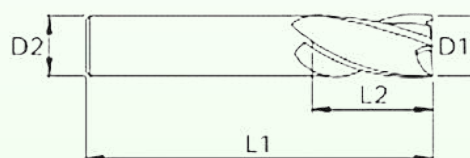
บอล 2 ฟัน ขนาดยาว | HRC-55

CODE	D	L1	D1	L
EMB-015-075	1.5	6	4	75
EMB-020-075	2.0	10	4	75
EMB-030-075	3.0	15	6	75
EMB-040-075	4.0	20	8	75
EMB-015-100	1.0	6	4	100
EMB-020-100	2.0	10	4	100
EMB-030-100	3.0	15	6	100
EMB-040-100	4.0	20	8	100
EMB-050-100	5.0	25	10	100
EMB-060-100	6.0	30	12	100



ไฮสปีด 4 ฟัน | HRC-55

CODE	D	L1	D1	L
EMH4-010-050	1.0	5	6	50
EMH4-015-050	1.5	8	6	50
EMH4-020-050	2.0	8	6	50
EMH4-025-050	2.5	11	6	50
EMH4-030-050	3.0	11	6	50
EMH4-035-050	3.5	11	6	50
EMH4-040-050	4.0	12	6	50
EMH4-045-060	4.5	12	6	60
EMH4-050-060	5.0	15	6	60
EMH4-060-063	6.0	19	6	63
EMH4-065-063	6.5	19	6	63
EMH4-070-065	7.0	20	8	65
EMH4-080-065	8.0	20	8	65
EMH4-090-075	9.0	25	10	75
EMH4-100-075	10.0	25	10	75
EMH4-110-085	11.0	35	12	85
EMH4-120-085	12.0	35	12	85
EMH4-130-085	13.0	35	12	85
EMH4-140-085	14.0	35	12	85
EMH4-150-095	15.0	40	16	95
EMH4-160-095	16.0	40	16	95
EMH4-180-095	18.0	40	20	95
EMH4-190-110	19.0	45	20	110
EMH4-200-110	20.0	45	20	110
EMH4-210-110	21.0	45	20	110
EMH4-220-110	22.0	45	20	110
EMH4-230-120	23.0	50	20	120
EMH4-240-125	24.0	60	25	125
EMH4-250-125	25.0	60	25	125

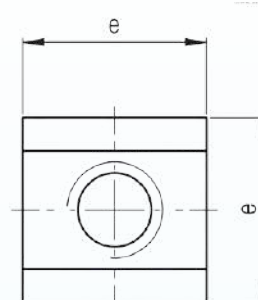
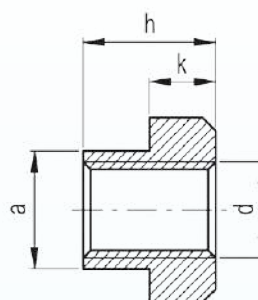


ไฮสปีด 2 ฟัน | HRC-55

CODE	D	L1	D1	L
EMH2-010-050	1.0	5	6	50
EMH2-015-050	1.5	8	6	50
EMH2-020-050	2.0	8	6	50
EMH2-025-050	2.5	11	6	50
EMH2-030-050	3.0	11	6	50
EMH2-035-050	3.5	11	6	50
EMH2-040-050	4.0	12	6	50
EMH2-045-060	4.5	12	6	60
EMH2-050-060	5.0	15	6	60
EMH2-060-063	6.0	19	6	63
EMH2-065-063	6.5	19	6	63
EMH2-070-065	7.0	20	8	65
EMH2-080-065	8.0	20	8	65
EMH2-090-075	9.0	25	10	75
EMH2-100-075	10.0	25	10	75
EMH2-110-085	11.0	35	12	85
EMH2-120-085	12.0	35	12	85
EMH2-130-085	13.0	35	12	85
EMH2-140-085	14.0	35	12	85
EMH2-150-095	15.0	40	16	95
EMH2-160-095	16.0	40	16	95
EMH2-180-095	18.0	40	20	95
EMH2-190-110	19.0	45	20	110
EMH2-200-110	20.0	45	20	110
EMH2-210-110	21.0	45	20	110
EMH2-220-110	22.0	45	20	110
EMH2-230-120	23.0	50	20	120
EMH2-240-125	24.0	60	25	125
EMH2-250-125	25.0	60	25	125



MACHINE ACCESSORIES



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

Drill Chuck Arbors with Draw Bar



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	25	3/4-10
M22	CK-22	24	24-3.0P	30	7/8-9

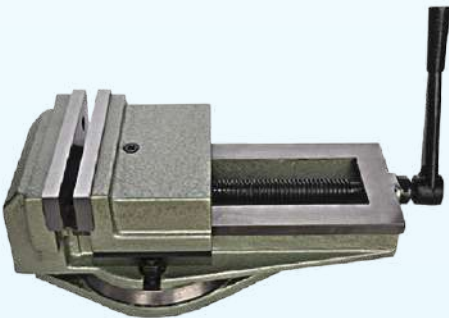


Performance and charater

1. It is made of ductile cast iron(HT200).
2. The accuracy of vice is parallelism at 0.025mm/100mm and squareness at 0.025,0.025mm/100mm,0.025
3. 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	G.W./N.W.
QH80	80	30	60	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 Milling Machine Vices



Performance and charater

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
3. The vice can be used with single or settled side by side on the machine Worktable.
4. It is widely used on machining center and other precision machine.

Model	Width of jaw	Height of jaw	Max.Opening	G.W./N.W.
QB135	136	36	170	17/16
QB160	160	51	180	27/26
QB200	200	64	280	38/37
QB250	250	64	280	57/55
QB320	320	81	360	86/84



Performance and charater

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

Model	Width of jaw	Height of jaw	Max.Opening	G.W./N.W.
QM16100	100	32	100	17/16
QM16125	125	40	125	21/20
QM16160	160	45	160	37/36
QM16200	200	50	190	51/50

QM16N Accu-lock Machine Vices

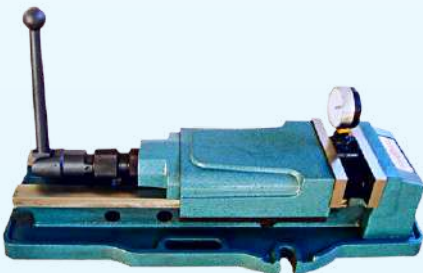


Performance and charater

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

Model	Width of jaw	Height of jaw	Max.Opening	G.W./N.W.
QM16100N	100	32	100	13/12
QM16160N	160	45	160	29/28

Qm52 Hydraulic Power Machine Vices



Performance and charater

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	Height of jaw	Max.Opening	G.W./N.W.
Q52150L	152	52	320	45/43
Q52320	320	80	345	105/103
Q52400	400	85	130	163/159



Performance and charater

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
3. It is widely used on machine tool in makeing some kinds of slots, holes and faces.

Model	Width of jaw	Height of jaw	Max.Opening	G.W./N.W.
QHK100	100	41	80	18/17
QHK125	125	45	95	28/27
QHK125L	125	45	140	28/27
QHK160	160	50	125	40/39

QW Universal Machine Vices



Performance and charater

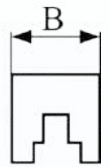
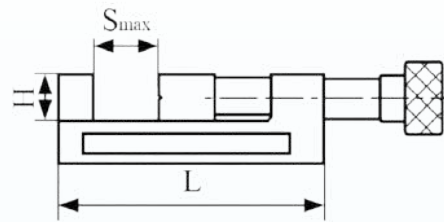
1. It is made of high-quality cast iron
2. The accuracy of vice is parallelism at 0.025mm/100mm and squareness at 0.025.
3. It used on machining and EDM complex parts.

Model	Width of jaw	Height of jaw	Max.Opening	G.W./N.W.
QW100	105	40	105	26/25
QW125	125	44	125	27/26

Q93 Double-action Angle Tight Vices

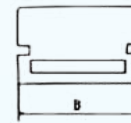
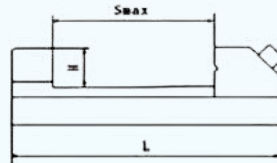
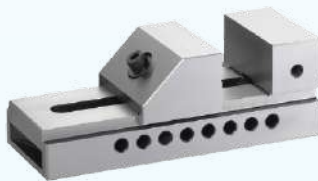


Model	Width of jaw	Height of jaw	Max.Opening	QTY/Casw	
Q93100	100	35	76	1	15/14
Q93160	160	50	100	1	37/36



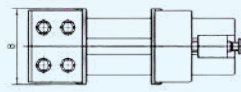
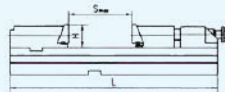
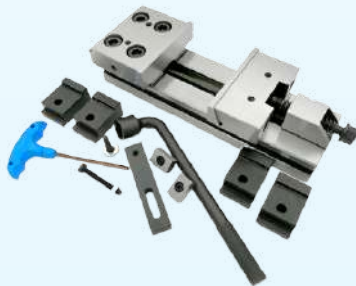
Model	B	H	S-max	L	Wt.
QGG50	50	25	65	155	3
QGG63	63	32	85	190	3.8
QGG80	80	40	100	220	6.5
QGG100	100	45	125	260	13
QGG125	125	50	210	350	23
QGG150	150	50	175	315	23.8

QKG Precision Tool Vices

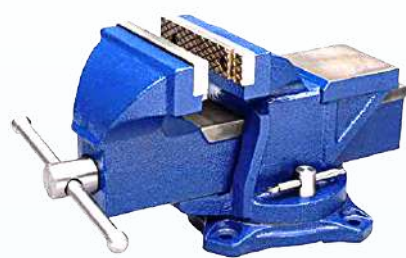


Model	B	H	S-max	L	Wt.
QKG25	25	9.15	22	65.4	0.5
QKG50	50	25	65	140	2.0
QKG63	63	32	85	175	3.0
QKG73	73	35	100	190	4.1
QKG80	80	40	100	200	5.5
QKG88	88	40	125	235	7.3
QKG100	100	45	125	245	10.0
QKG125	125	50	160	285	18.0
QKG150	150	50	200	330	21.5

GT Precision Modular Vices



Model	Size	B	H	Smax	L	Clamping Force
GT125	125x40x150	125	40	150	345	3000
GT150A	150x50x200	150	50	200	420	5000
GT175A	175x60x200	175	60	200	455	6000
GT175B	175x60x300	175	60	300	555	6000
GT200C	200x60x400	200	65	400	695	10000
GT200D	200x60x500	200	65	500	795	10000
GT300C	300x80x400	300	80	400	735	12000
GT300D	300x80x500	300	80	500	835	12000



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



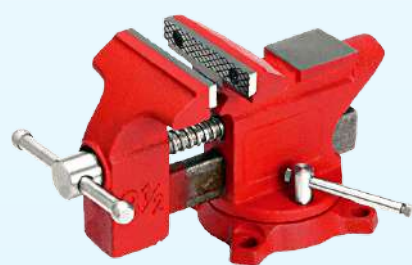
Model	Size	Width of jaw	QTY/Case	G.W./N.W.
9624	4"	100	4	22/20
9625	5"	125	2	17/15
9626	6"	150	1	12/11
9628	8"	200	1	24/22

93 American Type Bench Vices with Anvil Base

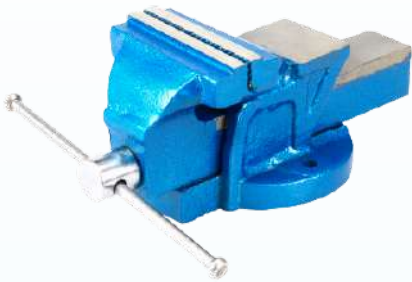


Model	Size	Width of jaw	QTY/Case	G.W./N.W.
9303	3.5"	87.5	6	30/27
9304	4"	100	4	21.5/19

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	18/26
9505	5"	125	152	1	19/18
9506	6"	150	178	1	29/27



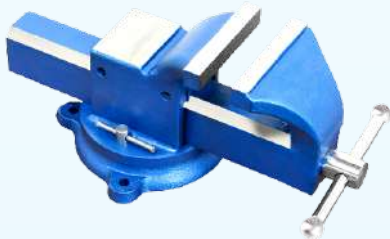
Model	Size	Width of jaw	Max.Opening	QTY/Case	G.W./N.W.
9803	3"	75	75	4	20/19
9804	4"	100	100	2	16/14
9805	5"	125	125	1	11.4/10.6
9806	6"	150	150	1	17.5/16.5

98 French Type Heavy Duty Bench Vices with Anvil Stationary Base



Model	Size	Width of jaw	Max.Opening	QTY/Case	G.W./N.W.
9823	3"	75	75	4	18/16
9824	4"	100	100	2	13/12
9825	5"	125	125	1	20/18.6
9826	6"	150	150	1	15.5/14.5

98 French Type Light Duty Bench Vices with Anvil Swivel Base



Model	Size	Width of jaw	Max.Opening	QTY/Case	G.W./N.W.
9833	3"	75	75	4	20/18
9834	4"	100	100	2	11/10
9835	5"	125	125	1	8.5/7.5
9836	6"	150	150	1	12.5/11.5

98 French Type Light Duty Bench Vices with Anvil Stationary Base



Model	Size	Width of jaw	Max.Opening	QTY/Case	G.W./N.W.
9843	3"	75	75	4	18/16
9844	4"	100	100	2	10/9
9845	5"	125	125	1	8/7
9846	6"	150	150	1	11.5/10.5



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 Guild-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	30/28(5PCS)

SY Arbor Presses

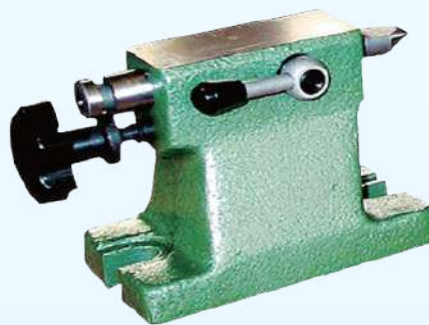


Model	Width of jaw	KN	Max.Opening	G.W./N.W.
0.5t	5	500	90	11/10
1t	10	1000	110	17/16
2t	20	2000	180	39/38
3t	30	3000	285	69/67
5t	50	5000	430	176/154

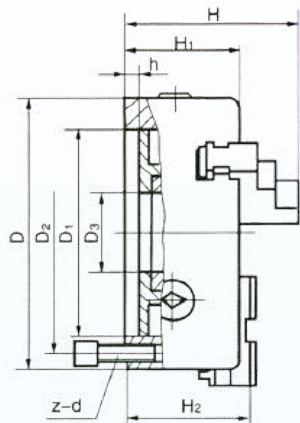
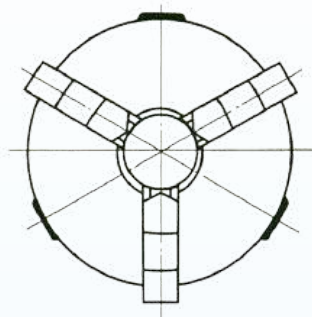


Model	Center Height mm		Use of Model	Wt.(kg)
	Max	Min		
TS0	90(3.54")	42(1.65")	HV-3;HV-4;HV-5	3.9
TS1	131(5.15")	97(3.81")	HV-6;F2-6;F3-6	13
TS2	210(8.26")	130(5.12")	HV-8,10,12;F2-8;F3-8	18
TS3	300(11.8")	210(8.27")	HV-16;HV-16	21

Tailstock,WZ series



Items	WZ70	TSL400-2
Distance between taper center to base mm	70	260
Taper of Center	-	MT3
Width of locating key mm	10	18
Stroke of Center mm	12	30
Net weight kgs	2.5	28
Gross weight kgs	3	32
Case dimensions mm	200x120x202	375x355x260



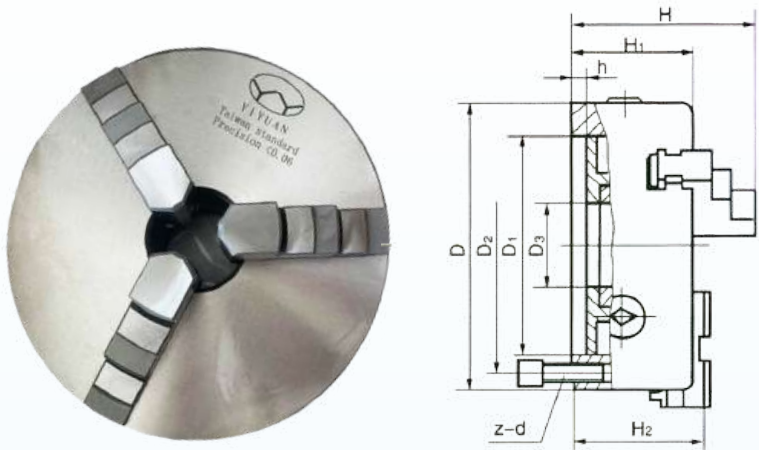
The type three/four jaw self-centering chucks are suitable for the main shaft of four Germany standard produce according to DIN6350 or DIN55026 standard. It has front lock type as well.

DIN6350

SPEC/MODEL	D1	D2	D3	H1	h	Z-d	Net 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

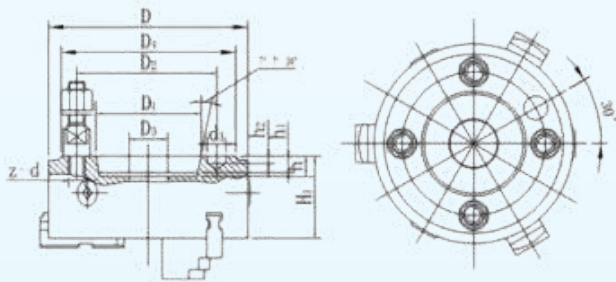
DIN55026

SPEC/MODEL	D1	D2	D3	H1	h	Z-d	Net WT.
80	63	70	17	45	3	3xM5	1.5
100	80	90	23	52	3	3xM6	2.8
125	100	110	28	58	4	3xM8	5
160	130	143	48	62	4	3xM10	10
200	163	180	52	76	5	3xM10	17.5
250	210	226	78	82	5	3xM10	29
315	265	290	108	100	6	4xM12	50
400	350	375	144	110	7	6xM12	85
500	420	458	190	120	8	6xM16	118

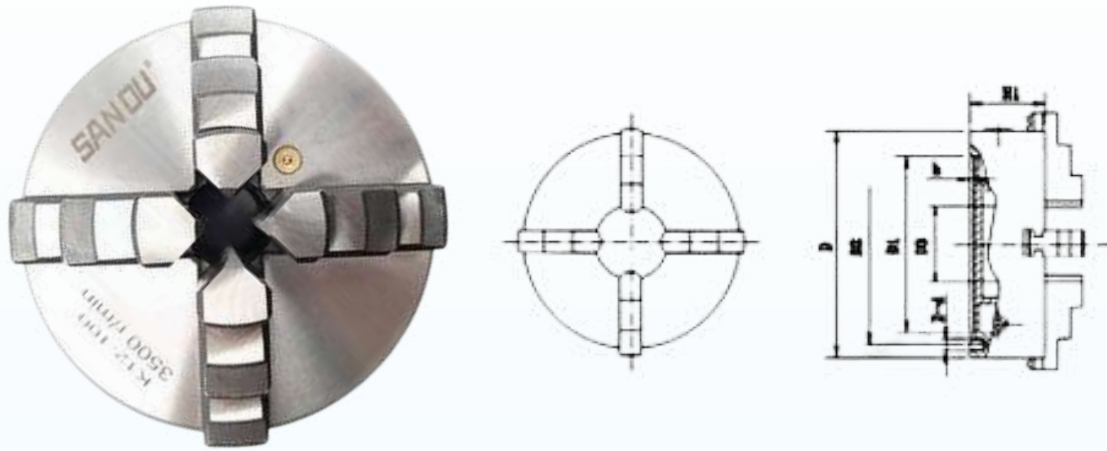


Russian Standardized 3-Jaw Self-Centering Chucks adopt short conical connection according to Standard rOCT 2675. The jaw have one-piece and two-piece ca led A type,A type two-plece jaws are according to ISO 3442 Standard Soft jaws can be provided according to the clients' requests. Hight centering accuracy 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	140	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

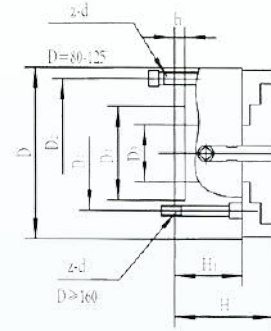


MODEL	D	D1	D2	D3	D4	H1	h	h1	h2	d1	Z-d
7100-0033TT	200	106.375	133.4	60	170	88	16	13	6.5	19.5	4-M12
7100-0035TT	250	106.375	133.4	70	170	95	16	13	6.5	19.5	4-M12
7100-0037TT	250	139.719	171.4	80	220	95	16	14	8	24.5	4-M16
7100-0039TT	315	106.375	133.4	100	170	112	18	13	6.5	19.5	4-M12
7100-0041TT	315	139.719	171.4	100	220	112	16	14	8	24.4	4-M16
7100-0043TT	400	139.719	171.4	130	220	122	18	14	8	24.5	4-M16
7100-0045TT	400	196.869	235	130	290	122	20	16	10	29.4	4-M20



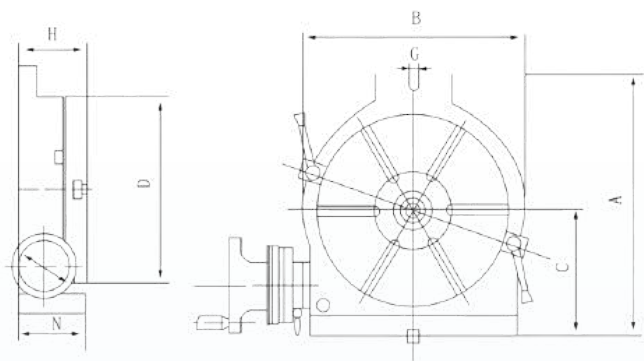
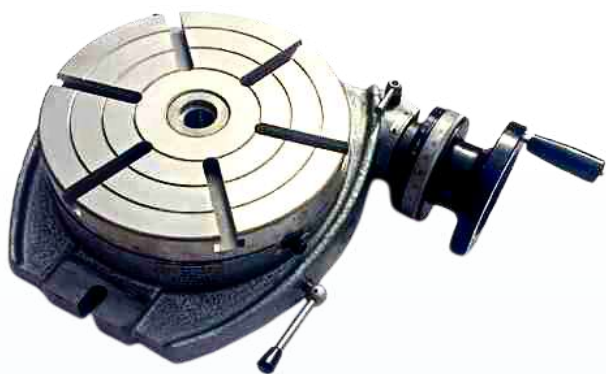
Mode K12 chucks are suitable for using in processing a large quantity of the square workpieces and The eight-edged work-pieces. They are remarkable for their automatic centring and quick clamping. The structure parameters of these chucks and the same as those of K11 series three-jaw self-centring chucks.

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	4M8	100	3000	5
130	100	115	30	60	4	4M8	100	3000	5.6
160	130	142	45	65	5	3M8	160	2500	8.8
165	130	145	45	66.5	4.5	3M8	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	1600	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	6	3-M12	320	1600	23.5
250C	206	285	80	80	6	3-M12	320	1600	23
315	260	285	100	90	6	3-M16	400	1200	47
315A	260	285	100	90	11	3-M16	400	1200	41
315C	260	285	100	90	11	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	95	11	3-M16	400	1200	49
380A	325	350	135	96	6	3-M16	500	1000	62
400A	340	398	130	100	6	3-M16	500	1000	71
500A	440	465	200	115	7	3-M16	630	800	118
630A	560	595	260	130	8	3-M16	800	600	210
800A	710	760	280	155	8	3-M20	1000	730	390
1000A	910	950	400	165	10	3-M24	1200	600	596



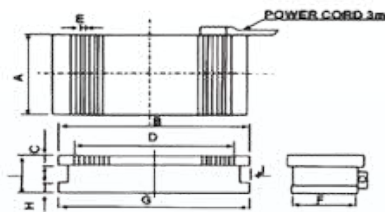
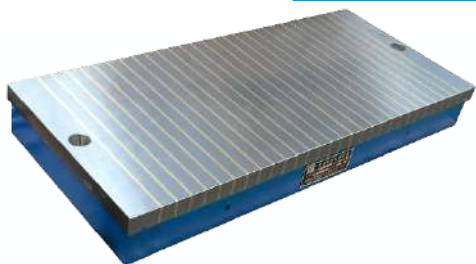
Size(D)	D1	D2	D3	H1	h	Z-d	Max.input torque (N.m)	Max.Speed (R/min)	Net WT.
50	15	38	M14x1	39	5	4-M4	10	6000	0.55
80	55	66	22	42	3.5	4-M6	25	4000	1.5
100	72	84	25	74	3.5	4-M8	30	3500	3
125	95/92	108	30	56	3.5	4-M8	50	3000	5
160	65	95	45	65	4.5	4-M10	70	2500	9
200	80/75	112/95	56	75	5	4-M10	100	2000	15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

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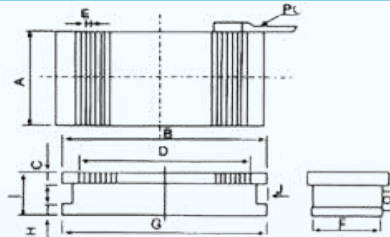
Material:HT250

Specifications	TS160A	TS200A	TS250A	TS320A	TS400A	TS500A	TS630A	TS800A	TS1000A
Items									
Table diameter mm	Φ160	Φ200	Φ250	Φ320	Φ400	Φ500	Φ630	Φ800	Φ1000
Morse taper of the hole mm	2#	3#		4#		5#		6#	
Width of the T-slot mm	10	12		14		18		22	
Adijacent angle table T-slot	90°	60°				45°			
Transmission ratio of the worm gear	1:90					1:120			
Graduation of the table	360°								
Rotating angle of table with one revolution of the worm	4°(1'per graduation)					3°(1'per graduation)			
Minimum value of vernier	10"								
indexing accuracy	80"	60"							
Max.workload kgs	100	150	200	250	300	550	700	1250	2000
Gross Weight kg	21.5	31	44.5	76	145	238	377	855	1400
Matched Chuck	K1:125	K11160	K11200	K11250	K11325	K11400	K11500A	K11630A	K11630A



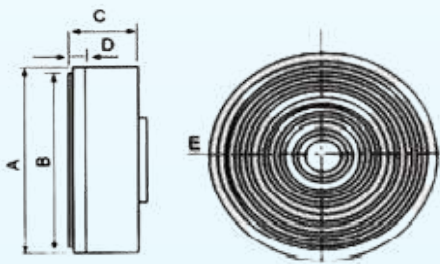
Metric	Inch	Dimension mm								(DCV)	(A)
		A	B	C	D	F	G	I	J		
X11 200-630	8"-25"	200	630	30	550	616	100	100	30	110	1
X11 250-500	10"-20"	250	500	22	400	494	95	95	30	110	1
X11 300-600	12"-24"	300	600	30	510	590	88	88	30	110	1.1
X11 300-800	12"-32"	300	800	30	730	795	116	116	12	110	1.46

Rectangular Dense Magnetic-pole Chucks;XM11 Series

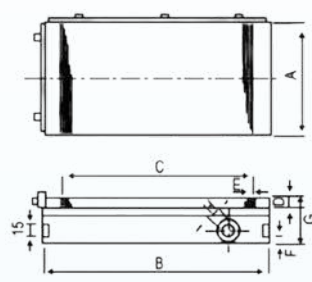
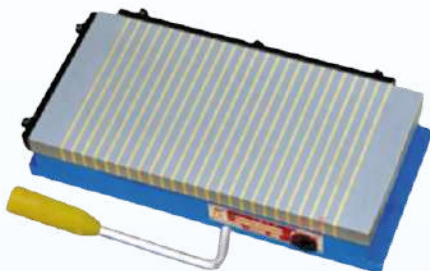


Metric	Inch	Dimension mm								(DCV)	(A)
		A	B	C	D	F	G	I	J		
XM11 250-500	10"-20"	250	500	22	400	244	495	95	30	110	1
XM11 300-600	12"-24"	300	600	30	510	285	590	88	30	110	1.1
XM11 300-800	12"-32"	300	800	30	730	295	795	116	12	110	1.8

Circular Electric Magnetic Chucks; X21 Series



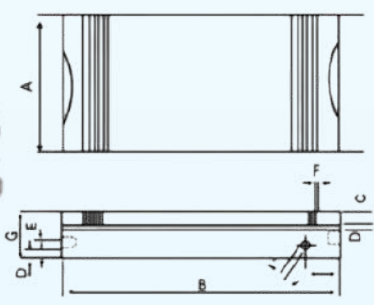
Metric	Inch	Dimension mm					(A)	(DCV)
		A	B	C	D	E		
X21 500	20"	510	500	100	25	12	1.8	110
X21 630	25"	650	630	130	30	14	1.7	110
X21 800	32"	810	800	180	35	13	2.5	110
X21 1000	40"	1060	1036	156	35	20	4.6	110



Force: 90N/CM²

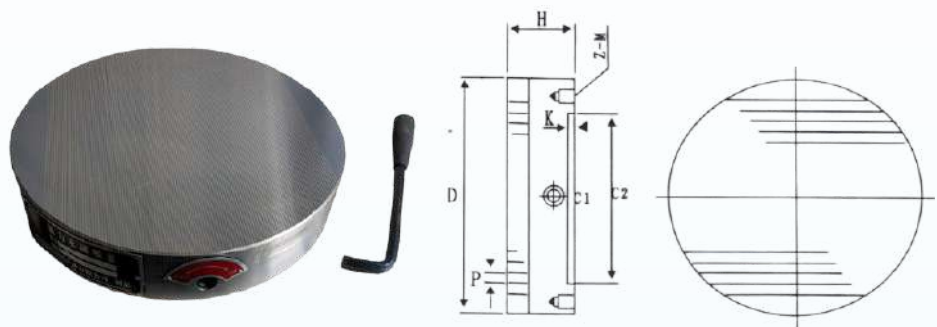
Metric	Inch	Dimension mm								
		A	B	C	D	E	F	G	H	N.W.(KG)
X41 125-250	5"-10"	125	250	204	20	4.8(1+3.8)	10	55	12	15
X41 150-150	6"-6"	150	150	104	20	4.8(1+3.8)	10	55	12	9.4
X41 150-300	6"-12"	150	300	254	20	4.8(1+3.8)	10	55	12	19
X41 150-350	6"-14"	150	350	304	20	4.8(1+3.8)	10	55	12	22

Powerful Dense Permanent Magnetic Chucks; XM91 Series



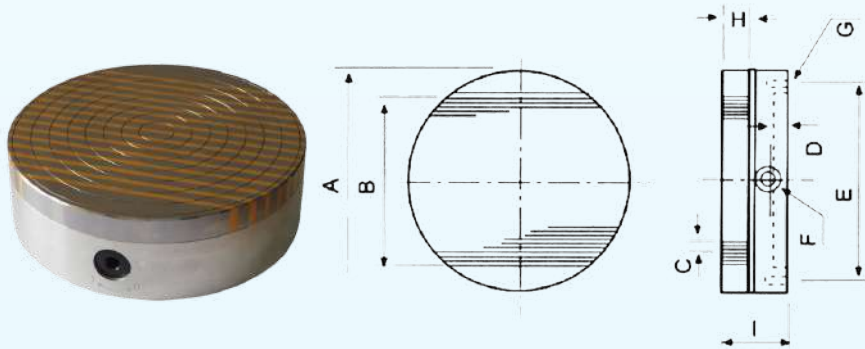
Force: 100N/CM²

Metric	Inch	Dimension mm								
		A	B	C	D	E	F	G	I	N.W.(KG)
XM91 100-175	4"-7"	100	175	18	10	10	2(0.5+1.5)	53	12	7
XM91 125-250	5"-10"	125	250	18	10	10	2(0.5+1.5)	53	12	13
XM91 150-150	6"-6"	150	150	18	10	10	2(0.5+1.5)	53	12	9.4
XM91 150-300	6"-12"	150	300	18	10	10	2(0.5+1.5)	53	12	19
XM150-350	6"-14"	150	350	18	10	10	2(0.5+1.5)	53	12	22



Metric	Inch	Dimension mm								
		A	B	C	D	E	F	G	H	I
X51 125	5"	125	80	2.8(1+1.8)	2	112	10	M6	20	58
X51 160	6"	160	115	2.8(1+1.8)	2	140	10	M8	20	58
X51 200	8"	200	155	2.8(1+1.8)	2	180	10	M10	20	58
X51 250	10"	250	205	2.8(1+1.8)	2	224	10	M10	20	58
X51 300	12"	300	300	2.8(1+1.8)	2	260	10	M10	20	58

Circular Dense Permanent Magnetic Chucks; XM51 Series



Metric	Inch	Dimension mm								
		A	B	C	D	E	F	G	H	I
XM51 200	8"	200	155	2.5(1+1.5)	2	180	10	M10	20	58
XM51 300	12"	300	255	2.5(1+1.5)	2	260	10	M10	20	58
XM51 400	16"	400	355	2.5(1+1.5)	2	350	10	M10	20	58
XM51 500	20"	500	455	2.5(1+1.5)	2	440	10	M12	20	58
XM51 600	24"	600	505	2.5(1+1.5)	2	550	10	M12	20	58



Permanent magnetic lifters use new type and high-performance magnetic material. It is characterized by its smaller and lighter weight. Powerful lifting effort and few of residual magnetism. Easy and safe operation. Without electricity in operation. Long period effort, They have been used widely to lift and transport the steel and iron.

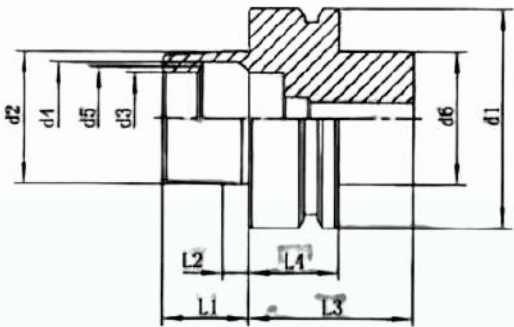
Model	Capacity	Max Force KGS	Dimensions			Weight
			Length	Width	Height	
YQ100	100	300	150	80	160	7
YQ200	200	600	190	110	220	15
YQ300	300	900	230	120	210	22
YQ600	600	1800	290	145	250	42
YQ1000	1000	3000	410	150	310	76
YQ2000	2000	6000	460	180	350	118
YQ3000	3000	9000	480	210	380	140

Electro Magnetic Lifter



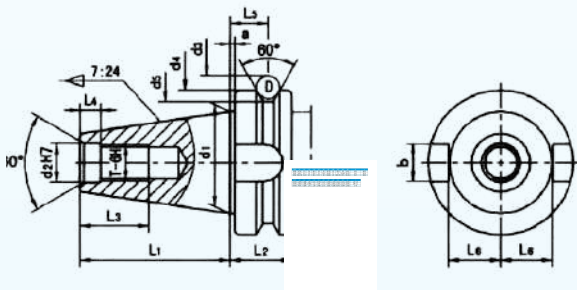
Electro Magnetic Lifter used for handling ingots, steel balls, coils and all kinds of scrap iron, strong lifting, remote control operation, use safe and convenient. Increase work efficiency. reduce labor intensity. Widely used in factories, freight yard to do heavy lifting exercise.

Model	Dimensions		Power	Weight
	Diameter	height		
MI W5-70L	700	320	3.3	490
MI W5-80L	800	320	3.96	820
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 W5-160L	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



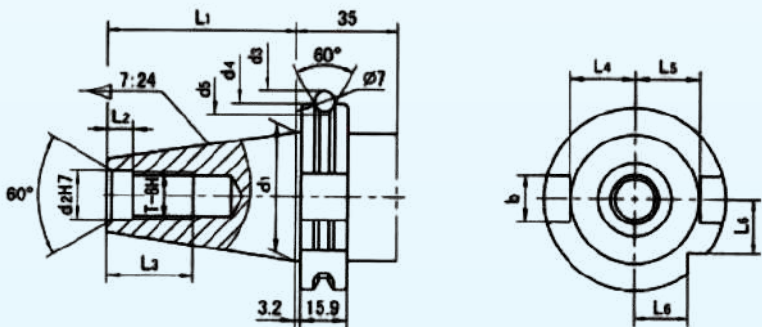
TYPE	L1	L2	L3	L4	L5	d1	d2	d3	d4	d5	d6
HSK50F	20	4	42	26	11.42	50	30.007	21	25.5	23	42
HSK63F	25	5	42	26	11.42	63	38.01	26	32	29	53

MAS 403 BT

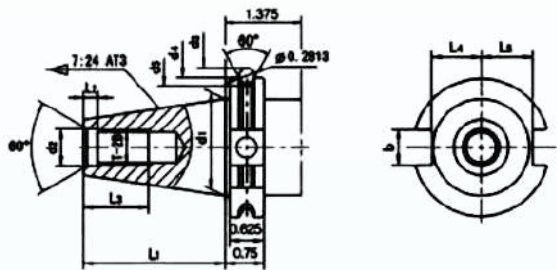


TYPE	L1	L2	L3	L4	L5	L6	d1	d2	d3	d4	d5	D	a	b	t
BT30	48.4	22	24	7	13.6	16.3	31.75	12.5	56.144	46	38	8	2	16.1	M12
BT40	65.4	27	30	9	16.6	22.6	44.45	17	75.697	63	53	10	2	16.1	M16
BT50	101.8	38	45	13	23.2	35.4	69.85	25	119.01	100	85	15	3	25.7	M24

DIN 69871

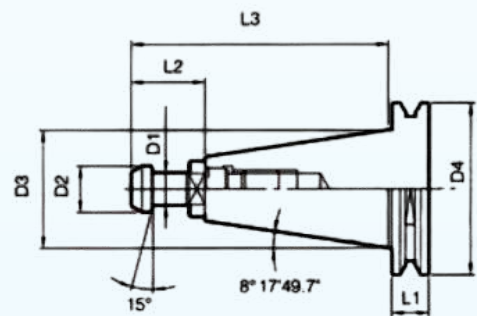


TYPE	L1	L2	L3	L4	L5	L6	d1	d2	d3	d4	d5	b	t
SK30	47.8	5.5	24	16.4	19	15	31.75	13	59.3	50	44.3	16.1	M12
SK40	68.4	8.2	32	22.8	25	18.5	44.45	17	72	63.66	56.25	16.1	M16
SK50	101.75	11.5	47	35.5	37.7	30	69.85	25	107.25	97.5	91.25	25.7	M24



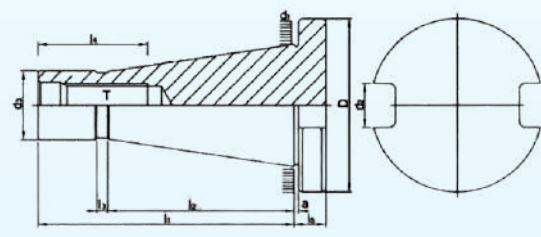
TYPE	L1	L2	L3	L4	L5	d1	d2	d3	d4	d5	b	t
CAT30	1.875	0.188	1.00	0.64	0.735	1.25	0.516	2.176	1.812	1.531	0.645	1/2"-13
CAT40	2.687	0.188	0.488	1.12	0.89	1.75	0.641	2.863	2.500	2.219	0.645	5/8"-11
CAT50	4.00	0.250	1.75	1.39	1.485	2.75	1.031	4.238	3.875	3.594	1.020	1"-8

ISO

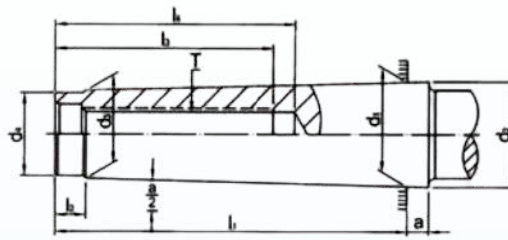


TYPE	D1	D2	D3	D4	L1	L2	L3
ISO20	6	9	22.225	33	8	12	45.3
ISO25	7	10	25.4	37	8	16	55.7
ISO30	9	13	31.75	50	15.9	24	71.8

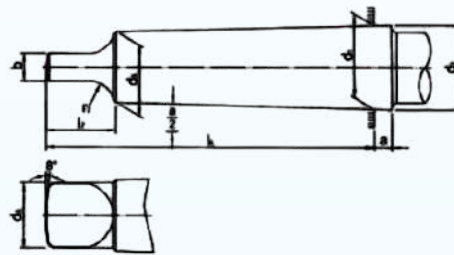
DIN2080 NT



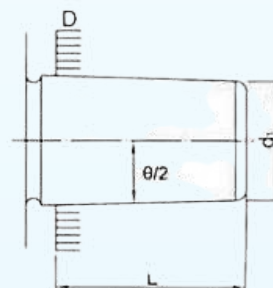
TYPE	D	d1	d2	d3	a	l1	l2	l3	l4	l5	T
NT30	49	31.75	16.1	17.05	1.6	68.4	48.4	3	24	8	1/2"-12W.M12x1.75p,1/2"-13UNC
NT40	63	44.45	16.1	24.98	1.6	93.4	65.4	5	32	10	5/8"-11W,M16x2.0P
NT50	97.5	69.85	25.7	38.19	3.2	126.8	101.8	8	47	12	1"-8W,M24x3.0p



M.T NO	a	d1	d4 Max	T	l1 Max	l3 Max
2	5	17.78	14	3/8"W,M10x1.5P	64	24
3	5	23.825	19	1/2"12W,M12x1.7P	81	24
4	6.5	31.267	25	5/8"11W,M16x2.0P	102.5	32
5	6.5	44.399	35.7	1"8W,M24x3.0P	129.5	40
6	8	63.348	51	1"8W,M24x3.0P	182	47



M.TNO	a	b13	ds	d6 Max.	l7 Max
2	5	6.3	14	13.5	16
3	5	7.9	19.1	18.5	20
4	6.5	11.9	25.2	24.5	24
5	6.5	15.9	36.5	35.7	29
6	8	19	52.4	51	40



TYPE	Taper	D	d1	L
JT2	2°19'52.	14.199	12.386	22.225
JT33	1°49'01"	15.850	14.237	25.400
JT6	1°29'10	17.170	15.852	25.400
JT33	1°31'26"	20.599	18.951	30.956
JT4	1°29'59"	28.550	26.346	42.069
JT5	1°29'05"	35.890	33.422	47.625

TYPE	Taper	D	d1	L
B12	1°25'43"	12.065	11.1	18.5
B16	1°25'50"	15.733	14.5	24.0
B18	1°25'50"	17.780	16.2	32.0

NYC INTERNATIONEL

แผนที่ตั้งบริษัท



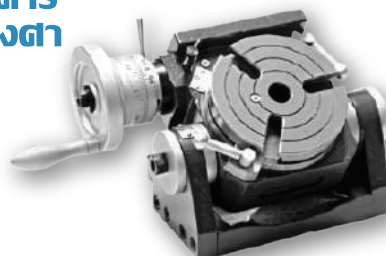
N.Y.C INTERATIONEL



ปากทากัดชิ้นงาน
รุ่นฐานหมุน



หัวแบ่งโรตารี
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