

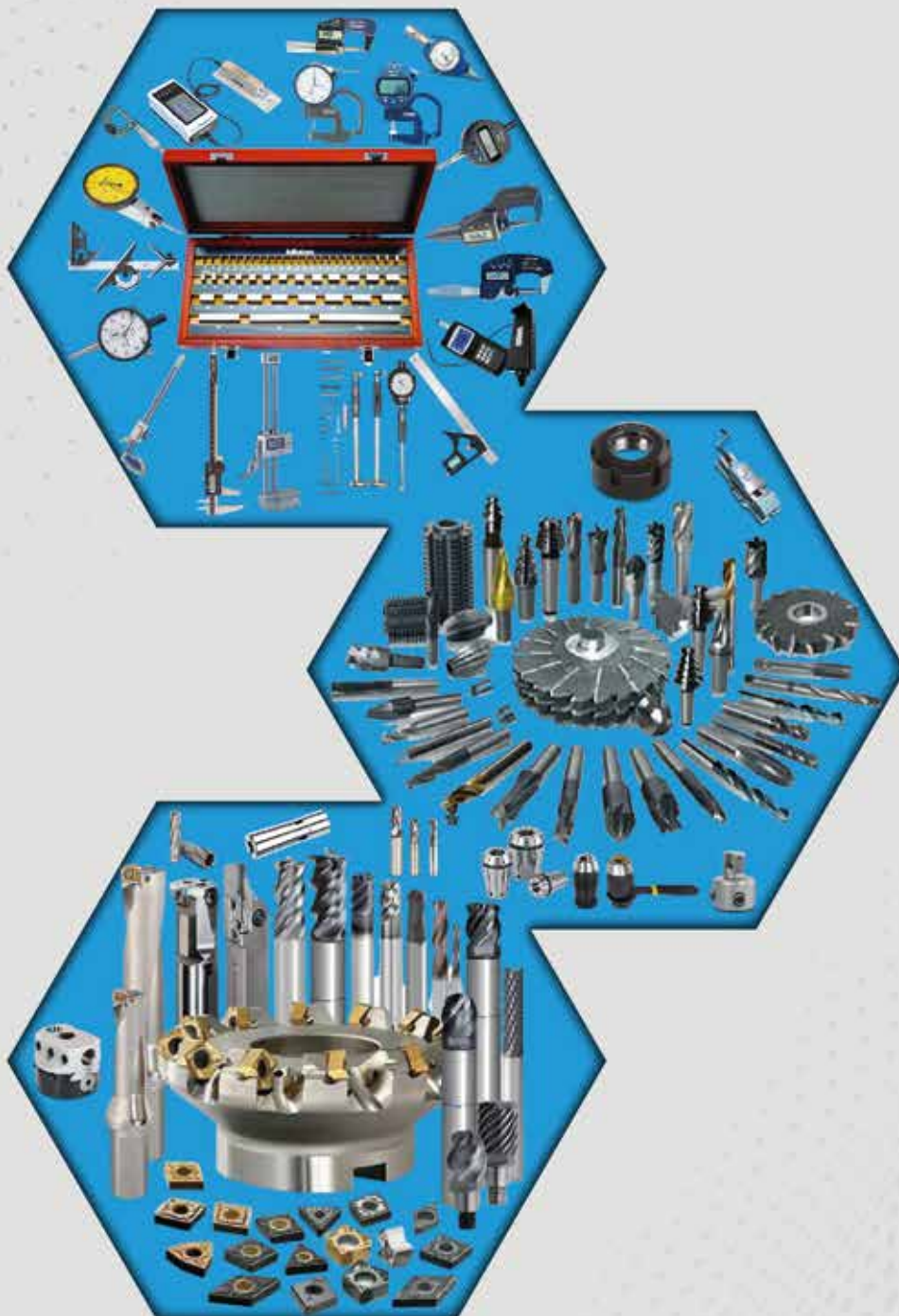


YAMAMOTO

GENERAL TRADING L.L.C

www.yamamotogcc.com

*Precision is.....
.....Our Passion.*





103 series

Coated frame type. Large-size micrometers are also available.
Measuring range: up to 1000mm in standard specification



Digital Micrometer

Bigger sizes of measuring range: more than 300mm also available.



Interchangeable Anvil Micrometer

A Mitutoyo non-digital micrometer that accepts easily interchangeable anvils to enable a wide variety of measurement, such as tubing thickness, shoulder-edge distance and rivet height. A ratchet stop guarantees repeatable measurement.



Vernier Calipers:-

STANDARD , FINE ADJUSTMENTS & LONG JAW



ABS Digimatic Caliper

Abundant lineup of calipers such as models with output and with carbide-tipped jaws



Dial Calipers:-

Dial calipers that provides 2 minimum reading of 1/100mm or 2/100mm



DIAL Indicator Standard / Back plunger & Test indicators

Standard type compact dial indicator

Large dial type with a measuring range of 20mm or more



Digimatic Indicator IDC

Allows arbitrary calculation compensation of spindle displacements. Widely used for curvature measurement, bore diameter measurements etc.



Tubular Inside Micrometers with Extensions

This is an extension rod type inside micrometer that offers you the following benefits

- :Interchangeable extensions with cylindrical gage rods are spring-mounted in protective sleeves so you can extend the measuring range.
- Carbide measuring faces are available.



Magnetic Stands

The Dial can be locked in any desired position via centralised clamping.



Series 511

These are bore gauges that automatically self-centre via a centring bridge. They offer you the following benefits: A long plunger stroke gives you amazing accuracy. Interchangeable washers 0.5mm thick are supplied as standard accessories, so you can enable setting in small steps.



ABSOLUTE Borematic Interchangeable Head Sets

This is a Three-Point Digimatic Snap Open Bore Gauge Set with one display unit and interchangeable heads. It enables you to take measurements easily and quickly. Titanium-coated measuring pins gives you excellent durability and impact resistance. 330° rotatable display unit also gives you easy reading at any angle. GO/NG tolerance judgement function.



VERNIER DEPTH GAUGE

The dial is very easy-to-read. Its base and measuring faces are hardened and micro-lapped for robustness. You can make fine adjustments



Portable Surface roughness measurement surftest SJ-210

Light, Compact body and simple operation - Displays waveforms on the color LCD screens



Absolute Digimatic Height Gauge

Feature a double column structure that ensures high measuring accuracy, SPC data output, switchable resolution and coarse to fine feed switching.



Gauge Block SET

Steel and ceramic gauge blocks are available in different grades.



Gauges for better measurements of OD, ID and tube wall Thickness in hard to reach areas.



COATING THICKNESS GAUGE

digital led display
range upto 2000micron
least count 0.1micron



ULTRASONIC THICKNESS METER

digital led display
probe range :- 1mm upto 300mm
Accuracy :- 0.1mm



PORTABLE HARDNESS TESTER

Digital LCD Display
Hardness Scale :- HL , HRC , HRB , HV , HB , HS
Accuracy :- +/- 4HLD



HILO WELDING GAUGE



BRIDGE CAM GAUGE



PIPE PIT GAUGE



V-VAC GAUGE



WELD GAUGE



FILLET GAUGE



TAPER GAUGE



FEELER GAUGE/GAP GAUGE



THREAD PITCH GAUGE



SHEAVE GAUGE



**THREAD PLUG GAUGE GO/NOGO
METRIC , INCH , STUB ACME
ACME ETC**



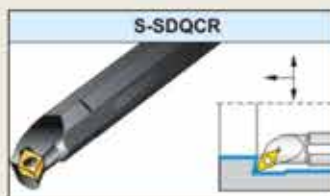
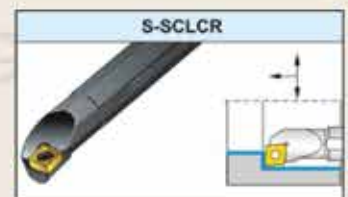
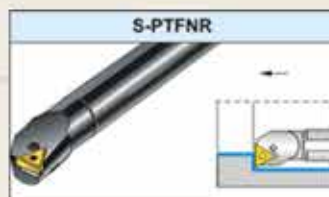
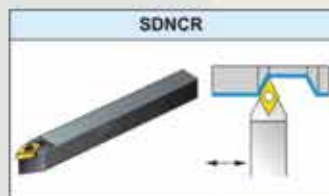
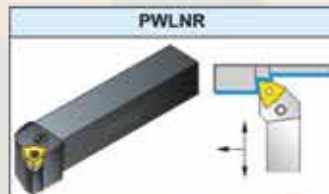
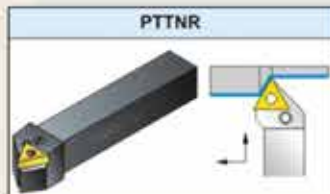
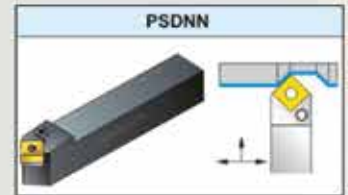
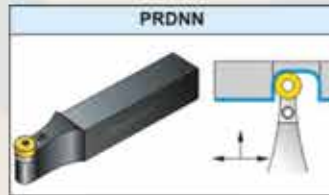
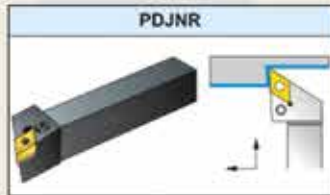
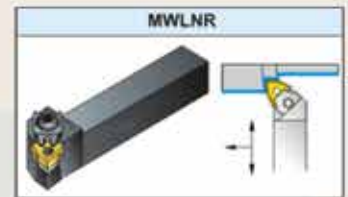
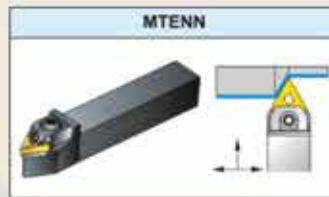
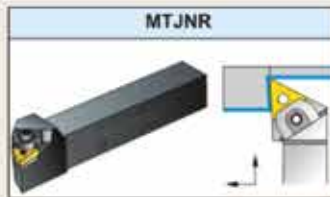
**THREAD RING GAUGE GO/NOGO
METRIC , INCH , STUB ACME , ACME ETC**



**BOX/RING FOR OIL INDUSTRY
API , LINE PIPE , ACME , NC
BUTTRESS**



INDEXABLE HOLDERS & BORING BARS





Indexable Face Mill Cutters



RPMT Radius



APMT 90°

DIA	BORE	Z	INSERT		KEY	SCREW
			APMT	RPMT		
50	22	4	1604	1204	T-15	M 4 X 10
52	22	4	-	1204	T-15	M 4 X 10
63	22	5	1604	1204	T-15	M 4 X 10
80	27	6	1604	1204	T-15	M 4 X 10
100	32	6	1604	1204	T-15	M 4 X 10
125	40	6	1604	1204	T-15	M 4 X 10
160	40	9	1604	1204	T-15	M 4 X 10
200	60	12	1604	1204	T-15	M 4 X 10
250	60	12	1604	1204	T-15	M 4 X 10

Indexable Counter Sink Tool 90°



RANGE	SHANK DIA	Z	INSERT
8-25MM	20MM	1	TCMT16
20-40 MM	20MM	2	TCMT16

Indexable Facemill 3/4" TPKN



DIA	BORE	Z
63	22	4
80	27	5
100	32	5
125	40	6
160	40	7
200	60	9

Indexable Endmill R-390

DIA	LENGTH	BORE
50MM	-	22
16 MM	150 MM	-
20 MM	150 MM	-
25 MM	150 MM	-

Indexable Endmill JDMT-1003

DIA	LENGTH
16 MM	150 MM
20MM	150 MM
25 MM	200 MM

Indexable End Mill Cutters



RPMT Radius



APMT 90°

DIA	LENGTH	SHANK	Z	INSERT				KEY
				APMT	SCREW	RPMT	SCREW	
10	120	10	1	1135	M-2.5X6	-	-	T-8
12	130	12	1	1135	M-2.5X6	0802	M-3X8	T-8
16	150	16	2	1135	M-2.5X6	0802	M-3X8	T-8
16	200	16	2	1135	M-2.5X6	0802	M-3X8	T-8
20	150	20	2	1135	M-2.5X6	0802	M-3X8	T-8
20	200	20	2	1135	M-2.5X6	0802	M-3X8	T-8
25	150	25	2	1604	M-4X10	1003	M-3.5X8	T-15
25	200	25	2	1604	M-4X10	1003	M-3.5X8	T-15
25	250	25	2	1604	M-4X10	1003	M-3.5X8	T-15
32	250	32	2	1604	M-4X10	1204	M-4X10	T-15
32	300	32	2	1604	M-4X10	1204	M-4X10	T-15
40	250	40	3	1604	M-4X10	1204	M-4X10	T-15
40	300	40	3	1604	M-4X10	1204	M-4X10	T-15



U Drills (Dx3 and Dx4)

Dimension in (mm)

Cat No.	U DRILLS (D x 2) Size			U DRILLS (D x 3) Size		U DRILLS (D x 4) Size		Insert	Clamp Screw	Wrench
	D	L	d	L	d	L	d			
SP 10-C20	10	20		30				SPMT 04 02 04	M2.2	T6
SP 10.5-C20	10.5	21		31.5						
SP 11.0-C20	11	22		33						
SP 11.5-C20	11.5	23	20.0	34.5	20.0					
SP 12.5-C20	12.5	25.0		37.5		50.0		SPMG 05 02 04	M2.5 x 5.5	T6
SP 13.0-C20	13.0	26.0		39.0		52.0	20.0			
SP 13.5-C20	13.5	27.0		40.5		54.0				
SP 14.0-C25	14.0	28.0		42.0		56.0				
SP 14.5-C25	14.5	29.0		43.5		58.0				
SP 15.0-C25	15.0	30.0		45.0		60.0				
SP 15.5-C25	15.5	31.0		46.5		62.0				
SP 16.0-C25	16.0	32.0		48.0		64.0				
SP 16.5-C25	16.5	33.0		49.5		66.0		SPMG 06 02 04	M2.5 X 5.5	T7
SP 17.0-C25	17.0	34.0		51.0		68.0				
SP 17.5-C25	17.5	35.0		52.5		70.0				
SP 18.0-C25	18.0	36.0		54.0		72.0				
SP 18.5-C25	18.5	37.0		55.5		74.0				
SP 19.0-C25	19.0	38.0	25.0	57.0	25.0	76.0	25.0			
SP 19.5-C25	19.5	39.0		58.5		78.0				
SP 20.0-C25	20.0	40.0		60.0		80.0				
SP 20.5-C25	20.5	41.0		61.5		82.0		SPMG 07 T3 08	M2.5 X 8.0	T8
SP 21.0-C32	21.0	42.0		63.0		84.0				
SP 21.5-C25	21.5	43.0		64.5		86.0				
SP 22.0-C25	22.0	44.0		66.0		88.0				
SP 22.5-C25	22.5	45.0		67.5		90.0				
SP 23.0-C25	23.0	46.0		69.0		92.0				
SP 23.5-C25	23.5	47.0		70.5		94.0				
SP 24.0-C25	24.0	48.0		72.0		96.0				
SP 24.5-C25	24.5	49.0		73.5		98.0		SPMG 09 04 08	M3.5 x 9.0	T15
SP 25.0-C32	25.0	50.0		75.0		100.0				
SP 25.5-C32	25.5	51.0		76.5		102.0				
SP 26.0-C32	26.0	52.0		78.0		104.0				
SP 26.5-C32	26.5	53.0		79.5		106.0				
SP 27.0-C32	27.0	54.0		81.0		108.0				
SP 27.5-C32	27.5	55.0		82.5		110.0				
SP 28.0-C32	28.0	56.0		84.0		112.0		SPMG 11 04 08	M4.0 x 10.0	T15
SP 28.5-C32	28.5	57.0		85.5		114.0				
SP 29.0-C32	29.0	58.0		87.0		116.0				
SP 29.5-C32	29.5	59.0		88.5		118.0				
SP 30.0-C32	30.0	60.0		90.0		120.0				
SP 30.5-C32	30.5			91.5		122.0				
SP 31.0-C32	31.0			93.0		124.0				
SP 31.5-C32	31.5	32.0		94.5	32.0	126.0	32.0	SPMG 14 05 12	M4.0 X 11.0	T20
SP 32.0-C32	32.0			96.0		128.0				
SP 32.5-C32	32.5			97.5		130.0				
SP 33.0-C32	33.0			99.0		132.0				
SP 33.5-C32	33.5			100.5		134.0				
SP 34.0-C32	34.0			102.0		136.0				
SP 35.0-C32	35.0			105.0		140.0				
SP 36.0-C32	36.0			108.0		144.0				
SP 37.0-C32	37.0			111.0		148.0		SPMG 14 05 12	M4.0 X 11.0	T20
SP 38.0-C32	38.0			114.0		152.0				
SP 39.0-C32	39.0			117.0		156.0				
SP 40.0-C32	40.0			120.0		160.0				
SP 41.0-C32	41.0			123.0		164.0				
SP 42.0-C32	42.0			126.0		168.0				
SP 43.0-C40	43.0			129.0		172.0				
SP 44.0-C40	44.0			132.0		176.0				
SP 45.0-C40	45.0			135.0		180.0		SPMG 14 05 12	M4.0 X 11.0	T20
SP 46.0-C40	46.0	40.0		138.0	40.0	184.0	40.0			
SP 47.0-C40	47.0			141.0		188.0				
SP 48.0-C40	48.0			144.0		192.0				
SP 49.0-C40	49.0			147.0		196.0				
SP 50.0-C40	50.0			150.0		200.0				



CNMG



DNMG



SNMG



TNMG



DCGT



VNMG



WNMG



CCMT



RCMT



CCGT



DCMT



TCMT



SCMT



VBMT



TCGT



TPGX



KNUX 160405 R/L



PARTING & GROOVING TDC , TDT , TDJ , MGMN



16ER

16IR



THREADING INSERT ER, IR, NPT, UN, ACME, STUB ETC



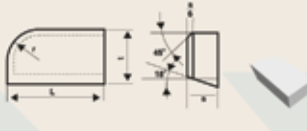
BRAZED CARBIDE TIPS

A Type



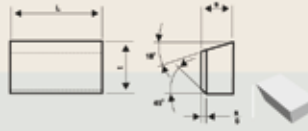
Type	L	t	s	r
A12	12	8	5	5
A16	16	10	6	6
A20	20	12	7	7
A25	25	14	8	8
A32	32	18	10	10

B Type



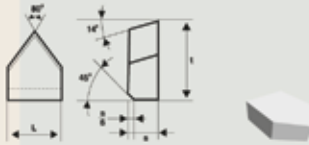
Type	L	t	s	r
B12	12	8	5	5
B16	16	10	6	6
B20	20	12	7	7
B25	25	14	8	8
B32	32	18	10	10

C Type



Type	L	t	s
C12	12	8	5
C16	16	10	6
C20	20	12	7
C25	25	14	8
C32	32	18	10

E Type



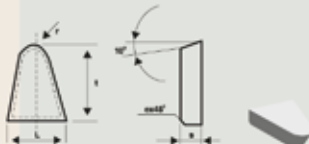
Type	L	t	s
E10	10	18	5
E12	12	20	6
E16	16	22	7
E20	20	25	8
E25	25	28	9

A4 Type



Type	L	t	s	R	e	re	Profile
A409	16	10	5.5	10	0.8	1	X
A410	16	10	5.5	10	0.8	1	Y
A411	20	12	7	12.5	0.8	1	X
A412	20	12	7	12.5	0.8	1	Y
A413	25	15	8.5	16	0.8	1	X
A414	25	15	8.5	16	0.8	1	Y

G Type



Type	L	t	s	r
G12	12	17	5	2.5
G16	16	20	6	3.5
G20	20	24	6	4.5
G25	25	28	8	6
G30	30	34	10	8

C1 Type



Type	L	t	s	re	e
C103	16	6	4	0.5	0.8
C105	20	8	5	0.5	0.8
C107	22	10	6	0.5	0.8
C109	25	12	7	0.8	0.8

Tolerance for the related dimension

(L, t, s, R, e, re)	mm
≤ 6	± 0.2
> 6 ~ 12	± 0.3
> 12 ~ 25	± 0.4
> 25 ~ 40	± 0.60
> 40 ~ 55	± 0.70
> 55	± 1.00

Tolerance for the flanks

dim	tol.	dim	tol.
≤ 6	0 -0.5	> 14~18	0 -1
> 6~10	0 -0.6	> 18~24	0 -1.2
> 10~14	0 -0.8	> 24~30	0 -1.6

Tolerance for flatness

dim	tol.	dim	tol.
≤ 18	≤ 0.15	> 30~45	≤ 0.25
> 18~20	≤ 0.20	> 45	≤ 0.40

Tolerance for angle

dim	tol.	dim	tol.
≤ 30 °	± 1 °	> 30 °	± 2 °

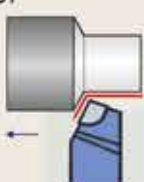

Density g/cm2: 14.5 - 14.9

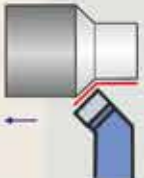
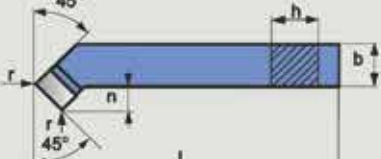
Min. bending strength N/cm2: 2580 | Min. Hardness HEA: 89.5

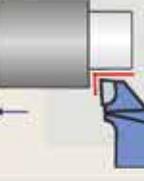

Recognition Application: For semi-finishing of cast iron, non-ferrous metals and their alloys, and non-metallic materials at medium cutting speed.

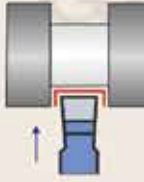



Tip Tools

<div>ISO1</div> 	Straight turning tool	ISO 1 R/L	ISO 1R- Right hand ISO1 L- Left hand							
		Size	Dimensions					Weight	Tip	
			h	b	L	n	r			
		1010	10	10	90	4	0,2	0,070	P	P10 P20 P30
		1212	12	12	100	5	0,4	0,110		
		1616	16	16	110	6	0,4	0,210		
		2020	20	20	125	8	0,8	0,360	M	M20*
		2525	25	25	140	10	0,8	0,620		
		3232	32	32	170	12	1,2	1,280		
		4040	40	40	200	16	1,2	2,250	K	K10 K20
		5050	50	50	240	20	1,6	4,250		

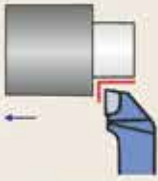
<div>ISO2</div> 	Bent turning tool.	ISO 2 R/L	ISO2R- Right hand ISO2L- Left hand							
		Size	Dimensions					Weight	Tip	
			h	b	L	n	r			
		1010	10	10	90	6	0,2	0,070	P	P10 P20 P30
		1212	12	12	100	7	0,4	0,110		
		1616	16	16	110	8	0,4	0,210		
		2020	20	20	125	10	0,8	0,360	M	M20*
		2525	25	25	140	12	0,8	0,620		
		3232	32	32	170	14	1,2	1,280		
		4040	40	40	200	18	1,2	2,250	K	K10 K20
		5050	50	50	240	22	1,6	4,250		

<div>ISO3</div> 	Side bent turning tool.	ISO 3 R/L	ISO3R- Right hand ISO3L- Left hand							
		Size	Dimensions					Weight	Tip	
			h	b	L	n	r			
		1610	16	10	110	5	0,2	0,120	P	P10 P20 P30
		2012	20	12	125	6	0,4	0,220		
		2516	25	16	140	8	0,4	0,410		
		3220	32	20	170	10	0,8	0,810	M	M20*
		4025	40	25	200	12	0,8	1,450		
		5032	50	32	240	14	1,2	2,840		K

<div>ISO4</div> 	Wide face square nose	ISO 4								
		Size	Dimensions					Weight	Tip	
			h	b=b ₁	L	l	r			
		2012	20	12	125	20	0,4	0,230	P	P10 P20 P30
		2516	25	16	140	25	0,4	0,420		
		3220	32	20	170	32	0,4	0,820		
		4025	40	25	200	40	0,4	1,450	M	M20*
		5032	50	32	240	50	0,4	2,850		K



ISO6



Offset side turning tool.

ISO 6 R/L

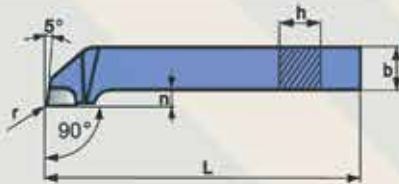
ISO6R- Right hand
ISO6L- Left hand

Size

Dimensions

Weight

Tip



1010

h

b

L

n

r

0,070

P

P10
P20
P30

1212

12

12

100

5

0,4

0,110

M

M20*

1616

16

16

110

6

0,4

0,210

2020

20

20

125

8

0,8

0,360

2525

25

25

140

10

0,8

0,620

3232

32

32

170

12

1,2

1,280

4040

40

40

200

14

1,2

2,300

5050

50

50

240

18

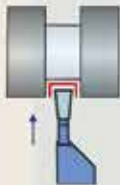
1,6

4,300

K

K10
K20

ISO7



Parting-off turning tool.

ISO 7 R/L

ISO7R- Right hand
ISO7L- Left hand

Size

Dimensions

Weight

Tip



1208

h

b

L

l

r

b₁

0,070

P

P10
P20
P30

1610

16

10

110

14

0,2

4

0,120

2012

20

12

125

16

0,2

5

0,210

2516

25

16

140

20

0,3

6

0,370

3220

32

20

170

25

0,3

8

0,700

4025

40

25

200

32

0,3

10

1,300

5032

50

32

240

40

0,3

12

2,500

P

P10
P20
P30

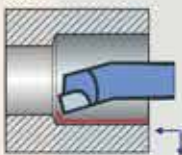
M

M20*

K

K10
K20

ISO8



Boring straight turning tool.

ISO 8

Size

Dimensions

Weight

Tip



08

Ød

n

L

r

Dmin.

0,050

P

P10
P20
P30

10

10

4

150

0,4

18

0,090

12

12

5

180

0,4

21

0,160

16

16

6

210

0,4

27

0,320

20

20

8

250

0,4

34

0,600

25

25

10

300

0,8

43

1,150

32

32

12

355

0,8

52

2,200

P

P10
P20
P30

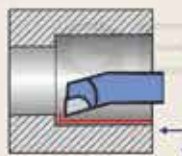
M

M20*

K

K10
K20

ISO9



Internal shaper turning tool.

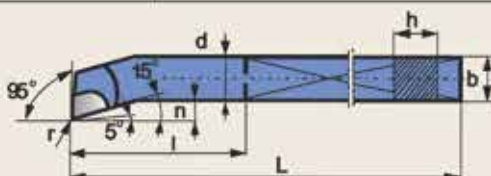
ISO 9

Size

Dimensions

Weight

Tip



0808

h

b

d

n

L

l

r

D min.

0,060

P

P10
P20
P30

1010

10

10

10

4

150

50

0,2

18

0,110

1212

12

12

12

5

180

63

0,2

21

0,180

1616

16

16

16

6

210

80

0,2

27

0,360

2020

20

20

20

8

250

100

0,4

34

0,710

2525

25

25

25

10

300

125

0,4

43

1,300

3232

32

32

32

12

355

160

0,8

52

2,500

P

P10
P20
P30

M

M20*

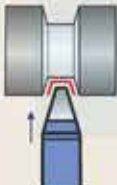
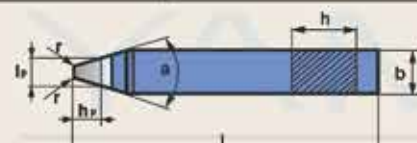
K

K10
K20



ISO10	Sharped straight turning tool.	ISO 10							
		Size	Dimensions				Weight	Tip	
			h	b	L	r			
		1610	16	10	110	0,2	0,130	P	P10 P20 P30
		2012	20	12	125	0,4	0,220	M	M20*
		2516	25	16	140	0,4	0,410	K	K10 K20
		3220	32	20	170	0,8	0,820		
		4025	40	25	200	0,8	1,440		

ISO13		Internal threading turning tool.	ISO 13 R/L		ISO13R- Right hand ISO13L- Left hand							
			Size	Dimensions						Weight	Tip	
				h	b	L	n	l	Dmin.			
	1010	10	10	150	5	50	22	0,110	P	P10 P20 P30		
	1212	12	12	180	6	63	24	0,190				
	1616	16	16	210	8	80	32	0,390				
	2020	20	20	250	10	100	40	0,730	M	M20*		
	2525	25	25	300	12	125	49	1,370	K	K10 K20		
	3232	32	32	355	14	160	65	2,640				

<div>NNPy</div>  <div>Key-slot turning tool: 34°;36°.</div>	NNPy		A = 11 Z = 8,5										
	Size	Dimensions							Weight	Tip			
	2516	25	16	125	(Z)	8,5	7	34°	1	0,180	P	P10 P20 P30	
	2516	25	16	125	(Z)	8,5	7	36°	1	0,180		M	M20°
	2516	25	16	125	(A)	11	8,7	34°	1	0,180	K		K10 K20
	2516	25	16	125	(A)	11	8,7	36°	1	0,180			



Tungsten Carbide Rotary Burrs



► Cross / Diamond Cut

Cylindrical



ITEM NO.	DIAMETER	LENGTH	SHANK	OVERALL
A0313M03	3mm	13mm	3mm	43mm
A0413M03	4mm	13mm	3mm	43mm
A0513M03	5mm	13mm	3mm	43mm
A0613M03	6mm	13mm	3mm	53mm
A0616M06	6mm	16mm	6mm	56mm
A0820M06	8mm	20mm	6mm	60mm
A1020M06	10mm	20mm	6mm	60mm
A1225M06	12mm	25mm	6mm	69mm
A1425M06	14mm	25mm	6mm	69mm
A1625M06	16mm	25mm	6mm	69mm

Cylindrical End Cut



ITEM NO.	DIAMETER	LENGTH	SHANK	OVERALL
B0313M03	3mm	13mm	3mm	43mm
B0413M03	4mm	13mm	3mm	43mm
B0513M03	5mm	13mm	3mm	43mm
B0613M03	6mm	13mm	3mm	53mm
B0616M06	6mm	16mm	6mm	56mm
B0820M06	8mm	20mm	6mm	60mm
B1020M06	10mm	20mm	6mm	60mm
B1225M06	12mm	25mm	6mm	69mm
B1425M06	14mm	25mm	6mm	69mm
B1625M06	16mm	25mm	6mm	69mm

Cylindrical Ball



ITEM NO.	DIAMETER	LENGTH	SHANK	OVERALL
C0313M03	3mm	13mm	3mm	43mm
C0413M03	4mm	13mm	3mm	43mm
C0513M03	5mm	13mm	3mm	43mm
C0613M03	6mm	13mm	3mm	56mm
C0616M06	6mm	16mm	6mm	56mm
C0820M06	8mm	20mm	6mm	60mm
C1020M06	10mm	20mm	6mm	60mm
C1225M06	12mm	25mm	6mm	69mm
C1425M06	14mm	25mm	6mm	69mm
C1625M06	16mm	25mm	6mm	69mm

Ball



ITEM NO.	DIAMETER	LENGTH	SHANK	OVERALL
D0302M03	3mm	13mm	3mm	43mm
D0403M03	4mm	13mm	3mm	43mm
D0504M03	5mm	13mm	3mm	43mm
D0605M03	6mm	13mm	3mm	53mm
D0605M06	6mm	16mm	6mm	56mm
D0807M06	8mm	20mm	6mm	60mm
D1009M06	10mm	20mm	6mm	60mm
D1210M06	12mm	25mm	6mm	69mm
D1614M06	14mm	25mm	6mm	69mm

Flame



ITEM NO.	DIAMETER	LENGTH	SHANK	OVERALL
H0307M03	3mm	7mm	3mm	37mm
H0413M03	4mm	13mm	3mm	43mm
H0513M03	5mm	13mm	3mm	43mm
H0613M03	6mm	13mm	3mm	43mm
H0618M06	6mm	18mm	6mm	65mm
H0820M06	8mm	20mm	6mm	65mm
H1025M06	10mm	25mm	6mm	69mm
H1232M06	12mm	32mm	6mm	69mm
H1636M06	14mm	36mm	6mm	69mm

Tree Pointed



ITEM NO.	DIAMETER	LENGTH	SHANK	OVERALL
G0307M03	3mm	7mm	3mm	37mm
G0313M03	3mm	13mm	3mm	43mm
G0413M03	4mm	13mm	3mm	43mm
G0513M03	5mm	13mm	3mm	43mm
G0613M03	6mm	13mm	3mm	43mm
G0613M03	6mm	18mm	6mm	58mm
G0820M06	8mm	20mm	6mm	60mm
G1020M06	10mm	20mm	6mm	60mm
G1225M06	12mm	25mm	6mm	69mm
G1425M06	14mm	25mm	6mm	69mm
G1625M06	16mm	25mm	6mm	69mm



Tungsten Carbide Rotary Burrs

Oval



ITEM NO.	DIAMETER	LENGTH	SHANK	OVERALL
E0307M03	3mm	7mm	3mm	40mm
E0407M03	4mm	7mm	3mm	40mm
E0508M03	5mm	8mm	3mm	40mm
E0508M03	6mm	10mm	3mm	50mm
E0508M03	6mm	10mm	6mm	50mm
E0508M03	8mm	13mm	6mm	53mm
E1016M06	10mm	16mm	6mm	56mm
E1220M06	12mm	20mm	6mm	69mm
E1220M06	14mm	25mm	6mm	69mm
E1625M06	16mm	25mm	6mm	69mm

Pointed Cone



ITEM NO.	DIAMETER	LENGTH	SHANK	OVERALL
M0311M03	3mm	11mm	3mm	41mm
M0311M03	4mm	13mm	3mm	43mm
M0311M03	5mm	13mm	3mm	43mm
M0613M03	6mm	13mm	3mm	53mm
M0613M06	6mm	13mm	6mm	53mm
M0618M06	6mm	18mm	6mm	58mm
M0817M06	8mm	17mm	6mm	57mm
M1020M06	10mm	20mm	6mm	60mm
M1225M06	12mm	25mm	6mm	69mm
M1225M06	14mm	25mm	6mm	69mm
M1625M06	16mm	25mm	6mm	69mm

Cone Shape Radius



ITEM NO.	DIAMETER	LENGTH	SHANK	OVERALL
L0313M03	3mm	13mm	3mm	43mm
L0413M03	4mm	13mm	3mm	43mm
L0513M03	5mm	13mm	3mm	43mm
L0613M03	6mm	13mm	3mm	53mm
L0616M06	6mm	16mm	6mm	56mm
L0822M06	8mm	22mm	6mm	62mm
L1025M06	10mm	25mm	6mm	65mm
L1228M06	12mm	28mm	6mm	68mm
L1633M06	16mm	33mm	6mm	73mm

Round Nose Tree



ITEM NO.	DIAMETER	LENGTH	SHANK	OVERALL
F0307M03	3mm	7mm	3mm	38mm
F0313M03	3mm	13mm	3mm	50mm
F0413M03	4mm	13mm	3mm	50mm
F0513M03	5mm	13mm	3mm	53mm
F0613M03	6mm	13mm	3mm	53mm
F0618M06	6mm	18mm	6mm	58mm
F0820M06	8mm	20mm	6mm	60mm
F1020M06	10mm	20mm	6mm	60mm
F1225M06	12mm	25mm	6mm	69mm
F1425M06	14mm	25mm	6mm	69mm
F1625M06	16mm	25mm	6mm	69mm

60° Cone



ITEM NO.	DIAMETER	LENGTH	SHANK	OVERALL
J0605M06	6mm	5mm	6mm	50mm
J0807M06	8mm	7mm	6mm	52mm
J1008M06	10mm	9mm	6mm	53mm
J1210M06	12mm	10mm	6mm	55mm
J1613M06	16mm	14mm	6mm	56mm

90° Cone



ITEM NO.	DIAMETER	LENGTH	SHANK	OVERALL
K0603M06	6mm	3mm	6mm	50mm
K0804M06	8mm	4mm	6mm	50mm
K1005M06	10mm	5mm	6mm	50mm
K1206M06	12mm	6mm	6mm	51mm
K1608M06	16mm	8mm	6mm	53mm

Inverted Conical



ITEM NO.	DIAMETER	LENGTH	SHANK	OVERALL
N0307M03	3mm	7mm	3mm	37mm
N0607M03	6mm	7mm	3mm	37mm
N1010M06	10mm	10mm	6mm	50mm
N1213M06	12mm	13mm	6mm	53mm
N1616M06	16mm	16mm	6mm	56mm
N1619M06	16mm	19mm	6mm	59mm



Solid Carbide Endmill

4/2 Flat, Ball, Corner Radius



Corner Radius

DIA	FL	OAL	SHANK
1	3	50	3 / 4
1.5	3	50	3 / 4
2	4	50	3 / 4
2.5	4	50	3 / 4
3	10	50	3 / 4
3.5	14	50	4
4	14	50	4
4.5	16	50	5
5	16	50	5
5.5	19	50	6
6	19	50	6
7	20	63	8
8	20	63	8

DIA	FL	OAL	SHANK
9	25	70	10
10	25	70	10
11	25	75	12
12	25	75	12
13	30	90	14
14	30	90	14
15	32	90	16
16	32	90	16
18	32	90	18
20	40	100	20
22	40	100	22
25	40	100	25

Available in inches too

Solid Carbide Long Endmill



DIA	FL	OAL	SHANK
3	25	75	3
3	40	100	3
4	25	75	4
4	40	100	4
5	25	75	5
5	40	100	5
6	25	75	6
6	40	100	6
6	75	150	6

DIA	FL	OAL	SHANK
8	40	100	8
8	75	150	8
8	75	200	8
10	40	100	10
10	75	150	10
10	75	200	10
12	40	100	12
12	75	150	12
12	75	200	12
16	75	150	16
16	75	200	16
20	75	150	20
20	75	200	20
25	75	150	25

Solid Carbide Endmill: Flat / Ball High Performance for 50-55 HRC Hardness Material



DIA	FL	OAL	SHANK
1	3	50	4
1.5	4	50	4
2	6	50	4
2.5	6	50	4
3	10	50	4
4	14	50	4
5	16	50	5
6	19	50	6
6	40	100	6
8	20	63	8
8	40	100	8
10	25	70	10
10	40	100	10
12	25	75	12
12	40	100	12

Solid Carbide Endmill: 3 Fluted High Heilx (For Alluminium)



DIA	FLUTE	TOTAL	SHANK
3	10	50	3
4	14	50	4
5	16	50	5
6	19	50	6
8	20	63	8
10	25	70	10
12	25	75	12

Solid Carbide Roughing Endmill:



DIA	FLUTE	TOTAL	SHANK
6	15	50	6
8	20	60	8
10	25	75	10
12	30	75	12
16	45	100	16



Solid Carbide Reamer



DIA	FL	OAL
3	25	60
4	25	60
5	25	60
6	25	60
7	30	75
8	30	75
10	30	75
12	30	75

Solid Carbide Centre Drill



PILOT DIA	BODY DIA	TOTAL L
1.25	3	35
1.6	4	50
2	5	50
2.5	6.3	60
3.15	8	60
4	10	65
5	12.5	70

Solid Carbide 2 Fluted Ball Nose Uncoated Endmill



DIA	FL	OAL
4	20	50
5	20	50
6	20	50
8	25	60

Solid Carbide Single Fluted Endmill



DIA	FL	OAL
3	6	38
4	12	50
5	14	50
6	16	50
8	20	60

Solid Carbide Drills



DIA	FL	OAL
0.8	12	34
0.9	12	34
1	12	34
1.1	18	40
1.2	18	40
1.3	18	40
1.4	18	40
1.5	18	40
1.6	18	40
1.8	18	40
2	24	49
2.1	30	57
2.2	30	57
2.3	30	57
2.4	30	57
2.5	30	57
2.6	35	65
2.7	35	65
2.8	35	65
2.9	35	65
3	35	65
3.1	35	65
3.2	35	65
3.3	35	65
3.4	35	65
3.5	35	65
3.6	35	65
3.7	35	65
3.8	35	65
4.0	35	65
4.1	40	75
4.2	40	75

DIA	FL	OAL
4.3	40	75
4.4	40	75
4.5	40	75
4.6	40	75
4.7	40	75
4.8	40	75
4.9	40	75
5.0	40	75
5.1	40	75
5.2	40	75
5.3	40	75
5.4	40	75
5.5	40	75
5.6	40	75
5.7	40	75
5.8	40	75
5.9	40	75
6.0	40	75
6.1	60	100
6.2	60	100
6.3	60	100
6.4	60	100
6.5	60	100
6.6	60	100
6.7	60	100
6.8	60	100
6.9	60	100
7	60	100
7.1	60	100
7.2	60	100
7.3	60	100
7.4	60	100

DIA	FL	OAL
7.5	60	100
7.6	60	100
7.7	60	100
7.8	60	100
7.9	60	100
8	60	110
8.1	60	110
8.2	60	110
8.3	60	110
8.4	60	110
8.5	60	110
8.6	60	110
8.7	60	110
8.8	60	110
8.9	60	110
9	60	110
9.5	60	110
10	65	110
10.2	65	110
10.5	65	110
10.8	65	110
11	65	110
11.5	65	110
12	65	110
12.5	60	110
13	60	110
14	60	110
15	60	110
16	60	110
18	60	110
20	60	110



HSS Endmill Cutter (M2 / M42)

2/4/6 Fluted Flat and Ball Nose



Dimension in (mm)

DIA	SHANK DIA	CUTTING LENGTH	TOTAL LENGTH
2	4	7	52
2.5	4	7	52
3	4	8	52
4	4	8	52
5	5	13	57
6	6	13	57
7	8	19	63
8	8	19	63
9	10	22	72
10	10	22	72
11	12	26	83
12	12	26	83
13	12	26	83
14	12	26	83
15	12	26	83
16	16	32	92
17	16	32	92
18	16	32	92
19	16	32	92
20	20	38	104
21	20	38	104
22	20	38	104
23	20	38	104
24	20	45	121
25	25	45	121

Available in Long and Extra Long Series

Dimension in (inch)

DIA	SHANK DIA	CUTTING LENGTH	TOTAL LENGTH
1/8"	1/4"	5/16"	2"
5/32"	1/4"	3/8"	2"
3/16"	1/4"	1/2"	2.1/4"
7/32"	1/4"	1/2"	2.1/4"
1/4"	1/4"	1/2"	2.1/4"
5/16"	3/8"	3/4"	2.1/2"
7/16"	1/2"	1"	3.1/4"
1/2"	1/2"	1"	3.1/4"
5/8"	5/8"	1.1/4"	3.1/4"
3/4"	5/8"	1.1/2"	3.1/2"
1"	3/4"	1.3/4"	3.3/4"

HSS Centre Drill (M2 / M35)



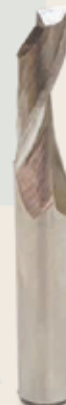
Dimension in (inch)

SIZE	PILOT DIA	BODY DIA	STANDARD LENGTH	LONG SERIES	EXTRA LONG SERIES
BS-1	3/64"	1/8"	1.1/2"	100MM	
BS-2	1/16"	3/16"	1.3/4"	100MM	
BS-3	3/32"	1/4"	2"	100MM	
BS-4	1/8"	5/16"	2.1/4"	100MM	150MM
BS-5	3/16"	7/16"	2.1/2"	100MM	150MM
BS-6	1/4"	5/8"	3"	100MM	150MM

Dimension in (mm)

2X5	2	5	42	100MM	
2.5X6.3	2.5	6.3	47	100MM	
3.15X8	3.15	8	52	100MM	
4X10	4	10	59	100MM	150MM
5X12.5	5	12.5	66	100MM	150MM
4X14B	4	14	70		

HSS Single Fluted Endmill: M-42 Cobalt



Dimension in (inch)

DIA	FLUTE	TOTAL LENGTH	SHANK
6	20	64	6
6	25	100	6
8	20	76	8
8	25	100	8
10	25	76	10
10	35	100	10

Tap Drill Combined (1/4" Hex Shank)



DIA
M3
M4
M5
M6
M8
M10



Hand & Short Machine Taps: HSS and Carbide

Hand Taps-
METRIC/INCHES:
Coarse and
fine pitch



Spiral Point (SPPT):
M2/HSS-CO



Spiral Fluted-HSS-CO:
METRIC/UNC/UNF/BSP/NPT



Roll Form Taps
(For Aluminium)



With Oil
Groove

Solid Carbide Taps



METRIC

HSS E Cobalt High Performance Drills

Jobber Series (HSS E)
Ground Finish (IS: 5101/DIN: 338)



Dia in mm	Flute Length	Overall Length	Dia in mm	Flute Length	Overall Length	Dia in mm	Flute Length	Overall Length
1	12	34	4.7	47	80	8.5	75	117
1.5	18	40	4.75 (3/16")	52	86	8.6	81	125
1.60 (1/16")	20	43	4.8	52	86	8.7	81	125
1.8	22	46	4.9	52	86	8.75 (11/32")	81	125
2.00 (5/64")	24	49	5	52	86	8.8	81	125
2.1	24	49	5.8	57	93	8.9	81	125
2.2	27	53	5.9	57	93	9	81	125
2.3	27	53	6.00 (15/64")	57	93	9.10 (23/64")	81	125
2.4	30	57	6.1	63	101	9.2	81	125
2.5	30	57	6.2	63	101	9.3	81	125
2.6	30	57	6.3	63	101	9.3	81	125
2.7	33	61	6.40 (1/4")	63	101	9.4	81	125
2.78 (7/64")	33	61	6.5	63	101	9.5	81	125
2.8	33	61	6.6	63	101	9.60 (3/8")	87	133
2.9	33	61	6.7	63	101	9.7	87	133
3	33	61	6.75 (17/64")	69	109	9.8	87	133
3.1	36	65	6.8	69	109	9.9	87	133
3.20 (1/8")	36	65	6.9	69	109	10.00 (25/64")	87	133
3.3	36	65	7	69	109	10.2	87	133
3.4	39	70	7.1	69	109	10.25 (13/32")	87	133
3.5	39	70	7.20 (9/32")	69	109	10.5	87	133
3.60 (9/64")	39	70	7.3	69	109	10.8	94	142
3.7	39	70	7.4	69	109	11	94	142
3.8	43	75	7.5	69	109	11.10 (7/16")	94	142
3.9	43	75	7.60 (19/64")	75	117	11.50 (29/64")	94	142
4.00 (5/32")	43	75	7.7	75	117	12	101	151
4.1	43	75	7.8	75	117	12.5	101	151
4.2	43	75	7.9	75	117	12.70 (1/2")	101	151
4.3	47	80	8.00 (5/16")	75	117	13	101	151
4.37 (11/64")	47	80	8.1	75	117			
4.4	47	80	8.2	75	117			
4.5	47	80	8.3	75	117			
4.6	47	80	8.40 (21/64")	75	117			



Supercut Rotabor (HSS Broach Cutter)



Available Model

SR-HSS5012 : Ø 12mm x 50mmL
SR-HSS5013 : Ø 13mm x 50mmL
SR-HSS5014 : Ø 14mm x 50mmL
SR-HSS5015 : Ø 15mm x 50mmL
SR-HSS5016 : Ø 16mm x 50mmL
SR-HSS5017 : Ø 17mm x 50mmL
SR-HSS5018 : Ø 18mm x 50mmL
SR-HSS5019 : Ø 19mm x 50mmL
SR-HSS5020 : Ø 20mm x 50mmL
SR-HSS5021 : Ø 21mm x 50mmL
SR-HSS5022 : Ø 22mm x 50mmL
SR-HSS5023 : Ø 23mm x 50mmL
SR-HSS5024 : Ø 24mm x 50mmL
SR-HSS5025 : Ø 25mm x 50mmL
SR-HSS5026 : Ø 26mm x 50mmL
SR-HSS5027 : Ø 27mm x 50mmL
SR-HSS5028 : Ø 28mm x 50mmL
SR-HSS5029 : Ø 29mm x 50mmL
SR-HSS5030 : Ø 30mm x 50mmL
SR-HSS5031 : Ø 31mm x 50mmL
SR-HSS5032 : Ø 32mm x 50mmL
SR-HSS5033 : Ø 33mm x 50mmL
SR-HSS5034 : Ø 34mm x 50mmL
SR-HSS5035 : Ø 35mm x 50mmL
SR-HSS5036 : Ø 36mm x 50mmL
SR-HSS5038 : Ø 38mm x 50mmL
SR-HSS5040 : Ø 40mm x 50mmL
SR-HSS5042 : Ø 42mm x 50mmL
SR-HSS5044 : Ø 44mm x 50mmL
SR-HSS5045 : Ø 45mm x 50mmL
SR-HSS5046 : Ø 46mm x 50mmL
SR-HSS5048 : Ø 48mm x 50mmL
SR-HSS5050 : Ø 50mm x 50mmL
SR-HSS5055 : Ø 55mm x 50mmL
SR-HSS5060 : Ø 60mm x 50mmL
SR-HSS5065 : Ø 65mm x 50mmL
SR-HSS5070 : Ø 70mm x 50mmL
SR-HSS5075 : Ø 75mm x 50mmL

Cutter Available upto 150mm Dia



Supercut Rotabor (TCT Broach Cutter)



Available Model

SR-TCT5012 : Ø 12mm x 50mmL
SR-TCT5013 : Ø 13mm x 50mmL
SR-TCT5014 : Ø 14mm x 50mmL
SR-TCT5015 : Ø 15mm x 50mmL
SR-TCT5016 : Ø 16mm x 50mmL
SR-TCT5017 : Ø 17mm x 50mmL
SR-TCT5018 : Ø 18mm x 50mmL
SR-TCT5019 : Ø 19mm x 50mmL
SR-TCT5020 : Ø 20mm x 50mmL
SR-TCT5021 : Ø 21mm x 50mmL
SR-TCT5022 : Ø 22mm x 50mmL
SR-TCT5023 : Ø 23mm x 50mmL
SR-TCT5024 : Ø 24mm x 50mmL
SR-TCT5025 : Ø 25mm x 50mmL
SR-TCT5026 : Ø 26mm x 50mmL
SR-TCT5027 : Ø 27mm x 50mmL
SR-TCT5028 : Ø 28mm x 50mmL
SR-TCT5029 : Ø 29mm x 50mmL
SR-TCT5030 : Ø 30mm x 50mmL
SR-TCT5031 : Ø 31mm x 50mmL
SR-TCT5032 : Ø 32mm x 50mmL
SR-TCT5033 : Ø 33mm x 50mmL
SR-TCT5034 : Ø 34mm x 50mmL
SR-TCT5035 : Ø 35mm x 50mmL
SR-TCT5036 : Ø 36mm x 50mmL
SR-TCT5038 : Ø 38mm x 50mmL
SR-TCT5040 : Ø 40mm x 50mmL
SR-TCT5042 : Ø 42mm x 50mmL
SR-TCT5044 : Ø 44mm x 50mmL
SR-TCT5045 : Ø 45mm x 50mmL
SR-TCT5046 : Ø 46mm x 50mmL
SR-TCT5048 : Ø 48mm x 50mmL
SR-TCT5050 : Ø 50mm x 50mmL
SR-TCT5055 : Ø 55mm x 50mmL
SR-TCT5060 : Ø 60mm x 50mmL
SR-TCT5065 : Ø 65mm x 50mmL
SR-TCT5070 : Ø 70mm x 50mmL
SR-TCT5075 : Ø 75mm x 50mmL

Cutter Available upto 150mm Dia



Annular Core Cutter Accessories

One Touch Shank

Extension weldon
Adapters



Accessories for
Magnetic Drills



Adaptor
MT-3 (14-60 mm)



Conversion Shank
Weldon to One Touch



Counter Sink (3 Fluted) 90° Straight Shank



DIA	SHANK DIA	TOTAL LENGTH
8	6	50
10	6	50
12	8	56
16	10	60
20	10	65
25	10	70
31	12	70
40	16	80

HSS Counter Bore (Parallel Shank)



SIZE	PILOT DIA	CUTTER DIA	SHANK DIA	LENGTH
5	5.2	8.9	6	80
6	6.2	10.4	8	80
8	8.2	13.4	10	100
10	10.3	16.8	12	100
12	12.3	18.8	12	100

Shank Type Radius Cutter



RADIUS	DIA	SHANK DIA	TOTAL LENGTH
R-2	10	10	60
R-3	12	12	60
R-4	14	12	65
R-5	16	12	65
R-6	20	16	70
R-8	24	20	80
R-10	28	25	85

Step Drill



Straight / Spiral

SIZE
4-12mm
4-22mm
4-32mm
6-40mm
6-55mm
6-60mm
3pcs Set 4-12, 4-20, 4-32

Authorised Distributor



ER Collets

Model	d1 I7	D	D1	D2	L	L1	L2	L3	Collapsible Capacity
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	18.0	3.8	2.5	2.0	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	1.0-13.0	20	21	17.4	31.5	6.36	4.8	2.8	1.0
ER25	1.0-16.0	25	23	22.0	34.0	6.66	5.0	3.1	1.0
ER32	1.0-20.0	32	33	29.2	40.0	7.17	5.5	3.6	1.0
ER40	2.0-32.0	25	26	22.0	34.0	6.66	5.0	3.1	1.0



ER Tap Collets



Model	D	D3	D4	L	L1	L3	L4	Capacity
ER16G	16.74	16	13.8	27.5	20.8	4.0	6.26	M3-M10
ER20G	20.74	20	17.4	31.5	23.9	4.8	6.36	M3-M17
ER25G	25.74	25	22	34	25.9	5.0	6.66	M3-M22
ER32G	32.74	32	29.2	40	31.8	5.5	7.16	M3-M27

SDC Collets



Model	Range	L	L
SDC 6	3-6 MM	36	9.6
SDC 8	3-8 MM	45	15
SDC 12	4-12 MM	60	22

Oil Seal Collets



Model	D	D1	L	L1	Range
ER25	25.00	26	34	6.7	3-16 MM
ER32	32.00	33	40	7.2	3-20 MM

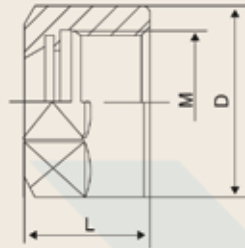
Straight Collets For PowerMills Chuck



Size	Range	D	D2	L
C-20	3-16 MM	20	25	52
C-32	6-25 MM	32	37	73

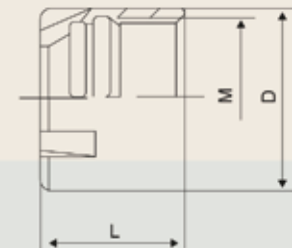


A Type (HEX) Nuts



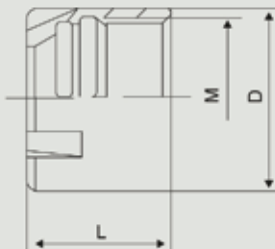
MODEL	L	D	M
ER8A	11	14	
ER11A	11.3	19	M14 X 0.75P
ER16A	17.5	28	M22 X 1.5P
ER20A	19	34	M25 X 1.5P

ER - UM Nuts



MODEL	L	D	M
ER25UM	20	42	M32 X 1.5P
ER32UM	22.5	50	M40 X 1.5P
ER40UM	25.5	63	M50 X 1.5P

ER - M Nuts



MODEL	L	D	M
ER8M	10	12	10 X 0.75P
ER11M	12	16	M13 X 0.75P
ER16M	18	22	M19 X 1.0P
ER20M	19	28	M24 X 1.0P

ER (A / HEX) - SPANNERS



MODEL OF SPANNERS	TYPE OF NUTS
ER8A	ER8A
ER11A	ER11A
ER16A	ER16A
ER20A	ER20A

ER (M) - Spanners



MODEL OF SPANNERS	TYPE OF NUTS
ER8M	ER8M
ER11M	ER11M
ER16M	ER16M
ER20M	ER20M

C - SPANNERS FOR KEYLESS CHUCKS



MODEL OF SPANNERS	TYPE OF CHUCK
C-ER25	1/2" Light
C-ER32	1/2" Heavy
C-ER40	5/8", 3/4", Heavy
APU-13	APU-13

ER (UM) - SPANNERS



MODEL OF SPANNERS	TYPE OF NUTS
ER25	ER25UM
ER32	ER32UM
ER40	ER40UM

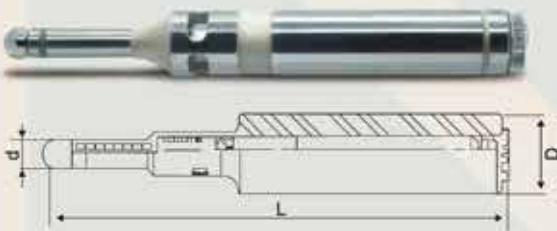


Pull Studs - Regular / Through Coolant



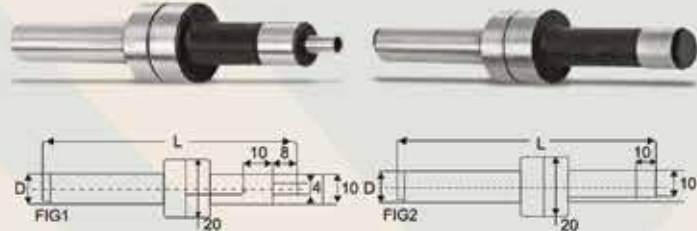
MODEL	L	L1	L2	D	D1	D2	H	H1	M	theta
BT30 (theta)	43	23	18	12.5	7	11	5	2.5	M12	45 60 90
BT40 (theta)	60	35	28	17	100	15	6	3	M16	45 60 90
BT50 (theta)	85	45	35	25	17	23	10	5	M24	45 60 90

Edge Finders with Sound & Light



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

Mechanical Edge Finders (Steel/Ceramic)



MODEL	D(mm)	L1
4MM	4	90
10MM	10	83

Z - Axis Scale Zero Setters with Magnetic base



MODEL	Gross Attitude
DIAL TYPE (0.01MM)	50MM
DIGITAL (0.001 MM) IP 65 SERIES	50MM

Key Type Drill Chuck



Size	Range	Taper
1/2" (13MM)	1-13MM	JT-6
3/4" (20MM)	3-20MM	JT-3

3D-Taster / 3D Edge Fider



AXIS	SHANK DIA	ACCURACY	STYLUS
X, Y, Z	20 MM	0.01MM	33MM L X 4 MM DIA

Keyless Drill Chuck



Model	Capacity	Taper	d	h	D	L	I
1/4" / 6MM	0.5-6MM	JT1	10	14.5	35	67	61
3/8" / 10MM	1-10MM	JT2	12	18.5	42	86	78
1/2" / 13MM LIGHT	1-13MM	JT6	17.17	21	44	86	76
1/2" / 13MM HEAVY	1-13MM	JT6	17.17	24	48	97	88
5/8" / 16MM	3-16MM	JT3	20.599	24	52	108	98
3/4" / 20MM	3-20MM	JT3	20.599	30.5	62	128	118

Tool Holder Devices



BT Series



HSK Series

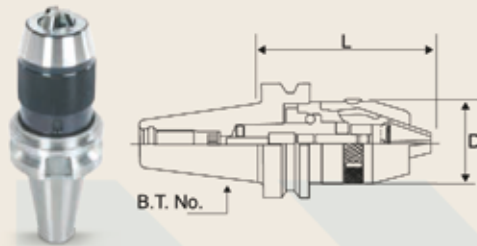


Universal Type
Extra heavy
duty

MODEL
BT-30 / 40 / 50
HSK - 50 / 63 / 100
UNIVERSAL TYPE (BT, SK, CAT, NT - 40, HSK 63)

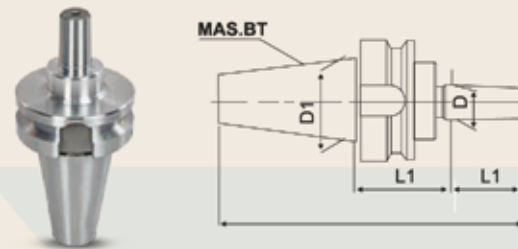


Integrated Keyless Drill Chuck



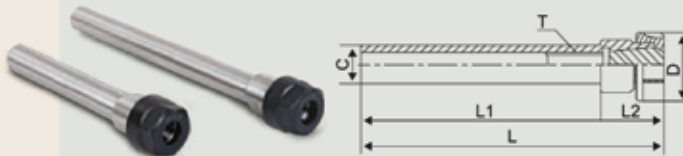
MODEL	Clamping range	D	L	
			Min	Max
BT30-APU13	1-13MM	51.5	94	105
BT40-APU13	1-13MM	51.5	98	109
BT40-APU16	1-16MM	58	115	130
BT50-APU13	1-13MM	51.5	98	109
BT50-APU16	1-16MM	58	115	130

BT Drill Chuck Adaptor



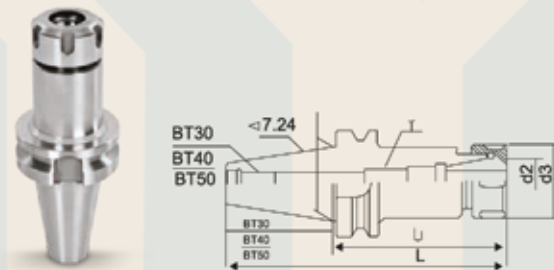
MODEL	L2	L	D	D1	M
BT40-JT6	22.225	132.6	14.199	44.45	M16

Cylindrical Collet Adaptor



MODEL	L1	C	D
C10-ER8 A/M-100	100	10	12
C10-ER11 A/M-100	100	10	19/16
C12-ER11 A/M-100	100	12	19/16
C12-ER16 A/M-100	100	12	28/22
C16-ER11 A/M-100	100	16	19/16
C16-ER16 A/M- 70/100/150	70/100/150	16	28/22
C20-ER16 A- 70/100/150	70/100/150	20	28
C20-ER20 A/M-70/100/150	70/100/150	20	34/28
C20-ER25UM-70/100	100	20	42
C20-ER32UM- 70/100	100	20	50
C25-ER20 A- 70/100	100	25	34
C25-ER25UM-70/100/150	70/100/150	25	42
C25-ER32UM-100	100	25	50
C32- ER16 A-100	100	32	28
C32-ER20 A-100	100	32	28
C32- ER25UM-100	100	32	42
C32-ER32UM-70/100/150	70/100/150	32	50
C40- ER16A-100	100		28
C40-ER20 A-100	100		34
C40-ER25UM-100	100		42
C40-ER32UM-100	100	40	50
C40-ER40UM-100/150	100/150	40	63

BT Series ER Collet Adaptor



MODEL	L1	D3	D1
BT30-ER11A-70/100	70/100	19	31.75
BT30-ER16A-70/100	70/100	28	31.75
BT30-ER20A-70/100	70/100	34	31.75
BT30-ER25UM-70/100	70/100	42	31.75
BT30-ER32UM-70/100	70/100	50	31.75
BT30-ER40-80/100	80/100	63	31.75
BT40-ER11A-70/100	70/100	19	44.45
BT40-ER16A-70/100/150	70/100/150	28	44.25
BT40-ER20A-70/100/150	70/100/150	34	44.45
BT40-ER25UM-70/100/150/200	70/100/150/200	42	44.45
BT40-ER32UM-70/100/150/200	70/100/150/200	50	44.45
BT40-ER40UM-80/100/150/200	80/100/150/200	63	44.45
BT50-ER25UM-100/150/200	100/150/200	42	69.85
BT50-ER32UM-100/150/200	100/150/200	50	69.85
BT50-ER40UM-100/150/200	100/150/200	63	69.85
BT50-ER50UM-100/150/200	100/150/200	73	80

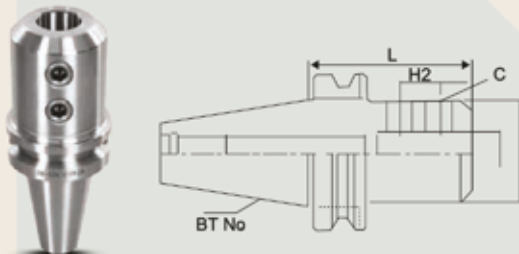


MT Series (TANG/Draw Bolt Type) - ER Collet Holder



SHANK	ER16	ER20	ER25	ER32	ER40
MT-2	✓	✓	✓		
MT-3	✓	✓	✓	✓	✓
MT-4				✓	✓
MT-5					✓

BT - Side Lock Adaptor



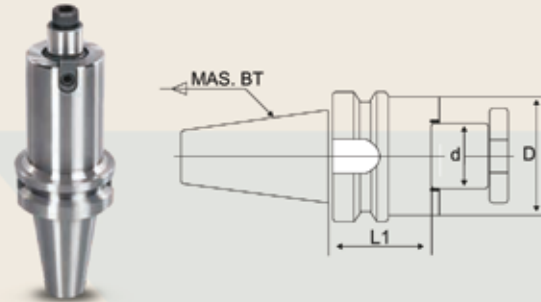
Model	L	C
BT30-SLA 16	65	50
BT30-SLA 20	70	52
BT30-SLA 25	90	65
BT40-SLA-10	60	45
BT40-SLA-12	65	45
BT40-SLA16	65	50
BT40-SLA 20	70	52
BT40-SLA 22	90	52
BT40-SLA 25	90	65
BT40-SLA 32	100	72
BT40-SLA 40	110	90
BT50-SLA 16	65	50
BT50-SLA 20	70	52
BT50-SLA 25	100	65
BT50-SLA 32	105	72
BT50-SLA 40	110	90
BT50-SLA 50	120	100

Bv Power Milling Chucks



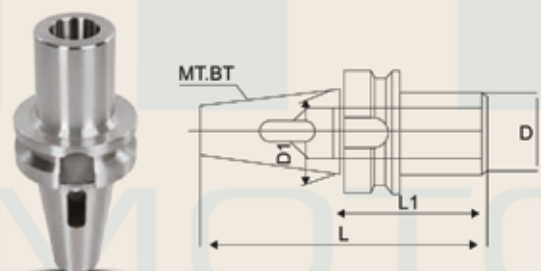
Model	L	L1
BT30 C-20-90L	110	90
BT40 C-20-90L	120	90
BT40 C-32-100L	135	100
BT50 C-32-110L	135	110

BT - Face / Shell Mill Adaptor



MODEL	L1	D	d
BT30-FMB22-45	45	50	22
BT30-FMB27-45	45	60	27
BT30-FMB32-60	60	78	32
BT40-FMB16-60/100/150	60/ 100/150	34	16
BT40-FMB22-60/ 100/ 150/ 200/ 250/ 300	60/ 100/150/ 200/ 250/300	48	22
BT40-FMB27-60/ 100/150/ 200/ 250/ 300	60/ 100/ 150/ 200/ 250/300	60	27
BT40-FMB32-60/100/150	60/100/150	78	32
BT40-FMB40-60/100	60/100	89	40
BT50-FMB22-100/ 150/ 200/ 250/ 300/ 400	100/ 150/200/ 250/ 300/ 400	50	22
BT50-FMB27-100/150/ 200/ 250/ 300	100/ 150/200/ 250/ 300	60	27
BT50-FMB32-100/150	100/150	78	32
BT50-FMB40-100/150	100/150	98	40
BT50-FMB60-75	75	-	-

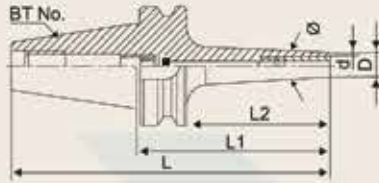
BT - MT (Reduction Socket) Adaptor



MODEL	L	D	D1
BT30-MT1-50	95	25	25
BT30-MT2-60	108.4	32	31.75
BT30-MT3-70	128.4	40	31.75
BT40-MT1- 50	110.4	25	25
BT40-MT2-60	125.4	32	44.45
BT40-MT3-70	135.4	40	44.45
BT40-MT4-90	155.4	48	44.45
BT50-MT2-45	146.8	25	69.85
BT50-MT3-65	166.8	40	69.85
BT50-MT4-85	186.8	48	69.85
BT50-MT5-105	210	64	70



BT - SDC Adaptor



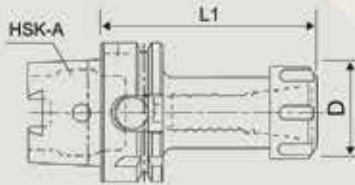
Model	L	L1	L2	θ	D	d
BT40-SDC06-120	165.4	120	73	6°	14	3-6
BT40-SDC08-120	165.4	120	73	6°	22	3-8
BT40-SDC12-120	165.4	120	73	-	34	3-12

SDC Cylindrical Adaptor



Model	D	L
C 16 - SDC 6 - 150 L	16	150
C 20 - SDC 6 - 200 L	20	200
C 16 - SDC 8 - 150 L	16	150
C 20 - SDC 8 - 200 L	20	200

HSK Series Adaptor



Model	D	L1
HSK 63A - ER25	42	80
HSK 63A - ER32	50	100
HSK 63A - ER40	63	100
HSK 63A - FMB22	48	50
HSK 63A - FMB27	58	60
HSK 63A - SLA25	90	65
HSK 63A - SLA32	100	72

R-8 (M1 TR) Adaptors



R-8 (M1 TR)
COLLETS



ER SERIES
ADAPTORS



FACE MILL
ADAPTORS



DRILL CHUCK
ADAPTORS

Model	
THREAD PITCH : 12 X 1.5 / M 12 / 7/16 UNF	
R-8 (M1 TR) COLLETS	3MM - 20 MM
ER SERIES ADAPTORS	ER 16, ER20, ER25, ER32, ER40
FACE MILL ADAPTORS	22, 27, 32, 40
DRILL CHUCK ADAPTORS	JT-6

ISO (NT) Series Adaptors



INTEGRATED KEYLESS
ADAPTOR



ER SERIES
ADAPTORS



FACE MILL
ADAPTORS



JT-6
ADAPTOR



MT REDUCTION
ADAPTORS



SIDE LOCK
ADAPTORS

Model	
ISO (NT) 30 / 40 / 50	
ER SERIES ADAPTORS	ER 16, ER20, ER25, ER32, ER40
FACE MILL ADAPTORS	22, 27, 32, 40
MT REDUCTION ADAPTORS	MT-1, 2, 3
SIDE LOCK ADAPTORS	SLA- 20, 25, 32, 40
INTEGRATED KEYLESS ADAPTOR	APU-13 / 16
JT-6 ADAPTOR	JT-6



BBT-40 Adapters (High precision 25,000 RPM G 2.5 balanced)



MODEL	Type
BBT40	ER-16/20/25/32/40
BBT40	FMB-22/27/32
BBT40	SLA-25/32

Tapping Collets, with Auto Clutch



MODEL	SIZE	ISO SERIES		DIN	
		SHANK	SQAURE	SHANK	SQAURE
GT12: (d=19, D=38, L=54) GT24: (d=30, D=58, L=79.5) Range 3-16 mm Range 5-30 mm	M3	3.15	2.5	3.5	2.5
	M4	4	3	4.5	3.4
	M5	5	4	6	4.9
	M6	6.3	5	6	4.9
	M8	8	6.3	8	6.3
	M10	10	8	10	8
	M12	9	7.1		
	M14	11.2	9		
	M16	12.5	10		
	M18	14	11.2		
	M20	14	11.2		
	M22	16	12.5		
	M24	18	14		
	M27	20	16		
	M30	20	16		

Tapping Collets, Reducer



MODEL
GT24 to GT 12

Tapping collet Spanners



MODEL
GT-12 / GT-24

Quick Change Tapping Adaptor: Cylindrical



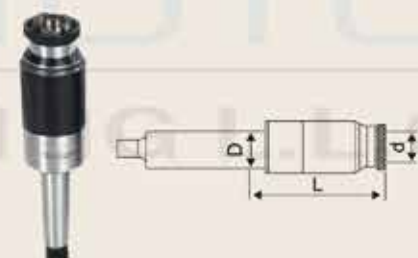
MODEL	Range	D	d	L
Q25-GT12	M3-M16	Ø25	Ø19	110
Q32-GT12	M3-M16	Ø32	Ø19	110
Q40-GT12	M3-M16	Ø40	Ø19	110
Q40-GT24	M5-M30	Ø40	Ø30	130

Quick Change Tapping Adaptor: BT Series



MODEL	Range	D	d	L
BT 30 GT12	M3-M16	31.75	19	110
BT40-GT12	M3-M16	44.45	19	110
BT40-GT24	M5-M30	44.45	30	130
BT50-GT12	M3-M16	69.85	19	110
BT50-GT24	M5-M30	69.85	30	130

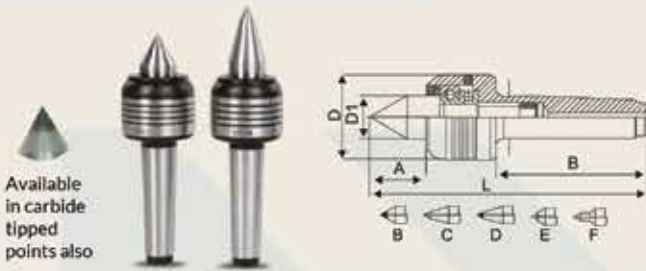
Quick Change Tapping Adaptor: MT Series



MODEL	Range	D	d	L
MT2-GT12	M3-M16	Ø17.780	Ø19	110
MT3-GT12	M3-M16	Ø23.825	Ø19	110
MT3-GT24	M5-M30	Ø23.825	Ø30	130
MT4-GT24	M5-M30	Ø31.267	Ø30	130

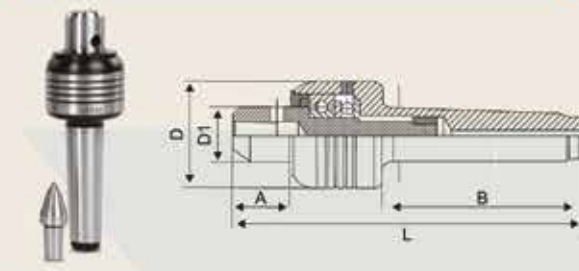


CNC Live Centers (Stub or extended point)



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

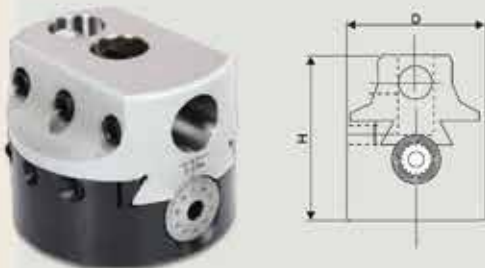
CNC Interchangeable Points Live Centers



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

Supplied with one Spare Point + One Drift

F1 Rough Boring Heads



MODEL	D	H	MAX OFFSET	BORING BARDIA	MIN RADUATION	DIAL OF BORING
F1-12mm	50MM	63	16mm	12mm	0.01mm	10-125mm
F1-18	75MM	80	25mm	18mm	0.01mm	12-225mm
F1-25mm	100MM	88	41mm	25mm	0.01mm	15-630mm

F1 Rough Boring Heads Shanks



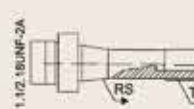
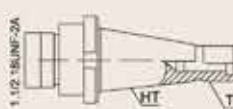
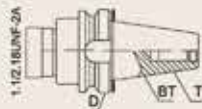
BT-30/BT-40/BT-50



ISO-30/ISO-40



R8 (MNTR)



MODEL	T	L	THREAD
BT30/BT40/BT50	M16-2.0P	102	1.1/2"X18
NT (ISO)30	M12-1.75P	102	1.1/2"X18
NT (ISO)40	M16-2.0P	135	1.1/2"X18
R8	M12/12 X 1.5/ 7/16-20UNF	132.5	1.1/2"X18



Fine Boring Head Set BT40-Range 8-280mm (0.01mm)



Spare Shank for Fine Boring Head: BT 50 Taper



Model	Boring Range	Min Graduation	Max Offset	Weight
NBH2084	8-280MM	0.01MM /	28.0MM	3.0

Boring Cutter	Boring Range	DM	Insert	Bolt	Wrench	Weight
BJ2208-32	8-11	32	TBGT060102L	SB-1STR-M2	T6	0.095
BJ2010-40	10-13	40				0.095
BJ2012-53	12-17	53	TBGH090202L	SB-2STR-M2.5	T8	0.12
BJ2016-68	16-21	68				0.16
BJ2020-83	20-130	83	TPGH110302L	SB-3STR-M3	T8	0.22
BJ2025-96	25-135	96				0.34
BJ2030-115	30-140	115				0.54
BJ20-20	120-280	84 + BT bar				0.23

Fine Boring Head Set BT40- Range 8-204mm (0.005mm)



BORING CUTTER	BORING RANGE	DM	INSERT	SCREW	WRENCH
SBJ 1608	8-38.	32	TBGH 0601 L	M2	T-6
SBJ 1612	12-42.	53	TBGH0902 L	M2.5	T-8
SBJ 1620	20-50.	83	TBGH1103 L	M3	T-10
SBJ 1645	45-75	90	TBGH1103 L	M3	T-10
NO.1	74-103	-	TBGH1103 L	M2	T-6
NO.2	99-128	-	TBGH1103 L	M2	T-6
NO.3	124-153	-	TBGH1103 L	M2	T-6
NO.4	147-176	-	TBGH1103 L	M2	T-6
NO.5	172-203	-	TBGH1103 L	M2	T-6

Model	Accuracy	Boring Range	Adjustment Precision	Adjust the Stroke
NBH2084S	≤ 0.005MM	Ø8-Ø280MM	Ø0.005MM	Ø30.00MM

Spare Shank for Fine Boring Head: BT50 Taper





Clamping Kits



Model	Table Slot	Stud Sizes
M10	12	10-1.5P
M12	14	12-1.75P
M14	16	14-2.0P
M16	18	16-2.0P

Kit Includes	
24 PC: STUDS	
6 PC :T-NUTS	
4 PC : COUPLING NUTS	
6 PC : FLANGE NUTS	
6 PC : STEP CLAMPS	

CNC Tooling Trolleys



Spare Cups

MODEL	
BT40 / BT50 / HSK63	35 SLOTS

Lock Down Machine Vices



Jaw Width	Max Open	Jaw Height	Weight
6"	160MM	45	34KG
6"	200MM	50	46KG
6" Swiwe Base	160MM	45	37KG
6" Swiwe Base	200MM	50	51KG

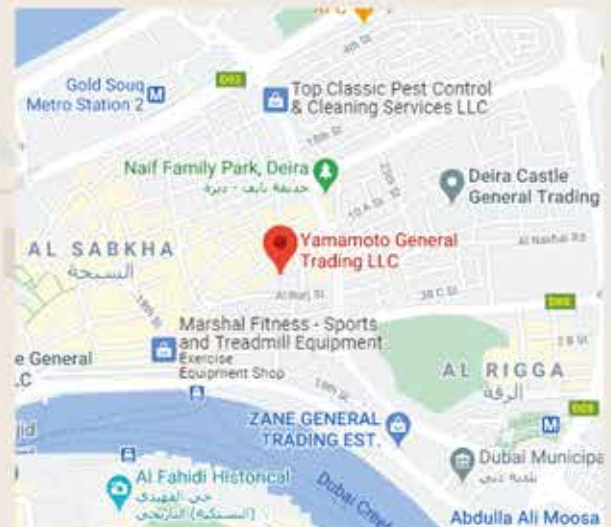
6" Swiwe |Base

Hydraulic Vice



Jaw Width	Opening	H	Max Clamp Force	Weight
6"	200MM	48	4500 KGF	45KG
6"	300MM	52	4500 KGF	60 KG

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