



CERTIFICATE : 44 104 080422



CERTIFICATE : 04 100 970422/01-E3

Addison & Co., Ltd.

(A Member of the Amalgamations Group)

Addison & Co. Ltd., (a unit Company of Amalgamations Group) established in 1873, is India's largest manufacturer of High Speed Steel Metal Cutting Tools. The Company's current range of products include Twist Drills, Centre Drills, Counterbores, Countersinks, End Mills, Reamers, Milling Cutters, Taps and Broaches, besides Multipoint Carbide Tipped Tools and Solid Carbide End Mills & Drills for advanced applications and quality Machine Tools and accessories for allied Industries. Addison is also a major supplier of machined and unmachined Castings to various customers.

Distribution is done through the country-wide network of authorised dealers.

Addison is today the largest exporter of High Speed Steel Metal Cutting Tools in India with exports reaching the sophisticated markets of USA, Canada, Japan, Europe including Germany, France, Denmark, Sweden and other markets which include countries from Latin America, South-east Asia, Middle-East and Africa. Addison, an ISO-9001 - 2008 & 14001 accredited Company, manufactures a wide range of precision engineering products at its plants located in Chennai. The state-of-the-art manufacturing technology, well-equipped metallurgical lab, Tool Tech. Centre (R & D), CNC Machines and Total Quality Control have put ADDISON Metal Cutting Tools on par with the best brands of cutting tools in the world.

At the Tool Works of Addison, we have just one policy - to be precise and to build tools which are highest in quality and length of effective service.

The High Speed Steel used is of the highest quality, procured from West Europe, Japan and India.

This Price List pertains to tools made out of High Speed Steel and Multi Point Carbide Tipped tools.



(A Member of the Amalgamations Group)

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TERMS OF SUPPLY

Prices given in this Price-List are inclusive of Excise Duty and ED Cess at current rate but exclusive of Sales Tax, Octroi & other similar levies.

The prices are for delivery F.O.R. Destination.

The prices are based on the present cost of labour and raw materials and are subject to revision without notice.

This supersedes all our previous price lists.

M.O.Q. – The Minimum Ordering Quantities specified are for Each Size/Length/Bore and applicable only for the types and sizes listed in this Price-List.

The prices quoted in this Price-List are the maximum resale prices and the Dealers / Stockist are free to sell the goods at prices lower than these prices fixed by the company.

SPECIAL NOTES

We can manufacture and supply the following Special tools, subject to ordering for minimum batch quantities which can be furnished on request.

I. HSS TWIST DRILLS

1) For unlisted intermediate sizes, the higher price of the nearest listed size will apply.

2) Quick Spiral/Slow Spiral Drills :

For Parallel Shank Twist Drills – Jobber Series, Stub Series & Long Series and Taper Shank Twist Drills, we can supply Quick Spiral/Slow Spiral Drills.

1.0 mm to 3.17 mm (1/8") – 50% extra

Above 3.17 mm (1/8") – 25% extra

3) Left Hand Drills :

Left Hand Drills can also be supplied as below :

Parallel Shank Twist Drills :

Jobber Series :

3.0 mm and above – 35% extra

Stub & Long Series

3.0 mm and above – 25% extra

Taper Shank Twist Drills – 25% extra

Taper Shank Core Drills – 25% extra

4) Oversize Taper Shank Twist Drills to IS: 5104 can be supplied at 10% extra on Standard Price.

5) Quick Spiral/Slow Spiral Extra Long in Parallel Shank and Taper Shank can be supplied at 25% extra on Standard Prices.

6) Taper Shank Twist Drills above 80.0 mm will be made of single piece construction.



II. HSS MILLING CUTTERS

- 1) For Convex Cutters, Concave Cutters, Single Corner Rounding Cutters, We have switched over the manufacture to current ISS-IS 6323/1982, IS 6322/1982 and IS 6314/1982. We also manufacture & supply these cutters as per old ISS-IS 6323/1971, IS 6322/1971 & IS 6314/1971, for which full dimensions & prices are also given herein.
- 2) For unlisted intermediate sizes, the higher price of the nearest listed size will apply.

III. HSS END MILLS

LONG SERIES END MILLS CAN BE SUPPLIED AT 30% EXTRA OVER THE STANDARD PRICE AND THE MOQ WILL BE :

M.O.Q. For sizes

Upto 13 mm	–	100 Nos. each
14 mm to 16 mm	–	50 Nos. each
17 mm to 22 mm	–	25 Nos. each
Above 22 mm	–	10 Nos. each

IV. HSS REAMERS

- 1) Reamers with H7 Tolerance can be supplied at the same rates.
- 2) For unlisted intermediate sizes, the higher price of the nearest listed size will apply.

V. HSS SCREWING TAPS

- 1) The following items of Taps can also be supplied at prices indicated, for which MOQ details can be had on request :
 - a) LH Taps – 25% extra on Standard prices.
 - b) Part 3 designed Taps for sizes upto & including 10 mm – 15% extra on standard prices.
 - c) Serial Taps – Standard prices.

VI. NON-STANDARD

Tools of non-standard or near standard types with special dimensions or special tolerances not listed in this price-list or with tool types other than those mentioned herein can be supplied at special rates, full details of which may be obtained from us on application.

VII. FOR SOLID CARBIDE DRILLS / END MILLS REFER OUR PRICE LIST SC 38.



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**HSS PARALLEL SHANK TWIST DRILLS
JOBBER SERIES**

**IS 5101 - 1991
BS 328 (PART 1) 1986**

Size		Price Per 10 Nos. Rs.	Size		Price Per 10 Nos. Rs.	Size		Price Per 10 Nos. Rs.
mm	WG / LG Inch		mm	WG / LG Inch		mm	WG / LG Inch	
0.3		2678	2.80		440	(5.16)	13/64	1325
0.4		2678	(2.82)	34	440	(5.18)	6	1325
0.5		2678	(2.87)	33	440	5.20		1325
0.6		2678	2.90		440	(5.22)	5	1430
0.7		1529	(2.95)	32	440	5.30		1430
0.8		1529	3.00		440	(5.31)	4	1430
0.9		1529	(3.05)	31	524	5.40		1430
1.0		373	3.10		524	(5.41)	3	1430
(1.02)	60	373	(3.17)	1/8	524	5.50		1430
(1.04)	59	373	3.20		542	(5.56)	7/32	1430
(1.07)	58	373	(3.26)	30	542	5.60		1430
(1.09)	57	373	3.30		542	(5.61)	2	1608
1.10		373	3.40		542	5.70		1608
(1.18)	56	373	(3.45)	29	542	(5.79)	1	1608
(1.19)	3/64	373	3.50		542	5.80		1608
1.20		373	(3.57)	28	542	5.90		1608
1.30		373	(3.57)	9/64	542	(5.94)	A	1608
(1.32)	55	373	3.60		767	(5.95)	15/64	1608
1.40	54	373	(3.66)	27	767	6.00		1608
1.50		373	3.70		767	(6.04)	B	1751
(1.51)	53	373	(3.73)	26	767	6.10		1751
(1.59)	1/16	373	(3.80)	25	767	(6.15)	C	1751
1.60		373	3.80		767	6.20		1751
(1.61)	52	400	(3.86)	24	767	(6.25)	D	1751
1.70		400	3.90		767	6.30		1751
(1.70)	51	400	(3.91)	23	767	(6.35)	1/4	1751
(1.78)	50	400	(3.97)	5/32	767	6.40		1751
1.80		400	(3.99)	22	767	6.50		2233
(1.85)	49	400	4.00		767	(6.53)	F	2233
1.90		400	(4.04)	21	930	6.60		2233
(1.93)	48	400	(4.09)	20	930	(6.63)	G	2233
(1.98)	5/64	400	4.10		930	6.70		2233
(1.99)	47	400	4.20		930	(6.75)	17/64	2233
2.00		400	(4.22)	19	930	(6.75)	H	2233
(2.06)	46	400	4.30		930	6.80		2233
(2.08)	45	400	(4.30)	18	930	6.90		2445
2.10		400	(4.37)	11/64	930	(6.90)	I	2445
(2.18)	44	400	(4.39)	17	930	7.00		2445
2.20		400	4.40		930	(7.03)	J	2445
(2.26)	43	400	(4.50)	16	1220	7.10		2445
2.30		400	4.50		1220			
(2.37)	42	400	(4.57)	15	1220			
(2.38)	3/32	400	4.60		1220			
2.40		400	(4.62)	14	1220			
(2.44)	41	400	4.70		1220			
(2.49)	40	400	(4.76)	3/16	1220			
2.50		400	4.80		1220			
(2.53)	39	400	(4.85)	12	1220			
(2.58)	38	400	4.90		1325			
2.60		400	(4.92)	10	1325			
(2.64)	37	400	(4.98)	9	1325			
2.70		400	5.00		1325			
(2.71)	36	400	(5.06)	8	1325			
(2.78)	7/64	400	5.10		1325			
(2.79)	35	440	(5.11)	7	1325			

**HSS PARALLEL SHANK TWIST DRILLS
JOBBER SERIES**

**IS 5101 - 1991
BS 328 (PART 1) 1986**

Size			Price Per 10 Nos. Rs.	Size			Price Per 10 Nos. Rs.	Size			Price Per 10 Nos. Rs.
mm	Inch	WG / LG		mm	Inch	WG / LG		mm	Inch	WG / LG	
(7.14)		K	2445	10.00			5182	13.80			11085
(7.14)	9/32		2445	(10.08)		X	5182	(13.89)	35/64		12029
7.20			2445	10.10			5182	13.90			12029
7.30			2581	10.20			5182	14.00			12029
(7.37)		L	2581	(10.26)		Y	5616	14.25			12029
(7.40)			2581	10.30			5616	(14.29)	9/16		12620
(7.49)		M	2581	(10.32)	13/32		5616	14.50			12620
7.50			2581	10.40			5616	(14.68)	37/64		13599
(7.54)	19/64		2794	(10.49)		Z	5616	14.75			13599
7.60			2794	10.50			5616	15.00			13599
(7.67)		N	2794	10.60			5616	(15.08)	19/32		13599
7.70			2794	10.70			5946	15.25			13599
7.80			2794	(10.72)	27/64		5946	(15.48)	39/64		14734
7.90			2794	10.80			5946	15.50			14734
(7.94)	5/16		3067	10.90			5946	15.75			14734
8.00			3067	11.00			5946	(15.87)	5/8		14734
(8.03)		O	3067	11.10			6637	16.00			14734
8.10			3067	(11.11)	7/16		6637	16.50			15215
8.20			3067	11.20			6637	(16.67)	21/32		15215
(8.20)		P	3067	11.30			6637	17.00			15585
8.30			3717	11.40			6637	(17.46)	11/16		15585
(8.33)	21/64		3717	11.50			7000	17.50			16555
8.40			3717	(11.51)	29/64		7000	18.00			16864
(8.43)		Q	3717	11.60			7000	(18.26)	23/32		16864
8.50			3717	11.70			7000	18.50			17660
8.60			3717	11.80			7000	19.00			17837
(8.61)		R	3717	11.90			7476	(19.05)	3/4		17837
8.70			3717	(11.91)	15/32		7476	19.50			20067
(8.73)	11/32		3915	12.00			7476	(19.84)	25/32		20067
8.80			3915	12.10			7476	20.00			21308
(8.84)		S	3915	12.20			7476	(20.64)	13/16		21308
8.90			3915	12.30			7930	(21.43)	27/32		22668
9.00			3915	(12.30)	31/64		7930	(22.22)	7/8		22668
(9.09)		T	4084	12.40			7930				
9.10			4084	12.50			7930				
(9.13)	23/64		4084	12.60			7930				
9.20			4084	(12.70)	1/2		8373				
9.30			4084	12.80			8373				
(9.34)		U	4084	12.90			8373				
9.40			4084	13.00			8373				
9.50			4084	(13.10)	33/64		10414				
(9.52)	3/8		4630	13.10			10414				
(9.58)		V	4630	13.20			10414				
9.60			4630	13.30			10414				
9.70			4630	13.40			10414				
9.80			4630	(13.49)	17/32		11085				
(9.80)		W	4630	13.50			11085				
9.90			5182	13.60			11085				
(9.92)	25/64		5182	13.70			11085				

**MOQ : 0.3 mm to 5 mm – 200 Nos.
5.1 mm to 10.6 mm – 100 Nos
10.7 mm to 13 mm – 50 Nos
over 13 mm – 20 Nos each**

Ground Drills can be supplied upto 13mm at Standard Prices

Set Price

1.0mm to 13.0mm in steps of 0.5mm
25 pcs Set with Metal Box - Rs.8933
25 pcs Set with Telescopic Box - Rs.7845
1.0mm to 13.0mm in steps of 1.0mm
13 pcs Set with Telescopic Box - Rs.4132

**HSS PARALLEL SHANK TWIST DRILLS
STUB SERIES**

**IS 5100 - 1969
BS 328 (PART 1) 1986**

Size		Price Per 10 Nos. Rs.	Size		Price Per 10 Nos. Rs.	Size		Price Per 10 Nos. Rs.
mm	Inch		mm	Inch		mm	Inch	
3.00		440	(10.72)	27/64	5740	19.75		14020
(3.17)	1/8	510	10.80		5740	(19.84)	25/32	14020
3.20		535	11.00		5740	20.00		14260
3.50		535	(11.11)	7/16	5979	20.25		14556
(3.57)	9/64	535	11.20		5979	20.50		14556
3.80		741	11.50		6395	(20.64)	13/16	14556
(3.97)	5/32	741	(11.51)	29/64	6395	20.75		15140
4.00		741	11.80		6395	21.00		15140
4.20		824	(11.91)	15/32	6767	21.25		15323
(4.37)	11/64	824	12.00		6767	(21.43)	27/32	15323
4.50		1091	12.20		6767	21.50		15839
(4.76)	3/16	1091	(12.3)	31/64	7354	21.75		16045
4.80		1091	12.50		7354	22.00		16045
5.00		1160	(12.70)	1/2	7512	(22.22)	7/8	16045
(5.16)	13/64	1160	12.80		7512	22.25		17065
5.20		1160	13.00		7512	22.50		17065
5.50		1260	13.20		8796	22.75		17302
(5.56)	7/32	1260	(13.49)	17/32	8796	23.00		17302
5.80		1418	13.50		9374	(23.02)	29/32	17302
(5.95)	15/64	1418	13.80		9374	23.25		18295
6.00		1418	14.00		10207	23.50		18295
6.20		1587	14.25		10207	23.75		18295
(6.35)	1/4	1587	(14.29)	9/16	10207	(23.81)	15/16	18295
6.50		1954	14.50		10630	24.00		20247
(6.75)	17/64	1954	14.75		11494	24.25		20247
6.80		1954	15.00		11494	24.50		20247
7.00		2143	(15.08)	19/32	11494	(24.61)	31/32	20247
(7.14)	9/32	2143	15.25		11494	24.75		22209
7.20		2143	15.50		12442	25.00		22209
7.50		2227	15.75		12442	25.25		22318
(7.54)	19/64	2445	(15.87)	5/8	12442	(25.40)	1	22318
7.80		2445	16.00		12442	25.50		25188
7.94	5/16	2690	16.25		12641	26.00		25188
8.00		2690	16.50		12641	(26.19)	1.1/32	25769
8.20		2690	(16.67)	21/32	12641	26.50		25769
(8.33)	21/64	3360	16.75		12896	(26.99)	1.1/16	26068
8.50		3360	17.00		12896	27.00		27470
(8.73)	11/32	3505	17.25		13130	27.50		27470
8.80		3505	(17.46)	11/16	13130	(27.78)	1.3/32	29072
9.00		3505	17.50		13130	28.00		29072
(9.13)	23/64	3703	17.75		13309	28.50		29293
9.20		3703	18.00		13309	(28.57)	1.1/8	29293
9.50		3703	18.25		13545	29.00		30739
(9.52)	3/8	3870	(18.26)	23/32	13545	(29.37)	1.5/32	33839
9.80		3870	18.50		13545	29.50		33839
(9.92)	25/64	4735	18.75		13786	30.00		34291
10.00		4735	19.00		13786	(30.16)	1.3/16	34291
10.20		4735	(19.05)	3/4	13786	30.50		38588
(10.32)	13/32	5097	19.25		14020	(30.96)	1.7/32	38588
10.50		5097	19.50		14020	31.00		38588

**HSS PARALLEL SHANK TWIST DRILLS
STUB SERIES**

**IS 5100 - 1969
BS 328 (PART 1) 1986**

Size		Price Per 10 Nos. Rs.	Size		Price Per 10 Nos. Rs.	Size		Price Per 10 Nos. Rs.
mm	Inch		mm	Inch		mm	Inch	
31.50		39168	(34.92)	1.3/8	47637	(38.10)	1.1/2	57964
(31.75)	1.1/4	39168	35.00		52380	38.50		64724
32.00		40011	35.50		53127	39.00		64724
32.50		41264	(35.72)	1.13/32	53127	39.50		65839
(32.54)	1.9/32	41264	36.00		53127	40.00		65839
33.00		41264	36.50		53127			
(33.34)	1.5/16	41264	(36.51)	1.7/16	53127			
33.50		43406	37.00		57109			
34.00		43406	(37.31)	1.15/32	57964			
(34.13)	1.11/32	47637	37.50		57964			
34.50		47637	38.00		57964			

M.O.Q. – For sizes :

Upto 5 mm	– 200 Nos. each	10.7 mm to 23 mm	– 50 Nos. each
5.1 to 10.6 mm	– 100 Nos. each	Above 23 mm to 31.5 mm	– 25 Nos. each
Above 31.5 mm	– 10 Nos. each		

**HSS PARALLEL SHANK TWIST DRILLS
LONG SERIES**

**IS 5102 - 1969
BS 328 (PART 1) 1986**

Size		Price Each Rs.	Size		Price Each Rs.	Size		Price Each Rs.
mm	Inch		mm	Inch		mm	Inch	
1.00		235	3.50		301	7.80		834
1.10		235	(3.57)	9/64	301	(7.94)	5/16	860
(1.19)	3/64	235	3.80		324	8.00		860
1.20		235	(3.97)	5/32	324	8.20		860
1.30		235	4.00		324	(8.33)	21/64	860
1.40		235	4.20		324	8.50		867
1.50		235	(4.37)	11/64	324	(8.73)	11/32	910
(1.59)	1/16	235	4.50		324	8.80		1101
1.60		235	(4.76)	3/16	324	9.00		957
1.70		235	4.80		324	(9.13)	23/64	1082
1.80		235	5.00		382	9.20		1101
1.90		235	(5.16)	13/64	382	9.50		957
(1.98)	5/64	235	5.20		382	(9.52)	3/8	957
2.00		235	5.50		438	9.80		1107
2.10		235	(5.56)	7/32	438	(9.92)	25/64	1107
2.20		235	5.80		477	10.00		1002
2.30		298	(5.95)	15/64	477	10.20		1107
(2.38)	3/32	298	6.00		477	(10.32)	13/32	1002
2.40		298	6.20		543	10.50		1202
2.50		298	(6.35)	1/4	495			
2.60		298	6.50		692			
2.70		298	(6.75)	17/64	834			
(2.78)	7/64	298	6.80		834			
2.80		298	7.00		834			
2.90		298	(7.14)	9/32	834			
3.00		301	7.20		834			
(3.17)	1/8	301	7.50		834			
3.20		301	(7.54)	19/64	834			

**HSS PARALLEL SHANK TWIST DRILLS
LONG SERIES**

**IS 5102 - 1969
BS 328 (PART 1) 1986**

Size		Price Per 10 Nos. Rs.	Size		Price Per 10 Nos. Rs.	Size		Price Per 10 Nos. Rs.
mm	Inch		mm	Inch		mm	Inch	
(10.72)	27/64	1366	16.25		2275	21.75		3456
10.8		1366	(16.27)	41/64	2530	(21.83)	55/64	3695
11.0		1258	16.5		2317	22.0		3456
(11.11)	7/16	1258	(16.67)	21/32	2317	(22.22)	7/8	3456
11.2		1462	16.75		2373	22.25		3741
11.5		1294	17.0		2373	22.5		3741
(11.51)	29/64	1462	(17.07)	43/64	2579	(22.62)	57/64	3996
11.8		1462	17.25		2373	22.75		3826
(11.91)	15/32	1294	(17.46)	11/16	2373	23.0		3826
12.0		1333	17.5		2530	(23.02)	29/32	3826
12.2		1487	17.75		2530	23.25		3877
(12.30)	31/64	1487	(17.86)	45/64	2798	(23.42)	59/64	4569
12.5		1333	18.0		2579	23.5		4244
(12.70)	1/2	1333	18.25		2579	23.75		4244
12.8		2042	(18.26)	23/32	2579	(23.81)	15/16	4244
13.0		1851	18.5		2686	24.0		4424
(13.10)	33/64	2057	(18.65)	47/64	2708	(24.21)	61/64	4829
13.2		2057	18.75		2735	24.25		4424
(13.49)	17/32	1887	19.0		2735	24.5		4424
13.5		2057	(19.05)	3/4	2735	(24.61)	31/32	4424
13.8		2239	19.25		2891	24.75		4743
(13.89)	35/64	2239	(19.45)	49/64	3158	25.0	63/64	4743
14.0		2057	19.5		2891	(25.40)	1	4805
14.25		2057	19.75		2891			
(14.29)	9/16	2057	(19.84)	25/32	2891			
14.5		2156	20.0		3068			
(14.68)	37/64	2373	(20.24)	51/64	3257			
14.75		2156	20.25		3068			
15.0		2156	20.5		3068			
(15.08)	19/32	2156	(20.64)	13/16	3068			
15.25		2239	20.75		3158			
(15.48)	39/64	2446	21.0		3158			
15.5		2239	(21.03)	53/64	3456			
15.75		2239	21.25		3257			
(15.87)	5/8	2239	(21.43)	27/32	3257			
16.0		2275	21.5		3456			

M.O.Q. – For sizes :
Upto 9.5 mm – 50 Nos. each
above 9.5 mm – 25 Nos. each

HSS TAPER SHANK TWIST DRILLS

**IS 5103 - 1969
BS 328 (PART 1) 1986**

Size		Price Each Rs.	Size		Price Each Rs.	Size		Price Each Rs.
mm	Inch		mm	Inch		mm	Inch	
3.00		370	11.50		1151	(19.84)	25/32	2645
(3.17)	1/8	370	(11.51)	29/64	1151	20.00		2844
3.20		387	11.80		1151	(20.24)	51/64	2878
3.50		370	(11.91)	15/32	1151	20.25		2878
(3.57)	9/64	387	12.00		1163	20.50		2878
3.80		387	12.20		1163	(20.64)	13/16	2878
(3.97)	5/32	370	(12.30)	31/64	1163	20.75		3002
4.00		370	12.50		1163	21.00		3002
4.20		498	(12.70)	1/2	1163	(21.03)	53/64	3077
(4.37)	11/64	498	12.80		1616	21.25		3077
4.50		498	13.00		1616	(21.43)	27/32	3077
(4.76)	3/16	498	(13.10)	33/64	1687	21.50		3172
4.80		512	13.20		1687	21.75		3172
5.00		498	(13.49)	17/32	1687	(21.83)	55/64	3230
(5.16)	13/64	512	13.50		1807	22.00		3230
5.20		512	13.80		1807	(22.22)	7/8	3230
5.50		498	(13.89)	35/64	1807	22.25		3520
(5.56)	7/32	498	14.00		1807	22.50		3520
5.80		512	14.25		1941	(22.62)	57/64	3588
(5.95)	15/64	512	(14.29)	9/16	1941	22.75		3588
6.00		498	14.50		2018	23.00		3588
6.20		574	(14.68)	37/64	2018	(23.02)	29/32	3764
(6.35)	1/4	568	14.75		2018	23.25		4167
6.50		619	15.00		2018	(23.42)	59/64	4272
(6.75)	17/64	627	(15.08)	19/32	2018	23.50		4272
6.80		627	15.25		2046	23.75		4272
7.00		619	(15.48)	39/64	2046	(23.81)	15/16	4272
(7.14)	9/32	619	15.50		2046	24.00		4398
7.20		627	15.75		2046	(24.21)	61/64	4472
7.50		619	(15.87)	5/8	2046	24.25		4472
(7.54)	19/64	627	16.00		2107	24.50		4472
7.80		627	16.25		2107	(24.61)	31/32	4472
(7.94)	5/16	619	(16.27)	41/64	2107	24.75		4673
8.00		619	16.50		2238	25.00		4673
8.20		756	(16.67)	21/32	2238	(25.00)	63/64	4673
(8.33)	21/64	796	16.75		2238	25.25		4735
8.50		690	17.00		2238	(25.40)	1	4735
(8.73)	11/32	756	(17.07)	43/64	2275	25.50		5147
8.80		831	17.25		2275	25.75		5147
9.00		756	(17.46)	11/16	2275	(25.80)	1.1/64	5203
(9.13)	23/64	831	17.5		2361			
9.20		831	17.75		2395			
9.50		756	(17.86)	45/64	2488			
(9.52)	3/8	756	18.00		2488			
9.80		892	18.25		2488			
(9.92)	25/64	892	(18.26)	23/32	2488			
10.00		807	18.50		2488			
10.20		907	(18.65)	47/64	2518			
(10.32)	13/32	876	18.75		2518			
10.50		1075	19.00		2518			
(10.72)	27/64	1114	(19.05)	3/4	2518			
10.80		1114	19.25		2645			
11.00		1114	(19.45)	49/64	2645			
(11.11)	7/16	1114	19.50		2645			
11.20		1151	19.75		2645			

HSS TAPER SHANK TWIST DRILLS

**IS 5103 - 1969
BS 328 (PART 1) 1986**

Size		Price Each Rs.	Size		Price Each Rs.	Size		Price Each Rs.
mm	Inch		mm	Inch		mm	Inch	
26.00		5203	(35.72)	1.13/32	12912	(48.02)	1.57/64	25098
(26.19)	1.1/32	5203	36.00		13102	(48.42)	1.29/32	25098
26.25		5574	(36.12)	1.27/64	13371	48.50		25283
26.50		5574	36.50		13371	(48.82)	1.59/64	25283
(26.59)	1.3/64	5703	(36.51)	1.7/16	13371	49.00		25283
26.75		5703	(36.91)	1.29/64	13371	(49.21)	1.15/16	25283
(26.99)	1.1/16	5703	37.00		13701	49.50		25554
27.00		5889	(37.31)	1.15/32	13701	(49.61)	1.61/64	25554
27.25		5889	37.50		14591	50.00		25554
(27.38)	1.5/64	5909	(37.70)	1.31/64	14820	(50.01)	1.31/32	25756
27.50		5909	38.00		14820	(50.40)	1.63/64	26913
27.75		5909	(38.10)	1.1/2	14820	50.50		26913
(27.78)	1.3/32	5909	(38.50)	1.33/64	15282	(50.80)	2	26913
28.00		6460	38.50		15282	51.00		36540
(28.18)	1.7/64	6479	(38.89)	1.17/32	15282	51.50		36540
28.25		6479	39.00		16184	(51.59)	2.1/32	36540
28.50		6479	(39.29)	1.35/64	16184	52.00		36540
(28.57)	1.1/8	6479	39.50		16184	(52.39)	2.1/16	36540
28.75		6675	(39.69)	1.9/16	16184	52.50		47556
(28.97)	1.9/64	6784	40.00		16601	53.00		47556
29.00		6784	(40.08)	1.37/64	16874	(53.18)	2.3/32	47556
29.25		6784	(40.48)	1.19/32	16874	53.50		47556
(29.37)	1.5/32	6784	40.50		17549	(53.97)	2.1/8	47556
29.50		6810	(40.88)	1.39/64	17549	54.00		47556
29.75		6810	41.00		17549	54.50		49957
(29.77)	1.11/64	6952	(41.27)	1.5/8	17549	(54.77)	2.5/32	49957
30.00		6952	41.50		18238	55.00		49957
(30.16)	1.3/16	7342	(41.67)	1.41/64	18238	55.50		49957
30.25		7906	42.00		18238	(55.56)	2.3/16	49957
30.50		7906	(42.07)	1.21/32	18238	56.00		52057
(30.56)	1.13/64	8033	(42.47)	1.43/64	18704	(56.36)	2.7/32	52057
30.75		8033	42.50		18704	56.50		52057
(30.96)	1.7/32	8033	(42.86)	1.11/16	18933	57.00		52057
31.00		8940	43.00		19378	(57.15)	2.1/4	52057
31.25		8940	(43.26)	1.45/64	19378	57.50		56811
(31.35)	1.15/64	9330	43.50		19378	(57.94)	2.9/32	56811
31.50		9330	(43.66)	1.23/32	19378	58.00		56811
(31.75)	1.1/4	9330	44.00		20063	58.50		56811
31.75		9330	(44.05)	1.47/64	20063			
32.00		10215	(44.45)	1.3/4	20063			
(32.15)	1.17/64	10215	44.50		20063			
32.50		10215	(44.85)	1.49/64	20533			
(32.54)	1.9/32	10215	45.00		20533			
(32.94)	1.19/64	10460	(45.24)	1.25/32	20533			
33.00		10460	45.50		21463			
(33.34)	1.5/16	10460	(45.64)	1.51/64	21463			
33.50		10819	46.00		21463			
(33.73)	1.21/64	11022	(46.04)	1.13/16	21463			
34.00		11022	(46.43)	1.53/64	22546			
(34.13)	1.11/32	11490	46.50		22546			
34.50		12072	(46.83)	1.27/32	22546			
(34.53)	1.23/64	12183	47.00		22546			
(34.92)	1.3/8	12183	(47.23)	1.55/64	23016			
35.00		12183	47.50		23016			
(35.32)	1.25/64	12912	(47.62)	1.7/8	23016			
35.50		12912	48.00		25098			

HSS TAPER SHANK TWIST DRILLS

**IS 5103 - 1969
BS 328 (PART 1) 1986**

Size		Price Each Rs.	Size		Price Each Rs.	Size		Price Each Rs.
mm	Inch		mm	Inch		mm	Inch	
(58.74)	2.5/16	56811	(72.23)	2.27/32	91298	90.00		190653
59.00		57896	72.50		91298	(90.49)	3.9/16	197764
59.50		57896	73.00		91298	91.00		197764
(59.53)	2.11/32	57896	(73.02)	2.7/8	91298	92.00		197764
60.00		57896	73.50		96148	(92.07)	3.5/8	204221
(60.32)	2.3/8	57896	(73.82)	2.29/32	97165	93.00		204221
60.50		61540	74.00		97165	(93.66)	3.11/16	211945
61.00		61540	74.50		97165	94.00		211945
(61.12)	2.13/32	61540	(74.61)	2.15/16	97165	95.00		211945
61.50		61540	75.00		98374	(95.25)	3.3/4	211945
(61.91)	2.7/16	61540	(75.41)	2.31/32	98374	96.00		219041
62.00		61540	75.50		98374	(96.84)	3.13/16	219041
62.50		61540	76.00		98374	97.00		219041
(62.71)	2.15/32	62576	(76.20)	3	98374	98.00		222915
63.00		62576	(76.99)	3.1/32	134580	(98.42)	3.7/8	226097
(63.50)	2.1/2	62576	77.00		134580	99.00		226097
64.00		69161	(77.79)	3.1/16	134580	100.00		226097
(64.29)	2.17/32	69161	78.00		134580	(100.01)	3.15/16	229970
64.50		69161	(78.58)	3.3/32	137264	101.00		229070
65.00		69161	79.00		137264	(101.60)	4	229970
(65.09)	2.9/16	69161	(79.37)	3.1/8	140908	102.00		229970
65.50		69676	80.00		140908			
(65.88)	2.19/32	69676	(80.17)	3.5/32	150713			
66.00		69676	(80.96)	3.3/16	150713			
66.50		69676	81.00		150713			
(66.67)	2.5/8	69676	(81.76)	3.7/32	154631			
67.00		71375	82.00		154631			
(67.47)	2.21/32	76617	(82.55)	3.1/4	154631			
67.50		76617	83.00		157825			
68.00		76617	(83.34)	3.9/32	157825			
(68.26)	2.11/16	76617	84.00		157825			
68.50		82194	(84.14)	3.5/16	160449			
69.00		83047	(84.93)	3.11/32	160449			
(69.05)	2.23/32	83047	85.00		160449			
69.50		83047	(85.72)	3.3/8	183016			
(69.85)	2.3/4	83047	86.00		183016			
70.00		83047	(86.52)	3.13/32	183016			
70.50		88603	87.00		183016			
(70.64)	2.25/32	89567	(87.31)	3.7/16	186843			
71.00		89567	88.00		186843			
(71.44)	2.13/16	89567	(88.11)	3.15/32	186843			
71.50		89567	(88.90)	3.1/2	186843			
72.00		91298	89.00		186843			

M.O.Q. - For sizes

3.0 to 9.95 mm	-	100 Nos. each
10.0 to 31.75 mm	-	50 Nos. each
above 31.75 to 36.0 mm	-	15 Nos. each
above 36.0 to 50.80 mm	-	10 Nos. each
above 50.80 to 67.00	-	5 Nos. each
above 67.00 to 76.20	-	3 Nos. each
above 76.50 to 102	-	2 Nos. each

HSS TAPER SHANK TWIST DRILL (WITH CRANK SHAFT DESIGN)

**IS 5103 - 1969
BS 328 (PART 1) 1986**

SIZE		Price each (Rs.)		SIZE		Price each (Rs.)	
mm	Inch	M2 HSS	M35 HSS	mm	Inch	M2 HSS	M35 HSS
3.00		500	749	(11.51)	29/64	1554	2331
(3.17)	1/8	522	784	11.80		1554	2331
3.20		522	784	(11.91)	15/32	1570	2335
3.50		500	749	12.00		1570	2355
(3.57)	9/64	522	784	12.20		1570	2355
3.80		522	784	(12.30)	31/64	1570	2355
(3.97)	5/32	500	749	12.50		1570	2355
4.00		500	749	(12.70)	1/2	2182	3272
4.20		672	1008	12.80		2182	3272
(4.37)	11/64	672	1008	13.00		2182	3272
4.50		672	1008	(13.10)	33/64	2277	3416
(4.76)	3/16	691	1037	13.20		2277	3416
4.80		691	1037	(13.49)	17/32	2439	3659
5.00		672	1008	13.50		2439	3659
(5.16)	13/64	691	1037	13.80		2439	3659
5.20		691	1037	(13.89)	35/64	2439	3659
5.50		672	1008	14.00		2439	3659
(5.56)	7/32	691	1037	14.25		2620	3931
5.80		691	1037	(14.29)	9/16	2620	3931
(5.95)	15/64	691	1037	14.50		2724	4086
6.00		672	1008	(14.68)	37/64	2724	4086
6.20		775	1162	14.75		2724	4086
(6.35)	1/4	836	1253	15.00		2724	4086
6.50		836	1253	(15.08)	19/32	2724	4086
(6.75)	17/64	846	1270	15.25		2762	4143
6.80		846	1270	(15.48)	39/64	2762	4143
7.00		836	1253	15.50		2762	4143
(7.14)	9/32	846	1270	15.75		2762	4143
7.20		846	1270	(15.87)	5/8	2844	4267
7.50		836	1253	16.00		2844	4267
(7.54)	19/64	846	1270	16.25		2844	4267
7.80		846	1270	(16.27)	41/64	2844	4267
(7.94)	5/16	836	1253	16.50		3021	4532
8.00		836	1253	(16.67)	21/32	3021	4532
8.20		1021	1531	16.75		3021	4532
(8.33)	21/64	932	1397	17.00		3021	4532
8.50		932	1397	(17.07)	43/64	3021	4532
(8.73)	11/32	1122	1683	17.25		3071	4607
8.80		1122	1683	(17.46)	11/16	3187	4781
9.00		1021	1531	17.50		3187	4781
(9.13)	23/64	1122	1683	17.75		3233	4850
9.20		1122	1683	(17.86)	45/64	3359	5038
9.50		1021	1531	18.00		3359	5038
(9.52)	3/8	1021	1531	18.25		3359	5038
9.80		1204	1806	(18.26)	23/32	3359	5038
(9.92)	25/64	1089	1634	18.50		3359	5038
10.00		1089	1634	(18.65)	47/64	3399	5099
10.20		1224	1837	18.75		3399	5099
(10.32)	13/32	1451	2177	19.00		3399	5099
10.50		1451	2177	(19.05)	3/4	3399	5099
(10.72)	27/64	1504	2256	19.25		3571	5356
10.80		1504	2256	(19.45)	49/64	3571	5356
11.00		1504	2256	19.50		3571	5356
(11.11)	7/16	1554	2331	19.75		3571	5356
11.20		1554	2331	(19.84)	25/32	3839	5759
11.50		1554	2331	20.00		3839	5759

MOQ : 3 MM TO 9.95 MM - 100 NOS EACH
10 MM TO 20 MM - 50 NOS EACH

**HSS PARALLEL SHANK TWIST DRILLS
EXTRA LONG**

TO OUR STANDARD

Size		Price Each Rs.						
		Overall Length in millimeter						
mm	Inch	150	175	200	225	250	300	350
3	1/8	867	1061	1200	1428	1683	2100	-
3.5		844	983	1265	1572	1892	2413	-
4	5/32	844	983	1265	1572	1892	2413	3328
4.5		865	1061	1265	1572	1892	2485	3328
5	3/16	865	1104	1370	1682	1987	2633	3492
5.5	7/32	946	1180	1465	1793	2115	2798	3640
6		946	1232	1507	1825	2189	2866	3777
6.5	1/4	-	-	1542	-	2230	3002	3777
7		-	-	1711	-	2453	3393	4241
7.5	9/32	-	-	1743	-	2606	3456	4241
8	5/16	-	-	1828	-	2716	3540	4340
8.5	11/32	-	-	1887	-	2772	3606	4635
9		-	-	1887	-	2772	3606	4635
9.5	3/8	-	-	1987	-	2789	3684	4784
10		-	-	2069	-	2867	3849	4999
10.5	13/32	-	-	2139	-	3061	3993	5257
11		-	-	-	-	3168	4115	5424
11.5	7/16	-	-	-	-	3168	4115	5424
12	15/32	-	-	-	-	3325	4364	5566
12.5	1/2	-	-	-	-	3428	4505	5935

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

M.O.Q. - For sizes :

Upto 5 mm - 50 Nos. each
Above 5 mm - 35 Nos. each

**HSS TAPER SHANK TWIST DRILLS
LONG SERIES**

IS 8305 - 1976 (Type N)

Size		OAL	Price Each	Size		OAL	Price Each	Size		OAL	Price Each
mm	Inch	mm	Rs.	mm	Inch	mm	Rs.	mm	Inch	mm	Rs.
5	(3/16)	155	1136	10.2		197	2191	15.5		251	4317
5.2		155	1136	10.5		197	2191	15.75		251	4426
5.5	(7/32)	161	1265	10.8		206	2239	16	(5/8)	251	4426
5.8		161	1265	11		206	2239	16.25		257	4505
6		161	1265	11.2		206	2322	16.5		257	4505
6.2		167	1409	11.5	(7/16)	206	2322	16.75		257	4600
6.5	(1/4)	167	1409	11.8		206	2322	17		257	4600
6.8		174	1519	12		215	2753	17.25		263	4995
7		174	1519	12.2		215	2902	17.5	(11/16)	263	4995
7.2		174	1569	12.5	(1/2)	215	2902	17.75		263	5007
7.5		174	1569	12.8		215	2902	18		263	5007
7.8		181	1657	13		215	2902	18.25		269	5086
8	(5/16)	181	1657	13.2		215	2902	18.5		269	5086
8.2		181	1691	13.5		223	3180	18.75		269	5168
8.5		181	1691	13.8		223	3308	19	(3/4)	269	5168
8.8		188	1833	14		223	3308	19.25		275	5309
9		188	1833	14.25		245	4129	19.5		275	5309
9.2		188	1877	14.5	(9/16)	245	4129	19.75		275	5397
9.5	(3/8)	188	1877	14.75		245	4219				
9.8		197	2131	15		245	4219				
10		197	2131	15.25		251	4317				

**HSS TAPER SHANK TWIST DRILLS
LONG SERIES**

IS 8305 - 1976 (Type N)

Size		OAL	Price Each	Size		OAL	Price Each	Size		OAL	Price Each
mm	Inch	mm	Rs.	mm	Inch	mm	Rs.	mm	Inch	mm	Rs.
20		275	5397	29.5		351	14408	46	(1.13/16)	459	38054
20.25		282	5487	29.75		351	14816	46.5		459	39602
20.5		282	5487	30	(1.3/16)	351	14816	47		459	39602
20.75		282	5588	30.25		360	15210	47.5		459	41603
21	(13/16)	282	5588	30.5		360	15210	48	(1.7/8)	470	41603
21.25		289	6491	30.75		360	15210	48.5		470	45563
21.5		289	6491	31		360	15210	49	(1.15/16)	470	45563
21.75		289	6621	31.25		360	15320	49.5		470	45563
22		289	6621	31.5		360	15320	50		470	47911
22.25		289	7071	31.75	(1.1/4)	369	15911				
22.5	(7/8)	296	7071	32		397	18328				
22.75		296	7411	32.5		397	19119				
23		296	7411	33	(1.5/16)	397	19119				
23.25		319	9054	33.5		397	19952				
23.5		319	9054	34		406	19952				
23.75		327	9054	34.5		406	20824				
24	(15/16)	327	9054	35	(1.3/8)	406	20824				
24.25		327	9450	35.5		406	20824				
24.5		327	9450	36		416	22820				
24.75		327	9794	36.5		416	23673				
25		327	9794	37	(1.7/16)	416	23673				
25.25		335	9794	37.5		416	25636				
25.5	(1)	335	9794	38	(1.1/2)	426	25636				
25.75		335	10187	38.5		426	26478				
26		335	10187	39		426	26478				
26.25		335	10481	39.5		426	27527				
26.5		335	10481	40		426	27527				
26.75		343	12421	40.5		436	27527				
27	(1.1/16)	343	12421	41	(1.5/8)	436	27527				
27.25		343	12818	41.5		436	28934				
27.5		343	12818	42		436	28934				
27.75		343	13211	42.5		436	30612				
28		343	13211	43		447	32886				
28.25		351	13637	43.5		447	34667				
28.5	(1.1/8)	351	13637	44		447	34667				
28.75		351	14020	44.5		447	36093				
29		351	14020	45	(1.3/4)	447	36093				
29.25		351	14408	45.5		459	38054				

M.O.Q. - For sizes :
5 mm to 31.75 mm – 25 Nos. each
Above 31.75 mm – 10 Nos. each

**HSS TAPER SHANK TWIST DRILLS
EXTRA LONG**

TO OUR STANDARD

Size		Price Each Rs.									
		Overall Length in millimeter									
mm	Inch	200	225	250	275	300	315	325	350	375	400
3	1/8	1597	1877	2079	2366	2682	-	3097	-	-	-
3.5		1642	1877	2137	2424	2752	-	3182	-	-	-
4	5/32	1642	1877	2137	2424	2752	-	3182	-	-	-
4.5		1683	1930	2137	2482	2918	-	3347	-	-	-
5	3/16	1683	1930	2137	2482	2918	-	3347	-	-	-
5.5	7/32	1683	1943	2241	2629	2980	-	3436	-	-	-
6		1693	1943	2265	2629	2980	3257	3436	-	-	-
6.5	1/4	1717	2006	2276	2761	3097	3359	3538	-	-	-
7		1870	2107	2365	2813	3242	3565	3715	-	-	-
7.5		1892	2159	2433	2865	3326	3644	3786	-	-	-
8	5/16	1976	2207	2530	2968	3410	3703	3891	-	-	-
8.5		2042	2290	2580	3020	3473	3747	3999	-	-	-
9		2074	2324	2641	3036	3500	3846	4032	-	-	-
9.5	3/8	2126	2351	2641	3120	3588	3897	4050	-	-	-
10		2131	2411	2720	3175	3657	3993	4163	4659	5253	5843
10.5		2191	2502	2902	3355	3846	4164	4373	5000	5618	6331
11		2240	2580	2930	3410	3916	4300	4485	5091	5709	6383
11.5	7/16	2322	2633	3005	3493	4012	4373	4569	5229	5859	6550
12		-	2633	3136	3632	4163	4543	4772	5397	5992	6721
12.5	1/2	-	2902	3242	3764	4291	4689	4905	5651	6379	7207
13		-	-	3846	4405	5000	5429	5709	6496	7291	8191
13.5		-	-	3969	4493	5136	5561	5812	6620	7473	8397
14		-	-	4101	4627	5229	5673	5906	6750	7627	8558

Contd. in Page No. 18 TO 31

**HSS TAPER SHANK TWIST DRILLS
EXTRA LONG**

TO OUR STANDARD

Size		Price Each Rs.					
		Overall Length in millimeter					
mm	Inch	250	275	300	315	325	350
14.5	9/16	4129	4690	5306	5704	5992	6880
15		4219	4793	5434	5825	6138	7017
15.5		4317	4904	5487	5939	6222	7124
16	5/8	4426	4986	5597	6023	6334	7227
16.5		4505	5052	5704	6138	6433	7361
17		4600	5174	5764	6211	6519	7473
17.5	11/16	-	-	5906	6331	6646	7617
18		-	-	5992	6472	6750	7740
18.5		-	-	6088	6550	6872	7808
19	3/4	-	-	6196	6646	6975	7936
19.5		-	-	6272	6721	7042	8080
20		-	-	6379	6831	7178	8173
20.5		-	-	6496	6955	7278	8309
21	13/16	-	-	6613	7090	7401	8488
21.5		-	-	6750	7207	7525	8637
22		-	-	6898	7400	7740	8798
22.5	7/8	-	-	7081	7556	7906	8947
23		-	-	7411	7910	8199	9243
23.5		-	-	8142	-	9054	9922
24	15/16	-	-	8142	-	9054	10021
24.5		-	-	8397	-	9450	10478
25		-	-	-	-	9794	10864
25.5	1	-	-	-	-	-	11200
26		-	-	-	-	-	11655
26.5		-	-	-	-	-	12004
27	1.1/16	-	-	-	-	-	12421
27.5		-	-	-	-	-	12818
28		-	-	-	-	-	13211
28.5	1.1/8	-	-	-	-	-	13637
29		-	-	-	-	-	14020
29.5		-	-	-	-	-	14408
30	1.3/16	-	-	-	-	-	14816
31	1.1/4	-	-	-	-	-	15210
32		-	-	-	-	-	15320

**HSS TAPER SHANK TWIST DRILLS
EXTRA LONG**

TO OUR STANDARD

Size		Price Each Rs.						
		Overall Length in millimeter						
mm	Inch	375	400	425	450	475	500	525
14.5	9/16	7759	8708	10238	11428	12860	14422	–
15		7868	8851	10193	11566	12988	14569	–
15.5		8018	8972	10266	11677	13102	14694	–
16	5/8	8142	9153	10479	11879	13261	14857	–
16.5		8293	9347	10637	12004	13396	14948	–
17		8404	9450	10764	12154	13526	15088	–
17.5	11/16	8546	9563	10893	12294	13697	15229	–
18		8695	9738	11030	12421	13841	15376	17067
18.5		8798	9890	11169	12564	13936	15524	17232
19	3/4	8934	10021	11287	12707	14073	15613	17330
19.5		9110	10225	11428	12857	14241	15766	17500
20		9232	10372	11655	12988	14396	15958	17713
20.5		9347	10528	11796	13211	14618	16198	17980
21	13/16	9541	10699	12049	13436	14886	16452	18262
21.5		9724	10903	12229	13720	15155	16787	18634
22		9890	11086	12421	13933	15396	17053	18929
22.5	7/8	10021	11205	12635	14126	15661	17336	19243
23		10239	11405	12818	14384	15893	17589	19524
23.5		10908	11795	13252	14792	16373	18129	20123
24	15/16	11049	12207	13669	15261	16819	18613	20660
24.5		11428	12623	14119	15695	17311	19119	21031
25		11879	13012	14518	16149	17793	19653	21618
25.5	1	12229	13399	14931	16572	18271	20112	22123
26		12670	13834	15376	17063	18744	20648	22713
26.5		13040	14220	15804	17498	19186	21154	23269
27	1.1/16	13497	14642	16221	17935	19686	21646	23811
27.5		13841	15003	16653	18388	20143	22134	24347
28		14241	15443	17063	18832	21047	22669	24936
28.5	1.1/8	14661	15826	17461	19290	21119	23136	25450
29		15064	16257	17901	19750	21566	23660	26026
29.5		15443	16642	18328	20170	22052	24178	26596
30	1.3/16	15857	17053	18744	20625	22516	24655	27621
31	1.1/4	16254	17466	19207	21160	23103	25350	27632
32		16572	18328	20143	22185	24178	26526	28262
33	1.5/16	–	19119	21039	23173	25260	27685	29534
34		–	19952	21932	24164	26354	28875	30782
35	1.3/8	–	20824	22895	25159	27456	30053	32026
36		–	21646	23764	26133	28513	31231	33219
37	1.7/16	–	22470	24655	27129	29584	32368	34466
38	1.1/2	–	23327	25636	28179	30693	33595	35765
39		–	24178	26760	29075	31668	34598	36828
40		–	25190	27527	30098	32737	35733	37989
41	1.5/8	–	–	–	–	–	36918	39871
42		–	–	–	–	–	38559	41644
43		–	–	–	–	–	40269	43088
44		–	–	–	–	–	41949	44885
45	1.3/4	–	–	–	–	–	43658	46314
46	1.13/16	–	–	–	–	–	45506	48236
47		–	–	–	–	–	47345	50186
48	1.7/8	–	–	–	–	–	49192	52144
49	1.15/16	–	–	–	–	–	51000	54060
50		–	–	–	–	–	53056	56239

**HSS TAPER SHANK TWIST DRILLS
EXTRA LONG**

TO OUR STANDARD

Size		Price Each Rs.					
		Overall Length in millimeter					
mm	Inch	550	575	600	625	650	675
14.5	9/16	–	–	–	–	–	–
15		–	–	–	–	–	–
15.5		–	–	–	–	–	–
16	5/8	–	–	–	–	–	–
16.5		–	–	–	–	–	–
17		–	–	–	–	–	–
17.5	11/16	–	–	–	–	–	–
18		18759	20450	22141	23833	25524	27216
18.5		18939	20647	22355	24062	25770	27477
19	3/4	19048	20765	22483	24200	25918	27635
19.5		19235	20969	22703	24437	26172	27906
20		19469	21224	22980	24735	26490	28246
20.5		19762	21543	23325	25107	26889	28670
21	13/16	20071	21881	23691	25501	27310	29120
21.5		20480	22327	24173	26020	27866	29713
22		20805	22680	24556	26432	28308	30184
22.5		21150	23057	24964	26871	28778	30685
23		21459	23393	25328	27263	29198	31133
23.5		22117	24112	26106	28100	30094	32088
24	15/16	22708	24755	26803	28850	30898	32945
24.5		22943	24855	26958	29061	31164	33267
25		23584	25549	27514	29480	31445	33410
25.5	1	24134	26146	28157	30168	32179	34190
26		24778	26842	28907	30972	33037	35102
26.5		25385	27500	29616	31731	33846	35962
27	1.1/16	25975	28140	30304	32469	34634	36798
27.5		26561	28774	30988	33201	35414	37628
28		27203	29470	31737	34004	36270	38537
28.5	1.1/8	27763	30077	32390	34704	37018	39331
29		28392	30758	33124	35490	37856	40222
29.5		29014	31431	33849	36267	38685	41103
30	1.3/16	29586	32052	34476	36983	39448	41914
31	1.1/4	29913	32195	34517	37144	39507	42014
32		30523	32784	35045	37306	39567	42714
33	1-5/16	31897	34259	36622	38985	41348	43710
34		33245	35707	38170	40632	43095	45557
35	1-3/8	34588	37150	39712	42274	44836	47398
36	1-7/16	35877	38534	41192	43849	46507	49164
37		37223	39981	42738	45495	48252	51010
38	1-1/2	38626	41487	44349	47210	50071	52932
39		39774	42720	45667	48613	51559	54505
40		41028	44067	47106	50145	53185	56224
41	1-5/8	42825	45778	48732	51685	54639	57592
42		44728	47813	50898	53983	57067	60001
43		45907	48725	51544	54363	57182	60152
44		47822	50758	53695	56631	59568	62504
45	1-3/4	49770	52826	55882	58938	61888	64619
46	1-13/16	50967	53697	56427	59158	61994	65050
47		53026	55867	58708	61549	64389	67230
48	1-7/8	55095	58047	60998	63950	66901	69853
49	1-15/16	57120	60180	63240	66300	69360	72420
50		59423	62606	65789	68973	72156	75340

**HSS TAPER SHANK TWIST DRILLS
EXTRA LONG**

TO OUR STANDARD

Size		Price Each Rs.					
		Overall Length in millimeter					
mm	Inch	700	725	750	775	800	825
14.5	9/16	—	—	—	—	—	—
15		—	—	—	—	—	—
15.5		—	—	—	—	—	—
16	5/8	—	—	—	—	—	—
16.5		—	—	—	—	—	—
17		—	—	—	—	—	—
17.5	11/16	—	—	—	—	—	—
18		28907	30598	32290	33981	35672	37364
18.5		29185	30893	32600	34308	36016	37723
19	3/4	29352	31070	32787	34505	36222	37940
19.5		29640	31374	33109	34843	36577	38311
20		30001	31756	33512	35267	37023	38778
20.5		30452	32234	34016	35798	37579	39361
21	13/16	30930	32739	34549	36359	38169	39978
21.5		31560	33406	35253	37099	38946	40792
22		32060	33935	35811	37687	39563	41439
22.5		32592	34499	36406	38313	40220	42126
23		33067	35002	37113	38872	40806	42741
23.5		34083	36077	38071	40065	42059	44053
24	15/16	34992	37040	39087	41135	43182	45230
24.5		35275	37282	39290	41203	43209	45241
25		35375	37341	39306	41271	43237	45252
25.5	1	36202	38213	40224	42235	44246	46258
26		37166	39231	41296	43361	45426	47490
26.5		38077	40193	42308	44423	46539	48654
27	1.1/16	38963	41127	43292	45457	47621	49786
27.5		39841	42055	44268	46481	48695	50908
28		40804	43071	45338	47605	49872	52139
28.5	1.1/8	41645	43958	46272	48586	50899	53213
29		42588	44954	47320	49686	52052	54418
29.5		43520	45938	48356	50774	53192	55609
30	1.3/16	44379	46845	49310	51685	54241	56707
31	1.1/4	44677	46958	49403	51776	54630	56911
32		44974	47235	49496	52757	55018	57279
33	1-5/16	46073	48436	50798	53161	55524	57887
34		48020	50482	52945	55408	57870	60333
35	1-3/8	49961	52523	55085	57647	60209	62771
36	1-7/16	51822	54479	57137	59794	62452	65109
37		53767	56524	59282	62039	64796	67553
38	1-1/2	55793	58655	61516	64377	67238	70099
39		57452	60398	63344	66290	69237	72183
40		59263	62302	65341	68380	71419	74458
41	1-5/8	60546	63499	66452	69406	72359	75313
42		62820	66321	69406	72491	75576	78660
43		63237	67349	70360	73370	76381	79391
44		65440	68377	71313	74250	77186	80123
45	1-3/4	67349	71163	74219	77275	80331	83387
46	1-13/16	68106	72037	74767	77498	81028	83758
47		70071	72911	75752	78593	81733	84574
48	1-7/8	72804	75756	78707	81659	84610	87562
49	1-15/16	75480	78540	81600	84660	87720	90780
50		78523	81706	84890	88073	91256	94440

**HSS TAPER SHANK TWIST DRILLS
EXTRA LONG**

TO OUR STANDARD

Size		Price Each Rs.						
		Overall Length in millimeter						
mm	Inch	850	875	900	925	950	975	1000
14.5	9/16	-	-	-	-	-	-	-
15		-	-	-	-	-	-	-
15.5		-	-	-	-	-	-	-
16	5/8	-	-	-	-	-	-	-
16.5		-	-	-	-	-	-	-
17		-	-	-	-	-	-	-
17.5	11/16	-	-	-	-	-	-	-
18		39055	40746	42438	-	-	-	-
18.5		39431	41139	42846	-	-	-	-
19	3/4	39657	41374	43092	-	-	-	-
19.5		40046	41780	43514	-	-	-	-
20		40533	42289	44044	-	-	-	-
20.5		41143	42925	44706	-	-	-	-
21	13/16	41788	43598	45408	-	-	-	-
21.5		42639	44486	46332	-	-	-	-
22		43315	45190	47066	48942	50818	52694	54570
22.5		44033	45940	47847	49754	51661	53568	55475
23		44676	46611	48546	50480	52415	54350	56637
23.5		46048	48042	50036	52030	54024	56019	58013
24	15/16	47277	49324	51372	53419	55467	57514	59562
24.5		47297	49353	51385	53441	55473	57604	59660
25		47317	49383	51398	53463	55478	57694	59759
25.5	1	48269	50280	52291	54302	56314	58325	60336
26		49555	51620	53685	55750	57814	59879	61944
26.5		50770	52885	55000	57116	59231	61347	63462
27	1.1/16	51950	54115	56280	58444	60609	62773	64938
27.5		53122	55335	57548	59762	61975	64189	66402
28		54406	56673	58939	61206	63473	65740	68007
28.5	1.1/8	55526	57840	60154	62467	64781	67094	69408
29		56784	59150	61516	63882	66248	68614	70980
29.5		58027	60445	62863	65281	67698	70116	72534
30	1.3/16	59172	61474	64062	66364	68746	71070	73237
31	1.1/4	59193	61638	64083	66464	68789	71091	73372
32		59540	61801	64103	66528	68830	71211	73472
33	1-5/16"	60249	62612	64975	67338	69700	72063	74426
34		62795	65258	67720	70183	72646	75108	77571
35	1-3/8"	65333	67895	70457	73019	75581	78143	80706
36	1-7/16"	67767	70424	73082	75739	78397	81054	83712
37		70311	73068	75825	78582	81340	84097	86854
38	1-1/2"	72961	75822	78683	81544	84405	87267	90128
39		75129	78075	81022	83968	86914	89860	92807
40		77498	80537	83576	86615	89654	92693	95732
41	1-5/8"	78266	81220	84173	87126	90080	93033	95987
42		78999	82084	85169	88189	91008	93827	96646
43		79733	82551	85370	88254	91274	94359	96911
44		83059	85995	88932	91868	94805	97741	100678
45	1-3/4"	86443	89219	91949	95006	98016	100792	103848
46	1-13/16"	86489	89499	92555	95285	98062	101205	104459
47		87414	90255	93096	95937	98777	101618	106341
48	1-7/8"	90513	93465	96416	99368	102319	105271	108222
49	1-15/16"	93840	96900	99960	103020	106080	109140	112200
50		97623	100806	103990	107173	110356	113540	116723

**M2 HSS TAPER SHANK TWIST DRILLS
EXTRA LONG**

IS 7822 - 2005

Size		Price Each Rs.							
		Overall Length in millimeter							
mm	Inch	400	425	450	475	500	525	550	575
50.50		40370	44406	48443	52480	56517	60554	64591	68628
50.8	2	40370	44406	48443	52480	56517	60554	64591	68628
51.00		-	-	52983	56637	60291	63945	67599	71253
51.50		-	-	52983	56637	60291	63945	67599	71253
51.59	2.1/32	-	-	52983	56637	60291	63945	67599	71253
52.00		-	-	52983	56637	60291	63945	67599	71253
52.39	2.1/16	-	-	52983	56637	60291	63945	67599	71253
52.50		-	-	57067	61823	66578	71334	76090	80845
53.00		-	-	57067	61823	66578	71334	76090	80845
53.18	2.3/32	-	-	57067	61823	66578	71334	76090	80845
53.50		-	-	57067	61823	66578	71334	76090	80845
53.97	2.1/8	-	-	57067	61823	66578	71334	76090	80845
54.00		-	-	57067	61823	66578	71334	76090	80845
54.50		-	-	59948	64944	69940	74936	79931	84927
54.77	2.5/32	-	-	59948	64944	69940	74936	79931	84927
55.00		-	-	59948	64944	69940	74936	79931	84927
55.50		-	-	59948	64944	69940	74936	79931	84927
55.56	2.3/16	-	-	59948	64944	69940	74936	79931	84927
56.00		-	-	62468	67674	72880	78086	83291	88497
56.36	2.7/32	-	-	62468	67674	72880	78086	83291	88497
56.50		-	-	62468	67674	72880	78086	83291	88497
57.00		-	-	62468	67674	72880	78086	83291	88497
57.15	2.1/4	-	-	62468	67674	72880	78086	83291	88497
57.50		-	-	65333	73854	79535	85217	90898	96579
57.94	2.9/32	-	-	65333	73854	79535	85217	90898	96579
58.00		-	-	65333	73854	79535	85217	90898	96579
58.50		-	-	65333	73854	79535	85217	90898	96579
58.74	2.5/16	-	-	65333	73854	79535	85217	90898	96579
59.00		-	-	66580	75265	81054	86844	92634	98423
59.50		-	-	66580	75265	81054	86844	92634	98423
59.53	2.11/32	-	-	66580	75265	81054	86844	92634	98423
60.00		-	-	66580	75265	81054	86844	92634	98423
60.32	2.3/8	-	-	66580	75265	81054	86844	92634	98423
60.50		-	-	72617	78771	84925	91079	97233	103387
61.00		-	-	72617	78771	84925	91079	97233	103387
61.12	2.13/32	-	-	72617	78771	84925	91079	97233	103387
61.50		-	-	72617	78771	84925	91079	97233	103387
61.91	2.7/16	-	-	72617	78771	84925	91079	97233	103387
62.00		-	-	72617	78771	84925	91079	97233	103387
62.50		-	-	72617	78771	84925	91079	97233	103387
62.71	2.15/32	-	-	73840	80097	86355	92612	98870	105128
63.00		-	-	73840	80097	86355	92612	98870	105128
63.5	2.1/2	-	-	73840	80097	86355	92612	98870	105128
64.00		-	-	80227	85760	92676	98209	105125	110658
64.29	2.17/32	-	-	80227	85760	92676	98209	105125	110658
64.50		-	-	80227	85760	92676	98209	105125	110658
65.00		-	-	80227	85760	92676	98209	105125	110658
65.09	2.9/16	-	-	80227	85760	92676	98209	105125	110658
65.50		-	-	80824	86398	93366	98940	105908	111482
65.88	2.19/32	-	-	80824	86398	93366	98940	105908	111482
66.00		-	-	80824	86398	93366	98940	105908	111482
66.50		-	-	80824	86398	93366	98940	105908	111482
66.67	2.5/8	-	-	80824	86398	93366	98940	105908	111482
67.00		-	-	82795	88505	95643	101353	108490	114200
67.47	2.21/32	-	-	-	95005	101134	107264	114926	122587

**M2 HSS TAPER SHANK TWIST DRILLS
EXTRA LONG**

IS 7822 - 2005

Size		Price Each Rs.							
		Overall Length in millimeter							
mm	Inch	600	625	650	675	700	725	750	775
50.50		72665	76702	80739	84776	88813	92850	96887	100924
50.8	2	72665	76702	80739	84776	88813	92850	96887	100924
51.00		74907	78561	82215	85869	89523	93177	100485	104139
51.50		74907	78561	82215	85869	89523	93177	100485	104139
51.59	2.1/32	74907	78561	82215	85869	89523	93177	100485	104139
52.00		74907	78561	82215	85869	89523	93177	100485	104139
52.39	2.1/16	74907	78561	82215	85869	89523	93177	100485	104139
52.50		85601	90356	95112	99868	104623	109379	114134	118890
53.00		85601	90356	95112	99868	104623	109379	114134	118890
53.18	2.3/32	85601	90356	95112	99868	104623	109379	114134	118890
53.50		85601	90356	95112	99868	104623	109379	114134	118890
53.97	2.1/8	85601	90356	95112	99868	104623	109379	114134	118890
54.00		85601	90356	95112	99868	104623	109379	114134	118890
54.50		89923	94918	99914	104910	109905	114901	119897	124893
54.77	2.5/32	89923	94918	99914	104910	109905	114901	119897	124893
55.00		89923	94918	99914	104910	109905	114901	119897	124893
55.50		89923	94918	99914	104910	109905	114901	119897	124893
55.56	2.3/16	89923	94918	99914	104910	109905	114901	119897	124893
56.00		93703	98908	104114	109320	114525	119731	124937	130143
56.36	2.7/32	93703	98908	104114	109320	114525	119731	124937	130143
56.50		93703	98908	104114	109320	114525	119731	124937	130143
57.00		93703	98908	104114	109320	114525	119731	124937	130143
57.15	2.1/4	93703	98908	104114	109320	114525	119731	124937	130143
57.50		102260	107941	113622	119303	124984	130665	136346	142028
57.94	2.9/32	102260	107941	113622	119303	124984	130665	136346	142028
58.00		102260	107941	113622	119303	124984	130665	136346	142028
58.50		102260	107941	113622	119303	124984	130665	136346	142028
58.74	2.5/16	102260	107941	113622	119303	124984	130665	136346	142028
59.00		104213	110002	115792	121582	127371	133161	138950	144740
59.50		104213	110002	115792	121582	127371	133161	138950	144740
59.53	2.11/32	104213	110002	115792	121582	127371	133161	138950	144740
60.00		104213	110002	115792	121582	127371	133161	138950	144740
60.32	2.3/8	104213	110002	115792	121582	127371	133161	138950	144740
60.50		109541	115695	121849	128003	134157	140311	146465	152619
61.00		109541	115695	121849	128003	134157	140311	146465	152619
61.12	2.13/32	109541	115695	121849	128003	134157	140311	146465	152619
61.50		109541	115695	121849	128003	134157	140311	146465	152619
61.91	2.7/16	109541	115695	121849	128003	134157	140311	146465	152619
62.00		109541	115695	121849	128003	134157	140311	146465	152619
62.50		109541	115695	121849	128003	134157	140311	146465	152619
62.71	2.15/32	111385	117643	123900	130158	136416	142673	148931	155188
63.00		111385	117643	123900	130158	136416	142673	148931	155188
63.5	2.1/2	111385	117643	123900	130158	136416	142673	148931	155188
64.00		116190	121723	127256	132789	138322	143855	149388	155631
64.29	2.17/32	116190	121723	127256	132789	138322	143855	149388	155631
64.50		116190	121723	127256	132789	138322	143855	149388	155631
65.00		116190	121723	127256	132789	138322	143855	149388	155631
65.09	2.9/16	116190	121723	127256	132789	138322	143855	149388	155631
65.50		117056	122630	128204	133778	139352	144926	150500	156074
65.88	2.19/32	117056	122630	128204	133778	139352	144926	150500	156074
66.00		117056	122630	128204	133778	139352	144926	150500	156074
66.50		117056	122630	128204	133778	139352	144926	150500	156074
66.67	2.5/8	117056	122630	128204	133778	139352	144926	150500	156074
67.00		119910	125620	131330	137040	142750	148460	154170	159880
67.47	2.21/32	130249	137911	145572	153234	160896	168557	176219	183881

**M2 HSS TAPER SHANK TWIST DRILLS
EXTRA LONG**

IS 7822 - 2005

Size		Price Each Rs.								
		Overall Length in millimeter								
mm	Inch	800	825	850	875	900	925	950	975	1000
50.50		104961	108998	113035	117072	121109	125145	129182	133219	137256
50.8	2	104961	108998	113035	117072	121109	125145	129182	133219	137256
51.00		107793	111447	115101	118755	122409	126063	129717	133371	138852
51.50		107793	111447	115101	118755	122409	126063	129717	133371	138852
51.59	2.1/32	107793	111447	115101	118755	122409	126063	129717	133371	138852
52.00		107793	111447	115101	118755	122409	126063	129717	133371	138852
52.39	2.1/16	107793	111447	115101	118755	122409	126063	129717	133371	138852
52.50		123646	128401	133157	137912	142668	147424	152179	156935	161690
53.00		123646	128401	133157	137912	142668	147424	152179	156935	161690
53.18	2.3/32	123646	128401	133157	137912	142668	147424	152179	156935	161690
53.50		123646	128401	133157	137912	142668	147424	152179	156935	161690
53.97	2.1/8	123646	128401	133157	137912	142668	147424	152179	156935	161690
54.00		123646	128401	133157	137912	142668	147424	152179	156935	161690
54.50		129888	134884	139880	144875	149871	154867	159862	164858	169854
54.77	2.5/32	129888	134884	139880	144875	149871	154867	159862	164858	169854
55.00		129888	134884	139880	144875	149871	154867	159862	164858	169854
55.50		129888	134884	139880	144875	149871	154867	159862	164858	169854
55.56	2.3/16	129888	134884	139880	144875	149871	154867	159862	164858	169854
56.00		135348	140554	145760	150965	156171	161377	166582	171788	176994
56.36	2.7/32	135348	140554	145760	150965	156171	161377	166582	171788	176994
56.50		135348	140554	145760	150965	156171	161377	166582	171788	176994
57.00		135348	140554	145760	150965	156171	161377	166582	171788	176994
57.15	2.1/4	135348	140554	145760	150965	156171	161377	166582	171788	176994
57.50		147709	153390	159071	164752	170433	176114	181795	187476	193157
57.94	2.9/32	147709	153390	159071	164752	170433	176114	181795	187476	193157
58.00		147709	153390	159071	164752	170433	176114	181795	187476	193157
58.50		147709	153390	159071	164752	170433	176114	181795	187476	193157
58.74	2.5/16	147709	153390	159071	164752	170433	176114	181795	187476	193157
59.00		150530	156319	162109	167898	173688	179478	185267	191057	196846
59.50		150530	156319	162109	167898	173688	179478	185267	191057	196846
59.53	2.11/32	150530	156319	162109	167898	173688	179478	185267	191057	196846
60.00		150530	156319	162109	167898	173688	179478	185267	191057	196846
60.32	2.3/8	150530	156319	162109	167898	173688	179478	185267	191057	196846
60.50		158773	164927	171081	177235	183389	189543	195697	201851	208005
61.00		158773	164927	171081	177235	183389	189543	195697	201851	208005
61.12	2.13/32	158773	164927	171081	177235	183389	189543	195697	201851	208005
61.50		158773	164927	171081	177235	183389	189543	195697	201851	208005
61.91	2.7/16	158773	164927	171081	177235	183389	189543	195697	201851	208005
62.00		158773	164927	171081	177235	183389	189543	195697	201851	208005
62.50		158773	164927	171081	177235	183389	189543	195697	201851	208005
62.71	2.15/32	161446	167704	173961	180219	186476	192734	198992	205249	211507
63.00		161446	167704	173961	180219	186476	192734	198992	205249	211507
63.5	2.1/2	161446	167704	173961	180219	186476	192734	198992	205249	211507
64.00		161547	169444	177052	182585	188118	193651	199184	205745	214399
64.29	2.17/32	161547	169444	177052	182585	188118	193651	199184	205745	214399
64.50		161547	169444	177052	182585	188118	193651	199184	205745	214399
65.00		161547	169444	177052	182585	188118	193651	199184	205745	214399
65.09	2.9/16	161547	169444	177052	182585	188118	193651	199184	205745	214399
65.50		161648	170706	178371	183945	189519	195093	200667	206241	215996
65.88	2.19/32	161648	170706	178371	183945	189519	195093	200667	206241	215996
66.00		161648	170706	178371	183945	189519	195093	200667	206241	215996
66.50		161648	170706	178371	183945	189519	195093	200667	206241	215996
66.67	2.5/8	161648	170706	178371	183945	189519	195093	200667	206241	215996
67.00		165590	171300	182720	188430	194140	199850	205560	211270	221263
67.47	2.21/32	191543	199204	206866	214528	222189	229851	237513	245174	252836

**M2 HSS TAPER SHANK TWIST DRILLS
EXTRA LONG**

IS 7822 - 2005

Size		Price Each Rs.							
		Overall Length in millimeter							
mm	Inch	400	425	450	475	500	525	550	575
67.50		-	-	-	95005	101134	107264	114926	122587
68.00		-	-	-	95005	101134	107264	114926	122587
68.26	2.11/16	-	-	-	95005	101134	107264	114926	122587
68.50		-	-	-	100277	106852	113428	120003	126579
69.00		-	-	-	101317	107961	114605	121249	127892
69.05	2.23/32	-	-	-	101317	107961	114605	121249	127892
69.50		-	-	-	101317	107961	114605	121249	127892
69.85	2.3/4	-	-	-	101317	107961	114605	121249	127892
70.00		-	-	-	101317	107961	114605	121249	127892
70.50		-	-	-	106324	113412	120500	127588	134677
70.64	2.25/32	-	-	-	107480	114646	121811	128976	136142
71.00		-	-	-	107480	114646	121811	128976	136142
71.44	2.13/16	-	-	-	107480	114646	121811	128976	136142
71.50		-	-	-	107480	114646	121811	128976	136142
72.00		-	-	-	109558	116861	124165	131469	138773
72.23	2.27/32	-	-	-	109558	116861	124165	131469	138773
72.50		-	-	-	109558	116861	124165	131469	138773
73.00		-	-	-	109558	116861	124165	131469	138773
73.02	2.7/8	-	-	-	109558	116861	124165	131469	138773
73.50		-	-	-	113455	121146	128838	136530	144222
73.82	2.29/32	-	-	-	114655	122428	130201	137974	145748
74.00		-	-	-	114655	122428	130201	137974	145748
74.50		-	-	-	114655	122428	130201	137974	145748
74.61	2.15/16	-	-	-	114655	122428	130201	137974	145748
75.00		-	-	-	116081	123951	131821	139691	147561
75.41	2.31/32	-	-	-	116081	123951	131821	139691	147561
75.50		-	-	-	116081	123951	131821	139691	147561
76.00		-	-	-	116081	123951	131821	139691	147561
76.20	3	-	-	-	116081	123951	131821	139691	147561
76.99	3.1/32	-	-	-	-	-	-	145346	156113
77.00		-	-	-	-	-	-	145346	156113
77.79	3.1/16	-	-	-	-	-	-	145346	156113
78.00		-	-	-	-	-	-	145346	156113
78.58	3.3/32	-	-	-	-	-	-	148245	159226
79.00		-	-	-	-	-	-	148245	159226
79.37	3.1/8	-	-	-	-	-	-	152181	163453
80.00		-	-	-	-	-	-	152181	163453
80.17	3.5/32	-	-	-	-	-	-	162770	174827
80.96	3.3/16	-	-	-	-	-	-	162770	174827
81.00		-	-	-	-	-	-	162770	174827
81.76	3.7/32	-	-	-	-	-	-	167001	179372
82.00		-	-	-	-	-	-	167001	179372
82.55	3.1/4	-	-	-	-	-	-	167001	179372
83.00		-	-	-	-	-	-	170451	183077
83.34	3.9/32	-	-	-	-	-	-	170451	183077
84.00		-	-	-	-	-	-	170451	183077
84.14	3.5/16	-	-	-	-	-	-	173285	186121
84.93	3.11/32	-	-	-	-	-	-	173285	186121
85.00		-	-	-	-	-	-	173285	186121
85.72	3.3/8	-	-	-	-	-	-	197657	212299
86.00		-	-	-	-	-	-	197657	212299
86.52	3.13/32	-	-	-	-	-	-	197657	212299
87.00		-	-	-	-	-	-	197657	212299

**M2 HSS TAPER SHANK TWIST DRILLS
EXTRA LONG**

IS 7822 - 2005

Size		Price Each Rs.							
		Overall Length in millimeter							
mm	Inch	600	625	650	675	700	725	750	775
67.50		130249	137911	145572	153234	160896	168557	176219	183881
68.00		130249	137911	145572	153234	160896	168557	176219	183881
68.26	2.11/16	130249	137911	145572	153234	160896	168557	176219	183881
68.50		133154	139730	146305	153851	161003	172607	179183	185758
69.00		134536	141180	147824	154467	161111	174399	181042	187686
69.05	2.23/32	134536	141180	147824	154467	161111	174399	181042	187686
69.50		134536	141180	147824	154467	161111	174399	181042	187686
69.85	2.3/4	134536	141180	147824	154467	161111	174399	181042	187686
70.00		134536	141180	147824	154467	161111	174399	181042	187686
70.50		141765	148853	155941	163030	170118	177206	184294	191382
70.64	2.25/32	143307	150473	157638	164803	171969	179134	186299	193465
71.00		143307	150473	157638	164803	171969	179134	186299	193465
71.44	2.13/16	143307	150473	157638	164803	171969	179134	186299	193465
71.50		143307	150473	157638	164803	171969	179134	186299	193465
72.00		146077	153381	160684	167988	175292	182596	189900	197204
72.23	2.27/32	146077	153381	160684	167988	175292	182596	189900	197204
72.50		146077	153381	160684	167988	175292	182596	189900	197204
73.00		146077	153381	160684	167988	175292	182596	189900	197204
73.02	2.7/8	146077	153381	160684	167988	175292	182596	189900	197204
73.50		151914	159606	167298	174989	182681	190373	198065	205757
73.82	2.29/32	153521	161294	169067	176840	184614	192387	200160	207933
74.00		153521	161294	169067	176840	184614	192387	200160	207933
74.50		153521	161294	169067	176840	184614	192387	200160	207933
74.61	2.15/16	153521	161294	169067	176840	184614	192387	200160	207933
75.00		155431	163301	171171	179041	186911	194781	202650	210520
75.41	2.31/32	155431	163301	171171	179041	186911	194781	202650	210520
75.50		155431	163301	171171	179041	186911	194781	202650	210520
76.00		155431	163301	171171	179041	186911	194781	202650	210520
76.2	3	155431	163301	171171	179041	186911	194781	202650	210520
76.99	3.1/32	166879	177646	188412	199178	209945	220711	231478	242244
77.00		166879	177646	188412	199178	209945	220711	231478	242244
77.79	3.1/16	166879	177646	188412	199178	209945	220711	231478	242244
78.00		166879	177646	188412	199178	209945	220711	231478	242244
78.58	3.3/32	170207	181188	192170	203151	214132	225113	236094	247075
79.00		170207	181188	192170	203151	214132	225113	236094	247075
79.37	3.1/8	174726	185999	197271	208544	219816	231089	242362	253634
80.00		174726	185999	197271	208544	219816	231089	242362	253634
80.17	3.5/32	186884	198941	210998	223055	235112	247169	259226	271283
80.96	3.3/16	186884	198941	210998	223055	235112	247169	259226	271283
81.00		186884	198941	210998	223055	235112	247169	259226	271283
81.76	3.7/32	191742	204113	216483	228854	241224	253595	265965	278336
82.00		191742	204113	216483	228854	241224	253595	265965	278336
82.55	3.1/4	191742	204113	216483	228854	241224	253595	265965	278336
83.00		195703	208329	220955	233581	246207	258833	271459	284085
83.34	3.9/32	195703	208329	220955	233581	246207	258833	271459	284085
84.00		195703	208329	220955	233581	246207	258833	271459	284085
84.14	3.5/16	198957	211793	224629	237465	250300	263136	275972	288808
84.93	3.11/32	198957	211793	224629	237465	250300	263136	275972	288808
85.00		198957	211793	224629	237465	250300	263136	275972	288808
85.72	3.3/8	226940	241581	256222	270864	285505	300146	314788	329429
86.00		226940	241581	256222	270864	285505	300146	314788	329429
86.52	3.13/32	226940	241581	256222	270864	285505	300146	314788	329429
87.00		226940	241581	256222	270864	285505	300146	314788	329429

**M2 HSS TAPER SHANK TWIST DRILLS
EXTRA LONG**

IS 7822 - 2005

Size		Price Each Rs.								
		Overall Length in millimeter								
mm	Inch	800	825	850	875	900	925	950	975	1000
67.50		191543	199204	206866	214528	222189	229851	237513	245174	252836
68.00		191543	199204	206866	214528	222189	229851	237513	245174	252836
68.26	2.11/16	191543	199204	206866	214528	222189	229851	237513	245174	252836
68.50		192334	200089	207242	215348	226033	230143	238363	246582	253801
69.00		194330	200974	207618	217583	227379	232532	240836	247981	255446
69.05	2.23/32	194330	200974	207618	217583	228379	232532	240836	247981	255446
69.50		194330	200974	207618	217583	228379	232532	240836	247981	255446
69.85	2.3/4	194330	200974	207618	217583	228379	232532	240836	247981	255446
70.00		194330	200974	207618	217583	228379	232532	240836	247981	255446
70.50		198471	205559	212647	219735	228836	233912	241000	248088	256000
70.64	2.25/32	200630	207795	214961	222126	229292	236457	243622	250788	257953
71.00		200630	207795	214961	222126	229292	236457	243622	250788	257953
71.44	2.13/16	200630	207795	214961	222126	229292	236457	243622	250788	257953
71.50		200630	207795	214961	222126	229292	236457	243622	250788	257953
72.00		204508	211811	219115	226419	233723	241027	248331	255634	262938
72.23	2.27/32	204508	211811	219115	226419	233723	241027	248331	255634	262938
72.50		204508	211811	219115	226419	233723	241027	248331	255634	262938
73.00		204508	211811	219115	226419	233723	241027	248331	255634	262938
73.02	2.7/8	204508	211811	219115	226419	233723	241027	248331	255634	262938
73.50		213449	221140	228832	236524	244216	251908	259600	267291	274983
73.82	2.29/32	215706	223480	231253	239026	246799	254572	262346	270119	277892
74.00		215706	223480	231253	239026	246799	254572	262346	270119	277892
74.50		215706	223480	231253	239026	246799	254572	262346	270119	277892
74.61	2.15/16	215706	223480	231253	239026	246799	254572	262346	270119	277892
75.00		218390	226260	234130	242000	249870	257740	265610	273480	281350
75.41	2.31/32	218390	226260	234130	242000	249870	257740	265610	273480	281350
75.50		218390	226260	234130	242000	249870	257740	265610	273480	281350
76.00		218390	226260	234130	242000	249870	257740	265610	273480	281350
76.2	3	218390	226260	234130	242000	249870	257740	265610	273480	281350
76.99	3.1/32	253010	263777	274543	285310	296076	306842	317609	-	-
77.00		253010	263777	274543	285310	296076	306842	317609	-	-
77.79	3.1/16	253010	263777	274543	285310	296076	306842	317609	-	-
78.00		253010	263777	274543	285310	296076	306842	317609	-	-
78.58	3.3/32	258056	269037	280019	291000	301981	312962	323943	-	-
79.00		258056	269037	280019	291000	301981	312962	323943	-	-
79.37	3.1/8	264907	276180	287452	298725	309998	321270	332543	-	-
80.00		264907	276180	287452	298725	309998	321270	332543	-	-
80.17	3.5/32	283340	295397	307455	319512	331569	343626	355683	-	-
80.96	3.3/16	283340	295397	307455	319512	331569	343626	355683	-	-
81.00		283340	295397	307455	319512	331569	343626	355683	-	-
81.76	3.7/32	290706	303077	315447	327818	340188	352559	364929	-	-
82.00		290706	303077	315447	327818	340188	352559	364929	-	-
82.55	3.1/4	290706	303077	315447	327818	340188	352559	364929	-	-
83.00		296711	309337	321963	334589	347215	359841	372467	-	-
83.34	3.9/32	296711	309337	321963	334589	347215	359841	372467	-	-
84.00		296711	309337	321963	334589	347215	359841	372467	-	-
84.14	3.5/16	301644	314480	327316	340152	352988	365824	378660	-	-
84.93	3.11/32	301644	314480	327316	340152	352988	365824	378660	-	-
85.00		301644	314480	327316	340152	352988	365824	378660	-	-
85.72	3.3/8	344070	358711	373353	387994	402635	417276	431918	-	-
86.00		344070	358711	373353	387994	402635	417276	431918	-	-
86.52	3.13/32	344070	358711	373353	387994	402635	417276	431918	-	-
87.00		344070	358711	373353	387994	402635	417276	431918	-	-

**M2 HSS TAPER SHANK TWIST DRILLS
EXTRA LONG**

IS 7822 - 2005

Size		Price Each Rs.							
		Overall Length in millimeter							
mm	Inch	400	425	450	475	500	525	550	575
87.31	3.7/16	-	-	-	-	-	-	201790	216738
88.00		-	-	-	-	-	-	201790	216738
88.11	3.15/32	-	-	-	-	-	-	201790	216738
88.90	3.1/2	-	-	-	-	-	-	201790	216738
89.00		-	-	-	-	-	-	201790	216738
90.00		-	-	-	-	-	-	205905	221157
90.49	3.9/16	-	-	-	-	-	-	213585	229406
91.00		-	-	-	-	-	-	213585	229406
92.00		-	-	-	-	-	-	213585	229406
92.07	3.5/8	-	-	-	-	-	-	220559	236896
93.00		-	-	-	-	-	-	220559	236896
93.66	3.11/16	-	-	-	-	-	-	228901	245856
94.00		-	-	-	-	-	-	228901	245856
95.00		-	-	-	-	-	-	228901	245856
95.25	3.3/4	-	-	-	-	-	-	228901	245856
96.00		-	-	-	-	-	-	236564	254088
96.84	3.13/16	-	-	-	-	-	-	236564	254088
97.00		-	-	-	-	-	-	236564	254088
98.00		-	-	-	-	-	-	240748	258581
98.42	3.7/8	-	-	-	-	-	-	244185	262273
99.00		-	-	-	-	-	-	244185	262273
100.00		-	-	-	-	-	-	244185	262273
100.01	3.15/16	-	-	-	-	-	-	248368	266765
101.00		-	-	-	-	-	-	248368	266765
101.6	4	-	-	-	-	-	-	248368	266765
102.00		-	-	-	-	-	-	248368	266765

**M2 HSS TAPER SHANK TWIST DRILLS
EXTRA LONG**

IS 7822 - 2005

Size		Price Each Rs.							
		Overall Length in millimeter							
mm	Inch	600	625	650	675	700	725	750	775
87.31	3.7/16	231685	246633	261580	276527	291475	306422	321369	336317
88.00		231685	246633	261580	276527	291475	306422	321369	336317
88.11	3.15/32	231685	246633	261580	276527	291475	306422	321369	336317
88.9	3.1/2	231685	246633	261580	276527	291475	306422	321369	336317
89.00		231685	246633	261580	276527	291475	306422	321369	336317
90.00		236410	251662	266914	282166	297419	312671	327923	343175
90.49	3.9/16	245227	261048	276870	292691	308512	324333	340154	355975
91.00		245227	261048	276870	292691	308512	324333	340154	355975
92.00		245227	261048	276870	292691	308512	324333	340154	355975
92.07	3.5/8	253234	269572	285909	302247	318585	334922	351260	367598
93.00		253234	269572	285909	302247	318585	334922	351260	367598
93.66	3.11/16	262812	279767	296723	313679	330634	347590	364545	381501
94.00		262812	279767	296723	313679	330634	347590	364545	381501
95.00		262812	279767	296723	313679	330634	347590	364545	381501
95.25	3.3/4	262812	279767	296723	313679	330634	347590	364545	381501
96.00		271611	289134	306657	324181	341704	359227	376751	394274
96.84	3.13/16	271611	289134	306657	324181	341704	359227	376751	394274
97.00		271611	289134	306657	324181	341704	359227	376751	394274
98.00		276415	294248	312081	329914	347747	365581	383414	401247
98.42	3.7/8	280360	298448	316536	334624	352711	370799	388887	406975
99.00		280360	298448	316536	334624	352711	370799	388887	406975
100.00		280360	298448	316536	334624	352711	370799	388887	406975
100.01	3.15/16	285163	303560	321958	340356	358753	377151	395548	413946
101.00		285163	303560	321958	340356	358753	377151	395548	413946
101.6	4	285163	303560	321958	340356	358753	377151	395548	413946
102.00		285163	303560	321958	340356	358753	377151	395548	413946

**M2 HSS TAPER SHANK TWIST DRILLS
EXTRA LONG**

IS 7822 - 2005

Size		Price Each Rs.								
		Overall Length in millimeter								
mm	Inch	800	825	850	875	900	925	950	975	1000
87.31	3.7/16	351264	366211	381159	396106	411053	426001	440948	-	-
88.00		351264	366211	381159	396106	411053	426001	440948	-	-
88.11	3.15/32	351264	366211	381159	396106	411053	426001	440948	-	-
88.9	3.1/2	351264	366211	381159	396106	411053	426001	440948	-	-
89.00		351265	366212	381160	396107	411055	426002	440949	-	-
90.00		358428	373680	388932	404184	419437	434689	449941	-	-
90.49	3.9/16	371796	387617	403439	419260	435081	450902	466723	-	-
91.00		371796	387617	403439	419260	435081	450902	466723	-	-
92.00		371796	387617	403439	419260	435081	450902	466723	-	-
92.07	3.5/8	383935	400273	416611	432949	449286	465624	481962	-	-
93.00		383935	400273	416611	432949	449286	465624	481962	-	-
93.66	3.11/16	398457	415412	432368	449323	466279	483235	500190	-	-
94.00		398457	415412	432368	449323	466279	483235	500190	-	-
95.00		398457	415412	432368	449323	466279	483235	500190	-	-
95.25	3.3/4	398457	415412	432368	449323	466279	483235	500190	-	-
96.00		411797	429320	446844	464367	481890	499413	516937	-	-
96.84	3.13/16	411797	429320	446844	464367	481890	499413	516937	-	-
97.00		411797	429320	446844	464367	481890	499413	516937	-	-
98.00		419080	436913	454747	472580	490413	508246	526079	-	-
98.42	3.7/8	425062	443150	461238	479326	497413	515501	533589	-	-
99.00		425062	443150	461238	479326	497413	515501	533589	-	-
100.00		425062	443150	461238	479326	497413	515501	533589	-	-
100.01	3.15/16	432344	450741	469139	487536	505934	524332	542729	-	-
101.00		432344	450741	469139	487536	505934	524332	542729	-	-
101.6	4	432344	450741	469139	487536	505934	524332	542729	-	-
102.00		432344	450741	469139	487536	505934	524332	542729	-	-

NOTE : Sizes 6 mm to 50 mm, in OAL 200, 250, 315, 400 and 500 mm OAL will be as per IS-7822/2005.

M.O.Q.:

UPTO	31.75 MM DIA & 525 MM OAL	25 NOS EACH
ABOVE	31.75 MM DIA TO 36 MM DIA & UPTO 525 MM OAL	10 NOS EACH
FROM	18.0 MM DIA TO 23 MM DIA & ABOVE 525 MM OAL TO 700 MM OAL	8 NOS EACH
FROM	18.0 MM DIA TO 23 MM DIA & ABOVE 700 MM OAL	5 NOS EACH
ABOVE	23.0 MM DIA TO 26.0 MM DIA & ABOVE 525 MM OAL TO 700 MM OAL	6 NOS EACH
ABOVE	23.0 MM DIA TO 26.0 MM DIA & ABOVE 700 MM OAL	5 NOS EACH
ABOVE	26.0 MM DIA TO 31.75 MM DIA & ABOVE 525 MM OAL TO 700 MM OAL	4 NOS EACH
ABOVE	26.0 MM DIA TO 31.75 MM DIA & ABOVE 700 MM OAL	3 NOS EACH
ABOVE	31.75 MM DIA TO 37.5 MM DIA & ABOVE 650 MM OAL TO 700 MM OAL	3 NOS EACH
ABOVE	31.75 MM DIA TO 37.5 MM DIA & ABOVE 700 MM OAL	3 NOS EACH
ABOVE	37.5 MM DIA TO 50.0 MM DIA & ABOVE 650 MM OAL	2 NOS EACH
ABOVE	50.0 MM DIA TO 102.0 MM DIA & FOR ALL OAL	2 NOS EACH

HSS TAPER SHANK CORE DRILLS

**IS 5366 - 1978
BS 328 (PART 1) - 1959**

Size		Price Each Rs.	Size		Price Each Rs.	Size		Price Each Rs.
mm	Inch		mm	Inch		mm	Inch	
7.00		1161	(26.99)	1.1/16	7063	51.00		34756
(7.14)	9/32	1161	27.00		7063	52.00		38277
7.50		1239	(27.78)	1.3/32	7332	(52.39)	2.1/16	38277
(7.94)	5/16	1235	28.00		7768	53.00		44714
8.00		1239	(28.57)	1.1/8	7769	(53.97)	2.1/8	44714
8.50		1264	29.00		8132	54.00		44714
(8.73)	11/32	1239	(29.37)	1.5/32	8132	55.00		46867
9.00		1268	30.00		8637	(55.56)	2.3/16	46867
(9.52)	3/8	1362	(30.16)	1.3/16	8637	56.00		48853
10.00		1362	(30.96)	1.7/32	8964	57.00		48853
(10.32)	13/32	1362	31.00		10079	(57.15)	2.1/4	48853
11.00		1364	(31.75)	1.1/4	10522	58.00		53386
(11.11)	7/16	1364	32.00		11531	(58.74)	2.5/16	53386
(11.91)	15/32	1459	(32.54)	1.9/32	11531	59.00		54373
12.00		1459	33.00		11773	60.00		54373
(12.70)	1/2	1541	(33.34)	1.5/16	11773	(60.32)	2.3/8	54373
13.00		2085	34.00		12913	61.00		57946
(13.49)	17/32	2283	(34.13)	1.11/32	12913	(61.91)	2.7/16	57946
14.00		2283	(34.92)	1.3/8	13637	62.00		57946
(14.29)	9/16	2349	35.00		13637	63.00		59613
15.00		2450	(35.72)	1.13/32	14668	(63.50)	2.1/2	59613
(15.08)	19/32	2450	36.00		14668	64.00		65089
15.87		2507	(36.51)	1.7/16	15473	65.00		65089
16.00		2507	37.00		15473	(65.09)	2.9/16	65089
(16.67)	21/32	2641	(37.31)	1.15/32	15913	66.00		68245
17.00		2641	38.00		17026	(66.67)	2.5/8	68245
(17.46)	11/16	2852	(38.10)	1.1/2	17026	67.00		71092
18.00		3068	39.00		18669	68.00		74546
(18.26)	23/32	3068	(39.69)	1.9/16	18669	(68.26)	2.11/16	74546
19.00		3507	40.00		18669	69.00		78188
(19.05)	3/4	3507	41.00		20577	(69.85)	2.3/4	79652
(19.84)	25/32	3521	(41.27)	1.5/8	20577	70.00		79652
20.00		3521	42.00		21187	71.00		81229
(20.64)	13/16	3767	(42.86)	1.11/16	21868	(71.44)	2.13/16	81229
21.00		3767	43.00		21868	72.00		84942
(21.43)	27/32	3981	44.00		23114	73.00		88091
22.00		3981	(44.45)	1.3/4	23114	(73.02)	2.7/8	88091
(22.22)	7/8	4224	45.00		23931	74.00		91422
23.00		4473	46.00		24818	(74.61)	2.15/16	91422
(23.02)	29/32	4473	(46.04)	1.13/16	24818	75.00		94790
(23.81)	15/16	4881	47.00		25789	76.00		99343
24.00		5123	(47.62)	1.7/8	27119	(76.20)	3	99343
(24.61)	31/32	5123	48.00		27119			
25.00		5929	49.00		28958			
(25.40)	1	5929	(49.21)	1.15/16	28958			
26.00		6398	50.00		31162			
(26.19)	1.1/32	6398	(50.80)	2	34457			

Size upto 25/32" (20 mm) with 3 flutes and above 25/32" (20 mm) and upto 75 mm with 4 flutes and above 75.0 mm will be supplied with 6 flutes.

M.O.Q. - For sizes

upto 31.75 mm (1.1/4")	-	35 Nos. each
over 31.75 mm (1.1/4") to 45 mm (1.3/4")	-	20 Nos. each
over 45 mm (1.3/4") to 50 mm (2")	-	10 Nos. each
over 50 mm (2") to 64 mm (2.1/2")	-	5 Nos. each
over 64 mm (2.1/2")	-	3 Nos. each

**HSS SHELL DRILLS
(TAPER HOLE 1 IN 96)**

BS: 122 (PART 2) 1964

Dia Inch	Price Each Rs.	Dia Inch	Price Each Rs.	Dia Inch	Price Each Rs.
1	3155	1.13/16	6243	3.1/4	22006
1.1/16	3330	1.7/8	6432	3.3/8	23668
1.1/8	3529	1.15/16	6742	3.1/2	35406
1.3/16	3745	2	6971	3.5/8	30023
1.1/4	3911	2.1/8	7705	3.3/4	31408
1.5/16	4101	2.1/4	8432	3.7/8	36356
1.3/8	4333	2.3/8	9434	4	40177
1.7/16	4526	2.1/2	11473		
1.1/2	4689	2.5/8	13330		
1.9/16	4957	2.3/4	14663		
1.5/8	5173	2.7/8	16294		
1.11/16	5872	3	17897		
1.3/4	6008	3.1/8	20066		

R.H. cutting with RH Helical Flutes will be supplied as standard

M.O.Q. -For sizes

upto 2-1/2" - 5 Nos. each

2.5/8" & above - 3 Nos. each

HSS CENTRE DRILLS

TYPE 'A' IS : 6708 – 1977			TYPE 'B' IS : 6709 – 1977			TYPE 'R' IS : 6710 – 1977			BS 328 (PART 2) 1950			
Pilot Dia mm	Body Dia mm	Price Each Rs.	Pilot Dia mm	Body Dia mm	Price Each Rs.	Pilot Dia mm	Body Dia mm	Price Each Rs.	Size BS No.	Pilot Dia Inch	Body Dia Inch	Price Each Rs.
1	3.15	198	2	8	573	1	3.15	198	BS 1	3/64	1/8	198
1.25	3.15	198	2.5	10	730	1.25	3.15	198	BS 2	1/16	3/16	198
1.6	4	198	3.15	11.2	972	1.6	4	198	BS 3	3/32	1/4	229
2	5	198	4	14	1303	2	5	198	BS 4	1/8	5/16	355
2.5	6.3	229	5	18	1861	2.5	6.3	229	BS 5	3/16	7/16	462
3.15	8	355	6.3	20	2192	3.15	8	355	BS 6	1/4	5/8	871
4	10	435	8	25	2836	4	10	435	BS 7	5/16	3/4	1344
5	12.5	736				5	12.5	736				
6.3	16	871				6.3	16	871				
8	20	1344				8	20	1344				
10	25	1731				10	25	1731				
1.6	6.3	405										

M.O.Q. -For all sizes – 50 Nos Each.

HSS CYLINDRICAL CUTTERS

IS : 6309 - 1982

Dia mm	Width mm	Price Each Rs.	Dia mm	Width mm	Price Each Rs.	Dia mm	Width mm	Price Each Rs.
40	(20)	2571		70	7784		(110)	27318
	(32)	3214		(90)	9139		125	33279
	(50)	4001	80	(36)	6629	125	(50)	23391
	(70)	5363		63	10538		(80)	33181
50	(25)	3294	80	80	12470	125	(110)	44654
50	40	3901		100	14356		(125)	49956
	63	5109	100	(40)	10362		140	55564
	80	6629		(70)	15694	160	125	83121
63	(32)	4691	100	(90)	19446			
63	50	5914						

Type 'N' Cutters with right hand helix will be supplied as standard.

Bracketed sizes are as per IS : 1831 - 1961 / IS : 6309-1971

M.O.Q. - For sizes

upto 80 mm dia - 3 Nos. each

100 mm dia and above - 2 Nos. each

**HSS HIGH POWER
CYLINDRICAL CUTTERS**

BS : 122 (PART 1) 1953

Length Inch	Price Each Rs. Diameter				
	2-1/2"	3"	3-1/2"	4"	4-1/2"
1	4192	5286	5858	7407	10680
2	6207	8134	9767	12966	17934
3	8257	11050	13638	18512	25332
4	10288	14046	17558	23594	33181
5	12405	19751	25821	32758	40851
6	14517	25155	30726	38297	48548
7	16563	29346	35692	45657	56847
8	19394	33521	40659	52005	64057

Cutters with left hand helix will be supplied as standard

M.O.Q. - For sizes

For length 1" & 2 - 3 Nos. each

For length 3" & above - 2 Nos. each

**HSS HELICAL
CYLINDRICAL CUTTERS**

BS : 122 (PART 1) 1953

Length Inch	Price Each Rs. Diameter			Length Inch	Price Each Rs. Diameter		
	3"	4"	5"		3"	4"	5"
2	11697	17175	28644	5	28768	42326	58378
3	14807	22975	38586	6	36478	49805	68444
4	19911	29258	48560				

Cutters with left hand helix will be supplied as standard

M.O.Q. - For sizes

For 2 inch length - 3 Nos. each

3 inch length and above - 2 Nos. each

HSS SIDE AND FACE CUTTERS

IS : 6308 - 1982

Dia mm	Width mm	Bore mm	Price Each (Rs.)		Dia mm	Width mm	Bore mm	Price Each (Rs.)		
			Straight Teeth Type B	Staggered Teeth Type A				Straight Teeth Type B	Staggered Teeth Type A	
50	5	16	3014	3749	150	28		22742	28496	
	6		3132	3901		24443		31089		
	8		3214	4009		160		6	40	13417
10	3414	4266	8	14260	15931					
63	6	22	3692	4772	160	10	40	15107	16874	
63	8	22	3901	5207		12		15935	17793	
	10		4243	5363		14		16774	18746	
	12		4426	5779		16		17763	19684	
	14		4559	6199		18		19022	21779	
	16		4783	6687		20		19971	21779	
63	18	22	5100	6885	160	22	40	21149	24142	
80	6	27	4043	5074		25		22826	27993	
	8		4480	5522	28	24443	29149			
	10		4783	6318	200	32	40	26606	31781	
80	12	27	5100	6687		6		17558	19474	
	14		5424	7174	8	18946	20973			
	16		5674	7321		10		20504	23050	
	18		6318	8290		12		23700	26059	
	20		6591	8695		14		25243	27883	
100	6	32	5779	7008	200	16	40	26804	29737	
100	8	32	6177	7500		18		29912	33718	
	10		6829	8038		20		30238	34747	
	12		7321	8934		22		33019	37795	
	14		7754	9139		25		36127	41505	
	16		8290	9861		28		38035	44082	
100	18	32	8842	10137	200	32	40	42277	49408	
	20		9520	10704		225		6	22617	24529
	22		9968	12239	8		24689	27002		
	25		10830	13344	10		26875	29086		
	125		6	32	8101	10051	225	12	31286	34143
125	8	32	8695	10830	14	33538		36915		
	10		9316	12602	16	35830	39657			
	12		10617	13084		18		40420	45959	
	14		11501	13977		20		40420	45959	
	16		11989	14517		22		44622	50892	
125	18	32	12857	16557	225	25	40	48865	55661	
	20		13313	17863		28		53206	60161	
	22		14702	19410		32		57540	64637	
	25		16077	20186		250		6	25957	28438
	28		18103	23108				8	28605	30927
150	6		9861	12679	250	10		31073	33383	
	8		10726	13716		12		36346	39803	
	10		11637	14780		14		39349	42889	
	12		13478	17024		16		42248	45959	
	14		14414	18103		18		47755	53168	
150	16		15359	19200	250	20		47755	53168	
	18		17246	21297		22		52848	58919	
	20		17246	21297		25		58267	64160	
	22		19147	23597		28		63339	70991	
	25		20991	25989		32		68357	77849	

Type 'N' Cutters will be supplied as standard
M.O.Q. - For sizes
Upto 150 mm dia - 4 Nos. each
above 150 mm dia - 3 Nos. each

HSS SIDE AND FACE CUTTERS

BS : 122 (PART 1) - 1953

Dia Inch	Width Inch	Price Each (Rs.)		Dia Inch	Width Inch	Price Each (Rs.)		
		Straight Teeth Type B	Staggered Teeth Type A			Straight Teeth Type B	Staggered Teeth Type A	
2.1/2	1/4	3692	—	5	5/16	8695	10830	
	5/16	3868	—		3/8	9316	12602	
	3/8	4043	—		7/16	9968	12824	
	7/16	4225	—		1/2	10617	13084	
	1/2	4407	—		5/8	11989	14517	
2.1/2	5/8	4724	—	5	3/4	13313	16563	
	3/4	5046	—		7/8	14702	19200	
	7/8	5384	—		1	16077	20186	
	1	5763	—		1.1/4	18568	—	
	1.1/4	6477	—		1.1/2	21124	—	
2.1/2	1.1/2	7217	—	6	1/4	9861	12679	
3	1/4	4092	5138		5/16	10726	13716	
	5/16	4300	5464		3/8	11637	14780	
	3/8	4559	6106		7/16	12556	15884	
	7/16	4772	6207		1/2	13478	17024	
3	1/2	5024	6318	6	5/8	15353	19200	
	5/8	5509	7073		3/4	17246	21297	
	3/4	5914	7514		7/8	19147	23597	
	7/8	6582	8193		1	20991	25972	
	1	7113	8842		1.1/4	24443	—	
3	1.1/4	7854	—	6	1.1/2	27883	—	
	1.1/2	8974	—		7	1/4	14620	16563
	3.1/2	1/4	4863			—	5/16	15820
5/16		5138	—	7	3/8	17022	20505	
3/8	5464	—	7/16		18160	21531		
3.1/2	7/16	5788	—		1/2	19614	22506	
	1/2	6071	—		5/8	21960	26396	
	5/8	6729	—		3/4	24354	29526	
3.1/2	3/4	7371	—		7	7/8	26775	32485
	7/8	7947	—			1	29167	35388
	1	8741	—			7	1.1/4	33934
	1.1/4	9889	—	1.1/2			38760	—
	1.1/2	11145	—	8			1/4	17558
4	1/4	5763	7008		5/16	18946	20973	
	5/16	6177	7500	8	3/8	20504	23050	
4	3/8	6591	7947		7/16	22098	24557	
	7/16	7008	8433		1/2	23700	26059	
4	1/2	7321	8934		8	5/8	26804	29737
	5/8	8290	9861			3/4	29912	33821
	3/4	9139	11253			7/8	33019	37795
	7/8	9968	12239			1	36127	41494
	1	10830	13344			1.1/4	42270	—
4	1.1/4	12309	—	8	1.1/2	48412	—	
	1.1/2	13558	—		9	1/4	22617	24983
	5	1/4	8101			10051	5/16	24689

HSS SIDE AND FACE CUTTERS

BS : 122 (PART 1) 1953

Dia Inch	Width Inch	Price Each (Rs.)		Dia Inch	Width mm	Price Each (Rs.)	
		Straight Teeth Type B	Staggered Teeth Type A			Straight Teeth Type B	Staggered Teeth Type A
9	3/8	26875	29086	10	5/16	28605	30927
	7/16	28966	32011		3/8	31073	33383
	1/2	31287	34186		7/16	33394	34920
	5/8	35830	39657		1/2	36346	39803
	3/4	39698	45959		5/8	42248	45959
9	7/8	44622	50892	10	3/4	47755	53168
	1	48865	52833		7/8	52850	58919
	1.1/4	57540	64637		1	58269	64160
	1.1/2	66237	73882		1.1/4	68357	77849
	1.3/4	81227	90117		1.1/2	79266	89450
10	1/4	25957	28438		1.3/4	96260	107491

Type 'B' (Straight Teeth) Cutters of width 3/4" and above will be supplied with LH Helix as standard
M.O.Q. - For sizes
 Upto 6" dia - 4 Nos. each
 above 6" dia - 3 Nos. each

HSS KEYWAY MILLING CUTTERS

IS : 6355 - 1982

Dia mm	Width mm	Price Each Rs.	Dia mm	Width mm	Price Each Rs.	Dia mm	Width mm	Price Each Rs.
50	5	2734	100	6	5286	160	12	15370
	6	2957		8	5673		14	16377
	8	3137		10	6177		16	17535
	10	3275		12	6729		18	18662
63	5	3208	100	14	7238	20	19911	
63	6	3208		16	7789	22	21202	
	8	3357		18	8243	25	23017	
	10	3692		20	8424	28	24303	
	12	4009		22	9409	32	27503	
63	14	4243		125	25	10051	200	12
	16	4559	8		8101	200	14	23880
	18	4900	10		8861	16	25396	
	80	5	4489		12	9664	18	27186
80	6	4489	125	14	10652	20	29101	
	8	4783		16	11360	22	31269	
	10	5106		18	12309	200	25	33711
	12	5717		20	13035	28	36532	
80	14	6177	160	22	13885	32	40664	
	16	6564		25	15200	36	44791	
	18	6934		28	16774	40	49043	
	20	7371		10	14599			

Cutters will be radially turned with staggered teeth and without corner radius.
 Type 'H' cutters will be supplied as standard.

RECOMMENDED STANDARD BORES IN MM

Dia	Bore	Dia	Bore	Dia	Bore
50	16	100	32	160	40
63	22	125	32	200	40
80	27				

M.O.Q. - For sizes
 Upto 63 mm dia - 4 Nos. each
 Above 63 mm dia - 2 Nos. each

HSS SLOTING CUTTERS

BS : 122 (PART 1) 1953

Dia Inch	Width Inch	Price Each Rs.	Dia Inch	Width Inch	Price Each Rs.	Dia Inch	Width Inch	Price Each Rs.
2.1/2	1/4	2222		5/16	3477		5/16	6687
	5/16	2409	3 1/2	3/8	3760		3/8	7275
	3/8	2575		7/16	4043	5	7/16	7888
	7/16	2718		1/2	4334		1/2	8498
	1/2	2872		5/8	4935		5/8	9664
2.1/2	5/8	3214		3/4	5363		3/4	10617
	3/4	3441	3 1/2	7/8	5788		7/8	11588
	7/8	3682		1	6207	5	1	12556
	1	3901	4	3/16	3819	6	1/4	7888
3	1/4	2540		1/4	3819		5/16	8742
3	5/16	2734		5/16	4266		3/8	9587
	3/8	2941	4	3/8	4656		7/16	10445
	7/16	3214		7/16	5424	6	1/2	11315
	1/2	3377		1/2	5464		5/8	13032
	5/8	3803		5/8	6830		3/4	14452
3	3/4	4143		3/4	6934		7/8	15884
	7/8	4573	4	7/8	7982		1	17366
	1	5046		1	8220			
3.1/2	1/4	3168	5	1/4	6106			

Cutters of width 3/4" and above are supplied with Left Hand Helical Flutes as standard
M.O.Q. - For sizes Upto 3" dia - 4 Nos. each
Above 3" dia - 3 Nos. each

HSS SINGLE ANGLE CUTTERS

IS : 6324 - 1971

Dia mm	Width mm	Bore mm	Angle (Degrees)	Price Each Rs.	Dia mm	Width mm	Bore mm	Angle (Degrees)	Price Each Rs.
50	12	16	60, 65, 70, 75, 80, 85	2846	80	32	22	70, 75, 80	6629
63	18	22	60, 65, 70, 75, 80, 85	4243	100	36	27	70, 75, 80	9946
63	26	22	70, 75, 80	5046					

RH Cutters in Type 'H' will be supplied as standard.
M.O.Q. - For all sizes - 3 Nos. each

HSS SINGLE ANGLE CUTTERS

BS : 122 (PART 1) 1953

Width Inch	Angle (Degrees)	Price Each Rs. Dia Inch		Width Inch	Angle (Degrees)	Price Each Rs. Dia Inch	
		2-3/4"	3"			2-3/4"	3"
5/16	30	3529	3901	1/2	45, 50, 55, 60, 65, 70, 80	4092	4620
7/16	40	3868	4412	5/8	50, 60, 65, 70, 80	4559	5138

RH Cutters will be supplied as standard. Price for LH Cutters will be same as above.
M.O.Q. - For all sizes - 3 Nos. each

HSS DOUBLE ANGLE CUTTERS

IS: 6325 - 1971.

Dia mm	Width mm	Bore mm	Angle (Degrees)	Price Each Rs.
50	12	16	12 x 55, 15 x 60, 65, 70, 75 & 80	3132
63	18	22	12 x 55, 15 x 60, 65, 70, 75 & 80	4286
50	14	16	20 x 90	3414
63	20	22	20 x 90	4489
50	16	16	25 x 100	3692
63	22	22	25 x 100	4853
80	32	22	15 x 65, 70, 75	6629
100	36	27	15 x 70, 75, 80	9946

Right Hand Cutters in Type 'H' will be supplied as standard
M.O.Q. - For sizes Upto 63 mm dia - 4 Nos. each **above 63 mm dia - 3 Nos each**

HSS DOUBLE ANGLE CUTTERS **BS 122 (PART 1) 1953**

Dia Inch	Width Inch	Bore Inch	Price Each Rs.	Dia Inch	Width Inch	Bore Inch	Price Each Rs.
Angle in Degrees : 12 x 48, 53, 63, 68, 73				Angle in Degrees : 12 x 48, 53, 63, 68, 73			
2-3/4	5/8	1	4092	3	5/8	1-1/4	5106
	3/4	1	4935		3/4	1-1/4	5138

R H Cutters will be supplied as standard
M.O.Q. - For all sizes - 3 Nos. each

HSS EQUAL ANGLE CUTTERS **IS : 6326 - 1996**

Dia mm	Width mm	Bore mm	Angle (Degrees)	Price Each Rs.	Dia mm	Width mm	Bore mm	Angle (Degrees)	Price Each Rs.
50	8	16	45	2757	80	12	27	45	4121
50	10	16	60	2879	80	18	27	60	4669
50	14	16	90	3246	80	22	27	90	5286
63	10	22	45	3357	100	18	32	45	6513
63	14	22	60	3717	100	25	32	60	7619
63	20	22	90	4297	100	32	32	90	8916

We can also manufacture and supply
HSS EQUAL ANGLE CUTTERS TO OLD IS SPECIFICATION **IS : 6326 - 1971**
with the following dimensions and prices :

Dia mm	Width mm	Bore mm	Angle (Degrees)	Price Each Rs.	Dia mm	Width mm	Bore mm	Angle (Degrees)	Price Each Rs.
56	10	16	45	3132	80	16	22	45	4480
56	12	16	60	3275	80	20	22	60	4863
56	14	16	90	3529	80	22	22	90	5286
63	12	22	45	3529	100	18	27	45	6513
63	16	22	60	3901	100	25	27	60	7619
63	18	22	90	4092	100	28	27	90	8257

Type 'H' Cutters will be supplied as standard.
M.O.Q. - For all sizes - 3 Nos. each.

HSS EQUAL ANGLE CUTTERS **BS 122 (PART 1) 1953**

Dia Inch	Width Inch	Angle (Degrees)	Price Each Rs.	Dia Inch	Width Inch	Angle (Degrees)	Price Each Rs.
2.3/4	5/16	30, 40	3529	3	5/16	30, 40	3901
2.3/4	7/16	40	3692	3	7/16	30, 40	4092
2.3/4	1/2	45, 60, 90	3692	3	1/2	45, 60, 90	4092
2.3/4	5/8	60, 90	4092	3	5/8	60, 90	4480

M.O.Q. For all sizes - 3 Nos. each

HSS CONVEX CUTTERS

IS: 6323 - 1982

Dia mm	Width mm	Radius mm	Bore mm	Price Each Rs.	Dia mm	Width mm	Radius mm	Bore mm	Price Each Rs.
50	3.2	1.6	16	3760	80	12.6	6.3	27	6194
50	4	2	16	3760	80	16	8	27	6799
63	5	2.5	22	4724	100	20	10	32	10434
63	6	3	22	4724	100	24	12	32	11512
63	6.3	3.15	22	4724	100	25	12.5	32	12174
63	8	4	22	4724	125	32	16	32	20123
63	10	5	22	5207	125	40	20	32	24247
80	12	6	27	6194					

Cutters radially machine turned relieved in Type 'N' will be supplied as standard.
M.O.Q. - For all sizes - 2 Nos. each

We can also manufacture and supply
HSS CONVEX CUTTERS TO OLD IS SPECIFICATION
with the following dimensions and prices :

IS : 6323 - 1971

Dia mm	Width mm	Radius mm	Bore mm	Price Each Rs.	Dia mm	Width mm	Radius mm	Bore mm	Price Each Rs.
50	3	1.5	22	3760	70	16	8	22	6177
50	3.2	1.6	22	3760	90	18	9	27	8257
50	4	2	22	3760	90	20	10	27	8695
56	5	2.5	22	4451	90	22	11	27	9583
56	6	3	22	4451	90	24	12	27	10269
63	6	3	22	4724	90	25	12.5	27	10617
63	8	4	22	4724	100	28	14	32	13096
63	10	5	22	5207	110	32	16	32	16563
70	12	6	22	5613	110	36	18	32	21864
70	14	7	22	6177	125	40	20	40	24247

Cutters radially machine turned relieved in Type 'N' will be supplied as standard.
M.O.Q. - For all sizes - 2 Nos. each

HSS CONCAVE CUTTERS

IS : 6322 - 1982

Dia mm	Width mm	Radius mm	Bore mm	Price Each Rs.	Dia mm	Width mm	Radius mm	Bore mm	Price Each Rs.
50	8	1.6	16	4489	80	24	6.3	27	9311
50	9	2	16	4694	80	32	8	27	10948
63	10	2.5	22	5151	100	36	10	32	15252
63	12	3	22	5547	100	40	12	32	16077
63	12	3.15	22	5547	100	40	12.5	32	16077
63	16	4	22	5707	125	50	16	32	33873
63	20	5	22	6696	125	60	20	32	36814
80	24	6	27	9311					

Cutters radially machine turned relieved in Type 'N' will be supplied as standard.
M.O.Q. For all size - 2 Nos. each

**We can also manufacture and supply
HSS CONCAVE CUTTERS TO OLD IS SPECIFICATION
with the following dimensions and prices :**

IS : 6322 - 1971

Dia mm	Width mm	Radius mm	Bore mm	Price Each Rs.	Dia mm	Width mm	Radius mm	Bore mm	Price Each Rs.
56	8	1.5	22	4724	90	40	10	27	14517
56	8	1.6	22	4724	100	42	11	27	16930
56	9	2	22	4964	100	44	12	27	17499
56	10	2.5	22	5106	100	46	12.5	27	17840
63	14	3.5	22	5717	100	50	14	27	19631
70	24	6	22	7982	125	56	16	32	27024
70	28	7	22	8377	125	62	18	32	36814
90	36	9	27	13084	125	70	20	32	38760

**Cutters radially machine turned relieved in Type 'N' will be supplied as standard.
M.O.Q. For all sizes – 2 Nos. each.**

**HSS CONVEX CUTTERS
HSS CONCAVE CUTTERS**

BS : 122 (PART 1) 1953

Dia Inch	D.O.C. Inch	Bore Inch	Price each Rs.		Dia Inch	D.O.C. Inch	Bore Inch	Price each Rs.	
			Convex	Concave				Convex	Concave
2.1/4	1/8	1	4001	4724	3	3/4	1	7217	10421
2.1/4	3/16	1	4266	4897	3.1/4	13/16	1	8165	12470
2.1/4	1/4	1	4458	5219	3.1/4	7/8	1	8695	12679
2.1/2	5/16	1	4724	5717	3.1/2	15/16	1	9739	14837
2.1/2	3/8	1	5033	6199	3.1/2	1	1	10186	15047
2.1/2	7/16	1	5216	6696	4	1.1/8	1.1/4	13096	18395
2.1/2	1/2	1	5616	7141	4	1.1/4	1.1/4	14414	19631
2.3/4	9/16	1	5717	8377	4.1/4	1-3/8	1.1/4	19838	25869
2.3/4	5/8	1	6207	8589	4.1/4	1-1/2	1.1/4	21460	29645
3	11/16	1	6885	10261					

M.O.Q. - For all sizes – 2 Nos. each

HSS SINGLE CORNER ROUNDING CUTTERS

IS : 6314 - 1982

Dia mm	Width mm	Corner Radius mm	Bore mm	Price each Rs.	Dia mm	Width mm	Corner Radius mm	Bore mm	Price each Rs.
50	5	1.6	16	3803	80	12	6.3	27	6665
50	5	2	16	3803	80	16	8	27	7174
63	5	2.5	22	4620	100	18	10	32	14194
63	6	3	22	4620	100	20	12	32	14799
63	6	3.15	22	4620	100	20	12.5	32	14799
63	8	4	22	4834	125	24	16	32	19976
63	10	5	22	5151	125	28	20	32	23193
80	12	6	27	6665					

**Cutters will be radially machine turned relieved. RH cutters in Type 'N' will be supplied as standard.
M.O.Q. - For all sizes - 2 Nos. each**

**HSS SINGLE CORNER ROUNDING CUTTERS
TO OLD IS SPECIFICATION**

IS : 6314 - 1971

Dia mm	Corner Radius mm	Width mm	Bore mm	Price each Rs.	Dia mm	Corner Radius mm	Width mm	Bore mm	Price each Rs.
56	1.6	4	22	4001	100	11	21	27	15257
56	2.0	4.5	22	4001	100	12	22	27	15257
56	2.5	5	22	4001	100	12.5	22	27	15257
63	3.5	7	22	4834	100	14	25	27	16160
70	6.0	12	22	5509	100	16	28	32	17367
70	7.0	14	22	5788	100	18	31	32	22197
90	9.0	18	27	8661	125	20	35	32	23607
90	10.0	20	27	9409					

Cutters will be radially machine turned relieved. RH cutters in type 'N' will be supplied as standard
MOQ : For all sizes 2 Nos. each

**HSS SINGLE CORNER ROUNDING CUTTERS
HSS DOUBLE CORNER ROUNDING CUTTERS**

BS : 122 (PART 1) 1953

Dia Inch	Corner Radius Inch	Bore Inch	Price each Rs.		Dia Inch	Corner Radius Inch	Bore Inch	Price each Rs.	
			Single Corner	Double Corner				Single Corner	Double Corner
2.1/4	1/16	1	4192	5925	3	3/8	1	6941	9894
2.1/4	3/32	1	4192	5925	3.1/4	13/32	1	7861	11360
2.1/4	1/8	1	4192	5925	3.1/4	11/16	1	7861	11360
2.1/2	5/32	1	4724	6665	3.1/2	15/32	1	9344	13716
2.1/2	3/16	1	4724	6665	3.1/2	1/2	1	9344	13716
2.1/2	7/32	1	4993	7141	3.1/2	9/16	1	10288	15343
2.1/2	1/4	1	4993	7141	3.1/2	5/8	1	10288	15343
2.3/4	9/32	1	5858	8497	3.3/4	11/16	1	15133	21678
2.3/4	5/16	1	5858	8497	3.3/4	3/4	1	15133	21678
3	11/32	1	6941	9894					

M.O.Q. - For all sizes - 2 Nos. each

**HSS INVOLUTE GEAR CUTTERS
14.1/2 & 20 DEG PA**

BS : 2518 - 1954

Module mm	Price Each Rs.					
	22 mm Bore	1" Bore	27 mm Bore	32 mm Bore	40 mm Bore	50 mm Bore
0.5	-	2528	-	-	-	-
0.75	-	2528	-	-	-	-
1	2528	2528	-	-	-	-
1.25	2655	-	-	-	-	-
1.5	2902	2902	-	-	-	-
1.75	2902	-	3257	3698	-	-
2	-	3257	3257	3698	-	-
2.25	-	3257	3257	3698	-	-
2.5	-	3590	3590	4182	-	-
2.75	-	3590	3590	4182	-	-
3	-	3879	3879	4899	-	-
3.25	-	-	4077	5160	-	-
3.5	-	4286	4286	5254	-	-
3.75	-	-	4843	5740	-	-
4	-	4843	4843	5441	-	-
4.5	-	-	5797	7198	-	-
5	-	6088	6088	7310	-	-
5.5	-	-	7310	8149	-	-
6	-	-	9132	9269	-	-
6.5	-	-	10438	11026	-	-
7	-	-	-	11597	-	-
8	-	-	-	13378	-	-
9	-	-	-	20543	20543	23418
10	-	-	-	22463	23284	25194
11	-	-	-	24380	26791	28086
12	-	-	-	25940	28086	29589
14	-	-	-	32671	33312	36646
16	-	-	-	-	-	45889

M.O.Q. - For all sizes – 2 Nos. each

**HSS INVOLUTE GEAR CUTTERS
14.1/2 & 20 DEG PA**

BS : 2518 - 1954

D.P. No.	Price Each Rs.				D.P. No.	Price Each Rs.			
	Bore in Inch					Bore in Inch			
	2	1.1/2	1.1/4	1		2	1.1/2	1.1/4	1
1.5	45889	-	-	-	12	-	-	3698	3257
1.75	36645	36645	33138	-	13	-	-	-	3209
2	29589	28086	25940	-	14	-	-	-	2902
2.25	28086	26791	24380	-	15	-	-	-	2902
2.5	25195	23284	22463	-	16	-	-	-	2902
2.75	23418	20543	20543	-	18	-	-	-	2657
3	-	-	13378	-	20	-	-	-	2657
4	-	-	9269	9132	22	-	-	-	2528
5	-	-	7310	6088	24	-	-	-	2528
6	-	-	5438	4843	26	-	-	-	2528
7	-	-	5254	4286	28	-	-	-	2528
8	-	-	4900	3879	30	-	-	-	2528
9	-	-	4182	3590					
10	-	-	4104	3555					
11	-	-	3698	3257					

M.O.Q. - For all sizes – 2 Nos. each

STANDARD CUTTERS GROUP

(8 CUTTERS)

Cutters Group	Inclusive Range of Teeth/For Spur Gears	Cutters Group	Inclusive Range of Teeth/For Spur Gears
1	135 to Rack	5	21 to 25
2	55 to 134	6	17 to 20
3	35 to 54	7	14 to 16
4	26 to 34	8	12 & 13

**HSS ROTARY FORM CUTTERS
FOR ROLLER CHAIN WHEELS**

BS : 228 - 1962

Pitch Inch	Roller Dia Inch	Price Each Rs.			Pitch Inch	Roller Dia Inch	Price Each Rs.		
		Cutter No					Cutter No		
		1	2	3			1	2	3
0.315	0.197	6687	6687	6687	0.75	0.475	11697	11697	11901
0.375	0.25	6934	6934	6934	1	0.625	22672	22672	22094
0.5	0.305	7833	7833	7833	1.25	0.75	26591	24594	24594
0.5	0.335	7833	7833	7833	1.5	1	26775	26591	27636
0.625	0.325	7833	7833	7833	1.75	1.1	36170	35762	35520
0.625	0.4	8778	8778	8778	2	1.15	52978	48729	47334

Cutter No.
1. – to cut 9 to 12 Teeth. 2. – to cut 13 to 19 Teeth. 3. – to cut 20 Teeth and above
Recommended Standard Bores : Upto 0.75" Pitch – 1"
1" to 1.5" Pitch – 1.1/4"
1.75" & 2" – 1.3/4"

M.O.Q. For all sizes – 2 Nos. each

HSS SHELL END MILLS

IS : 6257 - 1982

Dia mm	Length mm	Bore mm	Price each Rs.	Dia mm	Length mm	Bore mm	Price each Rs.
40	32	16	4863	100	50	32	17558
50	36	22	5914	125	56	40	29439
63	40	27	7784	160	63	50	55564
80	45	27	11501				

Type 'N' Cutters with RH helical flutes for RH cutting will be supplied as standard.
M.O.Q. For sizes

Upto 63 mm dia – 4 Nos. each
80 mm dia and above – 3 Nos. each

HSS SHELL END MILLS

BS : 122 (PART 1) 1953

Dia Inch	Length Inch	Bore Inch	Price each Rs.	Dia Inch	Length Inch	Bore Inch	Price each Rs.
1.1/4	1	1/2	3345	3	1.3/4	1.1/4	10261
1.1/2	1.1/8	1/2	4092	3.1/2	1.7/8	1.1/4	12794
1.3/4	1.1/4	3/4	4863	4	2.1/4	1.1/2	18817
2	1.3/8	3/4	5527	4.1/2	2.1/4	1.1/2	22558
2.1/4	1.1/2	1	6665	5	2.1/4	1.1/2	29439
2.1/2	1.5/8	1	7752	5.1/2	2.1/4	2	34437
2.3/4	1.5/8	1	8814	6	2.1/4	2	39718

Cutters with RH helical flutes for RH cutting will be supplied as standard.

M.O.Q. For sizes

Upto 3" – 4 Nos. each
Above 3" – 3 Nos. each

HSS FACE CUTTERS

BS : 122 (PART 1) 1953

Dia Inch	Length Inch	Bore Inch	Price each Rs.	Dia Inch	Length Inch	Bore Inch	Price each Rs.
1.3/4	1.1/4	3/4	4193	3	1.11/16	1.1/8	8741
2	1.1/4	3/4	4834	4	1.3/4	1.1/8	14620
2.1/2	1.1/4	3/4	6106	5	2	1.1/2	24594

Cutters for with RH helical flutes for RH cutting will be supplied as standard.

M.O.Q. For sizes

Upto 3" – 4 Nos. each
Above 3" – 3 Nos. each

HSS HOLLOW MILLS

BS : 122 (PART 1) 1953

Bore Dia Inch	O.S. Dia Inch	Price Each Rs.	Bore Dia Inch	O.S. Dia Inch	Price Each Rs.	Bore Dia Inch	O.S. Dia Inch	Price Each Rs.
1/4	5/8	2222	7/16	1	2872	3/4	1.1/2	4243
9/32	3/4	2649	1/2	1	2872	13/16	1.1/2	4243
5/16	3/4	2649	9/16	1.1/4	3692	7/8	1.3/4	5300
11/32	3/4	2649	5/8	1.1/4	3692	15/16	1.3/4	5300
3/8	1	2872	11/16	1.1/2	4243	1	1.3/4	5300

M.O.Q. For all sizes – 5 Nos. each

HSS END MILLS PARALLEL SHANK
HSS END MILLS TAPER SHANK (TANGED END)
HSS SLOT DRILLS PARALLEL SHANK
HSS SLOT DRILLS TAPER SHANK (TANGED END)

IS: 6353 - 1991
IS: 6354 - 1971
IS: 6352 - 1991
IS: 6388 - 1971

Dia mm	Price Each (Rs.)								
	END MILLS		SLOT DRILLS		Dia mm	END MILLS		SLOT DRILLS	
	Parallel Shank	Taper Shank	Parallel Shank	Taper Shank		Parallel Shank	Taper Shank	Parallel Shank	Taper Shank
3	623	1037	755	1156	33	3944	6224	-	-
4	623	1037	755	1156	34	4300	6828	4688	7263
5	623	1037	755	1156	35	4300	6828	4688	7263
6	696	1037	809	1156	36	4688	7483	5033	8470
7	783	1037	809	1156	37	5051	8160	-	-
8	783	1037	809	1270	38	5385	8160	5429	8470
9	783	1122	809	1270	39	5712	9487	-	-
10	783	1122	840	1297	40	6066	9487	5810	9667
11	783	1234	840	1297	41	6066	9487	6571	-
12	809	1234	916	1449	42	6905	10430	6571	-
13	915	1705	-	-	43	6905	10430	7306	-
14	1002	1705	1172	1816	44	-	10899	7306	-
15	1172	1816	1319	1885	45	7736	11721	7306	-
16	1172	1816	1319	1885	46	7736	11996	8112	-
17	1280	2217	-	-	47	8510	12426	8112	-
18	1424	2217	1623	2162	48	8510	12426	8112	-
19	1424	2561	-	-	49	8510	13973	8896	-
20	1575	2561	1623	2162	50	9361	13973	8896	-
21	1767	2688	1892	2686	51	9361	13973	-	-
22	1788	2688	1892	2686	52	11523	19580	-	-
23	1938	2930	2245	3198	53	11523	19580	-	-
24	1938	3166	2245	3198	54	13652	24738	-	-
25	2083	3166	2245	3198	55	16416	24738	-	-
26	2161	3943	3197	4414	56	16416	24738	-	-
27	2542	4408	-	-	57	19092	25965	-	-
28	2966	4408	-	4675	58	19092	25965	-	-
29	2966	4849	-	-	59	19092	25965	-	-
30	3264	4849	3898	5606	60	20385	25965	-	-
31	-	5148	-	-	61	20385	31132	-	-
32	3561	5148	3898	5606	62	20865	31132	-	-
					63	21221	31132	-	-

End Mills

1. Tanged TS End Mills in Tool Type 'N' with LH Helical Flutes for RH cutting will be supplied as standard.
2. PS End Mills, Type 'N' RH Helical flutes for RH cutting will be supplied as standard.
3. TS End Mills with tapped end from 6 mm dia, can be manufactured and supplied as per IS : 6354-1991

Parallel Shank End Mills : M.O.Q. For sizes

- Upto 8 mm - 50 Nos. each
- Above 8 mm to 22 mm - 35 Nos. each
- Above 22 mm to 25 mm - 30 Nos. each
- Above 25 mm to 32 mm - 20 Nos. each
- Above 32 mm to 40 mm - 15 Nos. each
- Above 40 mm to 48 mm - 10 Nos. each
- Above 48 mm - 5 Nos. each

Taper Shank End Mills : M.O.Q. For sizes

- Upto 16 mm - 25 Nos. each
- Above 16 mm to 25 mm - 20 Nos. each
- Above 25 mm to 32 mm - 15 Nos. each
- Above 32 mm to 45 mm - 10 Nos. each
- Above 45 mm to 50 mm - 5 Nos. each
- Above 50 mm - 4 Nos. each

Slot Drill

Slot Milling Cutter type 'A' Flat Face of short series with RH Helical flutes for RH cutting and tool type 'H' will be supplied as standard, unless otherwise specified. Prices and MOQ for standard series can be furnished on request. T.S. Slot Milling Cutters with tapped end from 6 mm dia can be manufactured and supplied as per IS 6388-1991

Parallel Shank Slot Drills : M.O.Q. For sizes

- Upto 6 mm - 50 Nos. each
- Above 6 mm to 18 mm - 35 Nos. each
- Above 18 mm to 25 mm - 25 Nos. each
- Above 25 mm to 32 mm - 20 Nos. each
- Above 32 mm to 38 mm - 15 Nos. each
- Above 38 mm to 50 mm - 7 Nos. each

Taper Shank Slot Drills : M.O.Q. For sizes

- Upto 18 mm - 25 Nos. each
- Above 18 mm to 32 mm - 20 Nos. each
- Above 32 mm to 38 mm - 15 Nos. each
- Above 38 mm - 10 Nos. each

For Long Series End Mills

Ref. Page 3 Point III - For price and MOQ

HSS PARALLEL SHANK END MILLS / SLOT DRILLS
HSS TAPER SHANK END MILLS / SLOT DRILLS (TANGED END)

BS - 122 (PART 1) 1953

Dia Inch	Price Each (Rs.)			
	END MILLS		SLOT DRILLS	
	Parallel Shank	Taper Shank	Parallel Shank	Taper Shank
1/8	623	968	755	1038
5/32	623	968	755	1038
3/16	623	968	755	1038
7/32	624	991	807	1138
1/4	696	991	809	1197
9/32	716	991	—	—
5/16	783	991	809	1270
3/8	783	1077	809	1270
7/16	783	1092	827	1297
1/2	809	1234	916	1449
9/16	1002	1705	1172	1816
5/8	1172	1816	1319	1885
11/16	1311	2049	1492	2050
3/4	1424	2162	1623	2162
13/16	1575	2457	1892	2686
7/8	1788	2690	1892	2686
15/16	—	2920	—	—
1	2083	3142	2245	3198
1-1/8	2966	4381	3197	4675
1-1/4	3561	5148	3898	5606
1-3/8	4300	6828	4688	7263
1-1/2	5033	8160	5429	8470
1-5/8	6066	9487	6720	—
1-3/4	7736	10899	7306	—
1-7/8	8530	12426	8112	—
2	9341	13973	8895	—
2-1/16	11523	—	—	—
2-1/8	13652	19364	—	—
2-3/16	16416	—	—	—
2-1/4	17761	24738	—	—
2-5/16	19092	—	—	—
2-3/8	20385	26996	—	—
2-1/2	22984	31132	—	—

End Mills

1. Tanged End TS End Mills for RH cutting with Left Hand Helical flutes will be supplied as standard.
2. PS End Mills for RH Cutting with Right Hand Helical flutes will be supplied as standard.

Parallel Shank End Mills

M.O.Q. For sizes

Upto 5/16"	—	50 Nos. each
Above 5/16" to 7/8"	—	35 Nos. each
Above 7/8" to 1"	—	30 Nos. each
Above 1" to 1-1/4"	—	15 Nos. each
Above 1-1/4" to 1-5/8"	—	10 Nos. each
Above 1-5/8"	—	5 Nos. each

Taper Shank End Mills

M.O.Q. For sizes

Upto 5/8"	—	25 Nos. each
Above 5/8" to 1"	—	20 Nos. each
Above 1" to 1-1/4"	—	15 Nos. each
Above 1-1/4" to 1-3/4"	—	10 Nos. each
Above 1-3/4"	—	5 Nos. each

Slot Drill

Slot Drills for RH cutting with RH Helical flutes will be supplied as standard

Parallel Shank Slot Drill

M.O.Q. For sizes

Upto 1/4"	—	50 Nos. each
Above 1/4" to 11/16"	—	35 Nos. each
Above 11/16" to 1"	—	25 Nos. each
Above 1" to 1-1/4"	—	20 Nos. each
Above 1-1/4" to 1-1/2"	—	15 Nos. each
Above 1-1/2"	—	7 Nos. each

Taper Shank Slot Drill

M.O.Q. For sizes

Upto 11/16"	—	25 Nos. each
Above 11/16" to 1-1/4"	—	20 Nos. each
Above 1-1/4"	—	15 Nos. each

**HSS WOODRUFF KEYSLOT CUTTERS TYPE 'A'
STRAIGHT TEETH**

IS : 2669 - 1971

Dia mm	Width mm	Price Each Rs.	Dia mm	Width mm	Price Each Rs.	Dia mm	Width mm	Price Each Rs.
10.5	2	1309	19.5	4	2072	28.5	10	3822
10.5	2.5	1309	19.5	5	2072	32.5	7	4520
10.5	3	1309	19.5	6	2072	32.5	8	4520
13.5	3	1636	22.5	5	2356	32.5	10	4520
13.5	4	1636	22.5	6	2356	45.5	10	7676
16.5	3	1822	22.5	8	2356			
16.5	4	1822	28.5	6	3822			
16.5	5	1822	28.5	8	3822			

M.O.Q. For sizes

10.5 mmdia	- 35 Nos. each
13.5 mm to 19.5 mm dia	- 30 Nos. each
22.5 mm dia	- 25 Nos. each
28.5 mm dia	- 15 Nos. each
32.5 mm dia	- 10 Nos. each
45.5 mm dia	- 10 Nos. each

**HSS CUTTERS FOR
WOODRUFF KEYSEATS**

BS : 122 (PART 1) 1953

B.S. No.	Price Each Rs.	B.S. No.	Price Each Rs.	B.S. No.	Price Each Rs.
204	1396	607	2668	1210	4722
304	1396	807	2668	1011	5747
404	1396	608	3225	1211	5747
305	1935	808	3225	812	6493
405	1935	1008	3225	1012	6493
505	1935	609	3990	1212	6493
406	2273	809	3990		
506	2273	1009	3990		
606	2273	810	4722		
507	2668	1010	4722		

M.O.Q. For sizes

Nos. 204, 304, 404, 305, 405	- 30 Nos. each
Nos. 406, 505 & 606	- 30 Nos. each
Nos. 507 to 807 and 608 to 1008	- 25 Nos. each
Nos. 609 to 809	- 15 Nos. each
Nos. 810 to 1210, 1011 to 1212	- 10 Nos. each

HSS 'T' SLOT CUTTERS WITH TAPER SHANK

IS : 2668 - 2004

Nom Size of T-Slot mm	Dia of Cutter mm	Price Each Rs.	Nom Size of T-Slot mm	Dia of Cutter mm	Price Each Rs.	Nom Size of T-Slot mm	Dia of Cutter mm	Price Each Rs.
10	18	4979	18	32	13095	36	60	40771
12	21	5440	22	40	17452	42	72	49478
14	25	10459	28	50	22625			

RH Cutters Tool Type 'N' will be supplied as standard.

M.O.Q. For sizes

Upto 14 mm	- 20 Nos. each
Over 14 mm to 22 mm	- 15 Nos. each
Over 22 mm to 28 mm	- 10 Nos. each
Over 28 mm to 36 mm	- 5 Nos. each
Over 36 mm to 42 mm	- 3 Nos. each

HSS 'T' SLOT CUTTERS

BS : 122 (PART 1) 1953

Nom Size of T-Slot Inch	Dia of Cutter Inch	Price Each Rs.	Nom Size of T-Slot Inch	Dia of Cutter Inch	Price Each Rs.	Nom Size of T-Slot Inch	Dia of Cutter Inch	Price Each Rs.
1/4	37/64	4001	5/8	1-21/64	10223	1-1/8	2-1/8	23929
5/16	45/64	4511	3/4	1-33/64	12692	1-1/4	2-5/16	28466
3/8	53/64	4932	7/8	1-45/64	14969	1-3/8	2-1/2	35135
7/16	61/64	5228	1	1-61/64	18538	1-1/2	2-3/4	44984
1/2	1-5/64	6315						

M.O.Q. For sizes

Upto 1/2"	- 20 Nos. each
Over 1/2" to 7/8"	- 15 Nos. each
Over 7/8" to 1"	- 10 Nos. each
Over 1" to 1-3/8"	- 5 Nos. each
Over 1-3/8" to 1-1/2"	- 3 Nos. each

HSS SCREWED SHANK

BS : 122 (PART 4) 1980

END MILLS/SLOT DRILLS – SHORT (NORMAL) SERIES

Dia mm	Price Each Rs.		Dia mm	Price Each Rs.		Dia mm	Price Each Rs.	
	End Mills	Slot Drills		End Mills	Slot Drills		End Mills	Slot Drills
3	1400	1645	12	1686	1878	26	4274	4626
4	1400	1645	13	1931	1985	28	5124	5623
5	1400	1645	14	1931	2177	30	5368	6157
6	1400	1645	16	2177	2451	32	6195	6713
7	1545	1645	18	2749	3102	34	7401	7975
8	1545	1645	20	3083	3429	36	8587	9147
9	1545	1645	22	3338	3531	38	8587	9147
10	1622	1752	24	3830	4075			
11	1622	1716	25	3830	4075			

RH Helical Flutes with RH Cutting

M.O.Q. For sizes Upto 32 mm	- 35 Nos. each
Over 32 mm to 38 mm	- 20 Nos. each

**HSS SCREWED SHANK END MILLS
SHORT (NORMAL) / LONG SERIES**

BS : 122 (PART 4) 1980

Dia Inch	Price Each Rs.		Dia Inch	Price Each Rs.		Dia Inch	Price Each Rs.	
	Short Series	Long Series		Short Series	Long Series		Short Series	Long Series
1/8	1400	1452	13/16	3083	3884	1 1/2	8587	10136
3/16	1400	1452	7/8	3338	4307	1 5/8	9988	12417
1/4	1400	1452	15/16	3574	4657	1 3/4	11172	14293
5/16	1545	1622	1	3830	5368	1 7/8	13901	16254
3/8	1545	1829	1 1/16	4274	5900	2	16092	18262
7/16	1622	1976	1 1/8	5124	6393			
1/2	1686	2276	1 3/16	5368	6890			
9/16	1931	2557	1 1/4	6195	7576			
5/8	2177	2888	1 5/16	7401	8136			
11/16	2557	3050	1 3/8	7401	8778			
3/4	2749	3431	1 7/16	8587	9488			

RH Helical Flutes with RH cutting

M.O.Q. For sizes

- Upto 1-1/4" – 35 Nos. each
- Over 1-1/4" to 1-3/4" – 20 Nos. each
- Over 1-3/4" to 2" – 10 Nos. each

**HSS SCREWED SHANK SLOT DRILLS
SHORT SERIES (NORMAL) / LONG SERIES**

BS : 122 (PART 4) 1980

Dia Inch	Price Each Rs.		Dia Inch	Price Each Rs.		Dia Inch	Price Each Rs.	
	Short Series	Long Series		Short Series	Long Series		Short Series	Long Series
1/8	1645	1776	3/4	3102	3574	1-3/8	7975	9488
3/16	1645	1776	13/16	3429	4132	1-7/16	9147	10136
1/4	1645	1776	7/8	3531	4433	1-1/2	9147	10837
5/16	1645	1776	15/16	3746	4959	1-5/8	10637	12856
3/8	1645	1878	1	4075	5368	1-3/4	11757	14633
7/16	1716	2194	1-1/16	4626	6111	1- 7/8	14390	16492
1/2	1878	2320	1-1/8	5623	6902	2	16391	18262
9/16	2177	2733	1-3/16	6157	7490			
5/8	2451	2947	1-1/4	6713	8077			
11/16	2860	3281	1-5/16	7975	8800			

RH Helical Flutes with RH cutting

M.O.Q. For sizes

- Upto 1-1/4" – 35 Nos. each
- Over 1-1/4" to 1-3/4" – 20 Nos. each
- Over 1-3/4" to 2" – 10 Nos. each

HSS HOLE MILLS (FINISHING) GUIDED - TYPE B

IS: 5989 - 1998

Size mm	PriceEach Rs.	Size mm	Price Each Rs.	Size mm	Price Each Rs.
6	2252	18	5308	30	11704
8	2334	20	5788	32	13586
10	2735	22	6616	34	18363
12	3093	24	8520	35	18363
13	3893	25	9187	36	19617
14	3893	26	10326	38	20975
15	4087	27	10326	40	24179
16	4087	28	11260	42	26932

M.O.Q. For sizes
 Upto 18 mm - 25 Nos. each
 Over 18.0 mm to 32 mm - 20 Nos. each
 Over 32 mm to 42 mm - 10 Nos. each

HSS HOLE MILLS (ROUGHING) GUIDED - TYPE B

IS: 5989 - 1998

Size mm	PriceEach Rs.	Size mm	Price Each Rs.	Size mm	Price Each Rs.
5.9	2252	17.8	5308	29.7	11704
7.9	2334	19.8	5788	31.7	13586
9.9	2735	21.7	6616	33.7	18363
11.8	3093	23.7	8520	34.7	18363
12.8	3893	24.7	9187	35.7	19617
13.8	3893	25.7	10326	37.7	20975
14.8	4087	26.7	10326	39.7	24179
15.8	4087	27.7	11260	41.6	26932

M.O.Q. For sizes
 Upto 18 mm - 25 Nos. each
 Over 18.0 mm to 32 mm - 20 Nos. each
 Over 32 mm to 42 mm - 10 Nos. each

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

mm Sizes
IS : 5444-1978
IS : 5445-1978
IS : 5446-1978
IS : 5447-1978

Inch Sizes
BS 328 (PART 4)/
1983

Dia		Price Each Rs.			
		Reamers		Chucking Reamers	
mm	Inch	Hand	Machine	Parallel Shank	Taper Shank
3.00		1059	1059	1059	1059
(3.17)	1/8	1059	1059	1059	1059
(3.97)	5/32	1059	1059	1059	1059
4.00		1059	1059	1059	1059
(4.76)	3/16	1059	1059	1059	1059
5.00		1059	1059	1059	1059
(5.56)	7/32	1059	1059	1059	1059
6.00		1233	1233	1233	1233
(6.35)	1/4	1233	1233	1233	1233
7.00		1235	1235	1235	1235
(7.14)	9/32	1235	1235	1235	1235
(7.94)	5/16	1400	1400	1400	1400
8.00		1400	1400	1400	1400
(8.73)	11/32	1459	1459	1459	1459
9.00		1459	1459	1459	1459
(9.52)	3/8	1591	1591	1591	1591
10.00		1763	1763	1763	1763
(10.32)	13/32	1763	1763	1763	1763
11.00		1980	1980	1980	1980
11.11	7/16	1980	1980	1980	1980
(11.91)	15/32	2059	2059	2059	2059
12.00		2059	2059	2059	2059
(12.70)	1/2	2137	2137	2137	2137
13.00		2599	2599	2599	2599
(13.49)	17/32	2599	2599	2599	2599
14.00		2599	2599	2599	2599
(14.29)	9/16	2599	2599	2599	2599
15.00		2616	2616	2616	2616
(15.08)	19/32	2616	2616	2616	2616
(15.87)	5/8	2616	2616	2616	2616
16.00		2616	2616	2616	2616
(16.67)	21/32	3012	3012	-	3012
17.00		3012	3012	-	3012
(17.46)	11/16	3012	3012	-	3012
18.00		3225	3225	-	3225
(18.26)	23/32	3429	3429	-	3429
19.00		3429	3429	-	3429
(19.05)	3/4	3429	3429	-	3429
20.00		3822	3822	-	3822
(20.64)	13/16	3893	3893	-	3893
21.00		4326	4326	-	4326
22.00		4326	4326	-	4326
(22.22)	7/8	4326	4326	-	4326
23.00		5049	5049	-	5049
(23.81)	15/16	5594	5594	-	5594

HSS HAND REAMERS	mm Sizes	Inch Sizes
HSS MACHINE REAMERS WITH TAPER SHANK	IS : 5444-1978	BS 328 (PART 4)/
HSS CHUCKING REAMERS WITH PARALLEL SHANK	IS : 5445-1978	1983
HSS CHUCKING REAMERS WITH TAPER SHANK	IS : 5446-1978	
	IS : 5447-1978	

Dia		Price Each Rs.			
		Reamers		Chucking Reamers	
mm	Inch	Hand	Machine	Parallel Shank	Taper Shank
24.00		5594	5594	-	5594
25.00		5606	5606	-	5606
(25.40)	1	5708	5708	-	5708
26.00		6928	6928	-	6928
(26.99)	1.1/16	7923	7923	-	7923
27.00		7923	7923	-	7923
28.00		7923	7923	-	7923
(28.57)	1.1/8	7923	7923	-	7923
29.00		8405	8405	-	8405
30.00		9069	9069	-	9069
(30.16)	1.3/16	9069	9069	-	9069
31.00		10015	10015	-	10015
(31.75)	1.1/4	10015	10015	-	10015
32.00		10015	10015	-	10015
33.00		11373	11373	-	11373
(33.34)	1.5/16	11373	11373	-	11373
34.00		12778	12778	-	12778
(34.92)	1.3/8	13982	13982	-	13982
35.00		13982	13982	-	13982
36.00		13982	13982	-	13982
(36.51)	1.7/16	14084	14084	-	14084
37.00		15347	15347	-	15347
38.00		15347	15347	-	15347
(38.10)	1.1/2	15347	15347	-	15347
39.00		16961	16961	-	16961
(39.69)	1.9/16	18538	18538	-	18538
40.00		18538	18538	-	18538
41.00		18695	18695	-	18695
(41.27)	1.5/8	18695	18695	-	18695
42.00		22033	22033	-	22033
(42.86)	1.11/16	22033	22033	-	22033
43.00		22033	22033	-	22033
44.00		22033	22033	-	22033
(44.45)	1.3/4	22033	22033	-	22033
45.00		25819	25819	-	25819
46.00		25819	25819	-	25819
47.00		27878	27878	-	27878
(47.62)	1.7/8	29942	29942	-	29942
48.00		29942	29942	-	29942
49.00		29942	29942	-	29942
(49.21)	1.15/16	29942	29942	-	29942
50.00		29942	29942	-	29942
(50.80)	2	29942	29942	-	29942
51.00		29942	29942	-	-
52.00		35690	35690	-	-

HSS HAND REAMERS	mm Sizes	Inch Sizes
HSS MACHINE REAMERS WITH TAPER SHANK	IS : 5444-1978	BS 328 (PART 4)/
HSS CHUCKING REAMERS WITH PARALLEL SHANK	IS : 5445-1978	1983
HSS CHUCKING REAMERS WITH TAPER SHANK	IS : 5446-1978	
	IS : 5447-1978	

Dia		Price Each Rs.			
		Reamers		Chucking Reamers	
mm	Inch	Hand	Machine	Parallel Shank	Taper Shank
(52.39)	2.1/16	35690	35690	-	-
53.00		35690	35690	-	-
(53.97)	2.1/8	35690	35690	-	-
54.00		35690	35690	-	-
55.00		41443	41443	-	-
(55.56)	2.3/16	41443	41443	-	-
56.00		41443	41443	-	-
57.00		41443	41443	-	-
(57.15)	2.1/4	41443	41443	-	-
58.00		44342	44342	-	-
(58.74)	2.5/16	44342	44342	-	-
59.00		44342	44342	-	-
60.00		52610	52610	-	-
(60.32)	2.3/8	52610	52610	-	-
61.00		52610	52610	-	-
(61.91)	2'7/16	52610	52610	-	-
62.00		52610	52610	-	-
63.00		52610	52610	-	-
(63.50)	2.1/2	52610	52610	-	-
64.00		52610	52610	-	-
65.00		-	63518	-	-
(65.09)	2.9/16	63518	63518	-	-
66.00		-	65662	-	-
(66.67)	2.5/8	65662	65662	-	-
67.00		-	65662	-	-
68.00		-	70391	-	-
(68.26)	2.11/16	70391	70391	-	-
69.00		-	70391	-	-
(69.85)	2.3/4	70391	70391	-	-
70.00		-	70391	-	-
71.00		-	70391	-	-
(71.44)	2.13/16	73957	73957	-	-
72.00		-	85992	-	-
73.00		-	85992	-	-
(73.02)	2.7/8	85992	85992	-	-
74.00		-	85992	-	-
(74.61)	2.15/16	85992	85992	-	-
75.00		-	90299	-	-
76.00		-	90299	-	-
(76.20)	3	90299	90299	-	-

M.O.Q.	- For sizes -	Upto 12.0 mm (1/2")	- 25 Nos. each
Hand and Machine Reamers	-	13.0 to 18.0 mm (17/32" to 11/16")	- 20 Nos. each
Chucking Reamers	-	19.0 to 25 mm (23/32" to 1")	- 15 Nos. each
		26.0 to 30 mm (1.1/16" to 1.3/16")	- 10 Nos. each
		31.0 to 40 mm (1.1/4" to 1.1/2")	- 5Nos. each
		41.0 to 63 mm (1.9/16" to 2.1/2")	- 3 Nos. each
		64.0 to 76.0 mm (2.9/16" to 3")	- 2 Nos. each

HSS TAPER SHANK EXTRA LONG MACHINE REAMERS

Dia mm	Price Each Rs.	Dia Inch	Price Each Rs.
8 x 125 x 200	2027	5/16 x 125 x 200	2027
8 x 175 x 250	2166	5/16 x 175 x 250	2166
8 x 200 x 300	2375	5/16 x 200 x 300	2375
8 x 225 x 300	2980	3/8 x 125 x 200	2546
9 x 125 x 200	1977	3/8 x 175 x 250	2715
9 x 175 x 250	2276	3/8 x 200 x 300	2882
10 x 125 x 200	2546	7/16 x 160 x 250	3016
10 x 175 x 250	2715	7/16 x 200 x 300	3178
10 x 200 x 300	2882	1/2 x 175 x 200	3400
10 x 300 x 400	3079	1/2 x 200 x 300	3438
12 x 160 x 250	3016	9/16 x 200 x 300	4041
12 x 200 x 300	3178	9/16 x 250 x 350	4282
13 x 200 x 300	3635	5/8 x 200 x 300	4041
14 x 160 x 250	3388	5/8 x 250 x 350	4324
14 x 200 x 300	3978	5/8 x 300 x 400	4521
15 x 200 x 300	4041	11/16 x 200 x 300	5015
15 x 300 x 400	4521	3/4 x 200 x 300	5323
16 x 200 x 300	4041	3/4 x 300 x 400	5666
16 x 300 x 400	4521	13/16 x 200 x 300	6707
17 x 200 x 300	4558	7/8 x 200 x 300	7946
18 x 200 x 300	5010	7/8 x 300 x 400	8117
19 x 200 x 300	5323	1 x 275 x 400	9781
20 x 200 x 300	5906	1 x 200 x 315	8709
20 x 300 x 400	6673	1-1/8 x 275 x 400	14860
22 x 200 x 300	6707		
25 x 200 x 315	8709		
25 x 275 x 400	9781		
26 x 275 x 400	12094		
28 x 175 x 400	13892		

**M.O.Q. – Sizes Upto 20 mm – 10 Nos.
 Sizes Above 20 mm – 5 Nos.**

HSS MACHINE JIG REAMERS

IS: 11002 - 1984

Dia mm	PriceEach Rs.	Dia mm	Price Each Rs.	Dia mm	Price Each Rs.
6	1723	21	5513	36	17083
7	1832	22	5513	37	18264
8	1832	23	5513	38	18264
9	1985	24	7098	39	18264
10	2263	25	7693	40	20994
11	2263	26	8600	41	20994
12	2594	27	8600	42	23455
13	3082	28	9345	43	23455
14	3082	29	10170	44	25771
15	3389	30	10170	45	27986
16	3389	31	11773	46	27986
17	3912	32	11773	47	30511
18	4382	33	13827	48	33182
19	4382	34	15922	49	33182
20	4779	35	15922	50	36890

RH Cutting with LH Helical Flutes will be supplied as standard M.O.Q.

For sizes

- Upto 16 mm – 20 Nos. each
- 17 mm to 23 mm – 15 Nos. each
- 24 mm to 28 mm – 10 Nos. each
- 29 mm to 41 mm – 5 Nos each
- 42 mm to 50 mm – 3 Nos each

HSS MACHINE JIG REAMERS

BS : 122 (PART 2) 1964

Dia Inch	PriceEach Rs.	Dia Inch	Price Each Rs.	Dia Inch	Price Each Rs.
1/4	1723	5/8	3225	1.1/4	11329
9/32	1832	11/16	3822	1.5/16	13273
5/16	1832	3/4	4222	1.3/8	14797
11/32	1920	13/16	4629	1.7/16	16430
3/8	1920	7/8	5308	1.1/2	17573
13/32	2226	15/16	6799	1.5/8	18066
7/16	2226	1	7380	1.3/4	24300
15/32	2404	1.1/16	8278	1.7/8	29291
1/2	2460	1.1/8	8999	2	35496
9/16	2992	1.3/16	9799		

RH Cutting with LH Helical Flutes will be supplied as standard M.O.Q.

For sizes

- Upto 5/8" – 20 Nos. each
- 11/16 to 15/16 – 15 Nos. each
- 1" to 1.1/8" – 10 Nos. each
- 1.3/16" to 1.5/8" – 5 Nos. each
- 1.3/4" to 2" – 3 Nos. each

HSS SHELL REAMERS (TAPER HOLE 1 IN 30)

IS: 5926 - 1970

Dia mm	PriceEach Rs.	Dia mm	Price Each Rs.	Dia mm	Price Each Rs.
21, 22, 23	3556	48	7596	79	22852
24, 25	3556	49	7648	80	25049
26, 27	3768	50	7960	81	25049
28	4044	51	8734	82	25049
29	4237	52,53,54	8816	83	26758
30	4257	55, 56	9674	84	26758
31	4428	57	9674	85	27018
32	4456	58, 59	10847	86	28666
33	4679	60	10847	87	28666
34	4869	61	12981	88	28666
35	4923	62, 63	13105	89	28940
36	5129	64	15073	90	33891
37	5327	65, 66	15216	91	34229
38	5401	67	16694	92	34229
39, 40	5670	68, 69	16694	93	35432
41	5922	70	16694	94	35432
42, 43	6719	71	18374	95	35782
44	6817	72, 73	18563	96	40999
45	7110	74, 75	20174	97	40999
46	7110	76	20370	98	41309
47	7448	77, 78	22619	99, 100	45729

RH Cutting Straight Flutes will be supplied as standard
M.O.Q.
 Upto 63 mm
 64 mm & above

For sizes
 - 5 Nos. each
 - 3 Nos. each

**HSS SHELL REAMERS
(TAPER HOLE 1 IN 96)**

BS : 328 (PART 4) 1983

Dia Inch	PriceEach Rs.	Dia Inch	Price Each Rs.	Dia Inch	Price Each Rs.
1	3566	1-11/16	6654	2-3/4	16530
1-1/16	3768	1-3/4	6791	2-7/8	18538
1-1/8	4008	1-13/16	7042	3	20174
1-3/16	4179	1-7/8	7279	3-1/8	22619
1-1/4	4428	1-15/16	7603	3-1/4	24830
1-5/16	4650	2	7878	3-3/8	26758
1-3/8	4869	2-1/8	8734	3-1/2	28666
1-7/16	5086	2-1/4	9512	3-5/8	33913
1-1/2	5309	2-3/8	10612	3-3/4	35432
1-9/16	5605	2-1/2	12981	3-7/8	40999
1-5/8	5852	2-5/8	15073	4	45298

RH Cutting with LH Helical Flutes will be supplied as standard
M.O.Q.
 Upto 2.1/2"
 2.5/8" & above

For sizes
 - 5 Nos. each
 - 3 Nos. each

HSS MACHINE BRIDGE REAMERS

IS: 5919 - 1978

Dia mm	Price Each Rs.	Dia mm	Price Each Rs.	Dia mm	Price Each Rs.
6.4	1840	17.5	4909	28	9740
7.4	1840	18	5513	29	10514
8.4	2155	19	5513	30	10514
9.4	2432	20	6058	31	11581
10	2691	21	6731	32	11581
11	2691	21.5	6731	33	12461
11.5	3145	22	6731	34	13368
12	3145	23	7341	35	13368
13	3429	23.5	7341	36	14265
13.5	3429	24	7983	37	15207
14	3429	25	7983	40	24179
15	3978	26	8999	43	28616
17	4909	27	8999	49	38922

RH Cutting with LH Helical Flutes will be supplied as standard

M.O.Q.

For sizes

- | | |
|----------------|----------------|
| Upto 12 mm | - 25 Nos. each |
| 13 mm to 19 mm | - 15 Nos. each |
| 20 mm to 30 mm | - 10 Nos. each |
| 31 mm to 37 mm | - 5 Nos each |
| 40 mm to 49 mm | - 3 Nos each |

HSS MACHINE BRIDGE REAMERS

BS : 328 (PART 4) 1983

Dia Inch	Price Each Rs.	Dia Inch	Price Each Rs.	Dia Inch	Price Each Rs.
1/4	1799	11/16 MT3	4909	1.3/16	10093
5/16	2004	3/4	5513	1.1/4 MT3	11260
3/8	2290	13/16	5854	1.1/4 MT4	11581
7/16	2691	7/8	6731	1.5/16	11920
1/2	2909	15/16	7341	1.3/8	12778
9/16	3429	1	7983	1.7/16	13657
5/8	3978	1.1/16	8687	1.1/2	15207
11/16 MT2	4003	1.1/8	9331		

RH Cutting with LH Helical Flutes will be supplied as standard

M.O.Q.

For sizes

- | | |
|-------------------|----------------|
| Upto 1/2" | - 25 Nos. each |
| 9/16" to 3/4" | - 15 Nos. each |
| 13/16" to 1-3/16" | - 10 Nos. each |
| 1.1/4" & above | - 5 Nos. each |

**HSS SOCKET REAMERS (ROUGHING/FINISHING)
PARALLEL SHANK/TAPER SHANK**

**BS : 328
(PART 4) 1983**

Morse Taper No.	Price Each Rs.		Morse Taper No.	Price Each Rs.		Morse Taper No.	Price Each Rs.	
	Parallel Shank	Taper Shank		Parallel Shank	Taper Shank		Parallel Shank	Taper Shank
0	2432	2887	3	5417	6776	6	32229	44936
1	2676	3045	4	8960	10674			
2	3727	4520	5	18264	19617			

**RH Cutting with RH Spiral Flutes will be supplied as standard for ROUGHING REAMERS
RH Cutting with LH Spiral Flutes will be supplied as standard for FINISHING REAMERS**

M.O.Q. For sizes
 Upto MT 4 – 35 Nos. each
 MT 5 – 20 Nos. each
 MT 6 – 5 Nos. each

**HSS TAPER PIN REAMERS (TAPER 1 IN 50)
HAND/
MACHINE**

**IS : 5881-1984
IS : 5918-1984**

Dia mm	Price Each Rs.		Dia mm	Price Each Rs.		Dia mm	Price Each Rs.	
	Hand	Machine		Hand	Machine		Hand	Machine
3	2275	2275	10	3415	3415	25	8504	8504
4	2275	2275	12	4123	4123	30	11443	11443
5	2275	2275	14	4629	4629	32	12573	12573
6	2275	2275	16	5153	5153	40	22483	22483
8	3079	3079	20	8015	8015	50	38965	38965

**14 mm will be as per IS : 1836 - 1961.
RH Cutting with Straight flutes will be supplied as standard for HAND TAPER PIN REAMERS.
RH Cutting with LH Helical flutes will be supplied as standard for MACHINE TAPER PIN REAMERS.**

M.O.Q For Sizes
 Upto 10 mm – 20 Nos. each
 12 mm to 14 mm – 15 Nos. each
 16 mm to 32 mm – 10 Nos. each
 40 mm – 5 Nos. each
 50 mm – 3 Nos. each

**HSS TAPER PIN REAMERS (TAPER 1 IN 48)
HAND/MACHINE**

BS : 328 (PART 4) 1983

Dia Inch	Price Each Rs.		Dia Inch	Price Each Rs.		Dia Inch	Price Each Rs.	
	Hand	Machine		Hand	Machine		Hand	Machine
9/64	2120	—	9/32	2319	2319	1/2	3859	3859
5/32	2120	2120	5/16	2568	2568	9/16	4461	4461
11/64	2120	2120	11/32	2898	2898	5/8	4962	4962
3/16	2120	2120	3/8	2955	2955	3/4	6254	6254
7/32	2120	2120	13/32	3315	3315	7/8	7717	7717
1/4	2120	2120	7/16	3413	3413			

**RH Cutting with Straight Flutes will be supplied as standard for HAND TAPER PIN REAMERS
RH Cutting with LH Helical Flutes will be supplied as standard for MACHINE TAPER PIN REAMERS**

M.O.Q. For sizes :

Upto 5/8" - 25 Nos. each

3/4" & 7/8" - 20 Nos. each

HSS TAPER SHANK COUNTER BORES

IS : 5710-1988

Dia mm	Price Each Rs.	Dia mm	Price Each Rs.	Dia mm	Price Each Rs.
13.5	2825	28	9501	43	18349
14.5	3158	29	10015	46	20892
16.5	3625	31	10919	48	22678
17.5	3899	33	12510	51	25599
19.5	4604	34	13336	53	27811
20	4826	36	14495	55	30614
22	5524	37	15105	57	33635
23	6341	39	16367	59	37270
25	7676	41	17749	61	41523
26	8508				

M.O.Q. For sizes

Upto 31 mm - 15 Nos. each

33 mm to 46 mm - 10 Nos. each

48 mm & above - 3 Nos. each

Tools without Pilot will be supplied as standard, unless specific Pilot size is given.

HSS TAPER SHANK COUNTER BORES

BS : 122 (PART 2) 1964

Dia Inch	Pilot Dia Inch	Price Each Rs.	Dia Inch	Pilot Dia Inch	Price Each Rs.	Dia Inch	Pilot Dia Inch	Price Each Rs.
1/4	1/8	1676	11/16	7/16	3899	1-1/4	3/4	10919
5/16	3/16	1907	3/4	1/2	4382	1-3/8	13/16	13336
3/8	7/32	2128	13/16	9/16	4859	1-1/2	7/8	15493
7/16	1/4	2201	7/8	5/8	5524	1-5/8	15/16	17758
1/2	5/16	2478	15/16	5/8	6493	1-3/4	1	20118
9/16	3/8	3082	1	3/4	7676	1-7/8	1 1/8	22349
5/8	7/16	3440	1-1/8	3/4	9501	2	1 1/4	24677

Size 9/16" dia and above will be supplied with detachable pilots.

M.O.Q. For sizes

Upto 1-1/4"	-	15 Nos. each
1-3/8" to 1-3/4"	-	10 Nos. each
1-7/8" & 2"	-	3 Nos. each

HSS COUNTERSINKS WITH TAPER SHANK (60 OR 90 Degrees)

BS : 122 (PART 2) 1964

Dia Inch	Price Each Rs.	Dia Inch	Price Each Rs.	Dia Inch	Price Each Rs.
1/2	1860	1-1/8	5747	2	17270
5/8	2470	1-1/4	7234	2-1/4	19581
3/4	2799	1-3/8	8458	2-1/2	24300
7/8	3534	1-1/2	10023	2-3/4	28681
1	4446	1-3/4	14821	3	34687

RH Cutting with Straight Flutes will be supplied as standard

M.O.Q. For sizes

Upto 1-1/4"	-	15 Nos. each
1-3/8" to 1-3/4"	-	10 Nos. each
1-7/8" & above	-	3 Nos. each

HSS CENTRE REAMERS (60 OR 90 Degrees)

BS : 122 (PART 2) 1964

Dia Inch	Price Each Rs.	Dia Inch	Price Each Rs.	Dia Inch	Price Each Rs.
1/4	1126	1/2	1596	3/4	2668
3/8	1295	5/8	2170		

RH Rotation with Straight Flutes will be supplied as standard

M.O.Q. For all sizes - 20 Nos. each

HSS GROUND THREAD HAND TAPS M C P (NON-SERIAL) IS : 6175 - PART 2 & 3 - 1992 (6H TOL)
HSS GROUND THREAD MACHINE TAPS M C P IS : 6175 - PART 4 - 1991 (6H TOL)
HSS GROUND THREAD NUT TAPS M C P IS : 6175 PART 5 - 1991 (6H TOL)

Dia & Pitch mm	Price Each Rs.						
	Hand Tap	Short M/C Tap Spiral Flute	Hand Tap SPPT Type B	Machine Tap		M/C Tap Long Shank Spiral Flute	Nut Tap
				Type A, C & D	Type B		
3 x 0.5	318	–	387	–	–	–	–
4 x 0.7	318	–	387	674	–	–	–
5 x 0.8	330	–	408	491	574	–	–
6 x 1.0	338	353	408	529	623	652	713
7 x 1.0	431	–	–	571	–	–	809
8 x 1.25	391	410	474	571	680	711	809
9 x 1.25	475	–	–	–	–	–	–
10 x 1.50	490	510	590	714	840	887	1078
11 x 1.50	750	–	–	–	–	–	–
12 x 1.75	749	790	902	1008	1193	1282	1654
14 x 2.00	1087	1147	1314	1460	1719	1943	2298
16 x 2.00	1087	1147	1314	1460	1719	1943	2298
18 x 2.50	1639	1722	1969	2123	2508	2785	3514
20 x 2.50	2154	2199	2510	2633	3082	3302	4688
22 x 2.50	2237	2351	2689	2920	3440	3882	4755
24 x 3.00	2513	2623	3001	3261	3842	4193	5402
25 x 3.00	3150	–	3657	–	–	–	6458
27 x 3.00	3886	–	4543	5013	5919	–	8296
30 x 3.50	4341	–	5085	5518	6514	–	10246
33 x 3.50	5298	–	6189	6465	7826	–	11310
36 x 4.00	7357	–	8612	8453	–	–	14633
39 x 4.00	8638	–	10112	10183	–	–	17457
42 x 4.50	10085	–	11786	11628	–	–	20787
45 x 4.50	13561	–	15874	15588	–	–	25067
48 x 5.00	14462	–	16930	17529	–	–	29325
52 x 5.00	18153	–	21246	20293	–	–	–
56 x 5.50	25824	–	–	26105	–	–	–
60 x 5.50	27228	–	–	30815	–	–	–
64 x 6.00	28643	–	–	34771	–	–	–
68 x 6.00	35741	–	–	48442	–	–	–

HAND TAPS :

A set consists of Taper, Second & Bottoming.
Part 2 design will be supplied from 3 mm to 10 mm including 10 mm
Part 3 design will be supplied above 10 mm.

MACHINE TAPS :

Type 'A' – 5 Deg. Taper Angle with Long Taper Lead.
Type 'B' – 10 Deg. Taper Lead Angle with Spiral point
Type 'C' – 20 Deg. Taper Angle with Short Taper Lead
Type 'D' – 10 Deg. Taper Angle without Spiral point

HAND TAPS & MACHINE TAPS A, B, C & D and SPIRAL FLUTE TAPS

M.O.Q. – For sizes

M3 & M4 – 100 Nos. each
M5 to M10 – 150 Nos. each
M12 to M16 – 100 Nos. each
M18 to M22 – 45 Nos. each
M24 to M33 – 25 Nos. each
M35 to M39 – 20 Nos. each
M40 to M45 – 15 Nos. each
M48 to M52 – 10 Nos. each
M56 to M60 – 5 Nos. each
Above M64 – 3 Nos. each

M.O.Q. – For sizes Nut Taps

Upto M10 – 50 Nos. each
M12 to M16 – 25 Nos. each
M18 to M39 – 20 Nos. each
Above M42 – 10 Nos. each

HSS GROUND THREAD HAND TAPS M F P (NON-SERIAL) IS : 6175 - PART 2 & 3 - 1992 (6H TOL)
HSS GROUND THREAD MACHINE TAPS M F P IS : 6175 - PART 4 - 1991 (6H TOL)
HSS GROUND THREAD NUT TAPS M F P IS : 6175 PART 5 - 1991 (6H TOL)

Dia & Pitch mm	Price Each Rs.					
	Hand Tap	Short M/C Tap Spiral Flute	Hand Tap SPPT Type B	Machine Tap		Nut Tap
				Type A, C & D	Type B	
3 x 0.35	515	-	551	-	-	-
3.5 x 0.35	515	-	551	-	-	-
4 x 0.5	455	-	551	-	-	-
5 x 0.5	445	-	539	604	-	-
6 x 0.75	454	498	539	604	719	786
7 x 0.75	528	-	630	685	817	1016
8 x 0.75	522	-	625	652	774	922
8 x 1.0	475	521	564	652	774	922
9 x 0.75	580	-	740	897	1118	-
9 x 1.0	580	-	740	897	1118	922
10 x 0.75	656	-	812	-	-	-
10 x 1.0	551	601	647	753	897	1215
10 x 1.25	551	601	647	801	947	1215
11 x 1.0	918	-	1204	1167	1350	-
12 x 1.0	875	-	992	977	-	1908
12 x 1.25	875	925	992	1087	1287	1908
12 x 1.5	875	925	992	1087	1287	1908
14 x 1.0	1126	-	1352	1472	1744	2843
14 x 1.25	1156	1215	1386	1460	1719	2843
14 x 1.5	1087	1147	1314	1460	1719	2843
15 x 1.0	1323	-	-	1565	1832	-
15 x 1.5	1126	-	-	1460	1703	-
16 x 1.0	1126	-	1352	1565	1832	2843
16 x 1.5	1087	1147	1314	1460	1719	2843
18 x 1.0	2040	-	2290	2549	3063	4022
18 x 1.5	1904	1965	2090	2443	2880	4022
18 x 2.0	1904	2153	2290	2443	2880	4022
20 x 1.0	2525	-	3045	3184	3882	-
20 x 1.5	2364	2479	2637	3184	3763	5154
20 x 2.0	2364	2662	3045	3184	3763	5154
22 x 1.0	2858	-	3334	3184	4091	-
22 x 1.5	2569	2705	2877	3184	3894	5472
22 x 2.0	2569	2917	3334	3184	3894	5472
24 x 1.0	2909	-	3148	3689	4559	-
24 x 1.5	2909	2964	3148	3689	4345	6507
24 x 2.0	2909	3167	3624	3689	4345	6507
25 x 1.5	3215	-	3857	4802	5668	7315
25 x 2.0	3215	-	-	4802	5668	-
26 x 1.5	3232	-	-	4739	5592	-
26 x 2.0	3232	-	-	4739	5592	-
27 x 1.5	4317	-	5055	5668	6689	9222
27 x 2.0	4317	-	5055	5668	6689	-
28 x 1.5	4317	-	-	6124	7185	11484
28 x 2.0	4317	-	-	6124	7185	-
30 x 1.0	4870	-	-	6560	7714	-
30 x 1.5	4870	-	5685	6377	7523	11484
30 x 2.0	4870	-	5685	6377	7523	11484

HSS GROUND THREAD HAND TAPS M F P (NON-SERIAL) IS : 6175 - PART 2 & 3 - 1992 (6H TOL)
HSS GROUND THREAD MACHINE TAPS M F P IS : 6175 - PART 4 - 1991 (6H TOL)
HSS GROUND THREAD NUT TAPS M F P IS : 6175 PART 5 - 1991 (6H TOL)

Dia & Pitch mm	Price Each Rs.					
	Hand Tap	Short M/C Tap Spiral Flute	Hand Tap SPPT Type B	Machine Tap		Nut Tap
				Type A, C & D	Type B	
30 x 3.0	4870	–	5685	6377	7523	–
32 x 1.5	5124	–	–	7049	8414	–
32 x 2.0	5124	–	–	7049	8414	–
33 x 1.5	5936	–	–	7714	9153	12741
33 x 2.0	5936	–	–	7714	9153	12741
33 x 3.0	5936	–	–	7714	9153	–
35 x 1.5	8228	–	–	10721	–	–
36 x 1.5	8228	–	–	10721	–	–
36 x 2.0	8228	–	–	10721	–	–
36 x 3.0	8228	–	–	10721	–	–
39 x 1.5	10275	–	–	13024	–	–
39 x 2.0	10275	–	–	13024	–	–
39 x 3.0	10275	–	–	13024	–	–
40 x 1.5	10381	–	–	14019	–	–
40 x 2.0	10889	–	–	14019	–	–
40 x 3.0	11389	–	–	14019	–	–
42 x 1.5	11389	–	–	14787	–	–
42 x 2.0	11389	–	–	14787	–	–
42 x 3.0	11389	–	–	14787	–	–
42 x 4.0	11389	–	–	14787	–	–
45 x 1.5	15794	–	–	20630	–	–
45 x 2.0	15794	–	–	20630	–	–
45 x 3.0	15794	–	–	20630	–	–
45 x 4.0	15794	–	–	20630	–	–
48 x 1.5	16456	–	–	21375	–	–
48 x 2.0	16456	–	–	21375	–	–
48 x 3.0	16456	–	–	21375	–	–
48 x 4.0	16456	–	–	21375	–	–
50 x 1.5	18143	–	–	24881	–	–
50 x 2.0	18143	–	–	24881	–	–
50 x 3.0	18143	–	–	24881	–	–
52 x 1.5	20445	–	–	26563	–	–
52 x 2.0	20445	–	–	26563	–	–
52 x 3.0	20445	–	–	26563	–	–
52 x 4.0	20445	–	–	26563	–	–

HAND TAPS :
A set consists of Taper & Bottoming.
Part 2 design will be supplied upto and including 10 mm.
Part 3 design will be supplied above 10 mm.

MACHINE TAPS :
Type 'A' – 5 Deg. Taper Angle with Long Taper Lead.
Type 'B' – 10 Deg. Taper Lead Angle with Spiral point
Type 'C' – 20 Deg. Taper Angle with Short Taper Lead
Type 'D' – 10 Deg. Taper Angle without Spiral point

HAND TAPS & MACHINE TAPS A, B, C & D and SPIRAL FLUTE TAPS

M.O.Q. – For sizes
M3 & M4 – 100 Nos. each
M5 to M10 – 150 Nos. each
M12 to M16 – 100 Nos. each
M18 to M22 – 45 Nos. each
M24 to M33 – 25 Nos. each
M35 to M39 – 20 Nos. each
M40 to M45 – 15 Nos. each
Above M48 – 10 Nos. each
M.O.Q. – For sizes Nut Taps
Upto M10 – 50 Nos. each
M12 to M16 – 25 Nos. each
Above M18 – 20 Nos. each

**HSS GROUND THREAD HAND TAPS
BSW, BSF, UNC, UNF FORM**

**BS: 949 (PART 2) 1979
CLASS 2 TOL**

Dia Inch	M.O.Q.				Price Each Rs.
	BSW	BSF	UNC	UNF	
3/16	150	150	*	*	330
1/4	150	150	150	150	338
5/16	100	100	100	100	391
3/8	100	100	100	100	466
7/16	100	100	100	100	601
1/2	100	100	100	100	757
9/16	100	100	100	100	1099
5/8	100	100	100	100	1099
11/16	35	35	35	35	1666
3/4	35	35	35	35	1666
13/16	35	35	35	35	1966
7/8	35	35	35	35	2261
1	20	20	20	20	2909
1.1/8	20	20	20	20	3945
1.1/4	20	20	30	30	4753
1.3/8	20	20	20	20	6133
1.1/2	20	20	20	20	7357
1.5/8	10	10	10	-	8624
1.3/4	10	10	10	-	10088
2	10	10	10	-	14462
2.1/4	5	5	5	-	21612
2.1/2	5	5	5	-	28365
2.3/4	3	3	3	-	35398
3	3	3	3	-	47503

Hand Tap consists of I, II & III Taps (Taper, Second & Bottoming)
Range of UNF Taps - Upto 1.1/2" dia only
*3/16" size UNC/UNF not covered in BSS standard

**HSS GROUND THREAD NUT TAPS
BSW, BSF, UNC, UNF FORM**

**BS: 949-1969
ZONE - 3 TOL**

Size Inch	Price each Rs.	Size Inch	Price each Rs.	Size Inch	Price each Rs.
1/4	713	5/8	2298	1.1/4	10334
5/16	809	11/16	2963	1.3/8	12417
3/8	991	3/4	3514	1.1/2	14897
7/16	1329	7/8	4755	1.3/4	20948
1/2	1654	1	6196	2	29584
9/16	2298	1.1/8	8357		

Range of UNF Nut Taps - Upto 1-1/2" dia only.

M.O.Q. - For sizes
 Upto 7/16" - 50 Nos. each
 Over 1/2" to 5/8" - 25 Nos. each
 Over 11/16 to 7/8" - 20 Nos. each
 Over 1" to 1-1/2" - 15 Nos. each
 Over 1-3/4" - 10 Nos. each

HSS GROUND THREAD HAND TAPS
BSP (PARALLEL)
BSP (TAPER) (RC-SERIES)
NPT, NPS, NPSF & NPTF
BS CONDUIT (ZONE - 3)

BS: 949 - 1951
BS: 949 (PART 3) - 1982
BS: 949 - 1969
BS: 949 - 1951

Dia Inch	Price Each Rs.						
	BSP (P)	NPS	NPSF	BSPT	NPT	BS CON	NPTF
1/16	—	—	—	—	684	—	684
1/8	494	586	710	656	684	—	794
1/4	769	1014	1240	1183	1243	—	1499
3/8	1130	1250	1499	1584	1654	—	1835
1/2	1650	1806	2178	2302	2405	1028	2673
5/8	1871	—	—	—	—	1567	—
3/4	2627	2790	3330	3662	3823	2049	4118
7/8	3263	—	—	—	—	—	—
1	4148	4702	5629	5693	5969	3184	6406
1.1/4	6227	7267	—	8148	8539	4628	9437
1.1/2	7760	9068	—	10103	10575	7399	—
1.3/4	11906	—	—	—	—	—	—
2	13937	16207	—	18236	19102	12497	—
2.1/4	24104	—	—	—	—	—	—
2.1/2	34542	—	—	53537	56077	—	—
2.3/4	38821	—	—	—	—	—	—
3	43763	—	—	69783	73109	—	—
3.1/2	57504	—	—	91726	96054	—	—
4	72359	—	—	115297	120779	—	—

BSP (P), NPS, NPSF, BSPT, NPT & NPTF : A set consists of 2 Taps (Taper & Bottoming)
BS CON: A set consists of 3 Taps (Taper, Second & Bottoming)

M.O.Q. - For Sizes

1/8" & 3/8"	— 100 Nos. each
1/2" & 5/8"	— 50 Nos. each
3/4", 7/8 & 1"	— 25 Nos. each
1-1/4"	— 20 Nos. each
1-1/2" & 1-3/4"	— 15 Nos. each
2"	— 10 Nos. each
2" and above	— 5 Nos. each

Note : We can also supply BSP (Parallel) Taps to new BS: 949 PART 3-1982 (G/RP Series) at the same rates and M.O.Q. as given above for all sizes.

LPG CYLINDER TAPS 3/4" - 14 NGT non-interrupted 4 flutes can be supplied at Rs. 3574 each.

HSS GROUND THREAD HAND TAPS BSCY

BS: 949 - 1951

Size Inch	TPI	Price Each Rs.	Size Inch	TPI	Price Each Rs.
1/4	26	389	9/16	26	1449
5/16	26	473	9/16	26 LH	1449
3/8	26	605	1	24	2857
7/16	26	775	1.37	24	5989
1/2	26	949	1.37	24 LH	5989

A set consists of 3 Taps - Taper, Second & Bottoming.

M.O.Q. - For Sizes

Upto 9/16"	— 100 Nos. each
1"	— 25 Nos. each
1.370"	— 15 Nos. each

**HSS TOOL HOLDER BITS
SQUARE / ROUND**

Size		Price Each Rs.				
Inch	mm	M 2	M 35	M 42	T 42	T 42-C
3/16 x 3	5 x 75	126	226	294	310	323
3/16 x 4	5 x 100	166	330	432	452	475
3/16 x 6	5 x 150	256	602	922	972	995
1/4 x 3	6 x 75	145	286	395	415	438
1/4 x 4	6 x 100	171	390	526	555	577
1/4 x 6	6 x 150	243	635	860	907	937
1/4 x 8	6 x 200	350	1052	1460	1536	1609
5/16 x 3	8 x 75	159	373	511	538	572
5/16 x 4	8 x 100	209	514	699	734	780
5/16 x 6	8 x 150	344	822	1125	1179	1255
5/16 x 8	8 x 200	438	1172	1589	1673	1784
3/8 x 3	–	204	434	604	638	681
3/8 x 4	–	243	582	800	843	910
3/8 x 6	–	378	920	1287	1352	1440
3/8 x 8	–	520	1308	1826	1922	2047
3/8 x 10	–	666	1733	2419	2545	2710
–	10 x 75	222	475	658	692	741
–	10 x 100	266	635	887	930	994
–	10 x 150	412	994	1389	1458	1548
–	10 x 200	573	1400	1950	2052	2184
–	10 x 250	728	1850	2580	2709	2881
1/2 x 3	12 x 75	300	688	985	1040	1081
1/2 x 4	12 x 100	378	920	1287	1354	1449
1/2 x 6	12 x 150	581	1415	2021	2131	2226
1/2 x 8	12 x 200	765	1981	2822	2969	3104
1/2 x 10	12 x 250	1163	2773	3884	4090	4336
5/8 x 4	16 x 100	604	1517	2168	2281	2374
5/8 x 6	16 x 150	889	2281	3177	3343	3557
5/8 x 8	16 x 200	1202	3117	4452	4691	4870
3/4 x 4	–	833	2110	2980	3137	3304
3/4 x 6	–	1219	3162	4371	4604	4951
3/4 x 8	–	1669	4239	5993	6305	6641
–	20 x 100	910	2300	3250	3422	3596
–	20 x 150	1329	3443	4871	5127	5399
–	20 x 200	1814	4591	6496	6844	7196
1 x 6	25 x 150	2057	5253	7339	7724	8204
1 x 8	25 x 200	2795	7004	9785	10295	10949

M.O.Q. – For all sizes – 50 Nos. each



MC 42 WEF 101114

'ADDSONIC' Series
High Performance Tools

**M35 HSS PARALLEL SHANK TWIST DRILLS JOBBER SERIES TYPE-N AND 135° POINT ANGLE AND SPLIT POINT
OTHER DETAILS AS PER IS:5101/BS328 (PART-1) 1986/DIN338.**

SIZE			Price per 10 Nos. (Rs.)	SIZE			Price per 10 Nos. (Rs.)
mm	Inch	WG/LG		mm	Inch	WG/LG	
1			480	(4.37)	11/64		1209
1.1			480	(4.39)		No.17	1209
(1.19)	3/64		480	4.40			1209
1.2			480	(4.50)		No.16	1586
1.3			480	4.50			1586
1.4			480	(4.57)		No.15	1586
1.5			480	4.60			1586
(1.59)	1/16		480	(4.62)		No.14	1586
1.6			480	4.70		No.13	1586
1.7			504	(4.76)	3/16		1586
1.8			504	(4.80)		No.12	1586
1.9			504	(4.85)		No.11	1724
(1.98)	5/64		504	4.90			1724
2			504	(4.92)		No.10	1724
2.1			504	(4.98)		No.9	1724
2.2			504	5.00			1724
2.3			504	(5.06)		No.8	1724
(2.38)	3/32		504	5.10			1724
2.4			504	(5.11)		No.7	1724
2.5			504	(5.16)	13/64		1724
2.6			504	(5.18)		No.6	1724
2.7			504	5.20			1724
(2.78)	7/64		510	(5.22)		No.5	1860
2.8			510	5.30			1861
2.9			510	(5.31)		No.4	1860
3.00			572	5.40			1861
(3.05)		No.31	682	(5.41)		No.3	1860
3.10			682	5.50			1860
(3.17)	1/8		682	(5.56)	7/32		1860
3.20			704	5.60			1861
(3.26)		No.30	704	(5.61)		No.2	2091
3.30			704	5.70			2092
3.40			704	(5.79)		No.1	2091
(3.45)		No.29	704	5.80			2092
3.50			704	5.90			2092
(3.57)		No.28	704	(5.94)		A	2091
(3.57)	9/64		704	(5.95)	15/64		2091
3.60			998	6.00			2091
(3.66)		No.27	998	(6.04)		B	2277
3.70			998	6.10			2277
(3.73)		No.26	998	(6.15)		C	2277
(3.80)		No.25	998	6.20			2277
3.80			998	(6.25)		D	2277
(3.86)		No.24	998	6.30			2278
3.90			998	(6.35)	1/4	E	2277
(3.91)		No.23	998	6.40			2278
(3.97)	5/32		998	6.50			2905
(3.99)		No.22	998	(6.53)		F	2905
4.00			998	6.60			2906
(4.04)		No.21	1209	(6.63)		G	2905
(4.09)		No.20	1209	6.70			2906
4.10			1209	(6.75)	17/64		2905
4.20			1209	(6.75)		H	2905
(4.22)		No.19	1209	6.80			2905
4.30			1209	6.90			3182
(4.30)		No.18	1209	(6.90)		I	3180



MC 42 WEF 101114

'ADDSONIC' Series
High Performance Tools

**M35 HSS PARALLEL SHANK TWIST DRILLS JOBBER SERIES TYPE-N AND 135° POINT ANGLE AND SPLIT POINT
OTHER DETAILS AS PER IS:5101/BS328 (PART-1) 1986/DIN338.**

SIZE			Price per 10 Nos. (Rs.)	SIZE			Price per 10 Nos. (Rs.)
mm	Inch	WG/LG		mm	Inch	WG/LG	
7.00			3180	9.80			6026
(7.03)		J	3180	(9.80)		W	6022
7.10			3182	9.90			6743
(7.14)		K	3180	(9.92)	25/64		6741
(7.14)	9/32		3180	10.00			6741
7.20			3180	(10.08)		X	6741
7.30			3358	(10.10)			6743
(7.37)		L	3357	10.20			6741
7.40			3358	(10.26)		Y	7304
(7.49)		M	3357	10.30			7307
7.50			3357	(10.32)	13/32		7304
(7.54)	19/64		3634	10.40			7307
7.60			3635	(10.49)		Z	7304
(7.67)		N	3634	10.50			7304
7.70			3635	10.60			7307
7.80			3634	10.70			7738
7.90			3635	(10.72)	27/64		7734
(7.94)	5/16		3989	10.80			7734
8.00			3989	10.90			7738
(8.03)		O	3989	11.00			7734
8.10			3992	11.10			8637
(8.20)		P	3989	(11.11)	7/16		8633
8.20			3992	11.20			8637
8.30			4836	11.30			8637
(8.33)	21/64		4834	11.40			8637
8.40			4836	11.50			9105
(8.43)		Q	4834	(11.51)	29/64		9105
8.50			4834	11.60			9109
8.60			4836	11.70			9109
(8.61)		R	4834	11.80			9109
8.70			4836	11.90			9729
(8.73)	11/32		5092	(11.91)	15/32		9724
8.80			5092	12.00			9724
(8.84)		S	5092	12.10			9729
8.90			5095	12.20			9729
9.00			5092	12.30			10319
(9.09)		T	5313	(12.30)	31/64		10314
9.10			5315	12.40			10319
(9.13)	23/64		5313	12.50			10314
9.20			5313	12.60			10319
9.30			5315	(12.70)	1/2		10891
(9.34)		U	5313	12.80			10891
9.40			5315	12.90			10897
9.50			5313	13.00			10891
(9.52)	3/8		6022				
(9.58)		V	6022				
9.60			6026				
9.70			6026				

M.O.Q. FOR SIZES : 1.0 mm to 6.4 (1/4") : 200 Nos.
6.5 mm (17/64") to 10 mm (25/64") : 100 Nos. Each
Above 10 mm (25/64") : 50 Nos. Each

SIZES : Below 3 mm our supplies will be without split point

HSS PARALLEL SHANK END MILLS

IS - 6353-1991
BS 122 – PART I – 1953

SIZE		Price Each		SIZE		Price Each	
mm	Inch	M42 CC	M42 CCTC	mm	Inch	M42 CC	M42 CCTC
3		1136	1336	33		8600	10121
(3.17)	1/8	1136	1336	34		8600	10121
(3.97)	5/32	1136	1336	(34.92)	1.3/8	8600	10121
4		1136	1336	35		8600	10121
(4.76)	3/16	1136	1336	36		8600	10121
5		1136	1336	37		9270	10900
(5.56)	7/32	1136	1336	38		9878	11620
6		1136	1336	(38.10)	1.1/2	9878	11619
(6.35)	1/4	1136	1336	39		10276	12092
7		1282	1505	40		10921	12847
(7.14)	9/32	1282	1505	41		13927	16386
(7.94)	5/16	1282	1505	(41.27)	1.5/8	13927	16386
8		1282	1505	42		13927	16386
9		1282	1505	43		13927	16386
(9.52)	3/8	1282	1505	44	–	–	–
10		1282	1505	(44.45)	1.3/4	13927	16386
11		1480	1741	45		13927	16386
(11.11)	7/16	1480	1741	46		15358	18066
12		1526	1797	47		15358	18066
(12.70)	1/2	1526	1797	(47.62)	1.7/8	15358	18066
13		1885	2219	48		15358	18066
14		1885	2219	49		15358	18067
(14.29)	9/16	1885	2219	50		16850	19821
15		2204	2588	(50.8)	2	16812	19778
(15.87)	5/8	2204	2588	51		14038	16517
16		2204	2588	52		30575	35971
17		2686	3157	(52.39)	2-1/16	36688	43165
(17.46)	11/16	2686	3157	53		30575	35971
18		2686	3157	(53.97)	2-1/8	36688	43165
19		2686	3157	54		30575	35971
(19.05)	3/4	2686	3157	55		30575	35971
20		2975	3500	(55.56)	2-3/16	36688	43165
(20.64)	13/16	3369	3969	56		30575	35971
21		3369	3970	57		30575	35971
22		3369	3970	(57.15)	2-1/4	36688	43165
(22.22)	7/8	3369	3969	58		30575	35971
23		3648	4294	(58.74)	2-5/16	36688	43165
(23.81)	15/16	3926	4617	59		30575	35971
24		3926	4617	60		30575	35971
25		3926	4617	(60.32)	2-3/8	36688	43165
(25.40)	1	3926	4617	61		35008	41188
26		3963	4664	62		35008	41188
27		5442	6405	63		35008	41188
28		5442	6405	(63.50)	2-1/2	42009	49425
(28.57)	1-1/8	5442	6405				
29		5442	6405				
30		5987	7042				
31		8600	10121				
(31.75)	1.1/4	8600	10121				
32		8600	10121				

CC – With Centre Cutting

CCTC – With Centre Cutting and TIN Coating.

M.O.Q. FOR SIZES : Upto 25mm & 1” – 15 Nos each

Above 25.0mm & 1” to Upto 50 mm & 2” – 10 Nos. Each

Above 50mm & 2” – 5 Nos Each.

**HSS PARALLEL SHANK ROUGHING END MILLS
WITH GROUND RELIEVED CHIP BREAKER GROOVES**

**IS 6353-1991
BS 122 – PART I – 1953**

SIZE		Price Each			
mm	Inch	M42	M42 TC	M42CC	M42CCTC
(9.52)	3/8	2543	2996	2799	2966
10		2543	2996	2799	3293
11		2729	3212	3000	3531
(11.11)	7/16	3152	3703	3463	3670
12		2802	3295	3082	3625
(12.70)	1/2	3152	3703	3463	3670
13		3330	3916	3658	4305
14		3330	3916	3658	4305
(14.29)	9/16	3330	3916	3658	4096
15		4115	4846	4528	5324
(15.87)	5/8	4115	4846	4528	5071
16		4115	4846	4528	5324
17		4814	5660	5297	6225
(17.46)	11/16	4814	5661	5297	5932
18		4814	5661	5297	6225
19		4814	5661	5297	6225
(19.05)	3/4	4814	5661	5297	5932
20		4814	5661	5297	6225
(20.64)	13/16	5218	6136	5741	6430
21		5218	6136	5741	6753
22		5218	6136	5741	6753
(22.22)	7/8	5218	6136	5741	6430
23		5733	6742	6304	7416
(23.81)	15/16	5733	6742	6304	7060
24		5733	6742	6304	7416
25		5733	6742	6304	7416
(25.40)	1	5733	6742	6304	7060
26		6155	7239	6583	7746
27		8423	9909	9008	10604
28		8423	9909	9008	10604
(28.57)	1.1/8	8423	9909	9008	10090
29		8423	9909	9008	10604
30		8423	9909	9008	10604
31		11557	13592	12362	14545
(31.75)	1.1/4	12107	14242	12954	14508
32		11557	13592	12362	14545
33		11557	13592	12362	14545
34		11557	13592	12362	14545
(34.92)	1.3/8	12107	14242	12954	14508
35		11557	13592	12362	14545
36		11557	13592	12362	14545
37		14580	17150	15598	18349
38		14580	17150	15598	18349
(38.10)	1.1/2	14580	17150	15598	17471
39		14580	17150	15308	18009

**HSS PARALLEL SHANK ROUGHING END MILLS
WITH GROUND RELIEVED CHIP BREAKER GROOVES**

**IS 6353-1991
BS 122 – PART I – 1953**

SIZE		Price Each (Rs.)			
mm	Inch	M42	M42 TC	M42CC	M42CCTC
40		14580	17150	15308	18009
41		18127	21326	19032	22393
(41.27)	1.5/8	18127	21326	19032	21315
42		18127	21326	19032	22393
43		18127	21326	19032	22393
44		18127	21326	19032	22393
(44.45)	1.3/4	18127	21326	19032	21315
45		18127	21326	19032	22393
46		21596	25408	22675	26675
47		21596	25408	22675	26675
(47.62)	1.7/8	21596	25408	22675	25395
48		21596	25408	22675	26675
49		21596	25408	22675	26675
50		21596	25408	22675	26675
(50.08)	2	21596	25408	22675	25395
51		21596	25408	22675	26675
52		41903	49301	43998	51762
(52.39)	2.1/16	41903	49299	43999	49280
53		41903	49301	43998	51762
(53.97)	2.1/8	41903	49299	43999	49280
54		41903	49301	43998	51762
55		41903	49301	43998	51762
(55.56)	2.3/16	41903	49299	43999	49280
56		41903	49301	43998	51762
57		41903	49301	43998	51762
(57.15)	2.1/4	41903	49299	43999	49280
58		41903	49301	43998	51762
(58.74)	2.5/16	41903	49299	43999	49280
59		41903	49301	43998	51762
60		41903	49301	43998	51762
(60.32)	2.3/8	48938	57578	51388	57555
61		48938	57578	51388	60454
62		48938	57578	51388	60454
63		48938	57578	51388	60454
63.50	2-1/2	48938	57578	51388	57555
MOQ : UPTO 1/2"		50 NOS EACH			
ABOVE 1/2" TO 5/8"		35 NOS EACH			
ABOVE 5/8" TO 1"		25 NOS EACH			
ABOVE 1"		5 NOS EACH			

**HSS PARALLEL SHANK ROUGHING END MILLS
WITH GROUND RELIEVED CHIP BREAKER GROOVES**

**IS 6353-1991
BS 122 – PART I – 1953**

SIZE		Price Each (Rs.)				
mm	Inch	M2	M35	M2 LS	M35 LS	M42 LS
(9.52)	3/8	2262	2400	-	-	-
10		2262	2405	3135	3321	3873
11		2262	2507	3135	3418	3986
(11.11)	7/16	2262	2400	-	-	-
12		2321	2562	3312	3598	4193
(12.70)	1/2	2321	2460	-	-	-
13		2615	3028	-	-	-
14		2735	3028	3845	4701	5175
(14.29)	9/16	2735	3062	-	-	-
15		3423	3766	-	-	-
(15.87)	5/8	3423	3833	-	-	-
16		3423	3766	4672	5094	6276
17		3246	3845	-	-	-
(17.46)	11/16	3332	3731	-	-	-
18		3423	3845	4857	5370	6617
19		3420	3845	-	-	-
(19.05)	3/4	3420	3830	-	-	-
20		3880	4686	5669	6758	8328
(20.64)	13/16	3880	4346	-	-	-
21		4087	4686	-	-	-
22		4143	4686	6007	6758	8328
(22.22)	7/8	4143	4641	-	-	-
23		4311	5112	-	-	-
(23.81)	15/16	4311	4829	-	-	-
24		4311	5112	-	-	-
25		4492	5112	6731	7596	9359
(25.40)	1	4492	5830	-	-	-
26		4867	5515	-	-	-
27		5335	6724	-	-	-
28		5834	6724	8341	9589	11814
(28.57)	1.1/8	5834	6531	-	-	-
29		5834	6724	-	-	-
30		6485	7887	-	-	-
31		6813	7887	-	-	-
(31.75)	1.1/4	6813	7348	-	-	-
32		6813	7887	-	-	-
33		7830	9577	-	-	-
34		8294	9577	-	-	-
(34.92)	1.3/8	8294	9289	-	-	-
35		8294	9577	-	-	-
36		8765	11475	-	-	-
37		9435	11475	-	-	-
38		9863	11475	-	-	-
(38.10)	1.1/2	9219	10326	-	-	-
39		10522	12789	-	-	-

**CARBIDE TIPPED STRAIGHT SHANK TWIST DRILLS
CARBIDE TIPPED TAPER SHANK TWIST DRILLS**

**IS.8307-1976 – GRADE OF TIP ISO/K-20
IS.8306-1976 – GRADE OF TIP ISO/K-20**

SIZE		Price Each (Rs.)		SIZE		Price Each (Rs.)	
mm	Inch	Straight Shank Drill	Taper Shank Drill	mm	Inch	Straight Shank Drill	Taper Shank Drill
3.0		590	–		31/64	1254	2117
	1/8	590	–		1/2	1254	2117
3.5		609	–	13.0		1254	2117
	9/64	609	–	17/32	1485	2423	
	5/32	611	–	14.0		1485	2423
4.0		611	–		9/16	1485	2423
	11/64	611	–	15.0		1663	2573
4.5		611	–		19/32	1663	2573
	3/16	668	–		5/8	1915	2784
5.0		668	–	16.0		1915	2784
	13/64	668	–		21/32	2013	2995
5.5		676	–	17.0		2013	2995
	7/32	676	–		11/16	2013	2995
	15/64	711	–	18.0		2216	3256
6.0		711	–		23/32	2216	3256
	1/4	723	–	19.0		2528	3481
6.5		723	–		3/4	2528	4005
	17/64	736	–		25/32	2866	4005
7.0		783	–	20.0		2866	4005
	9/32	783	–		13/16	–	4147
7.5		802	–	21.0		–	4147
	19/64	802	–		27/32	–	4147
	5/16	802	–	22.0		–	4345
8.0		802	–		7/8	–	4345
	21/64	828	–	23.0		–	4588
8.5		828	–		29/32	–	4588
	11/32	855	–		15/16	–	4815
9		855	–	24.0		–	4815
	23/64	913	–		31/32	–	4991
9.5		913	–	25.0		–	4991
	3/8	918	1594		1	–	6133
	25/64	918	1594	26.0		–	6133
10.0		918	1594		1.1/32	–	6133
	13/32	995	1783		1.1/16	–	6333
10.5		995	1783	27.0		–	6333
	27/64	1009	1783		1.3/32	–	6668
11.0		1009	1783	28.0		–	6668
	7/16	1046	1949		1.1/8	–	6918
11.5		1046	1949	29.0		–	6918
	29/64	1046	1949		1.5/32	–	6918
	15/32	1129	1949	30.0		–	7121
12.0		1129	1949		1.3/16	–	7121

M.O.Q. FOR SIZES : Upto 13.0 mm (1/2") : 25 Nos. Each
14 mm (17/32") to 25 mm (1") : 20 Nos. Each
26 mm (1-1/32") & Above : 15 Nos. Each

For Carbide Tipped Taper Shank Twist Drill to Addison standard sizes 3.0 mm to 9.5 mm and 31.0 to 50.0 mm (Equivalent inch sizes) please refer Page No. 80

CARBIDE TIPPED TAPER SHANK CORE DRILLS

IS 9771 - 1981
GRADE OF TIP : ISO/K - 20

SIZE		Price Each	SIZE		Price Each	SIZE		Price Each
mm	Inch	(Rs.)	mm	Inch	(Rs.)	mm	Inch	(Rs.)
12.0		4074	19.0		5308		1	5836
	1/2	4074		3/4	5308	26.0		5836
13.0		4074		25/32	5528		1.1/32	5836
	17/32	4251	20.0		5528	27.0		5836
14.0		4588		13/16	5528		1.1/16	5836
	9/16	4588	21.0		5528		1.3/32	5983
15.0		4588		27/32	5528	28.0		5983
	19/32	4588	22.0		5528		1.1/8	6068
	5/8	4747		7/8	5528		1.5/32	6068
16.0		4747	23.0		5528	30.0		6068
	21/32	4747		29/32	5528		1.3/16	6068
17.0		4747		15/16	5836		1.7/32	6245
	11/16	4747	24.0		5836		1.1/4	6245
18.0		5308		31/32	5836	32.0		6245
	23/32	5308	25.0		5836			

M.O.Q. : For sizes : Upto 45 mm (1-3/4") - 10 Nos. each
46 mm (1-13/16") to 52 mm (2-1/8") - 7 Nos. each
56 mm (2-1/4") & Above - 4 Nos. each

CARBIDE TIPPED SHELL CORE DRILLS

DIN 8022-1971
GRADE OF TIP ISO K-20

SIZE		Price Each	SIZE		Price Each	SIZE		Price Each
mm	Inch	(Rs.)	mm	Inch	(Rs.)	mm	Inch	(Rs.)
	1.1/4	5355	45.0		5738		2.3/4	8106
32.0		5355	46.0		5983	71.0		8610
33.0		5355		1-13/16	5983		2.7/8	8610
	1.5/16	5355	47.0		5983	76.0		8867
34.0		5355		1.7/8	5983		3	8867
	1.3/8	5355	48.0		5983	77.0		8867
35.0		5355	49.0		5983	78.0		8867
36.0		5466		1-15/16	5983		3.1/8	8867
	1.7/16	5466	50.0		5983		3.1/4	8867
37.0		5466		2	6245		3.3/8	9096
38.0		5528	51.0		6245	86.0		9096
	1.1/2	5528	52.0		6245	87.0		9096
39.0		5528		2.1/8	6245		3.1/2	9096
	1.9/16	5528	56.0		6523	91.0		9613
40.0		5528	57.0		6523	92.0		9613
41.0		5738		2.1/4	6523		3.5/8	9613
	1.5/8	5738		2.3/8	6523	93.0		9613
42.0		5738	61.0		8106	94.0		9613
	1.11/16	5738		2.1/2	8106		3.3/4	9613
43.0		5738	66.0		8106		3.7/8	9613
44.0		5738		2.5/8	8106		4	9613
	1.3/4	5738	67.0		8106			

M.O.Q. : FOR SIZES : Upto 25.0 mm (1") - 20 Nos. each
Above 25.0 mm (1") - 15 Nos. each

**CARBIDE TIPPED STRAIGHT
SHANK CHUCKING REAMERS**

**IS : 10884 - 1984
GRADE OF TIP : ISO K - 10**

SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)
mm	Inch		mm	Inch	
6.0		3120		3/8	3345
	1/4	3120	10.0		3345
7.0		3120		13/32	3345
	9/32	3120	11.0		3345
	5/16	2906		7/16	3345
8.0		2906		15/32	3685
	11/32	2906	12.0		3685
9.0		2906		1/2	3685

M.O.Q. - For all sizes - 20 Nos. each

CARBIDE TIPPED TAPER SHANK CHUCKING REAMERS

**IS : 10885 - 1984
GRADE OF TIP ISO K - 10**

SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)
mm	Inch		mm	Inch		mm	Inch	
6.0		3120	15.0		3868			6275
	1/4	3120		19/32	4388	24.0		6275
7.0		3120		5/8	4388			6275
	9/32	3120	16.0		4388	25.0		6275
	5/16	2906		21/32	4388		1	6275
8.0		2906	17.0		4388	26.0		6275
	11/32	2906		11/16	4388			6393
9.0		2906	18.0		4388	27.0		6393
	3/8	3345		23/32	4388			6393
10.0		3345	19.0		4388	28.0		6393
	13/32	3345		3/4	4388			6393
11.0		3345		25/32	4388	29.0		6393
	7/16	3345	20.0		4388			6446
	15/32	3685		13/16	4388	30.0		6446
12.0		3685	21.0		4883			6446
	1/2	3685		27/32	4883			6446
13.0		3685	22.0		4883	31.0		6446
	17/32	3868		7/8	4883			6446
14.0		3868	23.0		4883	32.0		6446
	9/16	3868		29/32	4951			6446

**M.O.Q. : For sizes : Upto 13 mm - 20 Nos. each
Above 14 mm - 10 Nos. each
(Except 8, 10, 16 mm, 1/2", 17/32" & 9/16")**

**CARBIDE TIPPED SHELL REAMERS
(BRAZED TYPE)**

**IS : 11934 – 1987
GRADE OF TIP ISO K – 10**

SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)
mm	Inch		mm	Inch		mm	Inch	
19.0		5308		1.1/4	8065	43.0		9920
	3/4	5308	32.0		8065	44.0		9920
	13/16	5799	33.0		8065		1.3/4	9920
21.0		5799		1.5/16	8088		1-13/16	9920
22.0		5799		1.3/8	8445	47.0		10318
	7/8	5799	35.0		8445		1.7/8	10318
	15/16	5836	36.0		8445	48.0		10318
24.0		5836		1.7/16	8445	49.0		10318
25.0		6783	38.0		8516		1-15/16	10318
	1	6783		1.1/2	8516	50.0		10318
	1.1/16	6820	39.0		8516		2	10318
27.0		6820		1.9/16	8516			
	1.1/8	8065	41.0		9920			
29.0		8065		1.5/8	9920			
30.0		8065	42.0		9920			
1.3/16	8065			1.11/16	9920			

M.O.Q. – For all sizes – 3 Nos. each

**CARBIDE TIPPED STRAIGHT SHANK END MILLS
(BRAZED TYPE)**

**IS : 9323 – 1991
GRADE OF TIP ISO K – 20**

SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)
mm	Inch		mm	Inch		mm	Inch	
	5/16	2317	12.0		2471		3/4	3047
8.0		2317		1/2	2471	20.0		3047
	3/8	2323		5/8	2613			
10.0		2323	16.0		2613			

**M.O.Q. For sizes: Upto 12 mm (1/2") – 25 Nos. each
16 mm (5/8") & above – 20 Nos. each**

**We can manufacture and supply Solid Carbide Parallel Shank End Mills. 3 mm to 7 mm (3/16" to 9/32").
For Price and M.O.Q. refer Solid Carbide Price List No. SC 38.**

CARBIDE TIPPED TAPER SHANK END MILLS

**IS : 9324 – 1991
GRADE OF TIP ISO K – 20**

SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)
mm	Inch		mm	Inch		mm	Inch	
12.0		3047		3/4	3553		1-1/4	5836
	1/2	3047	20.0		3553	32.0		5836
	5/8	3173	25.0		3623		1-1/2	7057
16.0		3173		1	3623	40.0		7057

**M.O.Q. For sizes: 12 mm (1/2") – 25 Nos. each
16 mm (5/8") to 25 mm (1") – 20 Nos. each
32 mm (1-1/4") & above – 15 Nos. each**

**CARBIDE TIPPED STRAIGHT SHANK SLOT DRILLS
(BRAZED TYPE)**

IS : 9325 – 1979
GRADE OF TIP ISO K – 20

SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)
mm	Inch		mm	Inch		mm	Inch	
8.0	5/16	1949	12.0	1/2	2160	16.0	11/16	2995
	3/8	2006	14.0		2516	18.0		3030
10.0	7/16	2006	5/8	9/16	2516	3/4	3076	
		2160		5/8	2995		20.0	3076

Tip dimensions will be based on DIN. Type A will be supplied as Standard.

M.O.Q. For sizes: 8 mm (5/16") to 10 mm (3/8") – 70 Nos. each
12 mm (7/16") to 14 mm (9/16") – 100 Nos. each
16 mm (5/8") & above – 60 Nos. each

We can manufacture and supply Solid Carbide Parallel Shank Slot Drills. 2 mm to 7 mm (3/16" to 9/32").
For Price and M.O.Q. refer Solid Carbide Price List No. SC 38.

**CARBIDE TIPPED TAPER SHANK SLOT MILLING CUTTERS
(WITH TAPPED END)**

IS : 9326 – 1979
GRADE OF TIP : ISO K – 20

SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)
mm	Inch		mm	Inch		mm	Inch	
12.0	1/2	3330	18.0	11/16	4230	25.0	1	4510
14.0		3666		3/4	4287	28.0		4546
16.0	9/16	3666	20.0	7/8	4287	1-1/8	1-1/4	4546
	5/8	4197	22.0		4510	32.0		4546
		4197			4510			4546

M.O.Q. For sizes: Upto 14 mm (9/16") – 100 Nos. each; 22 mm (7/8") To 25 mm (1") – 20 Nos. each
16 mm (5/8") – 70 Nos. each; 28 mm (1-1/8") & above – 15 Nos. each
18 mm (11/16") to 20 mm (3/4") – 50 Nos. each

**CARBIDE TIPPED SIDE & FACE CUTTERS
(BRAZED TYPE)**

DIN : 8047 – 1956
GRADE OF TIP : ISO K – 20

SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)
Dia X Width mm	Dia X Width Inch		Dia X Width mm	Dia X Width Inch	
80 X 6.0	3 X 1/4	7605	100 X 12	4 X 1/2	9553
80 X 8.0	3 X 5/16	7875	100 X 16	4 X 5/8	10295
80 X 10	3 X 3/8	8073	125 X 12	5 X 1/2	10740
100 X 8.0	4 X 5/16	8790	125 X 14	5 X 9/16	11583
100 X 10	4 X 3/8	9080	125 X 16	5 X 5/8	11950

**CARBIDE TIPPED SHELL END MILLS
(BRAZED TYPE)**

DIN : 8056 – 1980
GRADE OF TIP : ISO K – 20

SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)
Dia X Width mm	Dia X Width Inch		Dia X Width mm	Dia X Width Inch	
	1-1/2	3002		3	6205
40.0	2	3002	80.0	4	6205
50.0		3100	100		9577
	2-1/2	3100		5	8577
63.0		4601	125		12361
		4601			12361

M.O.Q. For sizes: Upto 50 mm (2") – 6 Nos. each; 63 mm (2-1/2") & above – 3 Nos. each

**CARBIDE TIPPED FACE MILL CUTTERS
(BRAZED TYPE)**

TO OUR STANDARD
GRADE OF TIP : ISO K – 20

SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)
Dia X Width mm	Dia X Width Inch		Dia X Width mm	Dia X Width Inch	
63.0	2-1/2	4510	80	4	6051
		4510	100		9339
	3	6051			9339

M.O.Q. – For all sizes – 3 Nos. each

CARBIDE TIPPED TAPER SHANK DRILLS WITH ISO/K20 GRADE OF TIP

TO ADDISON STANDARD

SIZE						
Dia (mm)	Dia (Inch)	FL (mm)	OAL (mm)	MT No.	MOQ Nos.	Price Each (Rs.)
3		20	110	1	25	1594
	1/8	25	115	1	25	1594
3.5	9/64	25	115	1	25	1594
4	5/32	25	115	1	25	1594
4.5	11/64	28	118	1	25	1594
5	3/16	28	118	1	25	1594
5.5	13/64	32	122	1	25	1594
	7/32	32	122	1	25	1594
6	15/64	32	122	1	25	1594
	1/4	32	122	1	25	1594
6.5		32	122	1	25	1594
	17/64	40	130	1	25	1594
	9/32	40	130	1	25	1594
7.5	19/64	40	130	1	25	1594
8	5/16	40	130	1	25	1594
8.5	21/64	50	140	1	25	1594
9	11/32	50	140	1	25	1594
	23/64	50	140	1	25	1594
9.5	3/8	50	140	1	25	1594
	25/64	50	140	1	25	1594
31	1.7/32	125	275	4	15	7748
32	1.1/4	125	275	4	15	8079
33		125	275	4	15	8445
34	1.5/16	125	275	4	15	8739
35	1.3/8	125	275	4	15	8988
36		125	275	4	15	9284
37	1.7/16	125	275	4	15	8947
38	1.1/2	125	275	4	15	9870
39		125	275	4	10	10055
40	1.9/16	125	275	4	10	10263
41		125	275	4	10	10495
42	1.5/8	125	275	4	10	10792
43	1.11/16	125	275	4	10	11092
44		125	275	4	10	11381
45	1.3/4	125	275	4	10	11665
46	1.13/16	125	275	4	10	12016
47		125	275	4	10	12016
48	1.7/8	125	275	4	10	12193
49	1.15/16	125	275	4	10	12406
50		125	275	4	10	12611
	2	125	275	4	10	12831



MC 42 WEF 101114

Notes

A large rectangular area with a solid black border, containing numerous horizontal dotted lines for writing notes.



MC 42 WEF 101114

Notes

A large rectangular area with a solid black border, containing numerous horizontal dotted lines for writing notes.



MC 42 WEF 101114

Notes

A large rectangular area with a solid black border, containing numerous horizontal dotted lines for writing notes.