



PRICE LIST

MT-1115

Hand & Power Hacksaws

Metal Cutting Carbon Bandsaws

HSS Bi-Metal Bandsaws

HSS Toolbits

HSS Drills

HSS Endmills

HSS Reamers

HSS Core Drills

HSS & TCT Annular Cutters

HSS Taps

Carbide Tipped Tools

Tungsten Carbide Rotary Burrs

Solid Carbide Drills

Solid Carbide End Mills



Terms & Conditions

1. All prices are inclusive of excise duty, ED & SH cess (Except Masonry Drills, Low Alloy Saws & CTT) But exclusive of Sales Tax & other local government levies.
2. Delivery F.O.R. Destination.
3. This price list is effective from 03-01-2013 and superceeds our previous Price List, Prices are subject to revision without any notice.
4. For unlisted intermediate sizes, the Price of next listed higher size in inch or mm will apply
5. We also manufacture special products as per your requirement.
6. Items marked * are ex-stock Items. All other items required in minimum order value of Rs. 10,000/- net or MOQ as per size whichever is higher.
7. If coating (TiN, TiCN, TiAlN) required while ordering will be charged extra if not including in price list. Minimum Order value should be Rs. 10,000 in each size or minimum order qty. as mentioned.

Jobber, Stub & Long Series Drills : All Sizes upto Dia 13.00 mm to be ordered. In multiple of 10 Nos.

Centre Drills : Upto 1/2" (12.50 mm) to be ordered in multiple of 10 Nos.

Hand Hacksaws : To be ordered in multiple of 100 Nos.

Power Hacksaws : Up to 18" to be ordered in multiple of 10 Nos. Above 20" to be ordered in multiple of 5 Nos.

Tool Bits : Upto 1/2" (12.50 mm) to be ordered in multiple of 10 Nos.

Parallel Shank End Mills : Upto 1/2" (12.50 mm) to be ordered in multiple of 10 Nos.

DESCRIPTION	PAGE NO.
SAWS	1 - 2
HAND & POWER HACKSAW BLADES	
METAL CUTTING BANDSAW & BIMETAL BANDSAW BLADES	
HSS TOOLBIT BLANKS	3 - 4
HSS TOOLBIT BLANKS,HSS FLAT (RECTANGULAR) & PARTING TOOLBITS	
HSS DRILLS	5 - 14
HSS PARALLEL SHANK JOBBER SERIES	
DRILL SET & HSS PARALLEL SHANK STUB SERIES, LONG & EXTRA LONG SERIES	
CENTRE DRILLS, HSS TAPER SHANK DRILLS, LONG & EXTRA LONG SERIES	
MASONRY DRILLS	
HSS ENDMILLS & REAMERS	15 - 17
HSS PARALLEL SHANK ENDMILLS, SLOT DRILLS, LONG SERIES	
ROUGHING ENDMILLS M42 & ANNULAR CUTTER	
HSS REAMERS & TAPER PIN REAMERS (TAPER 1 IN 50) & (TAPER 1 IN 48)	
CORE DRILLS	18 - 18
HIGH SPEED STEEL TAPER SHANK CORE DRILLS	
HSS & TCT ANNULAR CUTTERS	19 - 20
HSS & TCT ANNULAR CUTTER	
HSS TAPS	21 - 27
HSS TAPS COARSE PITCH & FINE PITCH	
HSS HAND TAPS - BSW,BSF,UNC,UNF,BSCy, BA & PIPE TAPS	
HSS NIB TAPS & UN TAPS	
HSS GROUND THREAD HAND TAPS - COARSE PITCH - HELICOIL	
TUNGSTEN CARBIDE TIPPED TOOLS	28 - 34
STRAIGHT ROUND & GROOVING TOOLS, STRAIGHT THREADING TOOLS, INTERNAL & EXTERNAL THREADING TOOLS, THREADING TOOLS WITH "V" PROFILE	
TUNGSTEN CARBIDE ROTARY BURRS	35 - 37
CONICAL,CYLINDRICAL RADIUS END, CYLINDRICAL FLAME,CONE,OVAL,RIM,BALL, TREE POINTED END,TREE RADIUS END, INVERTED CONE,SET OF FIVE PIECES	
SOLID CARBIDE DRILLS & ENDMILLS (MIRANDA MAXX)	38 - 40
STRAIGHT SHANK SOLID CARBIDE DRILLS (JOBBER & HIGH PERFORMANCE DRILLS)	
2/4 FLUTE CENTRE CUTTING TiAIN COATED, BALL NOSE ENDMILLS,	
LONG /EXTRA LONG LENGTH 4 FLUTE CENTRE CUTTING TiAIN COATED	
SUGGESTED SPEED AND FEED DATA DOR SOLID CARBIDE ENDMILLS & DRILLS	41



SAWS



HAND HACKSAW BLADES

NOMINAL SIZE (Length X Width X Thickness)		HSS - ALL HARD		HSS - BIMETAL		LOW ALLOY
Inches	Millimeters	Teeth Per Inch (TPI)	HSS Regular Rs. / Piece	Teeth Per Inch (TPI)	HSS BIMETAL Rs./Piece	Rs./Piece
12 x ½ x 0.025 (23 G)	300 x 12.5 x 0.63	14* 18* 24* 32	73.5	14 18* 24* 32	64	7.50

POWER HACKSAW BLADES

NOMINAL SIZE (Length X Width X Thickness)		HSS - ALL HARD		HSS - BIMETAL		LOW ALLOY
Inches	Millimeters	Teeth Per Inch (TPI)	HSS Regular Rs. / Piece	Teeth Per Inch (TPI)	HSS BIMETAL Rs./Piece	Rs./Piece
12 x 1 x 0.050 (18 G)	300 x 25 x 1.25	10* 14	336	10 14	258	34
14 x 1 x 0.050 (18 G)	350 x 25 x 1.25	6 10* 14*	378	6 10* 14	293	41
16 x 1 x 0.050 (18 G)	400 x 25 x 1.25	10 14	499	10 14	403	47
17 x 1 x 0.050 (18 G)	425 x 25 x 1.25	10 14	562	10 14	438	-
18 x 1 x 0.050 (18 G)	450 x 25 x 1.25	10* 14	570	10 14	448	59
14 x 1¼ x 0.062 (16 G)	350 x 32 x 1.60	6* 10*	643	6* 10	491	57
16 x 1¼ x 0.062 (16 G)	400 x 32 x 1.60	6* 10*	741	6* 10	561	66
17 x 1¼ x 0.062 (16 G)	425 x 32 x 1.60	6 10	799	6 10	634	-
18 x 1¼ x 0.062 (16 G)	450 x 32 x 1.60	6* 10*	824	6 10	643	78
18 x 1¼ x 0.080 (14 G)	450 x 32 x 2.00	4 6 10	1026	-	-	-
18 x 1½ x 0.062 (16 G)	450 x 40 x 1.60	6* 10*	1100	-	-	97
18 x 1½ x 0.080 (14 G)	450 x 40 x 2.00	4 6* 10	1216	6	930	-
20 x 1½ x 0.080 (14 G)	500 x 40 x 2.00	4 6 10	1351	6	1026	-
21 x 1½ x 0.080 (14 G)	525 x 40 x 2.00	4 6* 10	1427	4 6	1140	-
22 x 1½ x 0.080 (14 G)	550 x 40 x 2.00	4 6	1492	4 6	1239	-
24 x 1½ x 0.080 (14 G)	600 x 40 x 2.00	4 6* 10	1638	4 6	1337	-
24 x 1½ x 0.100 (12 G)	600 x 40 x 2.50	4 6	1943	-	-	-
28 x 1½ x 0.100 (12 G)	700 x 40 x 2.50	4 6	2343	-	-	-
30 x 1½ x 0.100 (12 G)	750 x 40 x 2.50	4 6	2608	-	-	-
24 x 2 x 0.080 (14 G)	600 x 50 x 2.00	4 6	2297	-	-	-
24 x 2 x 0.100 (12 G)	600 x 50 x 2.50	4 6	2718	4 6	2067	-
28 x 2 x 0.100 (12 G)	700 x 50 x 2.50	4 6	3167	4 6	2381	-
30 x 2 x 0.100 (12 G)	750 x 50 x 2.50	4 6	3531	4 6	2745	-
32 x 2 x 0.100 (12 G)	800 x 50 x 2.50	4 6	3619	4 6	2813	-
36 x 2 x 0.100 (12 G)	900 x 50 x 2.50	4 6	4266	4 6	3313	-
32 x 2½ x 0.100 (12 G)	800 x 55 x 2.50	-	-	4	3535	-

- Width specification are approximate and depend upon availability of RM steel.
- Any other dimensional variability may occur due to RM Steel availability, but adequate rigidity in cutting is assured.

METAL CUTTING BANDSAW BLADES

NOMINAL SIZE (WIDTH X THICKNESS)		TEETH PER INCH (TPI)		Price For 30.5 Mtrs. long Roll
Inches	Millimeters	Racker Set	Wavy Set	Rs./ Roll
1/4 x 0.025 (23 G)	6.35 x 0.63	10 14	18 24	2225
3/8 x 0.025 (23 G)	9.53 x 0.63	6 8 10 14	18 24	1526
1/2 x 0.025 (23 G)	12.70 x 0.63	6* 8 10* 14*	18 24	1844
1/2 x 0.025 (23 G) (SKIP)	12.70 x 0.63	6		1967
5/8 x 0.032 (21 G)	15.88 x 0.80	6 8 10 14	18 24	2398
3/4 x 0.032 (21 G)	19.05 x 0.80	4 6* 8* 10* 14*	18* 24	2519
3/4 x 0.032 (21 G) (SKIP)	19.05 x 0.80	6*		2815
1 x 0.035 (20 G)	25.40 x 0.90	4* 6 8 10 14	18 24	3348

METAL CUTTING BANDSAW WELDED COILS

NOMINAL SIZE (WIDTH X THICKNESS X LENGTH)		TEETH PER INCH (TPI)		PRICE
Inches	Millimeters	Racker Set	Wavy Set	Rs./ Loop
3/4 x 0.032 (21 G) x 8' 3"	19.05 x 0.80 x 2515	4 6 8* 10* 14	18 24	279
3/4 x 0.032 (21 G) x 9' 10"	19.05 x 0.80 x 2997	4 6 8 10 14	18 24	317
3/4 x 0.032 (21 G) x 11' 7½"	19.05 x 0.80 x 3544	4 6 8 10 14	18 24	365

* Welded Coils (Loops) are available in any size. Prices given are for three popular sizes.

BIMETAL BANDSAW BLADES

GRADE	SIZE	TEETH (TPI)	CPL RS. / METER
FURIA - N/VN (M 42)	13X0.65	8,10,14*,18,24 / 6/10,8/12,10/14	621
	13X0.90	6, 8, 10, 14, 18 / 5/8,6/10,8/12,10/14	670
	20X0.90*	6,8,10,14 / 4/6*, 5/8, 6/10*, 8/12, 10/14	694
	27X0.90	4,6,8,10,14 / 3/4*, 4/6*, 5/8*, 6/10*, 8/12*, 10/14*	717
	34X1.10	6 / 3/4, 4/6, 5/8, 6/10*	760
	41X1.30	6 / 3/4, 4/6	1070
FURIA - VI (M 42)	27X0.90*	2/3*, 3/4*, 4/6*, 5/8*, 6/10*	717
	34X1.10	2/3*, 3/4*, 4/6*	760
	41X1.30	1.2/2, 2/3*, 3/4*, 4/6	1070
	54X1.60	0.75/1.2,1.2/2,2/3,3/4,4/6	1691
	67X1.60	0.75/1.2, 1.2/2, 2/3, 3/4	2757
ALUMINA-CI (M 42)	20X0.90	3*	788
	27X0.90	2, 3	812
	27X1.10	2, 3	812
	34X1.10	1.2, 2, 3	861
	41X1.30	1.2, 2	1329
KATANA-VX (M 42)	20X0.90	3/4, 4/6	812
	34x1.10	2/3, 3/4	861
	41x1.30	1.2/2, 2/3, 3/4	1270
	54x1.60	0.75/1.25, 1.2/2, 2/3	1928
	67x1.60	0.75/1.25, 1.2/2, 2/3	3134
TITAN-VX (M 51)	27x0.90	2/3, 3/4, 4/6	908
	34x1.10	2/3, 3/4, 4/6	963
	41x1.30	1.2/2, 2/3, 3/4	1500
	54x1.60	1.2/2, 2/3	2297
	67x1.60	0.7/1.2, 1.2/2, 2/3	3509

* Length & TPI of Bimetal Loop as per requirement.

HSS TOOLBIT BLANKS

NOMINAL SIZE			GRADES						PKT. QTY.
MM	INCH	EQUIVALENT MM	ZEDD M2 SQ. Price Each Rs.	S100 M35 SQ./RD Price Each Rs.	S200 M42 SQ./RD Price Each Rs.	S400 T42 SQ./RD Price Each Rs.	S400E M35 SQ./RD Price Each Rs.	S500 T42 SQ./RD Price Each Rs.	
-	3/32 x 2.1/2	2.38 x 63.50	117	235	330	348	277	370	10
-	3/32 x 3	2.38 x 76.20	136	380	532	558	446	592	10
3 x 75	1/8 x 3	3.18 x 76.20	136	260	366	386	304	402	10
3 x 100	1/8 x 4	3.18 x 101.60	180	469	675	708	557	736	10
4 x 75	5/32 x 3	3.97 x 76.20	136	263	376	394	311	403	10
4 x 100	5/32 x 4	3.97 x 101.60	183	408	583	613	485	629	10
5 x 75	3/16 x 3	4.76 x 76.20	118	208	273	286	243	296	10
5 x 100	3/16 x 4	4.76 x 101.60	154	306	399	419	361	439	10
5 x 150	3/16 x 6	4.76 x 152.40	239	554	850	898	649	899	10
6 x 75	1/4 x 3*	6.35 x 76.20	134	263	366	386*	311	403	10
6 x 100	1/4 x 4*	6.35 x 101.60	157	358	486	513*	419	534	10
6 x 150	1/4 x 6*	6.35 x 152.40	226*	585	796	839*	690	870	10
6 x 200	1/4 x 8*	6.35 x 203.20	323	972	1346	1417	1140	1491	10
8 x 75	5/16 x 3*	7.94 x 76.20	149	345	470	498*	408	529	10
8 x 100	5/16 x 4*	7.94 x 101.60	193	476	646	678*	560	723	10
8 x 150	5/16 x 6*	7.94 x 152.40	319	760	1038	1091*	899	1158	10
8 x 200	5/16 x 8*	7.94 x 203.20	405	1082	1467	1547*	1277	1650	10
-	3/8 x 3*	9.53 x 76.20	186*	402	558	591*	471	627*	10
-	3/8 x 4*	9.53 x 101.60	226*	538	738	778*	635	844*	10
-	3/8 x 6*	9.53 x 152.40	352*	849	1188	1249*	1003	1334*	10
-	3/8 x 8*	9.53 x 203.20	478*	1209	1685	1777*	1419*	1893*	10
-	3/8 x 10	9.53 x 254.00	616	1602	2233	2350	1884	2506	10
10 x 75	-	-	206	439	609	640	515	685	10
10 x 100	-	-	245	585	817	860	688	917	10
10 x 150	-	-	380	917	1280	1348	1082	1433	10
10 x 200	-	-	532	1293	1800	1894	1522	2020	10
10 x 250	-	-	671	1707	2378	2501	2001	2663	10
12 x 75	1/2 x 3*	12.70 x 76.20	280	636	912	959*	750	999	10
12 x 100	1/2 x 4*	12.70 x 101.60	352*	849	1189	1251*	1003	1339	10
12 x 150	1/2 x 6*	12.70 x 152.40	538*	1307	1865	1967*	1540	2057	10
12 x 200	1/2 x 8*	12.70 x 203.20	705	1828	2603	2740*	2151	2867	10
12 x 250	1/2 x 10	12.70 x 254.00	1075	2560	3579	3772	3011	4001	10
14 x 100	9/16 x 4	14.29 x 101.60	434	1091	1467	1547	1287	1650	1
14 x 150	9/16 x 6	14.29 x 152.40	666	1650	2217	2332	1936	2484	1
14 x 200	9/16 x 8	14.29 x 203.20	915	2291	3083	3245	2694	3454	1
16 x 100	5/8 x 4*	15.88 x 101.60	558	1400	2001	2108*	1651	2193	1
16 x 150	5/8 x 6*	15.88 x 152.40	821*	2105	2932	3083*	2473	3284*	1
16 x 200	5/8 x 8	15.88 x 203.20	1111	2877	4109	4327	3386	4496	1
-	3/4 x 4*	19.05 x 101.60	770	1948	2748	2893*	2290	3050	1
-	3/4 x 6*	19.05 x 152.40	1126	2916	4032	4247*	3434	4569*	1
-	3/4 x 8*	19.05 x 203.20	1541	3914	5526	5817*	4601	6126	1
20 x 100	-	-	841	2122	2998	3157	2495	3322	1
20 x 150	-	-	1226	3177	4492	4731	3742	4984	1
20 x 200	-	-	1676	4234	5990	6307	4989	6641	1
25 x 150	1 x 6*	25.40 x 152.40	1897	4842	6765	7124*	5697	7570	1
25 x 200	1 x 8*	25.40 x 203.20	2579	6457	9020	9495	7596	10094*	1

- ZEDD = M2 (HSS WITH 0% COBALT) (62-65 HRc)
 - S100 = M35 (HSS WITH 5% COBALT) (63-66 HRc)
 - S200 = M42 (HSS WITH 8% COBALT) (65-68 HRc)
 - S400 = T42 (HSS WITH 10% COBALT) (64-67 HRc)
 - S400E = M35 WITH CRYOGENIC (ULTRA LOW) HEAT TREATMENT (64-67 HRc)
 - S500 = T42 WITH CRYOGENIC (ULTRA LOW) HEAT TREATMENT (65-69 HRc)
- (Square Toolbit blanks are with bevelled ends)

HSS FLAT (RECTANGULAR) TOOLBIT BLANKS

NOMINAL SIZE			GRADES		PKT. QTY.
MM	INCH	EQUIVALENT MM	MARK III	T42	
			Price Each Rs.	Price Each Rs.	
3 x 20 x 150	1/8 x 3/4 x 6	3.18 x 19.05 x 152.40	801	1251	10
3 x 25 x 150	1/8 x 1 x 6	3.18 x 25.40 x 152.40	1144	1790	10
5 x 25 x 150	3/16 x 1 x 6	4.76 x 25.40 x 152.40	1258	2196	10
6 x 12 x 100	1/4 x 1/2 x 4	6.35 x 12.70 x 101.60	483	755	10
6 x 12 x 150	1/4 x 1/2 x 6	6.35 x 12.70 x 152.40	740	1162	10
6 x 16 x 150	1/4 x 5/8 x 6	6.35 x 15.88 x 152.40	881	1429	10
6 x 20 x 150	1/4 x 3/4 x 6	6.35 x 19.05 x 152.40	1045	1638	10
6 x 25 x 150	1/4 x 1 x 6	6.35 x 25.40 x 152.40	1277	1997	10
10 x 12 x 100	3/8 x 1/2 x 4	9.53 x 12.70 x 101.60	726	1139	10
10 x 16 x 100	3/8 x 5/8 x 4	9.53 x 15.88 x 101.60	806	1264	10
10 x 16 x 150	3/8 x 5/8 x 6	9.53 x 15.88 x 152.40	1260	1967	10
10 x 20 x 150	3/8 x 3/4 x 6*	9.53 x 19.05 x 152.40	1452*	2266	10
10 x 25 x 150	3/8 x 1 x 6	9.53 x 25.40 x 152.40	2490	3890	10
12 x 16 x 150	1/2 x 5/8 x 6	12.70 x 15.88 x 152.40	1553	2759	1
12 x 20 x 150	1/2 x 3/4 x 6	12.70 x 19.05 x 152.40	1719	3050	1
12 x 25 x 150	1/2 x 1 x 6	12.70 x 25.40 x 152.40	2255	3531	1
16 x 20 x 150	5/8 x 3/4 x 6	15.88 x 19.05 x 152.40	2341	4000	1
20 x 25 x 150	3/4 x 1 x 6	19.05 x 25.40 x 152.40	3297	6327	1

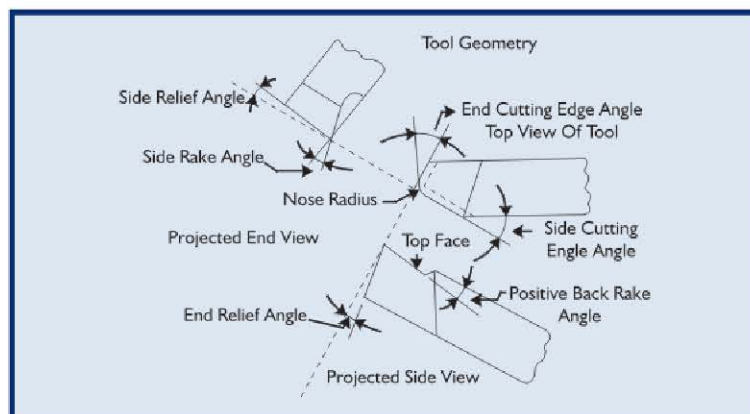
• Mark III - M35 (HSS with 5% Cobalt) (63-66 HRc), T42 (HSS with 10% Cobalt)

HSS PARTING TOOLBITS

NOMINAL SIZE		GRADES		PKT. QTY.
INCH	EQUIVALENT MM	MARK II	T42	
		Price Each Rs.	Price Each Rs.	
3/32 x 1/2 x 4	2.38 x 12.70 x 101.60	633	1110	10
3/32 x 5/8 x 5	2.38 x 15.88 x 127.00	793	1460	10
1/8 x 3/4 x 6*	3.18 x 19.05 x 152.40	1011*	1793	10
1/8 x 7/8 x 6	3.18 x 22.23 x 152.40	1183	2189	10
3/16 x 1 x 6	4.76 x 25.40 x 152.40	1471	2508	10

• Mark II - M2 (HSS with 0% Cobalt) (62-65 HRc), T42 (HSS with 10% Cobalt)

ToolBit Terms - General Features



**MIRANDA Super Drills****MIRANDA Gold Drills**

MIRANDA Super Drills

SIZE RANGE : SUPER JOBBER DRILL

- Metric size : 1.00 mm to 16.0 mm
- Inch size : 3/64" to 5/8"

APPLICATION :

- Drilling alloy steel up to 28-35 HRc.
- Suitable for drilling all types of stainless steel materials.
- Suitable for forged steel components.
- All Titanium alloys, Hastelloy, Inconel and Heat Resistant steels

MIRANDA Gold Drills

SIZE RANGE : GOLD JOBBER DRILL

- Metric size : 1.0 mm to 20.0 mm
- Inch size : 3/64" to 25/32"

APPLICATION :

- Suitable for non ferrous metals.
- Suitable for aluminium alloy & Cast steel material.
- Suitable for material up to 25HRc.
- Suitable for general application



HSS DRILLS

HSS PARALLEL SHANK JOBBER SERIES (IS : 5101 - 1991)

SIZES			PRICE Rs. / 10 Nos.			SIZES			PRICE Rs. / 10 Nos.		
MM	INCH	DG	STD JOBBER DRILLS	GOLD JOBBER DRILLS	SUPER JOBBER DRILLS	MM	INCH	DG	STD JOBBER DRILLS	GOLD JOBBER DRILLS	SUPER JOBBER DRILLS
1.00*	-	-	325*	358	439	2.90	-	-	349	384	471
1.02	-	60	325	358	439	2.95	-	32	349	384	471
1.04	-	59	325	358	439	3.00*	-	-	349	384	471
1.07	-	58	325	358	439	3.05	-	31*	458	504	617
1.09	-	57	325	358	439	3.10	-	-	458	504	617
1.10	-	-	325	358	439	3.17	1/8*	-	458	504	617
1.18	-	56	325	358	439	3.20*	-	-	470	517	634
1.19	3/64	-	325	358	439	3.26	-	30	470	517	634
1.20	-	-	325	358	439	3.30*	-	-	470	517	634
1.30	-	-	325	358	439	3.40	-	-	470	517	634
1.32	-	55	325	358	439	3.45	-	29	470	517	634
1.40	-	54	325	358	439	3.50*	-	-	470	517	634
1.50*	-	-	325*	358	439	3.57	9/64*	28	470	517	634
1.51	-	53	325	358	439	3.60*	-	-	701*	770	946*
1.59	1/16	-	325	358	439	3.66	-	27	701	770	946
1.60	-	-	325	358	439	3.70*	-	-	701*	770	946
1.61	-	52	341	374	460	3.73	-	26	701	770	946
1.70	-	51	341	374	460	3.80*	-	25	701*	770	946*
1.78	-	50	341	374	460	3.86	-	24	701	770	946
1.80	-	-	341	374	460	3.90*	-	-	701	770*	946
1.85	-	49	341	374	460	3.91	-	23	701	770	946
1.90	-	-	341	374	460	3.97	5/32*	-	701*	770*	946
1.93	-	48	341	374	460	3.99	-	22	701	770	946
1.98	5/64	-	341	374	460	4.00*	-	-	701*	770*	946*
1.99	-	47	341	374	460	4.04	-	21	844	927	1139
2.00*	-	-	341*	374*	460*	4.09	-	20	844	927	1139
2.06	-	46	341	374	460	4.10*	-	-	844*	927*	1139*
2.08	-	45	341	374	460	4.20*	-	-	844*	927*	1139*
2.10*	-	-	341	374*	460	4.22	-	19	844	927	1139
2.18	-	44	341	374	460	4.30*	-	18	844*	927	1139*
2.20*	-	-	341*	374	460	4.37	11/64*	-	844	927	1139
2.26	-	43	341	374	460	4.39	-	17	844	927	1139
2.30	-	-	341	374	460	4.40*	-	-	844*	927	1139
2.37	-	42	341	374	460	4.50*	-	16	1109*	1220*	1496*
2.38	3/32*	-	341*	374	460	4.57	-	15	1109	1220	1496
2.40*	-	-	341	374	460*	4.60	-	-	1109	1220	1496
2.44	-	41	341	374	460	4.62	-	14	1109	1220	1496
2.49	-	40	341	374	460	4.70	-	13	1109	1220	1496
2.50*	-	-	341*	374*	460*	4.76	3/16*	-	1109*	1220*	1496*
2.53	-	39	341	374	460	4.80*	-	12	1109*	1220	1496
2.58	-	38	341	374	460	4.85	-	11	1218	1339	1643
2.60	-	-	341	374	460	4.90*	-	-	1218*	1339	1643
2.64	-	37*	341	374	460	4.92	-	10	1218	1339	1643
2.70*	-	-	341	374*	460	4.98	-	9	1218	1339	1643
2.71	-	36	341	374	460	5.00*	-	-	1218*	1339*	1643*
2.78	7/64*	-	341*	374	460	5.06	-	8	1218	1339	1643
2.79	-	35	349	384	471	5.10*	-	-	1218*	1339*	1643
2.80	-	-	349	384	471	5.11	-	7	1218	1339	1643
2.82	-	34	349	384	471	5.16	13/64*	-	1218*	1339*	1643
2.87	-	33	349	384	471	5.18	-	6	1218	1339	1643



W.E.F. 11/15/2015

MIRANDA TOOLS

SIZES			PRICE Rs. / 10 Nos.			SIZES			PRICE Rs. / 10 Nos.		
MM	INCH	DG	STD JOBBER DRILLS	GOLD JOBBER DRILLS	SUPER JOBBER DRILLS	MM	INCH	DG	STD JOBBER DRILLS	GOLD JOBBER DRILLS	SUPER JOBBER DRILLS
5.20*	-	-	1218*	1339*	1643	9.13	23/64	-	3744	4120	5056
5.22	-	5	1316	1447	1777	9.20	-	-	3744	4120	5056
5.30*	-	-	1316*	1447*	1777	9.30	-	-	3744	4120	5056
5.31	-	4	1316	1447	1777	9.34	-	U	3744	4120	5056
5.40*	-	-	1316*	1447*	1777	9.40*	-	-	3744*	4120	5056
5.41	-	3	1316	1447	1777*	9.50*	-	-	3744*	4120*	5056*
5.50*	-	-	1316*	1447*	1777	9.52	3/8*	-	4260*	4687*	5753*
5.56	7/32*	-	1316*	1447	1777	9.60	-	-	4260	4687	5753
5.60	-	-	1316	1447	1777	9.70	-	-	4260	4687	5753
5.61	-	2	1465	1612	1978	9.80	-	-	4260	4687	5753
5.70	-	-	1465	1612	1978	9.90	-	-	4749	5223	6410
5.79	-	1	1465	1612	1978	9.92	25/64	-	4749	5223	6410
5.80*	-	-	1465*	1612	1978	10.00*	-	-	4749*	5223*	6410*
5.90*	-	-	1465*	1612	1978	10.10*	-	-	4749*	5223*	6410
5.95	15/64*	-	1465*	1612	1978	10.20*	-	-	4749*	5223*	6410*
6.00*	-	-	1465*	1612*	1978*	10.30*	-	-	5166*	5683	6973
6.04	-	B	1605	1767	2167	10.32	13/32*	-	5166*	5683*	6973*
6.10*	-	-	1605*	1767	2167	10.40	-	-	5166	5683	6973
6.15	-	C	1605	1767	2167	10.50*	-	-	5166*	5683*	6973*
6.20*	-	-	1605*	1767	2167	10.60	-	-	5166	5683	6973
6.30*	-	-	1605*	1767	2167	10.70	-	-	5460	6007	7371
6.35	1/4*	E	1605*	1767*	2167*	10.72	27/64	-	5460	6007	7371
6.40	-	-	1605	1767	2167	10.80*	-	-	5460*	6007	7371
6.50*	-	-	2050*	2255*	2768*	10.90	-	-	5460	6007	7371
6.60*	-	-	2050	2255*	2768*	11.00*	-	-	5460*	6007*	7371
6.63	-	G	2050*	2255*	2768	11.10*	-	-	6094	6703	8227*
6.70*	-	-	2025*	2255	2768	11.11	7/16*	-	6094*	6703*	8227*
6.75	17/64*	H	2050*	2255*	2768	11.20	-	-	6094	6703	8227
6.80*	-	-	2050*	2255*	2768*	11.30	-	-	6094	6703	8227
6.90*	-	-	2242*	2465*	3026*	11.40	-	-	6094	6703	8227
7.00*	-	J	2242	2465*	3026*	11.50*	-	-	6421*	7062*	8668*
7.10	-	-	2242*	2465	3026	11.51	29/64	-	6421	7062	8668
7.14	9/32*	K	2242*	2465*	3026	11.60	-	-	6421	7062	8668
7.20	-	-	2242*	2465*	3026	11.70	-	-	6421	7062	8668
7.30*	-	-	2369	2607	3200*	11.80*	-	-	6421*	7062	8668
7.40	-	-	2369*	2607	3200	11.90	-	-	6864	7552	9266
7.50*	-	-	2369	2607*	3200*	11.91	15/32	-	6864	7552	9266
7.54	19/64*	-	2573*	2830	3474*	12.00*	-	-	6864*	7552*	9266*
7.60	-	-	2573	2830	3474	12.10	-	-	6864	7552	9266
7.70	-	-	2573	2830	3474	12.20	-	-	6864	7552	9266
7.80*	-	-	2573*	2830	3474	12.30	31/64	-	7279	8008	9826
7.90*	-	-	2573*	2830	3474	12.40	-	-	7279	8008	9826
7.94	5/16*	-	2812*	3093*	3795*	12.50*	-	-	7279*	8008*	9826*
8.00*	-	-	2812*	3093*	3795*	12.60	-	-	7279	8008	9826
8.03	-	O	2812	3093	3795	12.70	1/2*	-	7681*	8449*	10371
8.10*	-	-	2812*	3093	3795	12.80	-	-	7681	8449	10371
8.20*	-	-	2812*	3093	3795	12.90	-	-	7681	8449	10371
8.30	-	-	3401	3741	4591	13.00*	-	-	7681*	8449*	10371
8.33	21/64*	-	3401*	3741*	4591	13.10	33/64	-	9558	10514	12904
8.40	-	-	3401	3741*	4591*	13.20	-	-	9558	10514	12904
8.50*	-	-	3401*	3741	4591	13.30	-	-	9558	10514	12904
8.60*	-	-	3401*	3741	4591	13.40	-	-	9558	10514	12904
8.70*	-	-	3401	3741	4591	13.49	17/32*	-	10165*	11182	13724
8.73	11/32*	-	3627*	3990*	4896	13.50*	-	-	10165*	11182	13724
8.80	-	-	3627	3990	4896	13.60	-	-	10165	11182	13724
8.90	-	-	3627*	3990	4896	13.70	-	-	10165	11182	13724
9.00*	-	-	3627*	3990	4896*	13.80	-	-	10165	11182	13724
9.10	-	-	3744	4120	5056	13.89	35/64	-	11039	12143	14903

SIZES			PRICE Rs. / 10 Nos.		
MM	INCH	DG	STD JOBBER DRILLS	GOLD JOBBER DRILLS	SUPER JOBBER DRILLS
13.90	-	-	11039	12143	14903
14.00*	-	-	11039*	12143*	14903
14.25	-	-	11039	12143	14903
14.29	9/16	-	11571	12728	15622
14.50*	-	-	11571*	12728*	15622
14.68	37/64	-	12459	13704	16819
14.75	-	-	12459	13704	16819
15.00*	-	-	12459*	13704*	16819
15.08	19/32	-	12459	13704	16819
15.25	-	-	12459	13704	16819

SIZES			PRICE Rs. / 10 Nos.		
MM	INCH	DG	STD JOBBER DRILLS	GOLD JOBBER DRILLS	SUPER JOBBER DRILLS
15.50*	-	-	13523*	14875	18256
15.75	-	-	13523	14875	18256
15.87	5/8*	-	13523	14875*	18256
16.00*	-	-	13523*	14875*	18256
17.00	-	-	14315	15747	-
17.46	11/16	-	14315	15747	-
18.00	-	-	15494	17043	-
19.00	-	-	16381	18019	-
19.05	3/4	-	16381	18019	-
20.00	-	-	19572	21529	-

DRILL SET
IS : 5101 - 1991

DRILL SET	PRICE Rs. / SET	
	STD. JOBBER DRILLS	GOLD JOBBER DRILLS
1.50 TO 6.50 MM (13 Pcs.)	1269	1398
1.00 TO 10.00 MM (19 Pcs.)	3537	3892
1.00 TO 13.00 MM (25 Pcs.)	7489	8237
1/16 TO 1/4 INCH (13 Pcs.)	1269	1398
1/16 TO 3/8 INCH (21 Pcs.)	3774	4157
1/16 TO 1/2 INCH (29 Pcs.)	8323	9655

HSS PARALLEL SHANK STUB SERIES
IS : 5100 - 1969

SIZES		PRICE Rs. / 10 Nos.		
MM	INCH	STD. STUB DRILLS	GOLD STUB DRILLS	SUPER STUB DRILLS
1.50		336	369	-
1.60		336	369	-
1.90		336	369	-
2.00		336	369	-
2.20		336	369	-
2.50		336	369	-
2.78	7/64	336	369	-
2.90		365	403	-
3.00	-	377	416	510
3.17	1/8*	446	491	602
3.20	-	470	517	634
3.50	-	470	517	634
3.57	9/64	470	517	634
3.97	5/32*	668	734	902
4.00	-	668	734	902
4.20	-	751	826	1014
4.50	-	994	1095	1343
4.76	3/16	994	1095	1343
5.00	-	1064	1170	1436
5.16	13/64	1064	1170	1436
5.50	-	1153	1268	1555
5.56	7/32	1153	1268	1555
6.00	-	1305	1434	1760

SIZES		PRICE Rs. / 10 Nos.		
MM	INCH	STD. STUB DRILLS	GOLD STUB DRILLS	SUPER STUB DRILLS
6.35	1/4	1458	1603	1968
6.50	-	1788	1966	2413
6.75	17/64	1788	1966	2413
6.80	-	1788	1966	2413
7.00	-	1964	2160	2651
7.14	9/32*	1964	2160	2651
7.50	-	2036	2240	2749
7.94	5/16*	2466	2713	3330
8.00	-	2466	2713	3330
8.50	-	3087	3396	4168
9.00	-	3224	3546	4353
9.50	-	3401	3741	4591
9.52	3/8	3553	3907	4796
10.00	-	4348	4784	5871
10.50	-	4678	5146	6315
11.00	-	5267	5794	7110
11.11	7/16	5487	6036	7407
12.00	-	6216	6838	8391
12.70	1/2	6883	7570	9292
13.00	-	6883	7570	9292
14.00	-	9381	10318	-
15.00	-	10564	11620	-
16.00	-	11453	12599	-

• Standard, Gold - Stub & Jobber Series = M2

• Super Stub & Jobber = M35

HSS PARALLEL SHANK - LONG SERIES
IS : 5102 - 1969

SIZES		PRICE Rs. / PIECE	SIZES		PRICE Rs. / PIECE	SIZES		PRICE Rs. / PIECE
MM	INCH		MM	INCH		MM	INCH	
1.00	-	201	3.57	9/64*	262*	7.00	-	734
1.10	-	201	3.70*	-	284	7.20	-	734
1.19	-	201	3.80	-	284	7.50	-	734
1.20	-	201	3.97	5/32*	284*	7.80	-	734
1.30	-	201	4.00*	-	284*	7.94	5/16	756
1.40	-	201	4.10*	-	284*	8.00*	-	756*
1.50*	-	201*	4.20*	-	284*	8.10	-	756
1.59	1/16	201	4.30*	-	284*	8.20	-	756
1.60	-	201	4.50	-	284	8.50	-	756
1.70	-	201	4.76	3/16*	284*	9.00*	-	837*
1.80	-	201	4.80	-	284	9.50	-	837
1.90	-	201	4.90	-	329	9.52	3/8	837
1.98	5/64	201	5.00*	-	329*	9.80	-	975
2.00*	-	201*	5.10	-	329	10.00*	-	881*
2.10	-	201	5.16	13/64	329	10.20	-	975
2.20	-	201	5.20	-	329	10.50	-	1053
2.30	-	259	5.30	-	386	11.00	-	1102
2.38	3/32	259	5.50	-	386	11.50	-	1135
2.40*	-	259*	5.56	7/32	386	11.80	-	1286
2.50*	-	259*	5.60	-	418	12.00	-	1172
2.60*	-	259*	5.80	-	418	12.50	-	1172
2.70*	-	259*	5.90	-	418	12.70	1/2	1172
2.78	7/64	259	5.95	15/64	418	13.00	-	1625
2.80	-	259	6.00*	-	418*	13.50	-	1806
2.90	-	259	6.10	-	473	14.00	-	1806
3.00*	-	262	6.35	1/4*	433	14.29	9/16	1806
3.10	-	262	6.50	-	607	14.50	-	1889
3.17	1/8	262	6.60	-	734	15.00	-	1889
3.20*	-	262	6.75	17/64	734	15.50	-	1964
3.30*	-	262	6.80*	-	734*	15.87	5/8	1964
3.50	-	262	6.90	-	734	16.00	-	1990

Note : ● Minimum order value required is Rs.10000/- nett. ● Tax extra as applicable on date of supply.
● Prices are subjected to changes without notice.

HSS PARALLEL SHANK - EXTRA LONG SERIES
TO OUR STANDARD

SIZES		OAL MM FL MM	PRICE Rs. / PIECE						
MM	INCH		150	175	200	225	250	300	350
3.00	1/8	-	763	920	1052	1240	1486	1782	-
3.50	-	-	794	925	1058	1436	1593	2102	-
4.00	5/32	-	762	925	1058	1438	1598	2102	2895
4.50	-	-	768	947	1082	1440	1601	2254	2968
5.00	3/16	-	787	969	1109	1467	1635	2305	3025
5.50	7/32	-	832	1020	1172	1574	1744	2310	3043
6.00	-	-	832	1045	1197	1613	1794	2371	3529
6.50	1/4	-	-	-	1441	-	2083	2686	3529
7.00	-	-	-	-	1514	-	2266	2719	3948
7.50	9/32	-	-	-	1598	-	2395	2877	3963
8.00	5/16	-	-	-	1689	-	2538	2924	4054
8.50	11/32	-	-	-	1748	-	2582	3011	3689
9.00	-	-	-	-	1753	-	2582	3011	3689
9.50	3/8	-	-	-	1803	-	2588	3104	3802
10.00	-	-	-	-	1833	-	2644	3508	4309
10.50	13/32	-	-	-	1990	-	2746	3689	4677
11.00	7/16	-	-	-	-	-	2770	3771	4864
11.50	-	-	-	-	-	-	2903	3842	5068
12.00	15/32	-	-	-	-	-	2911	3854	5196
12.50	1/2	-	-	-	-	-	3084	4085	5508

Note : Other details will be maintained as per IS : 7823 - 2005.

- MOQ up to 6 mm - 30 Nos.
- MOQ above to 6 mm - 15 Nos.

HSS CENTRE DRILLS

TYPE 'A' & 'R' IS : 6708/6710 - 1977			TYPE 'B' IS : 6709 - 1977			B.S. 328 (PART 2) 1950			
PILOT DIA MM	BODY DIA MM	PRICE RS./PIECE	PILOT DIA MM	BODY DIA MM	PRICE RS./PIECE	SIZE B.S. NO.	PILOT DIA INCH	BODY DIA INCH	PRICE RS./PIECE
1.00	3.15	180	1.00	4.00	296	BS-1	3/64"	1/8"	180
1.25	3.15	180	1.25	5.00	319	BS-2	1/16"	3/16"	180
1.60	4.00	180	1.60	6.30	372	BS-3	3/32"	1/4"	206
2.00	5.00	180	2.00	8.00	523	BS-4	1/8"	5/16"	321
2.50	6.30	206	2.50	10.00	667	BS-5	3/16"	7/16"	424
3.15	8.00	321	3.15	11.20	893	BS-6	1/4"	5/8"	799
4.00	10.00	398	4.00	14.00	1197	BS-7	5/16"	3/4"	1235
5.00	12.50	677	5.00	18.00	1708	-	-	-	-
6.30	16.00	799	6.30	20.00	2011	-	-	-	-
8.00	20.00	1235	-	-	-	-	-	-	-

HSS TAPER SHANK DRILLS

IS : 5103 - 1969

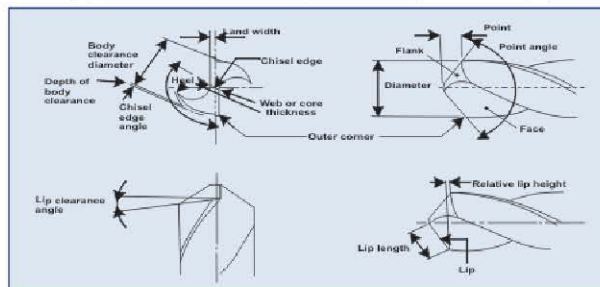
SIZES		PRICE RS. / PIECE		SIZES		PRICE RS. / PIECE		SIZES		PRICE RS. / PIECE	
MM	INCH	REGULAR	SUPER	MM	INCH	REGULAR	SUPER	MM	INCH	REGULAR	SUPER
3.00	-	314	440	10.20*	-	825*	1155	17.25	-	2085	2919
3.20	-	331	463	10.50*	-	978*	1369	17.46	11/16*	2085*	2919
3.50	-	314	440	10.80	-	1022	1431	17.50*	-	2162*	3027
3.80	-	331	463	11.00*	-	1022*	1431	17.75	-	2187	3062
4.00*	-	314*	440	11.11	7/16*	1022	1431	18.00*	-	2287*	3202
4.20	-	424	594	11.20	-	1051	1471	18.25	-	2287	3202
4.50*	-	424*	594	11.50*	-	1051*	1471	18.26	23/32	2287	3202
4.76	3/16	424	594	11.80	-	1051	1471	18.50*	-	2287*	3202
4.80	-	437	612	12.00*	-	1067*	1494	18.75	-	2308	3231
5.00*	-	424*	594	12.20	-	1067	1494	19.00*	-	2308*	3231
5.20	-	437	612	12.50*	-	1067*	1494	19.05	3/4*	2308*	3231
5.50*	-	424*	594	12.70	1/2*	1067	1494	19.25	-	2424	3394
5.80	-	437	612	12.80*	-	1478*	2069	19.50*	-	2424*	3394
6.00*	-	424	594	13.00*	-	1478*	2069	19.75	-	2424	3394
6.20	-	481	673	13.20	-	1547	2166	19.84	25/32	2424	3394
6.35	1/4*	474	664	13.49	17/32*	1547	2166	20.00*	-	2605*	3647
6.50*	-	483*	676	13.50*	-	1657*	2320	20.25	51/64	2632	3685
6.75	17/64*	490	686	13.80	-	1657	2320	20.50*	-	2632*	3685
6.80*	-	490*	686	14.00*	-	1657*	2320	20.64	13/16*	2632*	3685
7.00*	-	483*	676	14.25	-	1774	2484	20.75	-	2752	3853
7.20*	-	490*	686	14.29	9/16*	1774	2484	21.00*	-	2752*	3853
7.50*	-	483	676	14.50*	-	1852*	2593	21.25	-	2825	3955
7.80	-	490	686	14.75	-	1852	2593	21.43	27/32	2825	3955
7.94	5/16*	483	676	15.00*	-	1852	2593	21.50*	-	2901*	4061
8.00*	-	483*	676	15.25	-	1881	2633	21.75	-	2901	4061
8.20	-	694	972	15.50*	-	1881*	2633	22.00*	-	2958*	4141
8.50*	-	630*	882	15.75*	-	1881*	2633	22.22	7/8	2958	4141
8.80	-	762	1067	15.87	5/8*	1881	2633	22.25	-	3224	4514
9.00*	-	694*	972	16.00*	-	1924*	2694	22.50*	-	3224*	4514
9.20	-	762	1067	16.25*	-	1924*	2694	22.75	-	3286	4600
9.50	-	694	972	16.50*	-	2057*	2880	23.00*	29/32	3286*	4600
9.52	3/8*	694	972	16.67	21/32	2057	2880	23.25	-	3447	4826
9.80	-	817	1144	16.75	-	2057	2880	23.50*	-	3922*	5491
10.00*	-	738*	1033	17.00*	-	2057*	2880	23.75	-	3922	5491

Note : • Minimum order value required is Rs.10000 /- • Tax extra as applicable on date of supply. • Prices are subjected to changes without notice.
 • MOQ in Super Series : From 3mm to 10mm - 50 Nos., From 20mm to 32mm - 10 Nos. Above 50mm - 2 Nos.
 From 10mm to 20mm - 30 Nos. From 32mm to 50mm - 5 Nos.

SIZES		PRICE RS. / PIECE	
MM	INCH	REGULAR	SUPER
24.00*	-	4025*	5635
24.25	-	4099	5739
24.50*	-	4099*	5739
24.75	-	4290	6006
25.00*	63/64	4290*	6006
25.40	1*	4348*	6087
25.50*	-	4721*	6609
25.75	-	4721	6609
26.00*	-	4763*	6668
26.25	-	5121	7169
26.50*	-	5237*	7332
27.00*	-	5404*	7566
27.25	-	5416	7582
27.50	-	5416	7582
27.75	-	5416	7582
28.00*	-	5950*	8330
28.25	-	5950	8330
28.50	-	5950	8330
28.58	1.1/8	5950	8330
28.75	-	6125	8575
29.00*	-	6215*	8701
29.25	-	6215	8701
29.50	-	6247	8746
29.75	-	6247	8746
30.00*	-	6378*	8929
30.25	-	7250	10150
30.50*	-	7250*	10150
30.75	-	7367	10314
31.00*	-	8198*	11477
31.50	-	8567	11994
31.75	1.1/4	8567	11994
32.00*	-	9380*	13132
32.50	-	9380	13132
33.00*	-	9614*	13460
33.34	1.5/16	9614	13460
33.50	-	9944	13922
34.00*	-	10138*	14193
34.50	-	11098	15537
34.93	1.3/8	11187	15662
35.00*	-	11187*	15662
35.50	-	11868	16615
36.00*	-	12044*	16862

SIZES		PRICE RS. / PIECE	
MM	INCH	REGULAR	SUPER
36.50	1.7/16	12279	17191
37.00*	-	12574*	17604
37.50	-	13405	18767
38.00*	-	13613*	19058
38.10	1.1/2	13613	19058
38.50	1.33/64	14024	19634
39.00*	-	14856*	20798
39.50	-	14856	20798
39.69	1.9/16	14856	20798
40.00*	-	15242*	21339
40.50	-	16124	22574
41.00	-	16124	22574
41.27	1.5/8	16124	22574
41.50	-	16756	23458
42.00*	-	16756*	23458
42.50	-	17182	24055
43.00	-	17804	24926
43.50	-	17804	24926
44.00	-	18432	25805
44.45	1.3/4	18432	25805
44.50	-	18432	25805
45.00*	-	18863*	26408
45.50	-	19719	27607
46.00	-	19719	27607
46.50	-	20709	28993
47.00	-	20709	28993
47.50	-	21144	29602
47.62	1.7/8	21144	29602
48.00	-	23058	32281
48.50	-	23230	32522
49.00	-	23230	32522
49.50	-	23475	32865
50.00	-	23475	32865
50.50	-	24727	34618
50.80	2	24727	34618
51.00	-	33568	46995
52.00	-	33568	46995
52.50	-	43689	61165
53.00	-	43689	61165
53.50	-	43689	61165
53.97	2.1/8	43689	61165
54.00	-	43689	61165

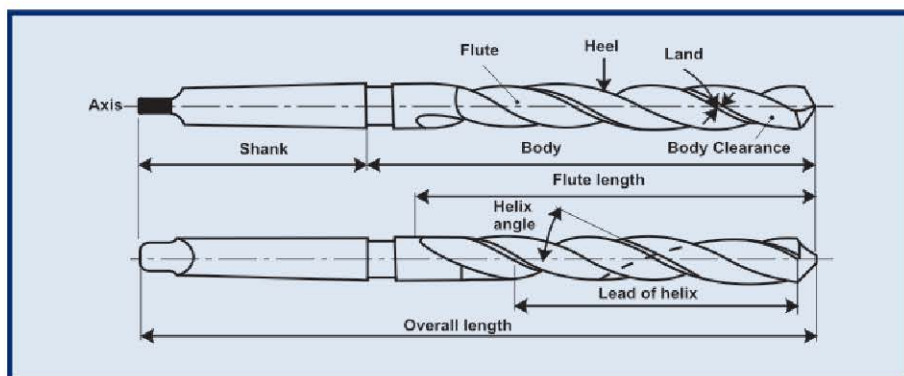
SIZES		PRICE RS. / PIECE	
MM	INCH	REGULAR	SUPER
54.50	-	45894	64252
55.00	-	45894	64252
55.50	-	45894	64252
55.56	2.3/16	45894	64252
56.00	-	47821	66949
56.50	-	47821	66949
57.00	-	47821	66949
57.15	2.1/4	47821	66949
57.50	-	52192	73069
58.00	-	52192	73069
58.50	-	52192	73069
58.74	2.5/16	52192	73069
59.00	-	53187	74462
59.50	-	53187	74462
60.00	-	53187	74462
60.32	2.3/8	53187	74462
60.50	-	56536	79150
61.00	-	56536	79150
61.50	-	56536	79150
62.00	-	56536	79150
62.50	-	56536	79150
63.00	-	57487	80482
63.50	2.1/2	57487	80482
64.00	-	63533	88946
65.00	-	63533	88946
65.09	2.9/16	63533	88946
66.00	-	64009	89613
66.67	2.5/8	64009	89613
67.00	-	65569	91797
68.00	-	70270	98378
69.00	-	76174	106644
69.85	2.3/4	76174	106644
70.00	-	76174	106644
71.00	-	82181	115053
71.50	-	82181	115053
72.00	-	83798	117317
73.00	-	83798	117317
73.02	2.7/8	83798	117317
74.00	-	89173	124842
75.00	-	90328	126459
76.00	-	90328	126459
76.20	3	90328	126459



Note : * Minimum order value required is Rs.10000 /- * Tax extra as applicable on date of supply. * Prices are subjected to changes without notice.
 • MOQ in Super Series : From 3mm to 10mm - 50 Nos., From 20mm to 32mm - 10 Nos. Above 50mm - 2 Nos.
 From 10mm to 20mm - 30 Nos. From 32mm to 50mm - 5 Nos.

HSS TAPER SHANK TWIST DRILLS (LONG SERIES)
IS : 8305 - 1976 (Type N)

SIZES		OAL	PRICE Rs. / PIECE	SIZES		OAL	PRICE Rs. / PIECE
MM	INCH	MM		MM	INCH	MM	
5.00	-	155	1038	19.50	-	275	4875
5.16	13/64	155	1038	20.00	-	275	4957
5.56	7/32	161	1158	20.50	-	282	5039
6.00	-	161	1158	21.00	-	282	5133
6.35	1/4	167	1295	21.43	27/32	289	5962
6.50	-	167	1295	21.50	-	289	5962
7.00	-	174	1392	21.75	-	289	6083
7.50	-	174	1438	22.00	-	289	6083
7.94	5/16	181	1520	22.22	7/8	289	6496
8.00	-	181	1520	22.50	-	296	6496
8.50	-	181	1551	23.00	-	296	6808
9.00	-	188	1680	23.50	-	319	8319
9.50	-	188	1720	24.00	-	327	8319
9.52	3/8	197	1720	24.50	-	327	8683
10.00	-	197	1954	25.00	-	327	8998
10.50	-	197	2010	25.40	1	335	8998
11.00	-	206	2053	25.50	-	335	8998
11.11	7/16	206	2129	26.00	-	335	9358
11.50	-	206	2129	26.50	-	335	9629
12.00	-	215	2527	27.00	-	343	11413
12.50	-	215	2664	27.50	-	343	11776
12.70	1/2	215	2664	28.00	-	343	12141
13.00	-	215	2664	28.50	-	351	12530
13.49	17/32	223	2917	29.00	-	351	12883
13.50	-	223	2917	29.50	-	351	13241
14.00	-	223	3035	30.00	-	351	13617
14.29	9/16	245	3788	30.50	-	360	13977
14.50	-	245	3788	31.00	-	360	13977
15.00	-	245	3796	31.50	-	360	14079
15.50	-	251	3964	32.00	-	397	16843
15.87	5/8	251	4066	32.50	-	397	17569
16.00	-	251	4066	33.00	-	397	17569
16.50	-	257	4137	34.00	-	406	18335
17.00	-	257	4223	34.50	-	406	19139
17.50	-	263	4586	35.00	-	406	19139
18.00	-	263	4596	36.00	-	416	20974
18.50	-	269	4670	38.00	-	426	23563
19.00	-	269	4745	38.10	1.1/2	426	24335
19.05	3/4	275	4745	40.00	-	426	25300





W.E.F. 11/15/2015

MIRANDA TOOLS**HSS TAPER SHANK TWIST DRILLS (EXTRA LONG SERIES)**

IS : 7822 - 2005

SIZES		OVERALL LENGTH IN MM									
MM	INCH	200	225	250	275	300	315	325	350	375	400
10.00	-	1953	2212	2496	2915	3357	3665	-	-	-	-
10.50	-	2010	2295	2664	3080	3529	3821	4016	4593	-	-
11.00	-	2053	2367	2688	3128	3596	3948	4121	4675	-	-
11.50	7/16	2129	2416	2759	3209	3682	4016	4197	4803	-	-
12.00	-	-	2527	2878	3335	3820	4173	4384	4957	-	-
12.50	1/2	-	2664	2976	3455	3939	4304	4502	5192	-	-

SIZES		OVERALL LENGTH IN MM									
MM	INCH	250	275	300	315	325	350	375	400	450	500
13.00	-	3529	4044	4593	4984	5245	5969	-	-	-	-
13.50	-	3643	4126	4717	5107	5337	6080	-	-	-	-
14.00	-	3765	4249	4803	5211	5424	6202	7006	7862	-	-
14.50	9/16	3788	4305	4872	5239	5502	6318	7125	8003	10502	13252
15.00	-	3874	4402	4992	5350	5636	6446	7228	8131	10627	13388
15.50	-	3964	4501	5039	5456	5712	6545	7367	8240	10731	13504
16.00	5/8	4066	4578	5139	5532	5819	6640	7479	8410	10915	13652
16.50	-	4136	4640	5239	5636	5909	6761	7618	8587	11031	13737
17.00	-	4222	4750	5292	5705	5988	6864	7722	8683	11166	13864
17.50	11/16	-	-	5424	5815	6104	6997	7851	8784	11296	13995
18.00	-	-	-	5502	5944	6202	7109	7988	8947	11413	14131
18.50	-	-	-	5590	6017	6314	7170	8083	9086	11543	14266

SIZES		OVERALL LENGTH IN MM									
MM	INCH	300	315	325	350	375	400	425	450	475	500
19.00	3/4	5689	6104	6406	7291	8207	9206	10370	11678	12931	14227
19.50	-	5760	6172	6471	7424	8370	9394	10502	11761	13085	14486
20.00	-	5860	6276	6593	7509	8482	9528	10707	11992	13230	14650
20.50	-	5969	6390	6686	7634	8587	9673	10838	12140	13433	14876
21.00	13/16	6075	6513	6799	7797	8766	9832	11072	12339	13681	15112
21.50	-	6202	6621	6912	7934	8933	10020	11235	12583	13927	15414
22.00	-	6335	6797	7109	8083	9088	10187	11413	12782	14148	15661
22.50	7/8	6496	6940	7262	8219	9206	10295	11608	12972	14394	15926
23.00	-	6808	7264	7533	8491	9409	10480	11776	13219	14606	16162
23.50	-	7479	-	8318	9117	10022	10837	12177	13592	15045	16662
24.00	15/16	7479	-	8318	9206	10151	11216	12561	14022	15454	17106
24.50	-	7713	-	8683	9627	10502	11601	12972	14421	15908	17569
25.00	-	-	-	8999	9979	10915	11957	13340	14840	16350	18060
25.50	1	-	-	-	10291	11235	12312	13723	15231	16789	18484
26.00	-	-	-	-	10707	11644	12714	14131	15679	17225	18974
26.50	-	-	-	-	11031	11981	13066	14522	16081	17631	19439
27.00	1.1/16	-	-	-	11413	12403	13454	14908	16484	18090	19895
27.50	-	-	-	-	11776	12718	13787	15302	16897	18510	20341
28.00	-	-	-	-	12141	13085	14192	15679	17306	19345	20834
28.50	1.1/8	-	-	-	12530	13471	14544	16042	17729	19410	21262

SIZES		OVERALL LENGTH IN MM									
		300	315	325	350	375	400	425	450	475	500
MM	INCH	PRICE RS./PIECE									
29.00	-	-	-	-	12883	13842	14939	16452	18151	19819	21744
29.50	-	-	-	-	13237	14192	15293	16842	18537	20264	22222
30.00	1.3/16	-	-	-	13616	14572	15670	17225	18956	20693	22659
31.00	1.1/4	-	-	-	13977	14937	16051	17651	19447	21233	23298
32.00	-	-	-	-	14079	15231	16842	18510	20387	22222	24380
33.00	1.5/16	-	-	-	-	-	17569	19334	21297	23213	25443
34.00	-	-	-	-	-	-	18337	20154	22210	24220	26538
35.00	1.3/8	-	-	-	-	-	19139	21040	23125	25234	27621
36.00	-	-	-	-	-	-	19895	21838	24017	26206	28701
37.00	1.7/16	-	-	-	-	-	20649	22659	24930	27190	29747
38.00	1.1/2	-	-	-	-	-	21438	23562	25898	28208	30878
39.00	-	-	-	-	-	-	22222	24593	26723	29106	31799
40.00	-	-	-	-	-	-	23150	25299	27662	30089	32844
41.00	1.5/8	-	-	-	-	-	-	-	-	-	33931
42.00	-	-	-	-	-	-	-	-	-	-	35441
43.00	-	-	-	-	-	-	-	-	-	-	37010
44.00	-	-	-	-	-	-	-	-	-	-	38557
45.00	1.3/4	-	-	-	-	-	-	-	-	-	40127
46.00	1.13/16	-	-	-	-	-	-	-	-	-	41824
47.00	-	-	-	-	-	-	-	-	-	-	43516
48.00	1.7/8	-	-	-	-	-	-	-	-	-	45213
49.00	1.15/16	-	-	-	-	-	-	-	-	-	46877
50.00	-	-	-	-	-	-	-	-	-	-	48766

**MASONRY DRILLS - CARBIDE TIPPED
(GROUND FLUTED & BRIGHT PLATED)**



SIZES		FLUTE LENGTH	OVERALL LENGTH	PRICE RS. / PIECE	
MM	INCH			STD DRILLS	SUPER DRILLS
3	1/8"	40	76	46	53
4	5/32"	45	85	54	62
5	3/16"	45	90	59	68
5.5	7/32"	45	90	71	82
6	15/64"	60	110	78	90
6.5	1/4"	60	110	71	82
7	9/32"	60	110	139	160
8	5/16"	80	120	125	144
9	11/32"	80	120	145	167
10	3/8"	80	120	145	167
11	7/16"	115	160	204	235
12	15/32"	115	160	181	208
13	1/2"	115	160	181	208

HSS ENDMILLS
HSS PARALLEL SHANK ENDMILLS
IS 6353 - 1991 & BS-122 (PART-1) 1953

Dia		Price Each Rs.	
MM	INCH	M2	M42
3*	1/8	579*	925
4*	5/32	579*	925
5*	3/16	579*	925
6*	1/4*	648*	1036*
7	-	732	1172
8*	5/16	732*	1172*
9*	3/8*	732	1172
10*	-	732	1172
11	7/16	732	1172
12*	1/2*	756	1210
13	-	861	1375
14*	9/16	938	1503

Dia		Price Each Rs.	
MM	INCH	M2	M42
15*	-	1090*	1746
16*	5/8	1097*	1755
17	-	1200	1921
18*	-	1331*	2130
19*	3/4	1331*	2130
20*	13/16	1474*	2358
21	-	1659	2657
22*	7/8	1672*	2674
23	-	1816	2904
24*	-	1816*	2904
25*	1.0	1949*	3117
26	-	2025	3240

Dia		Price Each Rs.	
MM	INCH	M2	M42
27	-	2383	3810
28	1.1/8	2781	4448
29	-	2781	4448
30*	-	3059*	4896
32	1.1/4	3336	5338
33	-	3694	5911
34	1.3/8	4028	6445
35	-	4028	6445
36	-	4392	7028
37	-	4731	7568
38	-	5045	8071
39	-	5349	8558

Dia		Price Each Rs.	
MM	INCH	M2	M42
40	-	5686	9097
41	1.5/8	5686	9097
42	-	6468	10350
43	-	6468	10350
45	1.3/4	7246	11592
46	-	7246	11592
47	1.7/8	7992	12786
48	-	7992	12786
49	-	7992	12786
50	-	8767	14025
-	-	-	-
-	-	-	-

HSS PARALLEL SHANK SLOT DRILLS
IS 6352 - 1991 & BS (PART - 1) 1953

Dia		Price Each Rs.	
MM	INCH	M2	M42
3	1/8	705	1129
4	5/32	705	1129
5*	3/16	705*	1129
6*	1/4	757*	1212
7	-	757	1212
8*	5/16	757	1212
9	3/8	757	1212
10*	-	781*	1250
11	-	781	1250
12	1/2	857	1372

Dia		Price Each Rs.	
MM	INCH	M2	M42
14	9/16	1097	1755
15	-	1236	1980
16	5/8	1234	1975
18	-	1518	2427
20*	3/4	1518*	2427
21	13/16	1772	2835
22	7/8	1772	2835
23	-	2105	3370
24	-	2105	3370
25	1.0	2105	3370

Dia		Price Each Rs.	
MM	INCH	M2	M42
26	-	2974	4759
30	-	3651	5841
32	1.1/4	3651	5841
34	1.3/8	4392	7028
35	-	4392	7028
36	-	4714	7544
38	1.1/2	5086	8137
40	-	5438	8701
41	-	6155	9847
42	-	6155	9847

Dia		Price Each Rs.	
MM	INCH	M2	M42
43	-	6842	10947
44	-	6842	10947
45	1.3/4	6842	10947
46	-	7596	12153
47	1.7/8	7596	12153
48	-	7596	12153
49	-	8331	13330
50	2.0	8331	13330
-	-	-	-
-	-	-	-

HSS PARALLEL SHANK ENDMILLS - : LONG SERIES
IS 6353 - 1991

Dia	Price Each Rs.	
MM	M2	M42
3	752	1203
4	752	1203
5	752	1203
6	842	1349
7	952	1521
8	952	1521

Dia	Price Each Rs.	
MM	M2	M42
9	952	1521
10*	952*	1521
12*	983*	1573
14	1221	1953
16	1425	2280
18	1730	2768

Dia	Price Each Rs.	
MM	M2	M42
20	1917	3067
22	2175	3478
25	2534	4054
26	2633	4212
28	3616	5784
30	3978	6365

Dia	Price Each Rs.	
MM	M2	M42
32	4337	6939
33	4803	7684
36	5711	9138
40	7392	11824
45	9419	15072
50	11397	18235

HSS PARALLEL SHANK ROUGHING END MILLS -M42
4 FLUTES - COARSE PITCH - TO IS : 6353 -1991 / BS:122

SIZE		PRICE RS. / PIECE	
MM	INCH	STANDARD SERIES	LONG SERIES
6	1/4	2093	2845
8	5/16	2093	2845
10	3/8	2093	2845
12	1/2	2093	2845
14	-	3181	4329
16	5/8	3702	5044
18	-	4513	5629
20	3/4	5038	6859
22	7/8	5403	7361
25	1	6371	8685
28	1.1/8	8592	11705
30	-	10315	14059

**HSS REAMERS**REFERENCE STANDARDS

HSS HAND REAMERS WITH PARALLEL SHANK
 HSS MACHINE REAMERS WITH TAPER SHANK
 HSS CHUCKING REAMERS WITH PARALLEL SHANK
 HSS CHUCKING REAMERS WITH TAPER SHANK

MM SIZE INCH SIZES
 IS : 5444 - 1978 BS 328 PART-4
 IS : 5445 - 1978 1983
 IS : 5446 - 1978
 IS : 5447 - 1978

SIZE		PRICE Rs. /PIECE	SIZE		PRICE Rs. /PIECE
DIAMETER		HAND REAMER LONG FLUTED MACHINE REAMER CHUCKING REAMER	DIAMETER		HAND REAMER LONG FLUTED MACHINE REAMER CHUCKING REAMER
MM	INCH		MM	INCH	
4.00*	-	981	24.00	-	5232
(4.76)	3/16	981	25.00*	-	5247
4.50	-	981	(25.40)	1	5346
5.00	-	981	26.00	-	6480
(5.56)	7/32	981	(26.99)	1.1/16	7420
6.00*	-	1143	27.00	-	7420
(6.35)	1/4	1143	28.00	-	7420
7.00	-	1143	(28.57)	1.1/8	7420
(7.14)	9/32	1143	29.00	-	7867
(7.94)	5/16	1302	30.00	-	8487
8.00*	-	1302	(30.16)	1.3/16	8487
(8.73)	11/32	1368	31.00	-	9370
9.00	-	1368	(31.75)	1.1/4	9370
(9.52)	3/8	1487	32.00	-	9370
10.00*	-	1648	33.00	-	10647
(10.32)	13/32	1648	(33.34)	1.5/16	10647
11.00	-	1846	34.00	-	11952
(11.11)	7/16	1846	(34.92)	1.3/8	13076
(11.91)	15/32	1924	35.00	-	13076
12.00*	-	1924	36.00	-	13076
(12.70)	1/2	1990	(36.51)	1.7/16	13185
13.00	-	2427	37.00	-	14361
(13.49)	17/32	2427	38.00	-	14361
14.00*	-	2427	(38.10)	1.1/2	14361
(14.29)	9/16	2427	39.00	-	15880
15.00	-	2441	(39.69)	1.9/16	17338
(15.08)	19/32	2441	40.00	-	17338
(15.87)	5/8	2441	41.00	-	17505
16.00*	-	2441	(41.27)	1.5/8	17505
(16.67)	21/32	2819	42.00	-	20617
17.00*	-	2819	(42.86)	1.11/16	20617
(17.46)	11/16	2819	43.00	-	20617
18.00*	-	3016	44.00	-	20617
(18.26)	23/32	3200	(44.45)	1.3/4	20617
19.00	-	3200	45.00	-	24154
(19.05)	3/4	3200	46.00	-	24154
20.00*	-	3578	47.00	-	26091
(20.64)	13/16	3647	(47.62)	1.7/8	28021
21.00	-	4039	48.00	-	28021
22.00	-	4039	49.00	-	28021
(22.22)	7/8	4039	(49.21)	1.15/16	28021
23.00	-	4726	50.00	-	28021
(23.81)	15/16	5232	(50.80)	2	28021

HSS TAPER PIN REAMERS (TAPER 1 IN 50)

HAND - IS : 5881 -1984

MACHINE - IS : 5918 - 1984

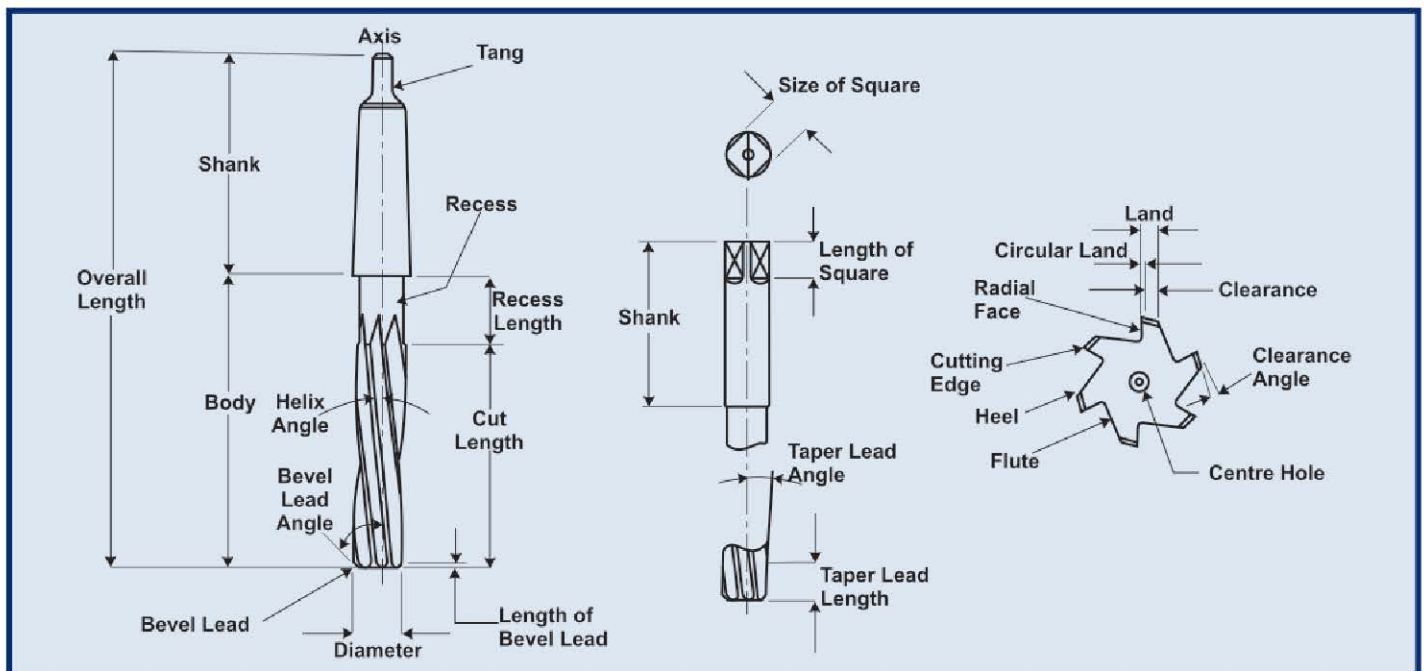
DIA	PRICE Rs. /PIECE		DIA	PRICE Rs./PIECE		DIA	PRICE Rs. /PIECE	
MM	HAND	MACHINE	MM	HAND	MACHINE	MM	HAND	MACHINE
6	2126	2126	16	4825	4825	40	21041	21041
8	2879	2879	20	7506	7506	50	36468	36468
10	3183	3183	25	7955	7955	-	-	-
12	3851	3851	30	10716	10716	-	-	-
14	4335	4335	32	11754	11754	-	-	-

HSS TAPER PIN REAMERS (TAPER 1 IN 48)

HAND/ MACHINE - BS 328 (PART 4) 1983

DIA	PRICE Rs. /PIECE		DIA	PRICE Rs. /PIECE		DIA	PRICE Rs. /PIECE	
INCH	HAND	MACHINE	INCH	HAND	MACHINE	INCH	HAND	MACHINE
1/4	1979	1979	3/8	2761	2761	9/16	4167	4167
9/32	2163	2163	13/32	3093	3093	5/8	4643	4643
5/16	2402	2402	7/16	3183	3183	3/4	5847	5847
11/32	2707	2707	1/2	3612	3612	7/8	7223	7223

Reamer Terms - General Features



HIGH SPEED STEEL TAPER SHANK CORE DRILLS



Specifications conform to : IS 5366 - 1978, ISO 7079 - 1981
DIN 343 - 1981, BS 328 - 1959
Dimensions in mm / Inch

Size		PRICE Rs. /PIECE
mm	inch	
14.00		2137
14.29	9/16	2198
15.00		2293
15.08	19/32	2293
15.87	5/8	2316
16.00		2316
16.67	21/32	2471
17.00		2471
17.46	11/16	2668
18.00		2870
18.26	23/32	2870
19.00		3281
19.05	3/4	3281
19.84	25/32	3294
20.00		3294
20.64	13/16	3524
21.00		3524
21.43	27/32	3724
22.00		3724
22.22	7/8	3951
23.00		4183
23.02	29/32	4183
23.81	15/16	4565
24.00		4771
24.61	31/32	4771
25.00		5544
25.40	1	5544
26.00		5982
26.19	1.1/32	5982
26.99	1.1/16	6604
27.00		6604
27.78	1.3/32	6855
28.00		7261
28.57	1.1/8	7264
29.00	1.5/32	7595
29.37		7595
30.00	1.3/16	8075
30.16	1.7/32	8075
30.96		8381
31.00		9423

Size		PRICE Rs. /PIECE
mm	inch	
31.75	1.1/4	9837
32.00		10778
32.54	1.9/32	10778
33.00		11001
33.34	1.5/16	11001
34.00		11998
34.13	1.11/32	11998
34.92	1.3/8	12748
35.00		12748
35.72	1.13/32	13711
36.00		13711
36.51	1.7/16	14464
37.00		14464
37.31	1.15/32	14875
38.00		15913
38.10	1.1/2	15913
39.00		17451
39.69	1.9/16	17451
40.00		17451
41.00		19234
41.27	1.5/8	19234
42.00		19804
42.07	1.21/32	19804
42.86	1.11/16	20440
43.00		20440
44.00		21605
44.45	1.3/4	21605
45.00		22368
45.24	1.25/32	22368
46.00		23197
46.04	1.13/16	23197
47.00		24105
47.62	1.7/8	25348
48.00		25348
49.00		27067
49.21	1.15/16	27067
50.00		29126
50.80	2	32206
51.00		32485
52.00		35776

Size		PRICE Rs. /PIECE
mm	inch	
52.39	2.1/16	35776
53.00		41792
53.97	2.1/8	41792
54.00		41792
55.00		43804
55.56	2.3/16	43804
56.00		45660
57.00		45660
57.15	2.1/4	45660
58.00		49896
58.74	2.5/16	49896
59.00		50819
60.00		50819
60.32	2.3/8	50819
61.00		54158
61.91	2.7/16	54158
62.00		54158
63.00		59605
63.50	2.1/2	59605
64.00		65082
65.00		65082
65.09	2.9/16	65082
66.00		68238
66.67	2.5/8	68238
67.00		71086
68.00		74539
68.26	2.11/16	74539
69.00		78180
69.85	2.3/4	79645
70.00		79645
71.00		81223
71.44	2.13/16	81223
72.00		84935
73.00		88084
73.02	2.7/8	88084
74.00		91415
74.61	2.15/16	91415
75.00		94784
76.00		99335
76.20	3	99335

MIRANDA Annular Cutters (HSS & TCT)



SIZE RANGE :

Size : 11.0 mm To 60.0 mm

Depth of Cut : 50.00 mm

Special size / shank on request

Coating on request

FEATURE :

- | | | |
|-------------------------------|---|--|
| Reduced Torque and thrust | → | Due to peripheral cutting |
| Minimizes kerf area | → | Unique center free design |
| Reducing HP and feed pressure | → | Alternating tooth geometry |
| Faster feed, less friction | → | Evenly distributes chip load to multiple cutting edges |
| Longer tool life | → | Special Heat treatment / surface treatment |
| Single pass-cutting, | → | No pre drilling required |
| High accuracy | → | Less Drifting- Precise Center locating |
| Smooth hole finish | → | Evenly distributes chip load to multiple cutting edges |

ANNULAR CUTTER



SIZE DIA. MM	HSS M2 - PRICE RS. / PIECE		HSS M42 LENGTH 50 MM	TCT LENGTH 50 MM
	LENGTH 25 MM	LENGTH 50 MM		
12-13	-	-	-	3816
14-15	-	-	-	3816
16*-17	1911	2402	3122	3816
18-19	1993	2494	3242	3816
20*-21	2095	2596	3375	3816
22*-23	2494	2954	3840	3936
24*-25	2586	3127	4066	3936
26*-27	2739	3301	4291	4444
28-29	2954	3597	4677	4444
30*-31	3097	3778	4912	4444
32*-33	3240	4037	5248	5277
34-35	3413	4303	5593	5277
36-37	3873	4875	6337	6002
38-39	4149	5171	6723	6002
40-41	4548	5662	7360	6002
42-43	4916	6122	7958	7330
44-45	5396	6725	8742	7330
46-47	5805	7226	9393	7910
48-49	6122	7634	9925	7910
50-51	6541	8615	11200	8296
52	6970	8851	11506	8887
53	7185	9137	11878	9262
54	7410	9443	12276	9443
55	7589	9699	12608	9673
56	7859	9995	12994	10095
57	8145	10235	13306	10409
58	8350	10516	13671	10542
59	8605	10751	13977	10723
60	8866	11058	14375	10946

EJECTOR PIN

SIZE	TYPE	PRICE RS./ PEICE
6.34 X 73	CL 25	284
6.34 X 98	CL 50	384

HSS TAPS



PRODUCT RANGE

Types

- Hand & Machine, Straight Flute, Spiral, Spiral Point, Nib, Nut, Ring Taps

Range

- 2.0 mm to 140.0 mm

Grade of Steel

- M2, M35 & M42

Product Standard

- ISO 529, IS 6175, BS 949, DIN, ANSI, JIS

Thread Form

- Metric, BSW, BSF, BA, BSP, UNF, UNC, NPT...

APPLICATIONS

- Steel
- Stainless Steel
- Forged Steel
- Titanium & Nickel Alloy
- Aluminium

INDUSTRIES

- Automotive & Auto components
- Aerospace
- Heavy Engineering
- Power & Energy
- Railways
- Electronics & Electrical

HSS TAPS

HSS GROUND THREAD HAND TAPS - COARSE PITCH										IS 6175 - PART 1,2&3 -1992			
HSS GROUND THREAD MACHINE TAPS - COARSE PITCH										IS 6175 - PART 4 -1991			
HSS GROUND THREAD NUT TAPS - COARSE PITCH										IS 6175 - PART 5 -1992			
Hand & Short Machine Taps										Long Shank Machine Taps			Nut Taps
Code	Size	IS 6175 Part 1		IS 6175 - Part 2			IS 6175 - Part 3			IS 6175 - Part 4			IS 6175 Part 5
		WTC_M	WTCPM	WHC_M	WHCPM	WHCTM	WUC_M	WUCPM	WUCTM	WMC_M	WMCPM	WMCTM	WVCNM
		Str. Flute	Spiral Point	Str. Flute	Spiral Point	Spiral Flute	Str. Flute	Spiral Point	Spiral Flute	Type A,C,D	Type B	Spiral	Nut Tap
Price Each Rs.													
010253A	M1.0 x 0.25	790	-	-	-	-	-	-	-	-	-	-	-
110253A	M1.1 x 0.25	790	-	-	-	-	-	-	-	-	-	-	-
120253A	M1.2 x 0.25	790	-	-	-	-	-	-	-	-	-	-	-
140303A	M1.4 x 0.30	672	-	-	-	-	-	-	-	-	-	-	-
160353A	M1.6 x 0.35	672	-	-	-	-	-	-	-	-	-	-	-
180353A	M1.8 x 0.35	672	-	-	-	-	-	-	-	-	-	-	-
020403A	M2.0 x 0.40	482	564	-	-	-	-	-	-	-	-	-	-
220453A	M2.2 x 0.45	482	564	-	-	-	-	-	-	-	-	-	-
230453A	M2.3 x 0.40	482	564	-	-	-	-	-	-	-	-	-	-
250453A	M2.5 x 0.45	482*	564	-	-	-	-	-	-	-	-	-	-
260453A	M2.6 x 0.45	482	564	-	-	-	-	-	-	-	-	-	-
030503A	M3.0 x 0.50	-	-	290*	364*	396*	326	386	448	640	755	530	-
350603A	M3.5 x 0.60	-	-	290	364	396	326	386	448	640	755	530	-
040703A	M4.0 x 0.70	-	-	290*	364*	396*	326	386	448	640	755	530	-
450753A	M4.5 x 0.75	-	-	310	384	416	346	410	462	470	560	564	-
050803A	M5.0 x 0.80	-	-	310*	384*	416*	346	410	462	458	560	564	-
061003A	M6.0 x 1.00	-	-	310*	384*	424*	346	410	470	490	598	616	640
081253A	M8.0 x 1.25	-	-	373*	444*	470*	416	506	580	533	650	670	724
101503A	M10 x 1.50	-	-	450*	556*	591*	478	586	660	683	818	836	962
121753A	M12 x 1.75	-	-	-	-	-	706	852	939	970	1148	1208	1479
142003A	M14 x 2.00	-	-	-	-	-	1030	1246	1426	1410	1670	1834	2047
162003A	M16 x 2.00	-	-	-	-	-	1030	1246	1426	1410	1670	1834	2047
182503A	M18 x 2.50	-	-	-	-	-	1558	1869	2077	2070	2440	2630	3128
202503A	M20 x 2.50	-	-	-	-	-	1990	2384	2769	2548	2998	3134	4186
222503A	M22 x 2.50	-	-	-	-	-	2132	2556	2870	2850	3360	3134	4240
243003A	M24 x 3.00	-	-	-	-	-	2374	2852	3118	3090	3645	3960	4813
253003A	M25 x 3.00	-	-	-	-	-	2900	3775	-	3875	-	-	5758
273003A	M27 x 3.00	-	-	-	-	-	3600	4320	4654	4450	-	-	7393
303503A	M30 x 3.50	-	-	-	-	-	4026	4836	5202	5115	-	-	9317
333503A	M33 x 3.50	-	-	-	-	-	4906	6353	7009	6005	-	-	10275
364003A	M36 x 4.00	-	-	-	-	-	6830	8196	8836	8505	-	-	13303
394003A	M39 x 4.00	-	-	-	-	-	8026	9620	-	9450	-	-	15852
424503A	M42 x 4.50	-	-	-	-	-	9350	11215	-	12190	-	-	18881
454503A	M45 x 4.50	-	-	-	-	-	12592	15110	-	14460	-	-	22774
485003A	M48 x 5.00	-	-	-	-	-	13430	16115	-	16280	-	-	26495
525003A	M52 x 5.00	-	-	-	-	-	16858	20225	-	18840	-	-	-
565503A	M56 x 5.50	-	-	-	-	-	23992	28785	-	26380	-	-	-
605503A	M60 x 5.50	-	-	-	-	-	25286	30340	-	28610	-	-	-
646003A	M64 x 6.00	-	-	-	-	-	26598	31920	-	32290	-	-	-
686003A	M68 x 6.00	-	-	-	-	-	33180	39815	-	44990	-	-	-
726003A	M72 x 6.00	-	-	-	-	-	44534	-	-	-	-	-	-
766003A	M76 x 6.00	-	-	-	-	-	54464	-	-	-	-	-	-
806003A	M80 x 6.00	-	-	-	-	-	65788	-	-	-	-	-	-
856003A	M85 x 6.00	-	-	-	-	-	81248	-	-	-	-	-	-
906003A	M90 x 6.00	-	-	-	-	-	101404	-	-	-	-	-	-
956003A	M95 x 6.00	-	-	-	-	-	127674	-	-	-	-	-	-
100603A	M100 x 6.00	-	-	-	-	-	157766	-	-	-	-	-	-

A set of Non-serial taps consists of Taper, Second, Bottoming

IS 6175 Part 1: Design will be supplied upto and including 2.6 mm

IS 6175 Part 2: Design will be supplied from 3 mm to 10 mm including 10 mm

IS 6175 Part 3: Design will be supplied above 10 mm.

Type"A" - 5 Deg. Taper with long taper lead

Type"B" - 10 Deg. Taper lead angle with spiral point

Type"C" - 20 Deg. Taper angle with short lead

Type"D" - 10 Deg. Taper angle without spiral point

Items marked with * are stockable items. Remaining all items required minimum order value of Rs. 15000/- NETT OR

1mm to 6mm 100 Nos.

7mm to 16mm 50 Nos.

18mm to 24mm 10 Nos.

26mm to 36 mm 05 Nos. & corresponding inch size.

The tap sizes up to M6 will be supplied with male centers on both sides. Above M6 taps will be supplied with female centers on both sides.

Serial Taps at 5% extra

M35 Material 35% extra

Left Hand Taps at 25% extra

M42 Material 55% extra



HSS GROUND THREAD HAND TAPS - FINE PITCH **IS 6175 - PART 1,2&3 -1992**
HSS GROUND THREAD MACHINE TAPS - FINE PITCH **IS 6175 - PART 4 -1991**
HSS GROUND THREAD NUT TAPS - FINE PITCH **IS 6175 - PART 5 -1992**

		Hand & Short Machine Taps							Long Shank Machine Taps		Nut Taps	
Code	Size	IS 6175 Part 1	IS 6175 - Part 2				IS 6175 - Part 3			IS 6175 - Part 4		IS 6175 Part 5
		WTF_M	WHF_M	WHFPM	WHFTM	WUF_M	WUFPM	WUFTM	WMF_M	WMF_M	WVFNM	
		Str. Flute	Str. Flute	Spiral Point	Spiral Flute	Str. Flute	Spiral Point	Spiral Flute	Type A,C,D	Type B	Nut Tap	
Price Each Rs.												
010023A	M1.0 x 0.20	830	-	-	-	-	-	-	-	-	-	
110203A	M1.1 x 0.20	830	-	-	-	-	-	-	-	-	-	
140203A	M1.4 x 0.20	754	-	-	-	-	-	-	-	-	-	
160203A	M1.6 x 0.20	754	-	-	-	-	-	-	-	-	-	
180203A	M1.8 x 0.20	754	-	-	-	-	-	-	-	-	-	
020253A	M2.0 x 0.25	638	-	-	-	-	-	-	-	-	-	
222503A	M2.2 x 0.25	638	-	-	-	-	-	-	-	-	-	
250303A	M2.5 x 0.30	638	-	-	-	-	-	-	-	-	-	
260303A	M2.6 x 0.30	638	-	-	-	-	-	-	-	-	-	
030353A	M3.0 x 0.35	-	418	520	562	434	496	554	552	702	-	
350353A	M3.5 x 0.35	-	418	520	562	434	496	554	588	654	-	
040503A	M4.0 x 0.50	-	434	520	526	434	496	554	552	628	-	
0450503A	M4.5 x 0.50	-	403	500	542	440	508	554	872	976	-	
050503A	M5.0 x 0.50	-	424	506	562	442	508	554	558	654	-	
060753A	M6.0 x 0.75	-	424	506	538	442	534	554	558	654	754	
070753A	M7.0 x 0.75	-	488	-	656	504	608	630	640	754	925	
080753A	M8.0 x 0.75	-	488	-	656	504	608	630	640	754	841	
081003A	M8.0 x 1.00	-	442*	530	572	488	550	630	590	700	841	
091003A	M9.0 x 1.00	-	548*	698	680	542	626	712	758	894	841	
101003A	M10 x 1.00	-	498*	610	680	542	626	712	738	822	1105	
101253A	M10 x 1.25	-	498*	610	655	542	626	712	738	832	1105	
121003A	M12 x 1.00	-	-	-	-	830	940	1108	1062	1250	1730	
121253A	M12 x 1.25	-	-	-	-	830*	940	1061	1062	1250	1730	
121503A	M12 x 1.50	-	-	-	-	830*	940	1061	1062	1250	1730	
141003A	M14 x 1.00	-	-	-	-	1068	1280	1521	1372	1624	2581	
141253A	M14 x 1.25	-	-	-	-	1090*	1314	1489	1400	1652	2581	
141503A	M14 x 1.50	-	-	-	-	1034	1270	1419	1316	1554	2581	
161003A	M16 x 1.00	-	-	-	-	1065*	1312	1489	1478	1746	2581	
161503A	M16 x 1.50	-	-	-	-	1035	1270	1419	1316	1670	2581	
181003A	M18 x 1.00	-	-	-	-	1945	2174	2317	2414	2848	3654	
181503A	M18 x 1.50	-	-	-	-	1775*	1985	2317	2215	2818	3654	
182003A	M18 x 2.00	-	-	-	-	1945	2174	2317	2414	2848	3654	
201503A	M20 x 1.50	-	-	-	-	2245	2506	2958	2890	3414	4688	
202003A	M20 x 2.00	-	-	-	-	2235	2890	2958	3184	4040	4688	
221503A	M22 x 1.50	-	-	-	-	2450	2732	3178	3000	3542	4978	
222003A	M22 x 2.00	-	-	-	-	2635	3170	3178	3233	4098	4978	
241503A	M24 x 1.50	-	-	-	-	2680	2990	3517	3348	3952	5915	
242003A	M24 x 2.00	-	-	-	-	2675	3445	3517	3528	4476	5915	
251503A	M25 x 1.50	-	-	-	-	2868	3665	-	4269	5058	6651	
252003A	M25 x 2.00	-	-	-	-	2840	3665	-	4269	5058	-	
261503A	M26 x 1.50	-	-	-	-	2990	3746	-	4388	5180	-	
262003A	M26 x 2.00	-	-	-	-	2990	3746	-	4388	5180	-	
271503A	M27 x 1.50	-	-	-	-	3995	4820	-	5262	6400	-	
272003A	M27 x 2.00	-	-	-	-	3995	4820	-	5262	6400	-	
281503A	M28 x 1.50	-	-	-	-	4008	5012	-	5672	7790	-	
282003A	M28 x 2.00	-	-	-	-	4008	5012	-	5672	7790	-	
301503A	M30 x 1.50	-	-	-	-	4497	5405	-	5918	7674	-	
302003A	M30 x 2.00	-	-	-	-	4497	5411	-	5918	7674	-	
303003A	M30 x 3.00	-	-	-	-	4506	5411	-	5918	7674	-	
321503A	M32 x 1.50	-	-	-	-	4790	5932	-	6536	8456	-	
322003A	M32 x 2.00	-	-	-	-	4790	5932	-	6536	8456	-	

Hand & Short Machine Taps						Long Shank Machine Taps			Nut Taps		
Code	Size	IS 6175 Part 1	IS 6175 - Part 2		IS 6175 - Part 3			IS 6175 - Part 4		IS 6175 Part 5	
		WTF_M	WHF_M	WHFPM	WHFTM	WUF_M	WUFPM	WUFTM	WMF_M	WMF_M	WVFNM
		Str. Flute	Str. Flute	Spiral Point	Spiral Flute	Str. Flute	Spiral Point	Spiral Flute	Type A,C,D	Type B	Nut Tap
Price Each Rs.											
331503A	M33 x 1.50	-	-	-	-	5496	6874	-	7156	8921	-
332003A	M33 x 2.00	-	-	-	-	5496	6874	-	7156	8921	-
333003A	M33 x 3.00	-	-	-	-	5496	6874	-	7156	8921	-
351503A	M35 x 1.50	-	-	-	-	7638	9508	-	9855	12417	-
361503A	M36 x 1.50	-	-	-	-	7635	9508	-	9855	12417	-
362003A	M36 x 2.00	-	-	-	-	7635	9508	-	9855	12417	-
363003A	M36 x 3.00	-	-	-	-	7625	9508	-	9855	12417	-
391503A	M39 x 1.50	-	-	-	-	9515	-	-	-	-	-
392003A	M39 x 2.00	-	-	-	-	9515	-	-	-	-	-
393003A	M39 x 3.00	-	-	-	-	9515	-	-	-	-	-
421503A	M42 x 1.50	-	-	-	-	10575	-	-	-	-	-
422003A	M42 x 2.00	-	-	-	-	10575	-	-	-	-	-
423003A	M42 x 3.00	-	-	-	-	10575	-	-	-	-	-
424003A	M42 x 4.00	-	-	-	-	10575	-	-	-	-	-
451503A	M45 x 1.50	-	-	-	-	14660	-	-	-	-	-
452003A	M45 x 2.00	-	-	-	-	14660	-	-	-	-	-
453003A	M45 x 3.00	-	-	-	-	14660	-	-	-	-	-
454003A	M45 x 4.00	-	-	-	-	14660	-	-	-	-	-
481503A	M48 x 1.50	-	-	-	-	14242	-	-	-	-	-
482003A	M48 x 2.00	-	-	-	-	14242	-	-	-	-	-
483003A	M48 x 3.00	-	-	-	-	14242	-	-	-	-	-
484003A	M48 x 4.00	-	-	-	-	14242	-	-	-	-	-
501503A	M50 x 1.50	-	-	-	-	16840	-	-	-	-	-
502003A	M50 x 2.00	-	-	-	-	16840	-	-	-	-	-
503003A	M50 x 3.00	-	-	-	-	16840	-	-	-	-	-
521503A	M52 x 1.50	-	-	-	-	18980	-	-	-	-	-
522003A	M52 x 2.00	-	-	-	-	18980	-	-	-	-	-
523003A	M52 x 3.00	-	-	-	-	18980	-	-	-	-	-
524003A	M52 x 4.00	-	-	-	-	18980	-	-	-	-	-
561503A	M56 x 1.50	-	-	-	-	24764	-	-	-	-	-
562003A	M56 x 2.00	-	-	-	-	24764	-	-	-	-	-
563003A	M56 x 3.00	-	-	-	-	24764	-	-	-	-	-
564003A	M56 x 4.00	-	-	-	-	24764	-	-	-	-	-
601503A	M60 x 1.50	-	-	-	-	27630	-	-	-	-	-
602003A	M60 x 2.00	-	-	-	-	27630	-	-	-	-	-
603003A	M60 x 3.00	-	-	-	-	28254	-	-	-	-	-
604003A	M60 x 4.00	-	-	-	-	28254	-	-	-	-	-
641503A	M64 x 1.50	-	-	-	-	29438	-	-	-	-	-
642003A	M64 x 2.00	-	-	-	-	29438	-	-	-	-	-
643003A	M64 x 3.00	-	-	-	-	29968	-	-	-	-	-
644003A	M64 x 4.00	-	-	-	-	29968	-	-	-	-	-
681503A	M68 x 1.50	-	-	-	-	37276	-	-	-	-	-
682003A	M68 x 2.00	-	-	-	-	37276	-	-	-	-	-
683003A	M68 x 3.00	-	-	-	-	37752	-	-	-	-	-
684003A	M68 x 4.00	-	-	-	-	37752	-	-	-	-	-
724003A	M72 x 4.00	-	-	-	-	41562	-	-	-	-	-

A set of Non-serial taps consists of Taper, Bottoming
 IS 6175 Part 1: Design will be supplied upto and including 2.6 mm
 IS 6175 Part 2: Design will be supplied from 3 mm to 10 mm including 10 mm
 IS 6175 Part 3: Design will be supplied above 10 mm.

Type"A" - 5 Deg. Taper with long taper lead
 Type"B" - 10 Deg. Taper lead angle with spiral point
 Type"C" - 20 Deg. Taper angle with short lead
 Type"D" - 10 Deg. Taper angle without spiral point

Serial Taps at 5% extra M35 Material 35% extra
 Left Hand Taps at 25% extra. M42 Material 55% extra
 The tap sizes up to M6 will be supplied with male centers on both sides. Above M6 taps will be supplied with female centers on both sides.

Items marked with * are stockable items. Remaining all items required minimum order value of Rs. 15000/- Nett OR
 1mm to 6mm 100 Nos. 7mm to 16mm 50 Nos. 18mm to 24mm 10 Nos. 26mm to 36 mm 05 Nos.



HSS HAND TAPS - BSW(WTK_) & BSF (WTL_)				BS949 (Part 1) - 1992		
Part Code		Size	Straight Flute	Spiral Point	Spiral flute	Nut taps
BSW(WTK_)	BSF(WTL_)					
I018406A*	-	1/8"	302*	364	428	-
I316246A*	I316326A	3/16"	302*	380	409	-
I014206A*	I014266A	1/4"	317*	380	451	662
I516186A*	I516226A	5/16"	355*	446	474	722
I038166A*	I038206A	3/8"	434*	534	583	878
I716146A*	I716186A	7/16"	558*	692	772	1182
I012126A*	I012166A	1/2"	710*	852	937	1474
I916126A	I916166A	9/16"	1034	1246	1441	2047
I058116A*	I058146A	5/8"	1034*	1246	1441	2047
I116116A	I116146A	11/16"	1510	1862	2035	2632
I034106A*	I034126A	3/4"	1570*	1890	2092	3134
I078096A	I078116A	7/8"	2170	2600	2870	4238
I100086A*	I100106A	1"	2720*	3268	3452	5523
I118076A	I118096A	1.1/8"	3654	4384	-	7437
I114076A*	I114096A	1.1/4"	4405*	5286	-	11061
I138066A	I138086A	1.3/8"	5682	6820	-	13270
I112066A	I112086A	1.1/2"	6830	8190	-	-

HSS HAND TAPS - UNC(WTG_) & UNF(WTJ_)				BS949 (Part 1) - 1992		
Part Code		Size	Straight Flute	Spiral Point	Spiral flute	Nut taps
UNC(WTG_)	UNF(WTJ_)					
-	N000806A	No 0	710	-	-	-
N001646A	N001726A	No 1	710	-	-	-
N002566A	N002646A	No 2	500	-	-	-
N004406A	N004486A	No 4	340	-	-	-
N005406A	N005446A	No 5	340	410	409	-
N006326A	N006406A	No 6	340	410	409	-
N008326A	N008366A	No 8	340	410	409	-
N010246A	N010326A	No 10	340	410	409	-
N012246A	N012286A	No 12	420	500	440	-
I018286A	I018406A	1/8"	302	364	428	-
I316246A	I316326A	3/16"	302	380	409	-
I014206A*	I014286A	1/4"	314	386	451	662
I516186A*	I516246A	5/16"	356	446	474	722
I038166A*	I038246A	3/8"	434	534	583	878
I716146A	I716206A	7/16"	558	692	772	1182
I012136A*	I012206A	1/2"	710	852	937	1474
I916126A	I916186A	9/16"	1034	1246	1441	2047
I058116A*	I058186A*	5/8"	1034	1246	1441	2047
I116116A	I116116A	11/16"	1510	1862	2035	2632
I034106A*	I034166A	3/4"	1570	1890	2092	3134
I078096A	I078146A	7/8"	2170	2600	2870	4238
I100086A*	I100126A*	1"	2720	3268	3452	5523
I118076A	I118126A	1.1/8"	3654	4382	-	7437
I114076A	I114126A	1.1/4"	4404	5284	-	11061
I138066A	I138126A	1.3/8"	5682	6820	-	13270
I112066A	I112126A	1.1/2"	6830	8188	-	-

• Serial Taps at 5% extra / Left Hand Taps at 25% extra

• M35 Material 35% extra / M42 Material 55% extra

HSS HAND TAPS - BSCy (Code : WHQ_)			BS949 (Part II) - 1951		
Code	Size	Straight flute	Code	Size	Straight flute
Price Each Rs.					
N11SWG6A	14 Swg	550	I516306A	5/16"	470
N10SWG6A	10 Swg	292	I716266A	7/16"	708
N09SWG6A	9 Swg	292	I012266A	1/2"	886
I532326A	5/32"	342	I916206A	9/16"	1406
I316326A	3/16"	342	I100246A	1"	2788
I732266A	7/32"	366	0167096A	1.370"	5874
I014266A	1/4"	386	0137596A	1.375"	5874

- The manufacturing range of BSCy taps is 14 Swg upwards.
- M35 Material 35% extra • M42 Material 55% extra

HSS HAND TAPS - BA (Code : WTM_)				BS949 (Part 1) - 1992			
Code	Size	Straight flute	Spiral point	Code	Size	Straight flute	Spiral point
Price Each Rs.							
N0BA106A	No. 0	374	448	N8BA436A	No. 8	613	590
N1BA906A	No. 1	374	448	10BA356A	No. 10	726	850
N2BA816A	No. 2	330	404	11BA316A	No. 11	1134	1362
N3BA736A	No. 3	330	404	12BA286A	No. 12	1134	1362
N4BA666A	No. 4	330	404	13BA256A	No. 13	1190	-
N5BA596A	No. 5	330	404	14BA236A	No. 14	1190	-
N6BA536A	No. 6	364	404	-	-	-	-

- All the tap sizes will be supplied with male centers on both sides.

HSS PIPE TAPS				BS949 (Part II) - 1969			
Parallel Thread			Taper Thread				
Code	Size	WHP_	NPS	WHU_	WHR_	WHS_	WHT_
		BSP		NPSF	BSPT	NPT	NPTF
Price Each Rs.							
I018286A	1/8"	467*	552	664	682	700	734
I014196A	1/4"	728*	958	1168	1190	1224	1380
I038196A	3/8"	1096*	1228	1482	1530	1556	1800
I012146A	1/2"	1600*	1786	2148	2290	2340	2630
I058146A	5/8"	1815	-	-	-	-	-
I034146A	3/4"	2390*	2630	3142	3395	3466	3880
I078146A	7/8"	3035	-	-	-	-	-
I001116A	1"	3769*	4442	5316	5280	5412	6044
I114116A	1.1/4"	5814	6866	8240	7556	7728	8910
I112116A	1.1/2"	7268	8564	10272	9242	9588	-
I134116A	1.3/4"	9090	10682	12814	-	-	-
I200116A	2"	13266	15308	18366	16924	17330	-
I214116A	2.1/4"	22629	-	-	-	-	-
I212116A	2.1/2"	32287	-	-	49356	49356	-
I234116A	2.3/4"	36300	-	-	-	-	-
I300116A	3"	40913	-	-	64234	64234	-
I312116A	3.1/2"	53768	-	-	85764	85764	-
I400116A	4"	67665	-	-	108210	108210	-

- Items marked with * are stockable items. Remaining all items required Minimum order value of Rs. 15000/- Nett. From Size 1/8" to 5/8" 50 Nos. each 3/4" to 1" 10 Nos. each 1.1/4" to 2.1/4" 5 Nos each

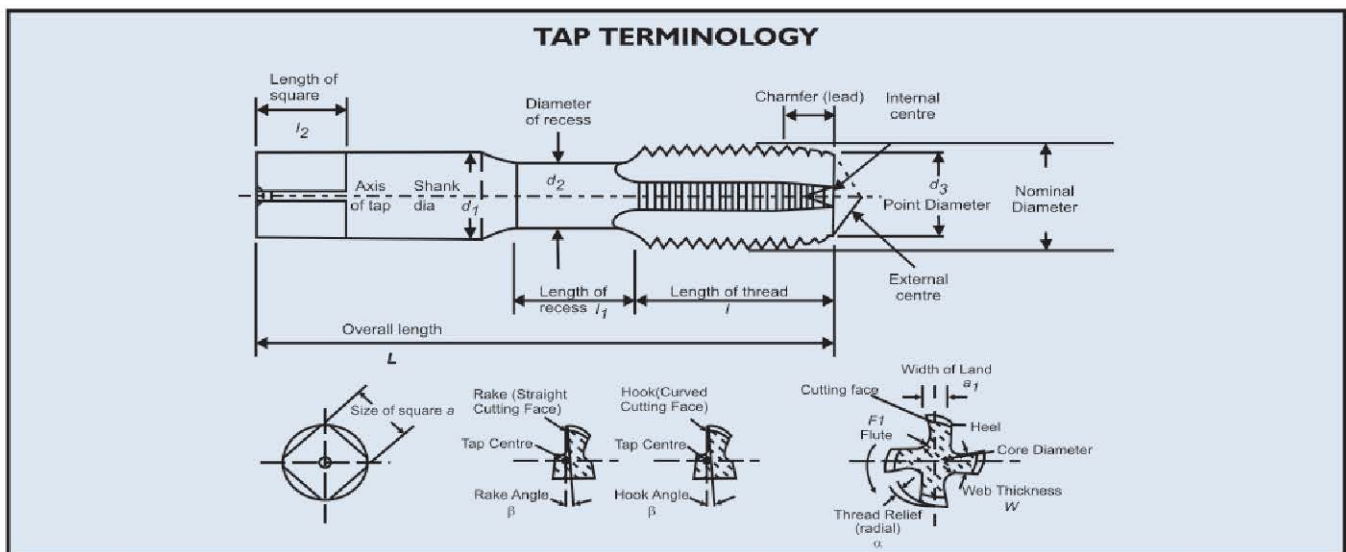
HSS NIB TAPS TO OUR STANDARD - (Code : XNC_)						Price Each Rs.	
	Size	Straight flute		Code	Size	Straight flute	
		M35	GV 3			M35	GV3
M030503D	M3 x 0.5	526	634	M081253D	M8 x1.25	685	833
M040703D	M4 x 0.7	537	650	M101503D	M10 x1.5	866	1024
M050803D	M5 x 0.8	570	672	M121753D	M12 x1.75	1019	1167
M061003D	M6 x 1.0	633	672	-	-	-	-

- The above taps will be supplied with TiCN / TiAlN Coating
- The tap sizes upto M6" will be supplied with malecenters on both sides, above M6 taps will be supplied with female centers on both sides
- The tap sizes up to M6 will be supplied with 3 flutes, above M6 will be supplied with 5 flute. Any other style of Nib taps can be offered on specific request.
- **Items marked with * are stockable items. Remaining all items required Minimum order value of Rs. 15000/ Nett. or 5 Nos. for size whichever is higher.**
- The manufacturing range of Nib taps is M3 upwards , for the sizes above M12, quotation will be given on Specific request



UN TAPS (WTV_)			BS949 (Part1) -1992		
Part Code	Size	Price Each Rs.	Part Code	Size	Price Each Rs.
I118086A	1.1/8" X 8	3654	I134086A	1.3/4" X 8	9344
I114086A	1.1/4" X 8	4404	I178086A	1.7/8" X 8	11294
I138086A	1.3/8" X 8	5682	I200086A	2" X 8	14728
I112086A	1.1/2" X 8	6830	I214086A	2.1/4" X 8	20288
I158086A	1.5/8" X 8	7986	I212086A	2.1/2" X 8	25788

HSS GROUND THREAD HAND TAPS-COARSE PITCH - HELICOIL (WHR_)			IS 6175 : 1992		
Part Code	Size	Price Each Rs.	Part Code	Size	Price Each Rs.
M030503A	M3 X 0.50	290	M142003A	M14 X 2.00	1558
M040704A	M4 X 0.70	308	M162003A	M16 X 2.00	1558
M050805A	M5 X 0.80	370	M182503A	M18 X 2.50	1990
M061006A	M6 X 1.00	370	M202503A	M20 X 2.50	2132
M081253A	M8 X 1.25	450	M222503A	M22 X 2.50	2374
M101503A	M10X 1.50	706	M243003A	M24 X 3.00	3600
M121753A	M12X 1.75	1030	M273003A	M27 X 3.00	4026
		-	M303503A	M30 X 3.50	4706


- Taps with different coatings can be provided with additional cost at actuals.
- Taps for various application like cast iron, Aluminium, Brass etc. can be supplied on demand.
- Taps of DIN 371, DIN 374, DIN 376, DIN 2184, JIS 4430 1998, ISO 529 1993 can be supplied on demand.





TUNGSTEN CARBIDE TIPPED TOOLS

ISO 1 (110) BAR TURNING TOOLS	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS. / PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
	1010	90	1004RC	1001RC	1004LC	1001LC	315
	1212	100	1014RC	1011RC	1014LC	1011LC	344
	1616	110	1034RC	1031RC	1034LC	1031LC	465
	2020	125	1054RC	1051RC	1054LC	1051LC	741
	2525	140	1074RC	1071RC	1074LC	1071LC	1111
	3232	170	1094RC	1091RC	1094LC	1091LC	1813
	4040	200	1114RC	1111RC	1114LC	1111LC	3735
	5050	240	1134RC	1131RC	1134LC	1131LC	7640
	1610	110	1024RC	1021RC	1024LC	1021LC	370
	2012	125	1044RC	1041RC	1044LC	1041LC	512
	2516	140	1064RC	1061RC	1064LC	1061LC	686
	3220	170	1084RC	1081RC	1084LC	1081LC	1171
	4025	200	1104RC	1101RC	1104LC	1101LC	1882
	5032	240	1124RC	1121RC	1124LC	1121LC	4291
	6040	280	1144RC	1141RC	1144LC	1141LC	7806
ISO 2 (111) CRANKED TURNING & FACING TOOLS	1010	90	1204RC	1201RC	1204LC	1201LC	344
	1212	100	1214RC	1211RC	1214LC	1211LC	378
	1616	110	1234RC	1231RC	1234LC	1231LC	523
	2020	125	1254RC	1251RC	1254LC	1251LC	725
	2525	140	1274RC	1271RC	1274LC	1271LC	1090
	3232	170	1294RC	1291RC	1294LC	1291LC	1876
	4040	200	1314RC	1311RC	1314LC	1311LC	3654
	5050	240	1334RC	1331RC	1334LC	1331LC	7753
	1610	110	1224RC	1221RC	1224LC	1221LC	408
	2012	125	1244RC	1241RC	1244LC	1241LC	552
	2516	140	1264RC	1261RC	1264LC	1261LC	741
	3220	170	1284RC	1281RC	1284LC	1281LC	1178
	4025	200	1304RC	1301RC	1304LC	1301LC	2109
	5032	240	1324RC	1321RC	1324LC	1321LC	4377
	6040	280	1344RC	1341RC	1344LC	1341LC	7946
ISO 3 (123) CRANKED FINISHING TOOLS	1010	90	2204RC	2201RC	2204LC	2201LC	344
	1212	100	2214RC	2211RC	2214LC	2211LC	378
	1616	110	2234RC	2231RC	2234LC	2231LC	523
	2020	125	2254RC	2251RC	2254LC	2251LC	725
	2525	140	2274RC	2271RC	2274LC	2271LC	1090
	3232	170	2294RC	2291RC	2294LC	2291LC	1876
	4040	200	2314RC	2351RC	2314LC	2351LC	3654
	5050	240	2334RC	2311RC	2334LC	2311LC	7753
	1610	110	2224RC	2221RC	2224LC	2221LC	408
	2012	125	2244RC	2241RC	2244LC	2241LC	552
							

ISO 3 (123) CRANKED FINISHING TOOLS	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS./ PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
	2516	140	2264RC	2261RC	2264LC	2261LC	741
	3220	170	2284RC	2281RC	2284LC	2281LC	1178
	4025	200	2304RC	2301RC	2304LC	2301LC	2109
	5032	240	2324RC	2321RC	2324LC	2321LC	4377
	6040	280	2344RC	2341RC	2344LC	2341LC	7946
ISO 4 (127) RECESSING TOOLS			NEUTRAL (NH)				
	1010	90	2604SC	2601SC			344
	1212	100	2614SC	2611SC			424
	1616	110	2634SC	2631SC			629
	2020	125	2654SC	2651SC			947
	2525	140	2674SC	2671SC			1544
	3232	170	2694SC	2691SC			3047
	4040	200	2714SC	2711SC			7533
	5050	240	2076SC	2731SC			13527
	1610	110	2624SC	2621SC			465
	2012	125	2644SC	2641SC			496
	2516	140	2664SC	2661SC			729
	3220	170	2684SC	2681SC			1409
	4025	200	2704SC	2701SC			2447
5032	240	2724SC	2721SC			4654	
ISO 5 (126) CRANKED FACING TOOLS			RIGHT HAND (RH)		LEFT HAND (LH)		
	1010	90	2404RC	2401RC	2404LC	2401LC	344
	1212	100	2414RC	2411RC	2414LC	2411LC	378
	1616	110	2434RC	2430RC	2434LC	2431LC	523
	2020	125	2454RC	2451RC	2454LC	2451LC	725
	2525	140	2474RC	2471RC	2474LC	2471LC	1090
	3232	170	2494RC	2491RC	2494LC	2491LC	1876
	4040	200	2426RC	2511RC	2426LC	2511LC	3654
	5050	240	2428RC	2531RC	2428LC	2531LC	7753
	1610	110	2424RC	2421RC	2424LC	2421LC	408
	2012	125	2444RC	2441RC	2444LC	2441LC	552
	2516	140	2464RC	2461RC	2464LC	2461LC	741
	3220	170	2484RC	2481RC	2484LC	2481LC	1178
	4025	200	2504RC	2501RC	2504LC	2501LC	2112
5032	240	2524RC	2521RC	2524LC	2521LC	4377	
ISO 6 (117) CRANKED KNIFE TOOLS	1010	90	2004RC	2001RC	2004LC	2001LC	344
	1212	100	2014RC	2011RC	2014LC	2011LC	378
	1616	110	2034RC	2031RC	2034LC	2031LC	523
	2020	125	2054RC	2051RC	2054LC	2051LC	725
	2525	140	2074RC	2071RC	2074LC	2071LC	1090
	3232	170	2094RC	2091RC	2094LC	2091LC	1876
	4040	200	2114RC	2111RC	2114LC	2111LC	3654

ISO 6 (117) CRANKED KNIFE TOOLS	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS./ PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
	5050	240	2134RC	2131RC	2134LC	2131LC	7753
	1610	110	2024RC	2021RC	2024LC	2021LC	408
	2012	125	2044RC	2041RC	2044LC	2041LC	552
	2516	140	2064RC	2061RC	2064LC	2061LC	741
	3220	170	2084RC	2081RC	2084LC	2081LC	1394
	4025	200	2104RC	2101RC	2104LC	2101LC	2117
	5032	240	2124RC	2121RC	2132LC	2121LC	4384
ISO 7 (150) PARTING OFF TOOLS	1010	90	5103RC	5201RC	5204LC	5201LC	412
	1212	100	5214RC	5211RC	5214LC	5211LC	467
	1616	110	5314RC	5231RC	5314LC	5231LC	519
	2020	125	5254RC	5180RC	5254LC	5180LC	573
	2525	140	5071RC	5061RC	5071LC	5061LC	769
	3232	170	5274RC	5271RC	5274LC	5271LC	1221
	1006	90	5104RC	5101RC	5104LC	5101LC	344
	1208	100	5114RC	5111RC	5114LC	5111LC	408
	1610	110	5124RC	5121RC	5124LC	5121LC	433
	2012	125	5134RC	5131RC	5134LC	5131LC	480
	2516	140	5144RC	5141RC	5144LC	5141LC	635
	3220	170	5154RC	5151RC	5154LC	5151LC	1021
	4025	200	5164RC	5161RC	5164LC	5161LC	1687
	5032	240	5166RC	5301RC	5304LC	5301LC	2388
ISO 8 (130) BORING TOOLS (SQUARE)	0808	125	2804RC	2801RC	2804LC	2801LC	634
	1010	150	2814RC	2811RC	2814LC	2811LC	679
	1212	180	2827RC	2823RC	2827LC	2823LC	741
	1616	210	2834RC	2831RC	2834LC	2831LC	890
	2020	250	2844RC	2841RC	2844LC	2841LC	1090
	2525	300	2854RC	2851RC	2854LC	2851LC	2036
	3232	355	2864RC	2861RC	2864LC	2861LC	2647
	4040	400	2874RC	2871RC	2874LC	2871LC	3845
ISO 8 (131) BORING TOOLS (ROUND)	5050	450	2878RC	2877RC	2878LC	2877LC	7062
	Ø08	125	2904RC	2901RC	2904LC	2901LC	587
	Ø10	150	2914RC	2911RC	2914LC	2911LC	634
	Ø12	180	2924RC	2921RC	2924LC	2921LC	679
	Ø16	210	2934RC	2931RC	2934LC	2931LC	781
	Ø20	250	2944RC	2941RC	2944LC	2941LC	953
	Ø25	300	2954RC	2951RC	2954LC	2951LC	1813
Ø32	355	2964RC	2961RC	2964LC	2961LC	2308	

ISO 9 (135) BORING TOOLS (SQUARE)	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS./ PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
	0808	125	3004RC	3001RC	3004LC	3001LC	634
	1010	150	3014RC	3011RC	3014LC	3011LC	679
	1212	180	3024RC	3021RC	3024LC	3021LC	741
	1616	210	3034RC	3031RC	3034LC	3031LC	890
	2020	250	3044RC	3041RC	3044LC	3041LC	1090
	2525	300	3054RC	3051RC	3054LC	3051LC	2036
	3232	355	3064RC	3061RC	3064LC	3061LC	2647
	4040	400	3068RC	3062RC	3068LC	3062LC	3845
ISO 9 (136) BORING TOOLS (ROUND)	Ø08	125	3104RC	3101RC	3104LC	3101LC	587
	Ø10	150	3114RC	3111RC	3114LC	3111LC	634
	Ø12	180	3124RC	3121RC	3124LC	3121LC	679
	Ø16	210	3134RC	3131RC	3134LC	3131LC	781
	Ø20	250	3144RC	3141RC	3144LC	3141LC	953
	Ø25	300	3154RC	3151RC	3154LC	3151LC	1813
	Ø32	355	3164RC	3161RC	3164LC	3161LC	2308
113 - STRAIGHT ROUND NOSE TURNING TOOLS			NEUTRAL (NH)				
	1010	90	1404SC	1401SC			344
	1212	100	1414SC	1411SC			378
	1616	110	1434SC	1431SC			531
	2020	125	1454SC	1451SC			824
	2525	140	1474SC	1471SC			1189
	3232	170	1494SC	1491SC			2212
	4040	200	1614SC	1506SC			4101
	1610	110	1424SC	1421SC			412
	2012	125	1444SC	1441SC			503
	2516	140	1464SC	1461SC			688
	3220	170	1484SC	1481SC			958
	4025	200	1504SC	1501SC			1924
5032	240	0057AC	0057SC			3609	
115 CRANKED ROUND NOSE TURNING TOOLS.			RIGHT HAND (RH)		LEFT HAND (LH)		
	1010	90	1604RC	1601RC	1604LC	1601LC	378
	1212	100	1614RC	1611RC	1614LC	1611LC	403
	1616	110	1634RC	1631RC	1634LC	1631LC	552
	2020	125	1654RC	1651RC	1654LC	1651LC	824
	2525	140	1674RC	1671RC	1674LC	1671LC	1189
	3232	170	1694RC	1691RC	1694LC	1691LC	2308
	4040	200	1714RC	1711RC	1714LC	1711LC	4277
	1610	110	1624RC	1621RC	1624LC	1621LC	453
	2012	125	1644RC	1641RC	1644LC	1641LC	531
	2516	140	1664RC	1661RC	1664LC	1661LC	725
	3220	170	1684RC	1681RC	1684LC	1681LC	1008
	4025	200	1704RC	1701RC	1704LC	1701LC	2010

116 - BAR TURNING TOOLS	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS./PIECE	
			ORDER CODE - MIR100					
			P30	K20	P30	K20		
	1010	90	1804RC	1801RC	1804LC	1801LC	311	
	1212	100	1814RC	1811RC	1814LC	1811LC	344	
	1616	110	1834RC	1831RC	1834LC	1831LC	458	
	2020	125	1854RC	1851RC	1854LC	1851LC	679	
	2525	140	1874RC	1871RC	1874LC	1871LC	1052	
	3232	170	1894RC	1891RC	1894LC	1891LC	1817	
	4040	200	1914RC	1911RC	1914LC	1911LC	3590	
	5050	240	1934RC	1931RC	1934LC	1931LC	7634	
	1610	110	1824RC	1821RC	1824LC	1821LC	370	
	2012	125	1844RC	1841RC	1844LC	1841LC	597	
	2516	140	1864RC	1861RC	1864LC	1861LC	853	
	3220	170	1884RC	1881RC	1884LC	1881LC	1170	
	4025	200	1904RC	1901RC	1904LC	1901LC	1876	
122 - POINTED TURNING TOOLS			NEUTRAL (NH)					
		1010	90	0805SC	0801SC			344
		1212	100	0815SC	0811SC			421
		1616	110	0835SC	0831SC			465
		2020	125	0855SC	0851SC			635
		2525	140	0875SC	0871SC			905
		3232	170	0895SC	0891SC			2245
		4040	200	0902SC	0903SC			4121
		5050	240	0925SC	0926SC			4493
		1610	110	0825SC	0821SC			458
		2012	125	0845SC	0841SC			486
		2516	140	0865SC	0861SC			635
		3220	170	0885SC	0881SC			947
		4025	200	0905SC	0901SC			1583
	5032	240	0906SC	0907SC			3322	
140 (60°) BORING TOOLS (SQUARE)			RIGHT HAND (RH)		LEFT HAND (LH)			
		0808	24	3604RC	3601RC	3604LC	3601LC	396
		1010 & 3/8"	50	3614RC	3611RC	3614LC	3611LC	396
		1212 & 1/2"	60	3624RC	3621RC	3624LC	3621LC	455
		1616 & 5/8"	90	3634RC	3631RC	3634LC	3631LC	635
		2020 & 3/4"	120	3644RC	3641RC	3644LC	3641LC	1010
	2525 & 1"	175	3654RC	3651RC	3654LC	3651LC	1331	
140 (60°) BORING TOOLS (ROUND)		∅08	24	3504RC	3501RC	3504LC	3501LC	344
		∅10 & 3/8"	50	3514RC	3511RC	3514LC	3511LC	344
		∅12 & 1/2"	60	3524RC	3521RC	3524LC	3521LC	403
		∅16 & 5/8"	90	3534RC	3531RC	3534LC	3531LC	523
		∅20 & 3/4"	120	3544RC	3541RC	3544LC	3541LC	937
		∅25 & 1"	175	3554RC	3551RC	3554LC	3551LC	1215

141 (90°) BORING TOOLS (SQUARE)	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS./ PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
	0808	24	4104RC	4101RC	4104LC	4101LC	396
	1010 & 3/8"	50	4114RC	4111RC	4114LC	4111LC	396
	1212 & 1/2"	60	4124RC	4121RC	4124LC	4121LC	455
	1616 & 5/8"	90	4134RC	4131RC	4134LC	4131LC	635
	2020 & 3/4"	120	4144RC	4141RC	4144LC	4141LC	1010
	2525 & 1"	175	4154RC	4151RC	4154LC	4151LC	1331
141 (90°) BORING TOOLS (ROUND)	Ø08	24	4004RC	4001RC	4004LC	4001LC	344
	Ø10 & 3/8"	50	4014RC	4011RC	4014LC	4011LC	344
	Ø12 & 1/2"	60	4024RC	4021RC	4024LC	4021LC	403
	Ø16 & 5/8"	90	4034RC	4031RC	4034LC	4031LC	523
	Ø20 & 3/4"	120	4044RC	4041RC	4044LC	4041LC	937
	Ø25 & 1"	175	4054RC	4051RC	4054LC	4051LC	1215
142 (45°) BORING TOOLS (SQUARE)	0808	24	4604RC	4601RC	4604LC	4601LC	396
	1010 & 3/8"	50	4614RC	4611RC	4614LC	4611LC	396
	1212 & 1/2"	60	4624RC	4621RC	4624LC	4621LC	455
	1616 & 5/8"	90	4634RC	4631RC	4634LC	4631LC	635
	2020 & 3/4"	120	4644RC	4641RC	4644LC	4641LC	1010
	2525 & 1"	175	4654RC	4651RC	4654LC	4651LC	1331
142 (45°) BORING TOOLS (ROUND)	Ø08	24	4504RC	4501RC	4504LC	4501LC	344
	Ø10 & 3/8"	50	4514RC	4511RC	4514LC	4511LC	344
	Ø12 & 1/2"	60	4524RC	4521RC	4524LC	4521LC	403
	Ø16 & 5/8"	90	4534RC	4531RC	4534LC	4531LC	523
	Ø20 & 3/4"	120	4544RC	4541RC	4544LC	4541LC	937
	Ø25 & 1"	175	4554RC	4551RC	4554LC	4551LC	1215
156 - CRANKED INTERNAL RECESSING TOOLS	1010	90	5404RC	5401RC	5404LC	5401LC	650
	1212	100	5414RC	5411RC	5414LC	5411LC	741
	1616	110	5424RC	5421RC	5424LC	5421LC	830
	2020	125	5434RC	5431RC	5434LC	5431LC	1073
	2525	140	5444RC	5441RC	5444LC	5441LC	1469
	3232	170	5454RC	5451RC	5454LC	5451LC	2091
	4040	315	5464RC	5461RC	5464LC	5461LC	3469
163 - STRAIGHT TURNING & GROOVING TOOLS			NEUTRAL (NH)				
	1010	90	5704SC	5701SC			421
	1212	100	5714SC	5711SC			480
	1616	110	5734SC	5731SC			725
	2020	125	5754SC	5751SC			1056
	2525	140	5774SC	5771SC			1765
	3232	170	5794SC	5791SC			3847
	4040	200	5798SC	5762SC			7384
	1610	110	5724SC	5721SC			412
	2012	125	5744SC	5741SC			525
	2516	140	5764SC	5761SC			795
	3220	170	5784SC	5781SC			1303

165 - STRAIGHT THREADING TOOLS (60°)	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS./ PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
	1010	90	6002RC	6001RC	6002LC	6001LC	455
	1212	100	6012RC	6011RC	6012LC	6011LC	481
	1616	110	6044RC	6031RC	6044LC	6031LC	626
	2020	125	6054RC	6051RC	6054LC	6051LC	853
	2525	140	6074RC	6071RC	6074LC	6071LC	1267
	3232	170	6094RC	6091RC	6094LC	6091LC	1677
166 - INTERNAL THREADING TOOLS (60°)	1010	90	6204RC	6201RC	6204LC	6201LC	751
	1212	100	6214RC	6211RC	6214LC	6211LC	848
	1616	110	6224RC	6221RC	6224LC	6221LC	921
	2020	125	6234RC	6231RC	6234LC	6231LC	1129
	2525	140	6256RC	6241RC	6256LC	6241LC	1479
	3232	170	6254RC	6251RC	6254LC	6251LC	2231
IND-2-EXTERNAL THREADING TOOLS	1010	90	0905RC	0901RC	0905LC	0901LC	533
	1212	100	0915RC	0911RC	0915LC	0911LC	629
	1616	110	0935RC	0931RC	0935LC	0931LC	670
	2020	125	0955RC	9101RC	0955LC	9101LC	743
	2525	140	0975RC	0971RC	0975LC	0971LC	1243
THREADING TOOLS WITH "V" PROFILE			NEUTRAL (NH)				
	166 - 11	140	6264RC	6261RC			686
	166 - 12	160	6274RC	6271RC			838
	166 - 13	180	6284RC	0114RC			1170
	166 - 14	200	6294RC	6292RC			1631

Indian Standard Application of Carbides for Machining, Ranges of application and Colour Code Selection Guideline for Tip Grade

Identification Colour	Designation	Material to be Machined
	P20	Steel, steel casting, Malleable cast iron forming long chips Machining Conditions Turning & Milling-Medium cutting speed and medium chip section, Planing with small chip section
	P30	Steel, steel casting, Malleable cast iron forming long chips Machining Conditions Turning, Milling & Planning-Medium or low cutting speed, medium or large chip section and machining under unfavourable conditions such as heat erogenous materials, changing hardness or chip section,intermittent turning or subject to vibrations.
	P40	Steel, steel casting with sand inclusions or shrinkage cavities Machining Conditions Turning, Planning & Shapping-Low cutting speed, large chip section with possibility of using large rake angle for machining under unfavourable conditions, such as heat erogenous materials, changing hardness or chip sections, intermillent turning or subject to vibrations; and work on automatic machines.
	K10	Grey cast iron of hardness more than 220 HB, Malleable cast iron forming short chips, Tempered steel, Aluminium alloys containing silicon, copper alloys, plastics, glass, hard rubber, hard carboard, porcelain, stone. Machining Conditions Turning, Milling, Boring, Scraping
	K20	Grey cast iron of hardness up to 220 HB, Non-ferrous metals, such as Copper, Brass, . Aluminium, Laminated wood of abrasive type Machining Conditions Turning, Milling, planning, requiring high toughness.

TUNGSTEN CARBIDE ROTARY BURRS



PRODUCT RANGE

Types

- Cylindrical & with Radius
- Flame, Rim & Inverted Cone
- Tree shape - Radius / Pointed end
- Cone shape - Radius / Pointed end
- Ball & Oval

Range

- Diameter 3.0 mm to 25.0 mm
- Shank 3.0 mm, 6.0 mm & 8.0 mm
- Single cut, Double cut, Diamond cut & Aluma cut

APPLICATIONS

- Cast Iron
- Mild Steel
- Stainless Steel
- Forged Steel
- Titanium
- Aluminium

INDUSTRIES

- Foundry, Casting & Fabrication
- Marine & Shipbuilding
- Automobile, Heavy Engineering
- Tubes & Pipes
- Aerospace & Defense
- Gear Manufacturing

TUNGSTEN CARBIDE ROTARY BURRS

SHAPE	MIRANDA CODE	DESCRIPTION	PRICE RS./ PIECE			
			ORDER CODE	STANDARD PRICE	ORDER CODE	TIN COATED PRICE
		HEAD DIA X HEAD LENGTH X OAL LENGTH X SHANK DIA				
CONICAL 	MAM1	3MM X 11MM X 38MM X 3SHK	1011AS	458	MAM1S0311	504
	MAM2	6MM X 11MM X 38MM X 3SHK	1012BS	601	MAM2S0611	662
	AM1	6MM X 19MM X 60MM X 6SHK	1010AS	712	AM10S0619	783
	AM2	10MM X 20MM X 70MM X 6SHK	1020BS	712	AM20S1020	783
	AM3	12MM X 25MM X 75MM X 6SHK	1030CS	978	AM30S1225	1075
	AM4	10MM X 12MM X 60MM X 6SHK	1040DS	742	AM40S1012	814
	AM5	16MM X 13MM X 63MM X 6SHK	1050ES	1068	AM50S1613	1202
	AM6	16MM X 16MM X 66MM X 6SHK	1060FS	1068	AM60S1616	1202
CYLINDRICAL RADIUS END 	MBM1	3MM X 16MM X 38MM X 3SHK	2011AS	458	MBM1S0316	504
	MBM2	6MM X 13MM X 38MM X 3SHK	2012BS	601	MBM2S0613	662
	BM1	6MM X 20MM X 50MM X 6SHK	2010AS	719	BM10S0620	790
	BM2	8MM X 20MM X 70MM X 6SHK	2020BS	696	BM20S0820	766
	BM3	10MM X 20MM X 70MM X 6SHK	2030CS	870	BM30S1020	956
	BM4	12MM X 20MM X 70MM X 6SHK	2040DS	1121	BM40S1220	1257
	BM5	16MM X 25MM X 75MM X 6SHK	2050ES	1715	BM50S1625	1919
	BM6	12MM X 25MM X 75MM X 6SHK	2060FS	1557	BM60S1225	1746
CYLINDRICAL 	MCM1	3MM X 16MM X 38MM X 3SHK	3011AS	458	MCM1S0316	504
	MCM2	6MM X 6MM X 38MM X 3SHK	3012BS	515	MCM2S0606	569
	MCM3	6MM X 13MM X 38MM X 3SHK	3013CS	601	MCM3S0613	662
	CM1	4MM X 15MM X 50MM X 6SHK	3010AS	601	CM10S0415	662
	CM2	6MM X 20MM X 60MM X 6SHK	3020BS	689	CM20S0620	759
	CM3	8MM X 20MM X 70MM X 6SHK	3030CS	783	CM30S0820	861
	CM4	10MM X 20MM X 70MM X 6SHK	3040DS	861	CM40S1020	948
	CM5	12MM X 20MM X 70MM X 6SHK	3050ES	1083	CM50S1220	1209
	CM6	16MM X 25MM X 75MM X 6SHK	3060FS	1737	CM60S1625	1943
	CM7	12MM X 16MM X 65MM X 6SHK	3070GS	1058	CM70S1216	1184
	CM8	12MM X 25MM X 75MM X 6SHK	3080HS	1715	CM80S1225	1919
FLAME 	FM1	6MM X 15MM X 50MM X 6SHK	4010AS	689	FM10S0615	759
	FM2	8MM X 20MM X 70MM X 6SHK	4020BS	712	FM20S0820	783
	FM3	10MM X 25MM X 65MM X 6SHK	4030CS	1406	FM30S1025	1573
	FM4	12MM X 32MM X 82MM X 6SHK	4040DS	1688	FM40S1232	1905
CONE Radius 	MKM1	3MM X 8MM X 38MM X 3SHK	5011AS	458	MKM1S0308	504
	MKM2	6MM X 12MM X 38MM X 3SHK	5012BS	601	MKM2S0612	662
	KM1	10MM X 20MM X 65MM X 6SHK	5010AS	673	KM10S1020	742
	KM2	12MM X 20MM X 70MM X 6SHK	5020BS	1121	KM20S1220	1257
	KM3	16MM X 33MM X 75MM X 6SHK	5030CS	1549	KM30S1633	1731

SHAPE	MIRANDA CODE	DESCRIPTION	PRICE RS. / PIECE			
			ORDER CODE	STANDARD PRICE	ORDER CODE	TIN COATED PRICE
		HEAD DIA X HEAD LENGTH X OAL LENGTH X SHANK DIA				
OVAL 	MOM1	3MM X 8MM X 38MM X 3SHK	6011AS	458	MOM1S0814	504
	MOM2	6MM X 10MM X 38MM X 3SHK	6012BS	601	MOM2S0610	662
	OM1	8MM X 14MM X 60MM X 6SHK	6010AS	766	OM10S0814	845
	OM2	12MM X 20MM X 70MM X 6SHK	6020BS	1121	OM20S1220	1257
	OM3	16MM X 25MM X 75MM X 6SHK	6030CS	1731	OM30S1625	1936
	OM4	6MM X 10MM X 60MM X 6SHK	6040DS	766	OM40S0610	845
RIM 	RM1	10MM X 2MM X 50MM X 6SHK	7010AS	673	RM10S1002	742
	RM2	20MM X 6MM X 60MM X 6SHK	7020BS	1263	RM20S2006	1391
	RM3	12MM X 10MM X 60MM X 6SHK	7030CS	1121	RM30S1210	1233
BALL 	MSM1	4MM X 3MM X 38MM X 3SHK	7011AS	531	MSM1S0403	584
	MSM2	5MM X 4MM X 38MM X 3SHK	7012BS	554	MSM2S0504	610
	SM1	6MM X 5MM X 50MM X 6SHK	8010AS	662	SM10S0605	726
	SM2	8MM X 7MM X 50MM X 6SHK	8020BS	696	SM20S0807	766
	SM3	10MM X 9MM X 60MM X 6SHK	8030CS	696	SM30S1009	766
	SM4	12MM X 11MM X 60MM X 6SHK	8040DS	874	SM40S1211	961
	SM5	16MM X 14MM X 65MM X 6SHK	8050ES	1184	SM50S1614	1329
TREE POINTED END 	MTM1	3MM X 13MM X 38MM X 3SHK	8011AS	458	MTM1S0313	504
	MTM2	3MM X 16MM X 38MM X 3SHK	8012BS	458	MTM2S0316	504
	MTM3	6MM X 13MM X 38MM X 3SHK	8013CS	601	MTM3S0613	662
	TM1	6MM X 20MM X 70MM X 6SHK	9010AS	726	TM10S0620	798
	TM2	10MM X 20MM X 70MM X 6SHK	9020BS	870	TM20S1020	956
	TM3	12MM X 25MM X 75MM X 6SHK	9030CS	1042	TM30S1225	1146
	TM4	16MM X 30MM X 80MM X 6SHK	9040DS	1549	TM40S1630	1731
TREE RADIUS END 	TBM1	6MM X 20MM X 70MM X 6SHK	9050ES	726	TBM1S0620	798
	TBM2	10MM X 20MM X 70MM X 6SHK	9060FS	870	TBM2S1020	956
	TBM3	12MM X 25MM X 75MM X 6SHK	9070GS	1099	TBM3S1225	1233
INVERTED CONE	MIM1	3MM X 8MM X 38MM X 3SHK	4011AS	458	MIM1S0308	504
	MIM2	6MM X 8MM X 38MM X 3SHK	4012BS	515	MIM2S0608	569
SET OF 5 PIECES		AM3, BM4, CM5, TM3, SM4	1004SS	5007	SET0S1200	5547

MIRANDA Solid Carbide Tools

**MIRANDA
Maxx**



MIRANDA Solid Carbide Tools



PRODUCT	Dia	SH.DIA	FL	OAL	CPL
SOLID CARBIDE END MILL 2/4 FLUTE -TiAlN	1.0	3.0	3	38	870
	1.5	3.0	6	38	870
	2.0	3.0	9	38	870
	2.5	3.0	9	38	870
	3.0	3.0	12	38	818
	3.5	4.0	14	50	1075
	4.0	4.0	14	50	1075
	4.5	5.0	16	50	1350
	5.0	5.0	20	50	1350
	5.5	6.0	20	60	1412
	6.0	6.0	20	60	1412
	8.0	8.0	20	64	1565
	10.0	10.0	25	75	2970
	12.0	12.0	25	75	3445
	14.0	14.0	25	75	6050
16.0	16.0	32	89	6538	
20.0	20.0	38	102	13895	

	Dia	SH.DIA	FL	OAL	CPL
SOLID CARBIDE BALL NOSE END MILL 2/4 FLUTE -TiAlN	1.0	3.0	3	38	1098
	1.5	3.0	5	38	1098
	2.0	3.0	7	38	1098
	2.5	3.0	7	38	1098
	3.0	3.0	9	38	989
	4.0	4.0	14	50	1290
	5.0	5.0	16	50	1625
	6.0	6.0	20	60	1695
	8.0	8.0	20	64	1910
	10.0	10.0	25	75	3560
	12.0	12.0	25	76	4140
	16.0	16.0	32	89	7860
	20.0	20.0	38	102	16675

	Dia	SH.DIA	FL	OAL	CPL SCBM	CPL SCBN
SOLID CARBIDE 4 F LONG END MILL -TiAlN	3.0	3.0	20	60	1563	1873
	4.0	4.0	20	60	1763	2118
	5.0	5.0	25	75	1965	2356
	6.0	6.0	30	75	2050	2463
	8.0	8.0	40	100	2282	2710
	10.0	10.0	40	100	3599	4320
	10.0	10.0	75	150	8215	9860
	12.0	12.0	50	100	5148	6182
	12.0	12.0	75	150	10078	12095
	16.0	16.0	75	150	15119	18145
	20.0	20.0	75	150	25149	30180



MIRANDA Solid Carbide Tools



PRODUCT	Dia	Sh. Dia	FL	OAL	CPL	
					Non Coolant Hole	With Coolant Hole
Solid Carbide Jobber Drill -TiAlN Coated	1.0	1.0	12	34	747	
	1.5	1.5	18	40	802	
	2.0	2.0	24	49	918	
	2.5	2.5	30	57	918	
	3.0	3.0	33	61	1028	
	3.5	3.5	39	70	1118	
	4.0	4.0	43	75	1376	
	4.5	4.5	47	80	1473	
	5.0	5.0	52	86	1688	
	5.5	5.5	57	93	1954	
	6.0	6.0	57	93	2033	
	6.5	6.5	63	101	2288	
	7.0	7.0	69	109	2506	
	7.5	7.5	69	109	2735	
	8.0	8.0	75	117	3085	
	8.5	8.5	75	117	3379	
	9.0	9.0	81	125	3834	
	9.5	9.5	81	125	4378	
	10.0	10.0	87	133	5024	
	10.5	10.5	87	133	5615	
11.0	11.0	94	142	6684		
12.0	12.0	101	151	7640		
13.0	13.0	101	151	9548		
14.0	14.0	108	160	11920		
16.0	16.0	120	178	17698		
High Performance Solid Carbide Drill -TiAlN	3.0	6.0	28	66	4708	7103
	3.5	6.0	28	66	4708	7103
	4.0	6.0	36	74	4708	7103
	4.5	6.0	36	74	4708	7103
	5.0	6.0	44	82	4708	7103
	5.5	6.0	44	82	4708	7103
	6.0	6.0	44	82	5815	8208
	6.5	8.0	53	91	5815	8208
	7.0	8.0	53	91	5815	8208
	7.5	8.0	53	91	5815	8208
	8.0	8.0	53	91	5815	8208
	8.5	10.0	61	103	7478	9568
	9.0	10.0	61	103	7478	9568
	9.5	10.0	61	103	7478	9568
	10.0	10.0	61	103	7478	9568
	12.0	12.0	71	118	12413	13560
	14.0	14.0	77	124	15784	17838
	16.0	16.0	83	133	16472	21662
	18.0	18.0	93	143	23508	34442
	20.0	20.0	101	153	28545	37968



- END MILL FOR 60HRC ON REQUEST
- END MILL WITH CORNER RADIUS & SPECIAL ON REQUEST.
- PRICES ARE SUBJECT TO REVISION WITHOUT ANY NOTICE.

SUGGESTED SPEED AND FEED DATA FOR SOLID CARBIDE ENDMILLS

Application : Slotting / Key way machining

Material HRC Diameter	Carbon steel , Alloy Steel < HRC 28		Carbon steel , Alloy Steel HRC 28 - HRC 45		Stainless Steel and Super alloys		Cast Iron	
	RPM	feed/tooth	RPM	feed/tooth	RPM	feed/tooth	RPM	feed/tooth
2	6369	0.03	6369	0.024	6369	0.02	6369	0.044
3	4777	0.045	4777	0.036	4777	0.03	4777	0.066
4	3981	0.06	3981	0.048	3981	0.04	3981	0.088
5	3185	0.075	3185	0.06	3185	0.05	3185	0.11
6	2654	0.09	2654	0.072	2654	0.06	2654	0.132
8	1990	0.12	1990	0.096	1990	0.08	1990	0.176
10	1911	0.15	1911	0.12	1911	0.1	1911	0.22
12	1592	0.18	1592	0.144	1592	0.12	1592	0.264
14	1365	0.21	1365	0.168	1365	0.14	1365	0.308
16	1393	0.24	1393	0.192	1393	0.16	1393	0.352
18	1238	0.27	1238	0.216	1238	0.18	1238	0.396
20	1115	0.3	1115	0.24	1115	0.2	1115	0.44

- Reduce feed rate by around 30% in case of long types
- Increase speed and feed rate by around 25% in case of coated endmills

Application : End milling

Material HRC Diameter	Carbon steel , Alloy Steel < HRC 28		Carbon steel , Alloy Steel HRC 28 - HRC 45		Stainless Steel and Super alloys		Grey Cast Iron	
	RPM	feed/tooth	RPM	feed/tooth	RPM	feed/tooth	RPM	feed/tooth
2	6369	0.04	6369	0.03	6369	0.024	6369	0.06
3	4777	0.06	4777	0.045	4777	0.036	4777	0.09
4	3981	0.08	3981	0.06	3981	0.048	3981	0.12
5	3185	0.1	3185	0.075	3185	0.06	3185	0.15
6	2654	0.12	2654	0.09	2654	0.072	2654	0.18
8	1990	0.16	1990	0.12	1990	0.096	1990	0.24
10	1911	0.2	1911	0.15	1911	0.12	1911	0.3
12	1592	0.24	1592	0.18	1592	0.144	1592	0.36
14	1365	0.28	1365	0.21	1365	0.168	1365	0.42
16	1393	0.32	1393	0.24	1393	0.192	1393	0.48
18	1238	0.36	1238	0.27	1238	0.216	1238	0.54
20	1115	0.4	1115	0.3	1115	0.24	1115	0.6

SUGGESTED SPEED AND FEED DATA FOR SOLID CARBIDE DRILLS



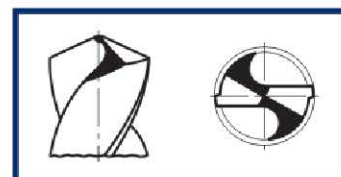
Application : Drilling

Material HRC Diameter	Carbon steel , Alloy Steel < HRC 28		Carbon steel , Alloy Steel HRC 28 - HRC 45		Stainless Steel and Super alloys		Cast Iron	
	RPM	mm/rev	RPM	mm/rev	RPM	mm/rev	RPM	mm/rev
2	5100	0.04	5100	0.03	4900	0.02	5100	0.06
3	4246	0.045	4246	0.036	4246	0.03	4246	0.066
4	3583	0.06	3583	0.048	3583	0.04	3583	0.088
5	2866	0.075	2866	0.06	2866	0.05	2866	0.11
6	2389	0.09	2389	0.072	2389	0.06	2389	0.132
8	1990	0.12	1990	0.096	1990	0.08	1990	0.176
10	1592	0.15	1592	0.12	1592	0.10	1592	0.22
12	1327	0.18	1327	0.144	1327	0.12	1327	0.264
14	1251	0.21	1251	0.168	1251	0.14	1251	0.308
16	1194	0.24	1194	0.192	1194	0.16	1194	0.352
18	1062	0.27	1062	0.216	1062	0.18	1062	0.396
20	1115	0.3	1115	0.24	1115	0.2	1115	0.44

- Increase speed and feed rate by around 25% in case of coated endmills
- Reduce feed rate by around 30% in case of long types
- Increase speed and feed rate by around 25% in case of coated Drills

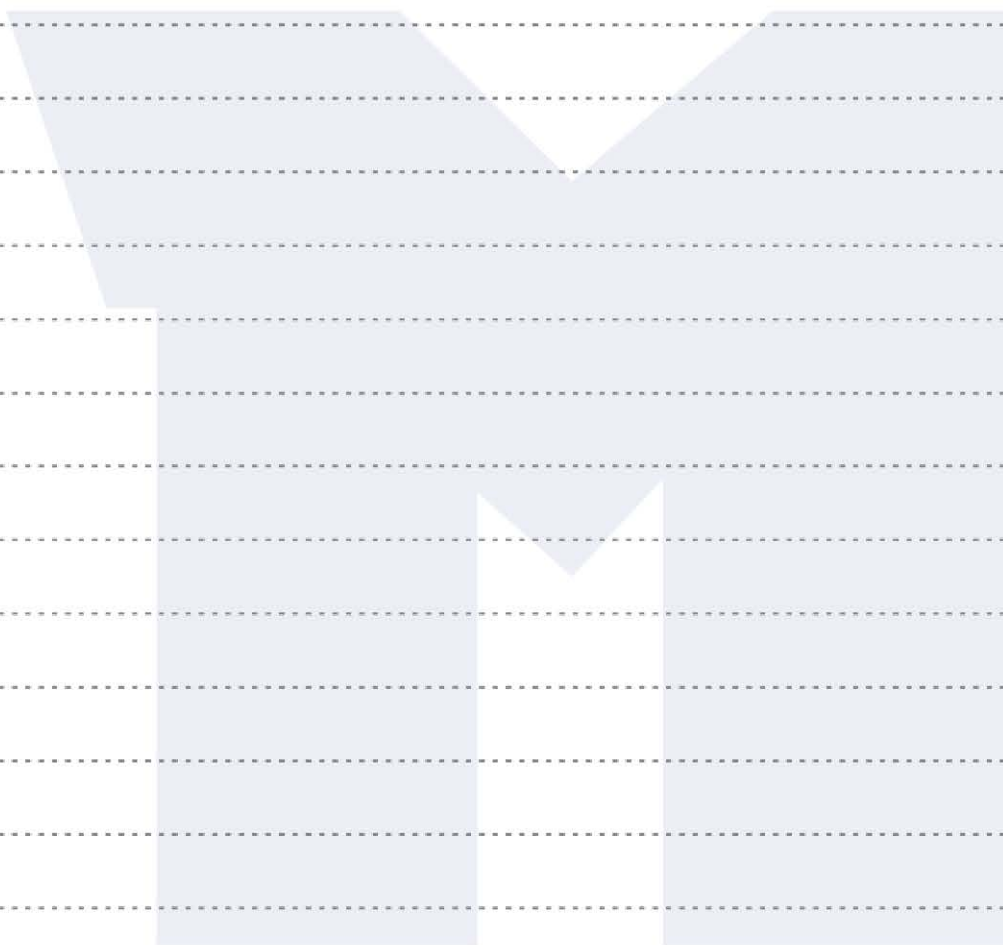
Technical Formulae

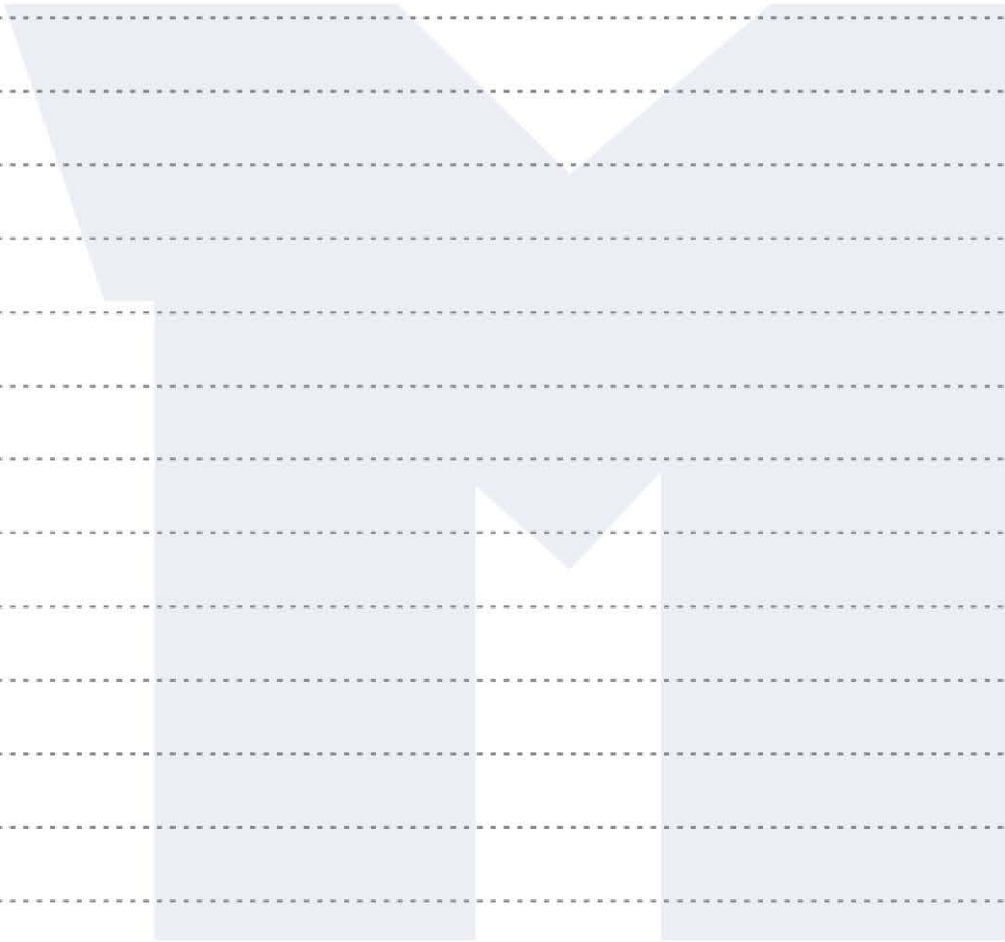
Cutting speed.	= $\frac{V}{1000} = \pi \times \text{Dia of Tool} \times \text{RPM} / 1000$
Feed in mm per revolution.	= feed in mm per tooth X no. of flutes
Feed in mm per min.	= RPM X feed in mm per revolution.
Cutting time.	= Cutting length / feed in mm per min



Split Point Geometry

Notes



Notes



**ASHOK
PIRAMAL
GROUP**

CORE VALUES

We abide by these enduring values that are the foundation of our business and at the heart of all we do each day.

Customer Focus

We listen to our customers.
We are committed to delivering real value.
We take ownership of our customer's problem until it is solved.

Integrity

We hold ourselves and others to the highest ethical standards.
We are honest with each other and constructively give and willingly accept candid feedback.
We build relationships of trust so we can share and accept the truth,
even when its hard to say or hear.
We do the right things even when no one is watching.

Teamwork

We respect others and value their ideas and point of view.
We work together and support each other to achieve our goals.
We incorporate fun with hard work.
We have a passion for winning.
We all play an important role.
We are one Enterprise. There is no "they" or "I".

Passion for Excellence

We strive to find better ways to solve customer problems.
We embrace change and use it to shape our own future.
we seek innovative solutions to achieve a competitive advantage.
We recognize outstanding performance.
We inspire each other to succeed.
We encourage risk-taking.

Accountability

We take ownership of results delivered in our area of work.
We are responsible for and committed to our own personal growth and development.
We work through challenges and obstacles to achieve a successful outcome.

Respect

We show consideration, listen and seek inputs and treat each other fairly.
We acknowledge work-life balance as a key driver to achieve a competitive edge.
We value diversity of people and ideas irrespective of the level of experience.



MIRANDA TOOLS

An Ashok Piramal Group company

WORKS AND HEAD OFFICE : 903 / 904, GIDC Industrial Estate, Ankleshwar - 393 002. Gujarat.

Tele : (02646) 221519, 252368, 239707 Fax : (02646) 251326

E-mail : marketing@mirandatools.net website : www.mirandatools.in

Customer Care No. (02646) - 227162

BRANCH OFFICES

MUMBAI

Unit no 102, Rajratan Industrial Estate,
Opp. S.N.D.T College, Ramchandra Lane Extn,
Near Liberty Restaurant, Malad West, Mumbai -400064.
Mobile No : 9323823470/71 Tele/fax 28899979.
mumbai@mirandatools.net

PUNE

Salamatrai Mini Complex, Opp. Roplas India Ltd.
Pimpri, Pune - 411018
Cell No. : 09371223472/75 Tele/fax : 020-27423411
Pune@mirandatools.net

AHMEDABAD

Star Mansion, 1st Floor, Opp. Electricity House
Relief Road, Ahmedabad - 380 001.
Cell No. : 9328223476/77 Tele / Fax : 079-25507421
ahmedabad@mirandatools.net

INDORE

201, Harsh Paradise, 95A-47 Scheme,
Sapna Sangeeta Road, Indore - 452 001.
Cell : 09302423479 Tele / Fax : 0731-2472168
indore@mirandatools.net

NEW DELHI

1/22-B, Asaf Ali Road, New Delhi - 110 002
Cell No. : 9350885015 / 9313023481
Tele / Fax : 011-23236319
delhi@mirandatools.net

FARIDABAD

2a/46A, N.I.T. Faridabad, Near Hardware Chowk,
Faridabad - 121 001 Cell : 09313993118 / 9350623483
Tele / Fax : 0129-2423126, faridabad@mirandatools.net

LUDHIANA

1169, GILL ROAD, LUDHIANA - 141 003
Cell No. : 09356706157 / 9317823485
Tele / Fax : 0161-2532028 ludhiana@mirandatools.net

KOLKATA

5-B, Narendrachandra, Dutta Sarani, Kolkata - 700 001.
Cell No. : 09331701000 / 9339703486
Tele / Fax : 033 22304115, kolkata@mirandatools.net

CHENNAI

18, Perianna Maistry Street, 2nd Floor Chennai - 600 001.
Cell No. : 09381223492 / 9381223490
Tele / Fax : 044-25383351 chennai@mirandatools.net

BANGALORE

No.24 lind Floor, Kota Complex, J. C. Road,
Bangalore - 560002 Cell No. : 09343143494 / 9341323491
Tele / Fax : 080-22234045 bangalore@mirandatools.net

SECUNDERABAD

8-1-11/7, 2nd Floor, Market Street, Secunderabad - 500 003
Cell No. : 09346210922 / 9393023494 Tele : 040-27713910
secunderabad@mirandatools.net

Authorised Dealer

