



World Leaders in
Tools Manufacturing

CARMET TOOLS & INSERTS Ltd.



www.carmettools.com

H S S TOOLS

High speed tools in HSS grade M2, M35, M42, T42, ASP 30, ASP 60, ASP 90

HSS tools are supplied standard and specials with modified steps, profiles and specials as per customer drawings

with coating like TiN, TiAlN, TiCN, and Special coatings

We also offer regrinding and reground services of all tools any make

All HSS tools are also offered in through fed coolant design













HSS PS Jobber Drills

HSS PS Stub Drills

HSS TS Drills

HSS PS Long Series Drills

HSS PS Extra Long Series Drills

HSS TS Long Series Drills

HSS TS Extra Long Series Drills

HSS TS Core Drills

HSS Shell Core Drills.

HSS Center Drills – Type "A", Type "B", Type "R"

HSS Sub – Land Drills

Parallel Hand Reamers

Long Fluted Machine Reamers

Long Fluted Machine Reamers

Parallel Machine Reamers

Parallel Machine Reamers

Machine Chucking Reamers

with Parallel Shank

with Taper Shank

Shell Reamers

Shell Reamers

Socket Reamers

with Parallel Shank
with Taper Shank

Taper Pin Reamers

Hand Reamers
Machine Reamers

Machine Bridge Reamers

Machine Bridge Reamers

Hole Mills

Unguided Type A
Guided Type B

Taper Pipe Reamer

Taper Pipe Reamer

High Performance Reamers

Slot Milling Cutters

Parallel Shank
Taper Shank

End Mills

Parallel Shank
Taper Shank

Screwed Shank End Mills

Slot Drills
Endmills

T-Slot Cutters

Parallel Shank
Taper Shank

Dove-Tail Milling Cutters

Dove-Tail Milling Cutters

Woodruff key slot Milling Cutter

with Parallel Shank

Countersink 90°

with Parallel Shank and Solid Pilot
with MT Shank and Detachable Pilot

Counterbores

with Parallel Shank & Solid Pilots
Taper Shank and Detachable Pilot

Countersinks with included angle 60°,90°&120°

with Parallel Shank
Taper Shank

Ball Nose End Mill

Ball Nose End Mill

Roughing End Mill

Cylindrical Milling Cutters, Side and Face Cutters, Shell End Mills, Single Angle Cutter, Double Angle Cutters, Equal Angle Cutters, Face Cutters, Slot Milling Cutters, Key Way Milling Cutters, Hollow Mills, Concave / Convex Milling Cutters, Single Corner / Double Corner Rounding Cutters etc.

Hand and Short Machine Taps, Long Shank Machine Taps, Nut Taps, Pipe Taps, BSW, BSF, UNC, UNF, NPSF, NPS, NPT, NPTF, NGT and Special Taps Size Range:- 2mm to 100mm.1/8" to 4"

Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

ALSO SOLID CARBIDE AND CARBIDE TIPPED, INDEXBLE INSERTED DESIGN WITH HSS INSERTS/CARBIDE INSERTS

JOBBER SERIES HSS PARALLEL SHANK TWIST DRILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size		WG/LG	Price per 10 Nos. Rs.	Size		WG/LG	Price per 10 Nos. Rs.	Size		WG/LG	Price per 10 Nos. Rs.
mm	Inch			mm	Inch			mm	Inch		
1.0			363	(2.87)		33	420	(5.06)		8	1295
(1.02)		60	363	2.90			420	5.10			1295
(1.04)		59	363	(2.95)		32	420	(5.11)		7	1295
(1.07)		58	363	3.00			420	(5.16)	13/64		1295
(1.09)		57	363	(3.05)		31	504	(5.18)		6	1295
1.10			362	3.10			504	5.20			1295
(1.18)		56	362	(3.17)	1/8		504	(5.22)		5	1400
(1.19)	3/64		362	3.20			522	5.30			1400
1.20			362	(3.26)		30	522	(5.31)		4	1400
1.30			362	3.30			522	5.40			1400
(1.32)		55	363	3.40			522	(5.41)		3	1400
1.40		54	363	(3.45)		29	522	5.50			1400
1.50			363	3.50			522	(5.56)	7/32		1400
(1.51)		53	363	(3.57)		28	522	5.60			1400
(1.59)	1/16		363	(3.57)	9/64		522	(5.61)		2	1578
1.60			363	3.60			747	5.70			1578
(1.61)		52	390	(3.66)		27	747	(5.79)		1	1578
1.70			390	3.70			747	5.80			1578
(1.70)		51	390	(3.73)		26	747	5.90			1578
(1.78)		50	390	(3.80)		25	747	(5.94)		A	1578
1.80			390	3.80			747	(5.95)	15/64		1578
(1.85)		49	390	(3.86)		24	747	6.00			1578
1.90			390	3.90			747	(6.04)		B	1721
(1.93)		48	390	(3.91)		23	747	6.10			1721
(1.98)	5/64		390	(3.97)	5/32		747	(6.15)		C	1721
(1.99)		47	390	(3.99)		22	747	6.20			1721
2.00			390	4.00			747	(6.25)		D	1721
(2.06)		46	390	(4.04)		21	910	6.30			1721
(2.08)		45	390	(4.09)		20	910	(6.35)	1/4	E	1721
2.10			390	4.10			910	6.40			1721
(2.18)		44	390	4.20			910	6.50			2203
2.20			390	(4.22)		19	910	(6.53)		F	2203
(2.26)		43	390	4.30			910	6.60			2203
2.30			390	(4.30)		18	910	(6.63)		G	2203
(2.37)		42	390	(4.37)	11/64		910	6.70			2203
(2.38)	3/32		390	(4.39)		17	910	(6.75)	17/64		2203
2.40			390	4.40			910	(6.75)		H	2203
(2.44)		41	390	(4.50)		16	1200	6.80			2203
(2.49)		40	390	4.50			1200	6.90			2415
2.50			390	(4.57)	11/64	15	1200	(6.90)		I	2415

(2.53)		39	390	4.60			1200	7.00			2415
(2.58)		38	390	(4.62)		14	1200	(7.03)		J	2415
2.60			390	4.70		13	1200	7.10			2415
(2.64)		37	390	(4.76)	3/16		1200	(7.14)		K	2415
2.70			390	4.80		12	1200	(7.14)	9/32		2415
(2.71)		36	390	(4.85)		11	1305	7.20			2415
(2.78)	7/64		390	4.90			1305	7.30			2551
2.79)		35	430	(4.92)		10	1305	(7.37)		L	2551
2.80			430	(4.98)		9	1305	(7.40)			2551
(2.82)		34	430	5.00			1305	(7.49)		M	2551

7.50			2571	10.20			5162	13.70		11055	
(7.54)	19/64		2784	(10.26)		Y	5596	13.80		11055	
7.60			2784	10.30			5596	(13.89)	35/64	11999	
(7.67)		N	2784	(10.32)	13/32		5596	13.90		11999	
7.70			2784	10.40			5596	14.00		11999	
7.80			2784	(10.49)		Z	5596	14.25		11999	
7.90			2784	10.50			5596	(14.29)	9/16	12590	
(7.94)	5/16		3057	10.60			5596	14.50		12590	
8.00			3057	1070			5926	(14.68)	37/64	13569	
(8.03)		O	3057	(10.72)	27/64		5926	14.75		13569	
8.10			3057	10.80			5926	15.00		13569	
8.20		P	3057	1090			5926	(15.08)	19.32	13569	
8.20			3057	11.00			5926	15.25		13569	
8.30			3707	11.10			5926	(15.48)	39.64	14704	
(8.33)	21/64		3707	(11.11)	7/16		6617	15.50		14704	
8.40			3707	11.20			6617	15.75		14704	
8.43		O	3707	11.30			6617	(15.87)	5/8	14704	
8.50			3707	11.40			6617	16.00		14704	
8.60			3707	11.50			6980	16.50		15185	
8.61		R	3707	(11.51)	29/64		6980	(16.67)	21/32	12485	
8.70			3707	11.60			6980	17.00		15555	
(8.73)	11/32		3905	11.70			6980	(17.46)	11/16	15555	
8.80			3905	11.80			6980	17.50		16525	
8.84		S	3905	11.90			6980	18.00		16834	
8.90			3905	(11.91)	15/32		7456	(18.26)	23/32	16834	
9.00			3905	12.00			7456	18.50		19630	
9.09		T	4074	12.10			7456	19.00		17607	
9.10			4074	12.20			7456	(19.05)	$\frac{3}{4}$	17807	
(9.13)	23/64		4074	12.30			7910	19.50		20037	
9.20			4074	(12.30)	31/64		7910	(19.84)	25/32	20037	
9.30			4074	12.40			7910	20.00		21278	
9.34		U	4074	12.50			7910	(20.64)	13/16	21278	
9.40			4074	12.60			7910	(21.43)	27/32	22638	
9.50			4074	(12.70)	$\frac{1}{2}$		8353	(22.22)	7/8	22638	

(9.52)	3/8		4620	12.80			8353				
9.58		V	4620	12.90			8353				
9.60			4620	13.00			8353				
9.70			4620	(13.10)	33/64		10394				
9.80			4620	13.10			10394				
9.80		W	4620	13.20			10394				
9.90			5172	13.30			10394				
(9.92)	25/64		5172	13.40			10394				
10.00			5172	(13.49)	17/32		11065				
(10.08)		X	5172	13.50			11065				
10.10			5172	13.60			11065				

STUB SERIES HSS PARALLEL SHANK TWIST DRILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size		Price Per 10 Nos.Rs.	Size		Price Per 20 Nos.Rs.	Size		Price Per 30 Nos Rs.
mm	Inch		mm	Inch		mm	Inch	
3.00		430	(10.72)	27/64	5720	19.75		13990
(3.17)	1/8	500	10.80		5720	(1984)	25/32	13990
3.20		525	11.00		5720	20.00		14230
3.50		525	(11.11)	7/16	5959	20.25		14526
(3.57)	9/64	525	11.20		5959	20.50		14526
3.80		730	11.50		6375	(20.64)	13/16	14526
(3.97)	5/32	730	11.51	29/64	6375	20.75		15110
4.00		730	11.80		6375	21.00		15110
4.20		820	11.91	15/32	6747	21.25		15293
(4.37)	11/64	820	12.00		6747	(21.43)	27/32	15293
4.50		1080	12.20		6747	21.50		15809
(4.76)	3/16	1080	12.3	31/64	7334	21.75		16015
4.80		1080	12.50		7334	22.00		16015
5.00		1150	12.70	1/2	7492	(22.22)	7/8	16015
5.16	13/64	1150	12.80		7492	22.25		17035
5.20		1150	13.00		7492	22.50		17035
5.50		1250	13.20		8775	22.75		17272
5.56	7/32	1250	13.49	17/32	8776	23.00		17272
5.80		1400	13.50		9354	(23.02)	29/32	17272
5.95	15/64	1400	13.80		9354	23.25		18265
6.00		1400	14.00		10187	23.50		18265

6.20		1577	14.25		10187	23.75		18265
6.36	1/4	1677	14.20	0/16	10187	(23.81)	15/16	18265
6.50		1940	14.50		10610	24.00		20217
6.75	17/64	1940	14.75		11474	23.25		20217
6.80		1940	15.00		11474	24.50		20217
7.00		2130	15.08	19/32	11474	(24.61)	31/32	20217
7.14	9/32	2130	15.25		11474	24.75		22179
7.20		2130	15.50		12422	25.00		22179
7.50		2210	15.75		12422	25.25		22288
7.54	19/64	2430	15.87	5/8	12422	(25.40)	1	22288
7.80		2430	16.00		12422	25.25		25158
7.94	5/1	3680	16.25		12621	26.00		25158
8.00		2680	16.50		12621	(26.19)	1.1/32	25739
8.20		2680	16.67	21/32	12621	26.50		25739
8.33	21/64	3350	16.75		12876	(26.99)	1.1/16	26038
8.50		3350	17.00		12876	27.00		27440
8.73	11/32	3500	17.25		13110	27.50		27440
8.80		3500	17.46	11/16	13110	(27.78)	1.3/32	29042
9.00		3500	17.50		13110	28.00		29042
9.13	23/64	3690	17.75		13289	28.50		29263
9.20		3690	18.00		13289	(28.57)	1.1/8	29263
9.50		3690	18.25		13525	29.00		30709
9.52	3/8	3860	10.26	23/32	13525	(29.37)	1.5/32	33009
9.80		3860	18.50		13525	29.50		33809
9.92	25/64	4720	18.75		13766	30.00		34261
10.00		4720	19.00		13766	(30.16)	1.3/16	34261
10.20		4720	19.05	3/4	13766	30.50		38558
10.32	13/32	5080	19.25		14000	(30.96)	1.7/32	38558
10.50		5080	19.50		14000	31.00		38558

31.50		39158	34.50		47617	37.50		57934
(31.75)	1.1/4	39157	(34.92)	1.3/8	47617	38.00		57934
32.00		40001	35.00		52360	(38.10)	1.1/2	57934
32.50		41254	35.50		53107	38.50		64694
(32.54)	1.9/32	41254	(35.72)	1.13/32	53107	39.00		64694
33.00		41254	36.00		53107	39.50		65809
(33.34)	1.5/16	41254	36.50		53107	40.00		65809
33.50		43396	(36.51)	1.7/16	53107			
34.00		43396	37.00		57089			
(34.13)	1.11/32	47627	(37.31)	1.15/32	5774			

LONG SERIES HSS PARALLEL SHANK TWIST DRILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size		Price Per 10 Nos.Rs.	Size		Price Per 20 Nos.Rs.	Size		Price Per 30 Nos Rs.
mm	Inch		mm	Inch		mm	Inch	
1.00		225	3.00		281	6.80		804
1.10		225	(3.17)	1/8	281	7.00		804
(1.19)	3/64	225	3.20		281	(7.14)	9/32	804
1.20		225	3.50		281	7.20		804
1.30		225	(3.57)	9/64	281	7.50		804
1.40		225	3.80		300	(7.54)	19/64	804
1.50		225	(3.97)	5/32	300	7.80		804
(1.59)	1/16	225	4.00		300	(7.94)	5/16	830
1.60		225	4.20		300	8.00		830
1.70		225	(4.37)	11/64	300	8.20		830
1.80		225	4.50		300	(8.33)	21/64	830
1.90		225	(4.75)	3/16	300	8.50		837
(1.98)	5/64	225	4.80		300	(8.73)	11/32	880
2.00		225	5.00		360	8.80		1071
2.10		225	(5.16)	13/64	360	9.00		927
2.20		225	5.20		360	(9.13)	23/64	1052
2.30		288	5.50		418	9.20		1071
(2.38)	3/32	288	(5.56)	7/32	418	9.50		927
2.40		285	5.80		457	(9.52)	3/8	927
2.50		288	(5.95)	15/64	457	9.80		1077
2.60		288	6.00		457	(9.92)	25/64	1077
2.70		288	6.20		520	10.00		972
(2.78)	7/64	288	(6.35)	1/4	475	10.20		1077
2.80		288	6.50		670	(10.32)	13/32	972
2.90		288	(6.75)	17/64	810	10.50		1172

(1072)	27/64	1356	15.5		2219	20.5		3038
108		1356	15.75		2219	(20.64)	13/16	3038
11.0		1248	(15.87)	5/8	2219	20.75		3128
(11.11)	7/16	1248	16.0		2255	21.0		3128
11.2		1452	16.25		2255	(21.03)	53/64	3426
11.5		1284	(16.27)	41/64	2510	21.25		3227
(11.51)	29/64	1452	16.5		2297	(21.43)	27/32	3227
11.8		1452	(16.67)	21/32	2297	21.5		3426
(11.91)	15/32	1284	16.75		2353	21.75		3426
12.0		1323	17.0		2353	(21.83)	55/64	3665
12.2		1477	17.07)	43/64	2559	22.0		3426
(12.30)	31/64	1477	17.25		2353	(22.22)	7/8	3426
12.5		1323	(17.46)	11/16	2353	22.25		3711
(12.70)	1/2	1323	17.5		2510	22.5		3711
12.8		2032	17.75		2510	(22.62)	57/64	3966
13.0		1841	(17.86)	45/64	2778	22.75		3796

(13.10)	33/64	2047	18.0		2559	23.0		3796
13.2		2047	18.25		2559	(23.02)	29/32	3796
(13.49)	17/32	1877	(18.25)	23/32	2559	23.25		3847
13.5		2047	18.5		2666	(23.42)	59/64	4539
13.8		2229	(18.65)	47/64	2688	23.5		4214
(13.89)	35/64	2229	18.75		2715	23.75		4214
14.0		2047	19.0		2715	(23.81)	15/16	4214
14.25		2047	(19.05)	3/4	2715	24.0		4394
(14.29)	9/16	2047	19.25		2871	(24.21)	61/64	4799
14.5		2146	(19.45)	49/64	3138	24.25		4394
(14.68)	37/64	2363	19.5		2871	24.5		4394
14.75		2146	19.75		2871	(24.61)	31/32	4394
15.0		2146	(19.84)	25/32	2874	24.75		4713
(15.08)	19/32	2146	20.0		3048	25.0	63/64	4713
15.25		2229	(20.24)	51/64	3237	(25.40)	1	4775
(15.48)	39/64	2436	20.25		3048			

HSS TAPER SHANK TWIST DRILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size		Price Per 10 Nos.Rs.	Size		Price Per 20 Nos.Rs.	Size		Price Per 30 Nos Rs.
mm	Inch		mm	Inch		mm	Inch	
3.00		360	(10.72)	27/64	1094	(18.26)	23/32	2458
(3.17)	1/8	360	10.80		1094	18.50		2458
3.20		377	11.00		1094	(18.65)	48/64	2488
3.50		360	(11.11)	7/16	1094	18.75		2488
(3.57)	9/64	377	11.20		1131	19.00		2488
3.80		377	11.50		1131	(19.05)	3/4	2488
(3.97)	5/32	360	(11.51)	29/64	1131	19.25		2615
4.00		360	11.80		1131	(19.45)	49/64	2615
4.20		488	(11.91)	15/32	1143	19.50		2615
(4.37)	11/64	188	12.00		1143	19.75		2615
4.50		488	12.20		1143	(19.84)	25/32	2615
(4.76)	3/16	488	(12.30)	31/64	1143	20.00		2814
4.80		502	12.50		1143	(20.24)	51/64	2848
5.00		488	(12.70)	1/2	1143	20.25		2848
(5.18)	13/64	502	12.80		1596	20.50		2848
5.20		502	13.00		1596	(20.64)	13/16	2848
5.50		488	(13.10)	33/64	1667	20.75		2972
(5.56)	7/32	488	13.20		1667	21.00		2972
5.80		502	(13.49)	19/32	1667	(21.03)	53/64	3047

(5.95)	15/64	502	13.50		1787	21.25		3047
6.00		488	13.80		1787	(21.43)	27/32	3047
6.20		564	(13.89)	35/64	1787	21.50		3142
(6.35)	1/4	558	14.00		1787	21.75		3142
6.50		609	14.25		1921	(21.83)	55/64	2300
(6.75)	17/64	617	(14.29)	9/16	1921	22.00		3200
6.80		617	14.50		1998	(22.22)	7/8	3200
7.00		609	(14.68)	37/64	1998	22.25		3490
(7.14)	9/32	609	14.75		1998	22.50		3490
7.20		617	15.00		1998	(22.62)	57/64	3558
7.50		609	(15.08)	19/32	1998	22.75		3558
(7.54)	19/64	617	15.25		2026	23.00		3558
7.80		617	(15.48)	39/64	2026	(23.02)	29/32	3734
(7.94)	5/16	609	15.50		2026	23.25		4137
8.00		609	15.75		2026	(23.42)	59/64	4142
8.20		746	(15.87)	5/8	2026	23.50		4242
(8.33)	21/64	786	16.00		2087	23.75		4242
8.50		680	16.25		2087	(23.81)	15/16	4242
(8.73)	11/32	746	(16.27)	41/64	2087	24.00		4368
8.80		821	16.50		2218	(24.21)	61/64	4442
9.00		746	(16.67)	21/32	2218	24.25		4442
(9.13)	23/64	821	16.75		2218	24.50		4442
9.20		821	17.00		2318	(24.61)	31/32	4442
9.50		746	(17.07)	43/64	2255	24.75		4643
(9.52)	3/8	746	17.25		2255	25.00		4643
9.80		882	(17.46)	11/16	2255	(25.00)	63/64	4643
(9.92)	25/64	882	17.5		2341	25.25		4705
10.00		797	17.75		2375	(25.40)	1	4705
10.20		897	(17.86)	45/64	2468	25.50		5117
(10.32)	13/32	866	18.00		2468	24.75		5117
10.50		1065	18.25		2468	(25.80)	1.1/64	5173

26.00		5193	34.50		12052	45.50		21433
(26.19)	1.1/32	5193	(34.53)	1.23/64	12163	(45.64)	1.51/64	21433
26.25		5564	(34.92)	1.3/8	12162	46.00		21433
26.50		5564	35.00		12163	(46.04)	1.13/16	21433
(26.59)	1.3/64	5693	(35.32)	1.25/64	12892	(46.43)	1.53/64	22516
26.75		5693	35.50		12892	46.50		22516
(26.99)	1.1/16	5693	(35.72)	1.13/32	12892	(46.83)	1.27/32	22516
27.00		5879	36.00		13082	47.00		22516
27.25		5879	(36.12)	1.27/64	13351	(47.23)	1.55/64	22986
(27.39)	1.5/64	5899	36.50		13351	47.50		22986
27.50		5899	(36.51)	1.7/16	13351	(47.62)	1.7/8	22986
27.75		5899	(36.91)	1.29/64	13351	48.00		25068
(27.78)	1.3/32	5899	37.00		13681	(48.02)	1.57/64	25068
28.00		6450	(37.31)	1.15/32	13681	(48.42)	1.29/32	25068
(28.18)	1.7/64	6469	37.50		14571	48.50		25253

28.25		6469	(37.70)	1.31/64	14800	(48.82)	1.59/64	25253
28.50		6469	38.00		14800	49.00		25253
(28.57)	1.1/8	6469	(38.10)	1.1/2	14800	(49.21)	1.15/16	25253
28.75		6665	(38.50)	1.33/64	15262	49.50		25524
(28.97)	1.9/64	6774	38.50		15262	(49.61)	1.61/64	25524
29.00		6774	(38.89)	1.17/32	15262	50.00		25524
29.25		6774	39.00		16164	(50.01)	1.31/32	25726
(29.37)	1.5/32	6774	(39.29)	1.35/64	16164	(50.40)	1.63/64	26883
29.50		6800	39.50		16164	50.50		26883
29.75		6800	(39.69)	1.9/16	16164	(50.80)	2	26883
(29.77)	1.11/64	6942	40.00		16581	51.00		36510
30.00		6942	(40.08)	1.37/64	16854	51.50		36510
(30.16)	1.3/16	7332	(40.48)	1.19/32	16854	(51.59)	2.1/32	36510
30.25		7896	40.50		17529	52.00		36510
30.50		7896	(40.88)	1.39/64	17529	(52.39)	2.1/16	36510
(30.56)	1.13/64	8023	41.00		17529	52.50		47526
30.75		8023	(41.27)	1.5/8	17529	53.00		47526
(30.96)	1.7/32	8023	41.50		18218	(53.18)	2.3/32	47526
31.00		8930	(41.67)	1.41/64	18218	53.50		47526
31.25		8930	42.00		18218	(53.97)	2.1/8	47526
(31.35)	1.16/64	9320	(42.07)	1.21/32	18218	54.00		47526
31.50		9320	(42.47)	1.43/64	18684	54.50		49927
(31.75)	1.1/4	9320	42.50		18684	(54.77)	2.5/32	49927
31.75		9320	(42.86)	1.11/16	18913	55.00		49927
32.00		10205	43.00		19358	55.50		49927
(32.15)	1.17/64	10205	(43.26)	1.45/64	19358	(55.56)	2.3/16	49927
32.50		10205	43.50		19358	56.00		52027
(32.54)	1.9/32	10205	(43.66)	1.23/32	19358	(56.63)	2.7/32	5177
(32.94)	1.19/64	10450	44.00		20043	56.50		52027
33.00		10450	(44.05)	1.47/64	20043	57.00		52027
(33.34)	1.5/16	10450	(44.45)	1.3/4	20043	(57.15)	2.1/4	52027
33.50		10809	44.50		20043	57.50		56781
(33.75)	1.21/64	11012	(44.85)	1.49/64	20513	(57.94)	2.9/32	56781
34.00		11012	45.00		20513	58.00		56781
(34.13)	1.11/32	11480	(45.24)	1.25/32	20513	58.50		56781

(58.74)	2.5/16	56801	(71.44)	2.13/16	89547	87.00		182986
59.00		57886	71.50		89547	(87.31)	3.7/16	186813
59.50		57886	72.00		91278	88.00		186813
(59.53)	2.114/32	57886	(72.23)	2.27/32	91278	(88.11)	3.15/32	186813
60.00		57886	72.50		91278	(88.90)	3.1/2	186813
(60.32)	2.3/8	57886	73.00		91278	89.00		186813
60.50		61530	(73.02)	2.7/8	91278	90.00		190623
61.00		61530	73.50		96128	(90.49)	3.9/16	197734

(61.12)	2.13/32	61530	(73.82)	2.29/32	97145	91.00		197734
61.50		61530	74.00		97145	92.00		197736
(61.91)	2.7/16	61530	74.50		97145	(92.07)	3.5/8	204191
62.00		61530	(74.61)	2.15/16	97145	93.00		204191
62.50		61530	75.00		98354	(93.66)	3.11/16	211915
(62.71)	2.15/32	62566	(75.41)	2.31/32	96354	94.00		211915
63.00		62566	75.50		98354	95.00		211915
(62.50)	2.1/2	62566	76.00		98354	(95.25)	3.3/4	211915
64.00	2.17/32	69151	(76.20)	3	98354	96.00		219011
(64.29)		69666	(76.99)	3.1/32	134560	(96.84)	3.13/16	219011
64.50		69151	77.00		134560	97.00		219011
65.00		69151	(77.79)	3.1/16	134560	98.00		222885
(65.09)	2.9/16	69151	78.00		134560	(98.42)	3.7/8	226067
65.50		69666	(78.58)	3.3/32	137244	99.00		226067
(65.88)	2.19/32	69666	79.00		137244	100.00		226067
66.00		69666	(79.37)	3.1/8	140888	(100.01)	3.15/16	229940
66.50		69666	80.00		140888	101.00		229040
(66.67)	2.5/8	69666	(80.17)	3.5/32	150693	(101.60)	4	229940
67.00		71365	(80.96)	3.3/16	150693	102.00		229940
(67.47)	2.21/32	76607	81.00		150693			-----
67.50		76607	(81.76)	3.7/32	154611			
68.00		76607	82.00		154611			
(68.26)	2.11/16	76607	(82.55)	3.1/4	154611			
68.50		82184	83.00		157805			
69.00		83037	(83.34)	3.9/32	157805			
(69.05)	2.23/32	83037	84.00		157805			
69.50		83037	(84.14)	3.5/16	160429			
(69.85)	2.3/4	836037	(84.93)	3.11/32	160429			
70.00		83037	85.00		160429			
70.50		8793	(85.72)	3.3/8	182996			
(70.64)	2.25/32	89557	86.00		182996			
71.00		89557	(86.52)	3.13/32	182995			

EXTRA LONG HSS PARALLEL SHANK TWIST DRILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size <small>(61.12) 61.50</small>		Price Each Rs.						
		Overall Length in millimeter						
MM	Inch	150	175	200	225	250	300	350
3	1/8	857	1041	1170	1388	1633	2040	-
3.5		834	963	1235	1532	1842	2353	-
4	5/32	834	963	1235	1532	1842	2353	3258
4.5		855	1041	1235	1532	1842	2425	3258
5	3/16	855	1084	1340	1642	1937	2573	3422
5.5	7/32	936	1160	1435	1753	2065	2738	3570
6		936	1212	1477	1785	2139	2806	3707
6.5	1/4	-	-	1512	-	2180	2942	3707
7		-	-	1681	-	2403	3333	4171
7.5	9/32	-	-	1713	-	2556	3396	4171
8	5/16	-	-	1798	-	2666	3480	4270
8.5	11/32	-	-	1857	-	2722	3546	4565
9		-	-	1857	-	2722	3546	4565
9.5	3/8	-	-	1957	-	2739	3624	4714
10		-	-	2039	-	2817	3789	4929
10.5	13/32	-	-	2109	-	3011	3933	5187
11		-	-	-	-	3118	4055	5354
11.5	7/16	-	-	-	-	3118	4055	5354
12	15/32	-	-	-	-	3275	4304	5496
12.5	1/2	-	-	-	-	3378	4445	5865

EXTRA LONG HSS PARALLEL SHANK TWIST DRILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size mm Inch	OAL mm	Price Each Rs	Size		OAL mm	Price Each Rs.	Size		OAL mm	Price Each Rs.
			mm	Inch			mm	Price		
5	(3/16)	155	1126	10	197	2111	15		245	4189
5.2		155	1126	10.2	197	2171	15.25		251	4287
5.5	(7/32)	161	1255	10.5	197	2171	15.5		251	4287
5.8		161	1255	10.8	206	2219	15.75		251	4396
6		161	1255	11	206	2219	16	(5/8)	251	4396

6.2		167	1399	11.2		206	2302	16.25		257	4475
6.5	(1/4)	167	1399	11.5	(7/16)	206	2302	16.5		257	4475
6.8		174	1509	11.8		206	2302	16.75		257	4570
7		174	1509	12		215	2733	17		257	4570
7.2		174	1559	12.2		215	2882	17.25		263	4855
7.5		174	1559	12.5	(1/2)	215	2882	17.5	(11/16)	263	4965
7.8		181	1647	12.8		215	2882	17.75		263	4977
8	(5/16)	181	1647	13		215	2882	18		263	4977
8.2		181	1681	13.2		215	2882	18.25		269	5056
8.5		181	1681	13.5		223	3160	18.5		269	5056
8.8		188	1823	13.8		223	3288	18.75		269	5138
9		188	1823	14		223	3288	19	(3/4)	269	5138
9.2		188	1867	14.25		245	4109	19.25		275	5279
9.5	3/8	188	1867	14.5	(9/16)	245	4109	19.5		275	5279
9.8		197	2121	14.75		245	4199	19.75		275	5367

20		275	5387	27.5		12798	38	(1.1/2)		426	25606
20.25		282	5477	27.75		13191	38.5			426	26448
20.5		282	5477	28		13191	39.39.5			426	26448
20.75		282	5578	28.25	(1.1/8)	13617	40			426	27497
21	(13/16)	282	5578	28.5		13617	40.5			426	27497
21.25		289	6481	28.75		14000	41	(1.5/8)		436	27497
21.5		289	6481	29		14000	41.5			436	27497
21.75		289	6611	29.25		14388	42			436	28904
22		289	7061	29.5		14388	42.5			436	28904
22.25		289	7061	29.75		14796	43			447	30582
22.5	(7/8)	296	7401	30	(1.3/16)	14796	43.5			447	32856
22.75		296	7401	30.25		15190	44			447	34637
23		296	9044	30.5		15190	44.5			447	34637
23.25		319	9044	30.75		15190	45	(1.3/4)		447	36063
23.5		319	9044	31		15190	45.5			459	36063
23.75		327	9044	31.25		15300	46	(1.13/16)		459	38024
24	(15/16)	327	9044	31.5		15300	46.5			459	38024
24.25		327	9440	31.75	(1.1/4)	15891	47			459	39572
24.5		327	9440	32		18308	47.5			459	39572
24.75		327	9784	32.5		19099	48	(1.7/8)		470	41573
25		327	9784	33	(1.5/16)	19099	48.5			470	41573
25.25		335	9784	33.5		19932	49	(1.15/16)		470	45533
25.5	(1)	335	9784	34		19932	49.5			470	45533
25.75		335	10177	34.5		20804	50			470	45533
26		335	10177	35	(1.3/8)	20804	50.5			470	47881
26.25		335	10471	35.5		20804					-
26.5		335	10471	36		22800					-
26.75		343	12411	36.5		23653					
27	(1.1/16)	343	12411	37	(1.7/16)	23653					
27.25		343	12808	37.5		25616					

EXTRA LONG HSS TAPER SHAANK TWIST DRILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size		Price Each Rs.									
		Overall Length in millimeter									
mm	Inch	200	225	250	275	300	315	325	350	375	400
3	1/8	1587	1857	2049	2326	2632	-	3027	-	-	-
3.5		1632	1857	2107	2384	2702	-	3112	-	-	-
4	5/32	1632	1857	2107	2384	2702	-	3112	-	-	-
4.5		1673	1910	2107	2442	2868	-	3277	-	-	-
5	3/16	1673	1910	2107	2442	2868	-	3277	-	-	-
5.5	7/32	1673	1923	2211	2589	2930	-	3366	-	-	-
6		1683	1923	2235	2589	2930	3197	3366	-	-	-
6.5	1/4	1707	1986	2246	2721	3047	3299	3468	-	-	-
7		1860	2087	2335	2773	3192	3505	3645	-	-	-
7.5		1882	2139	2403	2826	3276	3584	3716	-	-	-
8	5/16	1966	2187	2500	2928	3360	3643	3821	-	-	-
8.5		2032	2270	2550	2980	3423	3687	3929	-	-	-
9		2064	2304	2611	2996	3450	3786	3962	-	-	-
9.5	3/8	2116	2331	2611	3080	3538	3837	3980	-	-	-
10		2121	2391	2690	3135	3607	3933	4093	4579	5163	5743
10.5		2181	2482	2872	3315	3796	4104	4303	4920	5528	6231
11		2230	2560	2900	3370	3866	37240	4415	5011	5619	6283
11.5	7/16	2312	2613	2975	3453	3962	4313	4499	5149	5769	5550
12		-	2613	3106	3592	4113	4483	4702	5317	5902	5621
12.5	1/2	-	2882	3212	3724	4241	4629	4835	5571	6289	7107
13	-	-	-	3816	4365	4950	5369	5639	6416	7201	8091
13.5	-	-	-	3939	4453	5086	5501	5742	6540	7383	8297
14	-	-	-	4071	4587	5179	5613	5836	6670	7537	8458

EXTRA LONG HSS TAPER SHAANK TWIST DRILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size		Price Each Rs.					
		Overall Length in millimeter					
mm	Inch	250	275	300	315	325	350
14.5	9/16	4119	4670	5276	5664	5942	6820
15		4209	4773	5404	5785	6088	6957

15.5		4307	4884	5457	5899	6172	7064
16	5/8	4416	4966	5567	5983	6314	7167
16.5		4495	5032	5674	6098	6383	9301
17		4590	5154	5734	6171	6469	7413
17.5	11/16	-	-	5876	6291	6596	7557
18		-	-	5962	6432	6700	7680
18.5		-	-	6058	6510	6822	7748
19	3/4	-	-	6166	6606	6925	7876
19.5		-	-	6242	6681	6992	8020
20		-	-	6349	6791	7128	8113
20.5		-	-	6466	6915	7228	8249
21	13/16	-	-	6583	7050	4651	8428
21.5		-	-	6720	7167	7475	8577
22		-	-	6868	7360	7690	8738
22.5	7/8	-	-	7051	7516	7856	8887
23		-	-	7381	7870	8149	9183
23.5		-	-	8112	-	9004	9862
24	15/16	-	-	8112	-	9004	9961
24.5		-	-	8367	-	9400	10418
25		-	-	-	-	9744	10804
25.5	1	-	-	-	-	-	11140
26		-	-	-	-	-	11595
26.5		-	-	-	-	-	11944
27	1.1/16	-	-	-	-	-	12361
27.5		-	-	-	-	-	12758
28		-	-	-	-	-	13151
28.5	1.1/8	-	-	-	-	-	13577
29		-	-	-	-	-	13960
29.5		-	-	-	-	-	14348
30	1.3/16	-	-	-	-	-	14756
31	1.1/4	-	-	-	-	-	15150
32		-	-	-	-	-	15260

EXTRA LONG HSS TAPER SHANK TWIST DRILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size		Price Each Rs.					
		Overall Length in millimeter					
mm	Inch	400	425	450	475	500	525
33	1.5/16	19109	21019	23143	25220	27635	29474
34		19942	21912	24134	26314	28825	30722
35	1.3/8	20814	22875	25129	27416	30003	31966
36		21636	23744	26103	26473	31181	33159
37	1.7/1.6	22460	24635	27099	29544	32318	34406
38	1.1/2	23317	25616	28149	30653	33545	35705
39		24166	26740	29045	31628	34548	36768
40		25180	27507	30068	32697	35683	37929
41	1.5/8					36868	
42						38509	
43						40219	
44						41899	
45	1.3/4					43608	
46	1.13/16					45456	
47						47295	
48	1.7/8					49142	
49	1.15/16					50950	
50						53006	

HSS TAPER SHANK CORE DRILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size		Price Each Rs.	Size		Price Each Rs.	Size		Price Each Rs.
mm	inch		mm	inch		mm	inch	
7.00		1151	14.00		2263	22.00		3951
(7.14)	9/32	1151	(14.29)	9/16	2329	(22.22)	7/8	4194
7.50		1229	15.00		2430	23.00		4443
(7.94)	5/16	1225	(15.08)	19/32	2430	(23.02)	29/32	4443
8.00		1229	15.87	5/8	2487	(23.81)	15/16	4851
8.50		1254	16.00		2487	24.00		5093
(8.73)	11/32	1229	(16.67)	21/3.2	2621	(24.61)	31/32	5093
9.00		1258	17.00		2621	25.00		5899
(9.52)	3/8	1352	(17.46)	11/16	2832	(25.40)	1	5899
10.00		1352	18.00		288	26.00		6366
(10.32)	13/32	1352	(18.26)	23/32	3048	(26.19)	1.1/32	6368
11.00		1354	19.00		3487	(26.99)	1.1/16	7033

(11 .11)	7/ 16	1354	(19 .05)	3/4	3487	27.00		7033
(11 .91)	15/32	1449	(19.84)	25/32	3501	(27.78)	1.3/32	7302
12.00		1449	20 .00		3501	26.00		7738
(12.70)	1/2	1531	(20.64}	13/ 16	3747	(28.57)	1.1/8	7739
13.00	17/32	2075	21 .00	27/32	3717	29.00	1.5/32	8102
(13.49)		2273	(21.43)		3961	(29.37)		8102
30.00		8627	45.00		23911	(63.50)	2.1/2	59583
(30 .16)	1.3116	8627	46.00		24798	64.00		65059
(30 .96)	1.7/32	9954	(46.04)	1.13/1 6	24798	65.00		65059
31.00		10069	47.00		25769	(65.09)	2.9/16	65059
(31.75)	1.1/4	10512	(47.62)	1.7/8	27099	66.00		66215
32.00		11521	48.00		27099	(66.67)	2.5/8	68215
(32 .54)	1.9/32	1141	49.00		28938	67.00		71062
33.00		11763	(49.21)	1.15/ 16	28938	68.00		74516
(33.34)	1.5/16	11763	50.00		31142	(68.26)	2.11/16	74516
34 .00		12903	(50.80)	2	34437	69.00		78158
(34 .13)	1.11/32	12903	51.00		34736	(69.85)	2.3/4	79622
(34 .92)	1.3/8	13627	52.00		38257	70.00		79622
35.00		12627	(52.39)	2.1/16	38257	71 .00		81199
(35.72)	1.13/32	14656	53.00		44694	(71.44)	2.13/16	81199
36 .00		14658	{53.97)	2.1/8	44694	72.00		84912
(36.51)	1.7/16	15463	54.00		44694	73.00		88061
37 .00		15463	55.00		46847	(73.02)	2.7/8	98061
(37 .31)	1.15/32	15903	(55.56)	2.3/16	46847	74.00		91392
38.00		17016	56.00		48833	(74.61)	2.15/16	91392
(38.10)	1.1/2	17016	57.00		48833	75.00		94760
39 .00		18659	(57.15)	2.1/4	48833	76.00		99313
(39.69)	1.9/ 16	19659	58.00		53366	(76.20)	3	99313
40 .00		18659	(58.74)	2.5/16	53376			
41.00		20567	59.00		54353			
(41 .27)	1.5/8	20567	60.00		54353			
42 .00		21177	(60.32)	2.3/8	54353			
(42.86)	1.11/ 16	21858	61 .00		57926			
43.00		21858	(61.91)	2.7/16	57926			
44.00		23104	62.00		57926			
(44 .45)	1.3/4	23104	63.00		59593			

HSS SHELL DRILLS (TAPER HOLE 1 IN 96)



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia Inch	Price Each Rs.	Dia Inch	Price Each Rs.	Dia Inch	Price Each Rs.
1	3145	1.11/16	5852	2.314	14633
1.1/16	3320	1.3/4	5988	2.7/8	16264
1.1/8	3519	1.13/16	6223	3	17867

1.3116	3735	1.7/8	6412	3.1/8	20036
1.1/4	3901	1.15/16	6722	3.1/4	21976
1.5/16	4091	2	6951	3.318	23638
1.318	4323	2.1/8	7685	3.112	35376
1.7/16	4516	2.1/4	8412	3.518	29993
1.112	4679		-20	3.314	31378
		2.3/8	9414	3.7/8	36326
1.9/16	4947	2.1/2	11453		
1.518	5163	2.5/8	13310	4	40147

HSS CENTRE DRILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

TYPE 'A' IS :6708 - 1977			TYPE 'B' IS :6709 - 1977			BS 328 (PART 2) 1950			
Plot 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	188	1.6	6.3	385	BS 1	3/64	1/8	168
1.25	3.15	188	2	8	553	BS 2	1/16	3/16	168
1.6	4	188	2.5	10	710	BS 3	3/32	1/4	199
2	5	188	3.15	11.2	952	BS 4	1/8	5/16	325
2.5	6.3	219	4	14	1283	BS 5	3/16	7/16	432
3.15	8	345	5	18	1841	BS 6	1/4	5/8	841
4	10	425	6.3	20	2172	BS 7	5/16	3/4	1314
5	12.5	726	8	25	2816				
6.3	16	861							
8	20	1334							
10	25	1721							

HSS CYLINDRICAL CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Width mm	Price Each Rs.	Dia mm	Width mm	Price Each Rs.	Dia mm	Width mm	Price Each Rs.
40	(20)	2561	63	50	5894	100	(90)	19416
	(32)	3204		70	7764		(110)	27288
	(50)	3991		(90)	9119		125	33249
50	(70)	5353	80	(36)	6609	125	(50)	23361
	(25)	3284		63	10518		(80)	33151
50	40	3891	80	80	12450	125	(110)	44624
	63	5099		100	14336		(125)	49926
63	80	6619	100	(40)	10342	160	140	55534
	(32)	4681		(70)	15674		125	83091

HSS HELICAL CYLINDRICAL CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Length Inch	Price Each Rs. Diameter			Length Inch	Price Each Rs. Diameter		
	3"	4"	5"		3"	4"	5"
2	11687	17155	28614	5	28758	42306	58348
3	14797	22955	38556	6	36468	49785	68414
4	19901	29238	48530				

HSS SIDE AND FACE CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Width mm	Bore mm	Price Each (Rs.)		Dia mm	Width mm	Bore mm	Price Ech (Rs.)	
			Straight Teeth Type B	Staggered Teeth Type A				Straight Teeth Type B	Staggered Teeth Type A
50	5	16	3000	3729	150	28		22712	28456
	6		3122	3881		32		24413	21049
	8		3204	3989	160	6	40	13387	14944
	10	22	3400	4246		8		14230	15891
63	6	22	3682	4752		10		15077	16834
63	8		3891	5187	160	12	40	15905	14453
	10		4233	5343		14		16744	18706
	12		4416	5759		16		17733	19644

	14		4549	6179		18		18992	21739
	16		4773	6667		20		19941	21739
63	18	22	5090	6865	160	22	40	21119	24102
80	6	27	4033	5054		25		22796	27953
	8		4470	5502		28		24413	29109
	10		4773	6298		32		26576	31741
	12		5090	6667	200	6	40	17528	19434
80	14	27	5414	7154	200	8	40	18916	20933
	16		5664	7301		10		20474	23010
	18		6308	8270		12		23670	26019
	20		6581	8675		14		25213	27843
100	6	32	5769	6988		16		26774	29697
100	8	32	6167	7480	200	18	40	29882	33678
	10		6819	8018		20		30208	34707
	12		7311	8914		22		32989	37755
	14		7744	9119		25		36097	41465
	16		8280	9841		28		38005	44042
100	18	32	8832	10117	200	32	40	42247	49368
	20		9510	10684	225	6		22587	24489
	22		9956	12219		8		24659	26962
	25		10820	13324		10		26845	29046
125	6	32	8091	10031		12		31256	34103
125	8	32	8685	10810	225	14		33508	36875
	10		9306	12582		16		35800	39617
	12		10607	13064		18		40390	45919
	14		11491	13957		20		40390	45919
	16		11979	14497		22		44592	50852
125	18	32	12847	16537	225	25		48835	55621
	20		13303	17843		28		53176	60121
	22		14692	10390		32		57510	64597
	25		16067	20166	250	6		25927	28398
	28		18093	23088		8		28575	30887
150	6		9851	12659	250	10		31043	33343
	8		10716	13696		12		36316	39763
	10		11627	14780		14		39319	42849
	12		13468	17004		16		42218	45919
	14		14404	18083		18		47725	53128
150	16		15349	19180	250	20		47725	53128
	18		17236	21277		22		52818	58879
	20		17236	21277		25		58237	64120
	22		19137	23577		28		63309	70951
	25		20981	25969		32		68327	77809

HSS SIDE AND FACE CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia Inch	Width Inch	Price Each (Rs.)		Dia Inch	Width Inch	Price Ech (Rs.)		
		Straight Teeth Type B	Staggered Teeth Type A			Straight Teeth Type B	Staggered Teeth Type A	
2.1/2	¼	3682	--	5	5/16	8665	10790	
	5/16	3858	-		3/8	9286	12562	
	3/8	4033	-		7/16	9938	12784	
	7/16	4215	-		½	10587	13044	
	½	4397	-		5/8	11959	14477	
2.1/2	5/8	4714	-	5	¾	13283	16523	
	¾	5036	-		7/8	14672	19160	
	7/8	5374	-		1	16047	20146	
	1	5753	-		1.1/4	18538	-	
	1.1/4	6467	-		1.1/2	21094	-	
2.1/2	1.1/2	7207	-	6	¼	9831	12639	
3	¼	4082	5118		5/16	10696	13676	
	5/16	4290	5444		3/8	11607	14740	
	3/8	4549	6086		7/16	12526	15844	
	7/16	4762	6187		½	13448	16984	
3	½	5014	6298	6	5/8	15323	19160	
	5/8	5499	7053		¾	17216	21257	
	¾	5904	7494		7/8	19117	23557	
	7/8	6572	8173		1	20961	25932	
3	1	7103	8822	6	1.1/4	24413	-	
	1.1/4	7844	-		1.1/2	27853	-	
	1.1/2	8964	--		7	¼	14590	16523
3.1/2	¼	4853	-	7	5/16	15790	18970	
	5/16	5128	-		3/8	16992	20465	
	3/8	5454	-		7/16	18130	21491	
3.1/2	7/16	5778	-	7	½	19584	22466	
	½	6061	-		5/8	21930	26356	
	5/8	6719	-		¾	24324	29486	
	¾	7361	-		7/8	26745	32445	
	7/8	7937	-		1	29137	35348	
3.1/2	1	8731	-	7	1.1/4	33904	-	
	1.1/4	9879	-		1.1/2	38730	-	
	1.1/2	11135	-		8	¼	17528	19461
4	¼	5753	6988	5/14		18916	20933	
	5/16	6167	7480	3/8		20474	23010	
4	3/8	6581	7927	8		7/16	22068	24517
	7/16	6998	8413			½	23670	26019
	½	7311	8914		5/8	26774	29697	
	5/8	8280	9841		¾	29882	33781	
	¾	9129	11233		7/8	32989	37755	
4	7/8	9958	12219	8	1	3582	41454	
	1	10820	13324		1.1/4	42240	-	
	1.1/4	12299	-		1.1/2	48382	-	
	1.1/2	13548	-		9	¼	22587	24943
5	1/4	8091	10031	5/16		24659	26962	

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	26865	29066	10	5116	28575	30887
	7/16	28956	31991		318	31043	33343
	1/2	31277	34166		7/16	33364	34880
	5/8	35820	39637		112	36316	39763
	3/4	39688	45939		5/8	42218	45919
9	7/8	44612	50872	10	314	47725	53128
	1	48855	52813		718	52820	58879
	1.1/4	57530	64617		1	58239	64120
	1.1/2	66227	73862		1.1/4	68327	77809
	1.3/4	81217	90097		1.1/2	79236	89410
10	1/4	25947	28418		1.314	96230	107451

HSS KEYWAY MILLING CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Wid1h mm	Price Each Rs.	Dia mm	Wid1h mm	Price Each Rs.	Dia mm	Wid1h mm	Price Each Rs.
50	5	2724	100	6	5266	160	12	15340
	6	2947		8	5653		14	16347
	8	3127		10	6157		16	17505
	10	3265		12	6709		18	18632
63	5	3198		14	7218		20	19881
63	6	3198	100	16	7769	160	22	21172
	8	3347		18	8223		25	22987
	10	3682		20	8404		28	24273
	12	3999		22	9389		32	27473
	14	4233		25	10031	200	12	22573
63	16	4549	125	8	8081	200	14	23850
	18	4890		10	8841		16	25366
80	5	4479		12	9644		18	27156
	6	4479		14	10632		20	29071
	8	4773		16	11340		22	31239
80	10	5096	125	18	12289	200	25	33681
	12	5707		20	13015		28	36502
	14	6167		22	13865		32	40634
	16	6554		25	15180		36	44761
	18	6924		28	16754		40	
80	20	7361	160	10	14579			

HSS SLOTTING CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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	2212	31/2	3/8	3740	5	7/16	7858
	5/16	2399		7/16	4023		1/2	8468
	3/8	2565		1/2	4314		5/8	9634
	7/16	2708		5/8	4915		3/4	10587
	1/2	2862		3/4	5343		7/8	11558
2.1/2	5/8	3204	31/2	7/8	5768	5	1	12526
	3/4	3431	4	1	6187	6	1/4	7858
	7/8	3672		3/16	3799		5/16	8712
	1	3891		1/4	3799		3/8	9557
3	1/4	2530		5/16	4246		7/16	10415
3	5/16	2724	4	3/8	4636	6	1/2	11285
	3/8	2931		7/16	5404		5/8	13002
	7/16	3204		1/2	5444		3/4	14422
	1/2	3367		5/8	6810		7/8	15854
	5/8	3793		3/4	6914		1	17336
3	3/4	4133	4	7/8	7962			
	7/8	4563		1	8200			
	1	5036	5	1/4	6086			
3.1/2	1/4	3158		5/16	6667			
	5/16	3467		3/8	7255			

HSS SINGLE ANGLE CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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,	2836	80	32	22	70,75,80	6609
			75,80, 85						
63	18	22	60,65, 70	4233	100	36	27	70,75,80	9926
			7,58,085						
63	26	22	70,75, 80	5036					

HSS SINGLE ANGLE CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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	3519	3891	1/2	45,50,55,60, 65, 70,80	4062	4580
7/16	40	3858	4402	5/8	50,60,65,70,80	4529	5098

HSS DOUBLE ANGLE CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Width mm	Bore mm	Angle (Degrees)	Price Each Rs.
50	12	16	12 x 55, 15 x 60, 65,70,75 & 80	3122
63	18	22	12 x 55, 15x 60, 65,70,75 & 80	4276
50	14	16	20 x 90	3404
63	20	22	20 x 90	4479
50	16	16	25 x 100	3682
63	22	22	25 x 100	4843
80	32	22	15x 65,70,75	6619
100	36	27	15 x 70,75,80	9936

HSS DOUBLE ANGLE CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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	4082	3	5/8	1-1/4	5086
	3/4	1	4925		3/4	1-1/4	5118

HSS EQUAL ANGLE CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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	2747	60	12	27	45	4101
50	10	16	60	2669	60	16	27	60	4649
50	14	16	90	3236	60	22	27	90	5266
63	10	22	45	3347	100	16	32	45	6493
63	14	22	60	3707	100	25	32	60	7599
63	20	22	90	4287	100	32	32	90	8896

HSS EQUAL ANGLE CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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	3122	80	16	22	45	4460
56	12	16	60	3265	80	20	22	60	4843
56	14	16	90	3519	80	22	22	90	5266
63	12	22	45	3519	100	18	27	45	6493
63	16	22	60	3891	100	25	27	60	7599
63	18	22	90	4082	100	28	27	90	8237

HSS EQUAL ANGLE CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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	3519	3	5/16	30,40	3881
2.3/4	7/16	40	3682	3	7/16	30, 40	4072
2.3/4	1/2	45,60,90	3682	3	1/2	45,60,90	4072
2.3/4	5/8	60,90	4082	3	5/8	60,90	4460

HSS CONVEX CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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	3750	80	12.6	6.3	27	8174
50	4	2	16	3750	80	16	8	27	6779
63	5	2.5	22	4714	100	20	10	32	10414
63	6	3	22	4714	100	24	12	32	11492
63	6.3	3.15	22	4714	100	25	12.5	32	12154
63	8	4	22	4714	125	32	16	32	20103
63	10	5	22	5197	125	40	20	32	24227
80	12	6	27	6184					

HSS CONVEX CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Width mm	Radius mm	Soro mm	Price Each Rs.	Dia mm	Width mm	Radius mm	Bore mm	Price Each Rs.
50	3	1.5	22	3750	70	16	8	22	6157
50	3.2	1.6	22	3750	90	18	9	27	8237
50	4	2	22	3750	90	20	10	27	8675
56	5	2.5	22	4441	90	22	11	27	9563
56	6	3	22	4441	90	24	12	27	10469
63	6	3	22	4714	90	25	12.5	27	10597
63	8	4	22	4714	100	28	14	32	13076
63	10	5	22	5197	110	32	16	32	16543
70	12	6	22	5603	110	36	18	32	21844
70	14	7	22	6167	125	40	20	40	24227

HSS CONVEX CUTIERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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	4479	80	24	6.3	27	9311
50	9	2	16	4684	80	32	8	27	10948
63	10	2.5	22	5141	100	36	10	32	15252
63	12	3	22	5537	100	40	12	32	16077
63	12	3.15	22	5537	100	40	12.5	32	16077
63	16	4	22	5697	125	50	16	32	33873
63	20	s	22	6686	125	60	20	32	36814
80	24	6	27	9301					

HSS CONVEX CUTIERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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	4714	90	40	10	27	14497
56	8	1.6	22	4714	100	42	11	27	16910
56	9	2	22	4954	100	44	12	27	17479
56	10	2.5	22	5096	100	46	12.5	27	17820
63	14	3.5	22	5707	100	50	14	27	19611
70	24	6	22	7972	125	56	16	32	27004
70	28	7	22	8367	125	62	18	32	36794
90	36	9	27	13074	125	70	20	32	38740

HSS SINGLE CORNER ROUNDING CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Width mm	Comer Radius mm	Bore mm	Price each Rs.	Dia mm	Width mm	Corner Radius mm	Bore mm	Price each Rs.
50	5	1.6	16	3793	80	12	6.3	27	6645
50	5	2	16	3793	80	16	8	27	7154
63	5	2.5	22	4610	100	18	10	32	14174
63	6	3	22	4610	100	20	12	32	14779
63	6	3.15	22	4610	100	20	12.5	32	14779
63	8	4	22	4824	125	24	16	32	19956
63	10	5	22	5141	125	28	20	32	23173
80	12	6	27	6655					

HSS SINGLE CORNER ROUNDING CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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	3991	100	11	21	27	15237
56	2.0	4.5	22	3991	100	12	22	27	15237
56	2.5	5	22	3991	100	12.5	22	27	15237
63	3.5	7	22	4814	100	14	25	27	16140
70	6.0	12	22	5499	100	16	28	32	17347
70	7.0	14	22	5778	100	18	31	32	22177
90	9.0	18	27	8651	125	20	35	32	23587
90	10.0	20	27	9399					

HSS INVOLUTE GEAR CUTTERS 14.1/2 & 20 DEG PA



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Module mm	Price Each Rs.					
	22mm Bore	1 Bore	27mm Bore	32mm Bore	40mm Bore	50 mm Bore
0.5	-	2508	-	-	-	-
0.75	-	2508	-	-	-	-
1	2518	2508	-	-	-	-
1.25	2645	2882	-	-	-	-
1.5	2892	-	-	-	-	-
1.75	2892	-	3227	3658	-	-
2	-	3237	3227	3658	-	-
2.25	-	3237	3227	3658	-	-
2.5	-	3570	3560	4142	-	-
2.75	-	3570	3560	4142		
3	-	3859	3849	4859	-	-
3.25	-	4266	4047	5120	-	-
3.5	-	4823	4256	5214	-	-
3.75	-		4813	5700	-	-
4	-		4813	5401	-	-

4.5	-	6068	5767	7158	-	-
5	-	-	6058	7270	-	-
5.5	-	-	7280	8109	-	-
6	-	-	9102	9229	-	-
6.5	-	-	10408	10986	-	-
7	-	-	-	11557	-	-
8	-	-	-	13338	-	23358
9	-	-	-	20503	20493	25134
10	-	-	-	22423	23234	28026
11	-	-	-	24340	26741	-
12	-	-	-	25900	28036	29529
14	-	-	-	32631	33262	36586
16	-	-	-	-	-	45829

HSS INVOLUTE GEAR CUTTERS 14.1/2 & 20 DEG PA



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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	1.114	1
1.5	45879	-	-		11			3668	3217
1.75	36635	36625	33108		12			3668	3217
2	29579	28066	25910		13				3169
2.25	28076	26771	24350		14				2862
2.5	25185	23264	22433		15				2862
2.75	23408	20523	20513		16				2162
3			13348		18				2617
4			9239	9092	20				2617
5			7270	6048	22				2488
6			5408	4803	24				2488
7			5224	4246	26				2488
8			4870	3839	28				2488
9			4152	3550	30				2488
10			4074	3515					

HSS ROTARY FORM CUTTERS FOR ROLLER CHAIN WHEELS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Pitch Inch	Roller Dia Inch	Price Each Rs. Cutter No			Pitch Inch	Roller Dia Inch	Price Each Rs. Cutter No		
		1	2	3			1	2	3
0.315	0.197	6677	6667	6657	0.75	0.475	11687	11677	11871
0.375	0.25	6924	6914	6904	1	0.625	22662	22652	22064
0.5	0.305	7823	7813	7803	1.25	0.75	26581	24574	24564
0.5	0.335	7823	7813	7803	1.5	1	26765	26571	27606
0.625	0.325	7823	7813	7803	1.75	1.1	36160	35742	35490
0.625	0.4	8768	8758	8748	2	1.15	52968	48709	47304

HSS SHELL END MILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Length mm	Bore mm	Price each Rs.	Dia mm	Length mm	Bore mm	Price each Rs.
40	32	16	4853	100	50	32	17538
50	36	22	5904	125	56	40	29419
63	40	27	7774	160	63	50	55544
80	45	27	11491				

HSS FACE CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Length mm	Bore mm	Price each Rs.	Dia mm	Length mm	Bore mm	Price each Rs.
1.3/4	1.1/4	3/4	4183	3	1.11/16	1.1/8	8721
2	1.1/4	3/4	4824	4	1.3/4	1.1/8	14600
2.1/2	1.1/4	3/4	6096	5	2	1.1/2	24574

HSS HOLLOW MILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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	2212	7/16	1	2852	3/4	1.1/2	4213
9/32	3/4	2639	1/2	1	2852	13/16	1.1/2	4213
5/16	3/4	2639	9/16	1.1/4	3672	7/8	1.3/4	5270
11/32	3/4	2639	5/8	1.1/4	3672	15/16	1.3/4	5270
3/8	1	2862	11/16	1.1/2	4223	1	1.3/4	5270



HSS END MILLS PARALLEL SHANK & HSS END MILL TAPER SHANK (TANGED END)

HSS SLOT DRILLS PARALLEL SHANK & HSS SLOT DRILL TAPER SHANK (TANGED END)

Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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	613	1017	725	1116	33	3894	6164	-	-
4	613	1017	725	1116	34	4250	6768	4618	7183
5	613	1017	725	1116	35	4250	6768	4618	7183
6	686	1017	779	1116	36	4638	7423	4963	8390
7	773	1017	779	1116	37	5001	8100		
8	773	1017	779	1230	38	5335	8100	5359	8390
9	773	1102	779	1230	39	5662	9427	5740	
10	773	1102	810	1257	40	6016	9427	6501	9587
11	773	1214	810	1257	41	6016	9427	6501	-
12	799	1214	886	1409	42	6855	10370		-
13	905	1685			43	6855	10370	7236	-
14	992	1685		1776	44		10839	7236	-
15	1162	1796	1289	1845	45	7686	11661	7236	-
16	1162	1796	1289	1845	46	7686	11936	8042	-
17	1270	2197			47	8460	12366	8042	-
18	1414	2197	1593	2122	48	8460	12366	8042	-
19	1414	2541			49	8460	13913	8826	-
20	1565	2541	1593	2122	50	9311	13913	8826	--
21	1757	2668	1862	2646	51	9311	13913	-	-

22	1778	2668		2646	52	11473	19520		
23	1928	2910	2215	3158	53	11473	19520	-	-
24	1928	3146	2215	3158	54	13602	24678	-	-
25	2073	3146	2215	3158	55	16366	24678	-	-
26	2151	3923	3167	4374	56	16366	24678	-	-
27	2532	4388			57	19042	25905		
28	2956	4388		4635	58	19042	25905	-	-
29	2956	4829	3868		59	19042	25905	--	-
30	3254	4829		5566	60	20335	25905		
31		5128			61	20335	31072		
32	3551	5128	3868	5566	62	20815	31072		
					63	21171	31072		



HSS END MILLS PARALLEL SHANK & HSS END MILL TAPER SHANK (TANGED END)

HSS SLOT DRILLS PARALLEL SHANK & HSS SLOT DRILL TAPER SHANK (TANGED END)

Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Ola Inch	Price Each {Rs.}			
	END MILLS		SLOT DRILLS	
	Parallel Shank	Taper Shank	Parallel Shank	Taper Shank
1/8	613	948	725	998
5/32	613	948	725	998
3/16	613	948	725	998
7/32	614	971	777	1098
1/4	686	971	779	1157
9/32	706	971		
5/16	773	971	779	1230
3/8	773	1057	779	1230
7/16	773	1072	797	1257
1/2	799	1214	886	1409
9/16	992	1685	1142	1776
5/8	1162	1796	1289	1845
11/16	1301	2029	1462	2010
3/4	1414	2142	1593	2122
13/16	1565	2437	1862	2646
7/8	1778	2670	1862	2646
15/16	2073	2900		
1	-10	3122	2215	3158
1-1/8	2956	4361	3167	4635
1-1/4	3551	5128	3868	5566

1-3/8	4290	6808	4658	7223
1 1/2	5023	8140	5399	8430
1-5/8	6056	9467	6690	--
1-3/4	7726	10879	7276	
1-7/8	8520	12406	8082	-
2	9331	13953	8865	-
2-1/16	11513		-	-
2-1/8	13642	19344	-	-
2-3/16	16406		-	-
2-1/4	17751	24718		
2-5/16	19082		-	-
2-3/8	20375	26976	-	-
2-1/2	22974	31112	-	-

HSS WOODRUFF KEYSLOT CUTTERS TYPE 'A' STRAIGHT TEETH



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Width mm	Price Each Rs.	Dia mm	Width mm	Price Each Rs.	Dia mm	Width mm	Price Each Rs.
10.5	2	1299	16.5	5	1802	28.5	6	3792
10.5	2.5	1299	19.5	4	2052	28.5	8	3792
10.5	3	1299	19.5	5	2052	28.5	10	3792
13.5	3	1626	19.5	6	2052	32.5	7	4490
13.5	4	1626	22.5	5	2336	32.5	8	4490
16.5	3	1812	22.5	6	2336	32.5	10	4490
16.5	4	1812	22.5	8	2336	45.5	10	7646

HSS CUTTERS FOR WOODRUFF KEY SEATS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

B.S.No.	Price Each Rs.	B.S.No.	Price Each Rs.	B.S.No.	Price Each Rs.
204	1386	507	2648	810	4692
304	1386	607	2648	1010	4692
404	1386	807	2648	1210	4692
305	1925	608	3205	1011	5717
405	1925	808	3205	1211	5717
505	1925	1008	3205	812	6463
406	2263	609	3970	1012	6463
506	2263	809	3970	1212	6463
606	2263	1009	3970		

HSS 'T' SLOT CUTTERS WITH TAPER SHANK



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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	4969	18	32	13075	36	60	40741
12	21	5430	22	40	17522	42	72	49448
14	25	10449	28	50	22605			

HSS 'T' SLOT CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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	3991	5/8	1-21/64	10203	1-1/8	2-1/8	23899
5/16	45/64	4501	3/4	1-33/64	12672	1-1/4	2-5/16	28436
3/8	53/64	4922	7/8	1-45/64	14949	1-3/8	2-1/2	35105
7/16	61/64	5218	1	1-61/64	18518	1-1/2	2-3/4	44954
1/2	1-5/64	6305						



HSS SCREWED SHANK END MILLS/SLOT DRILLS-SHORT (NORMAL) SERIES

Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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	1390	1635	12	1666	1858	26	4244	4596
4	1390	1635	13	1911	1965	28	5094	5593
5	1390	1635	14	1911	2157	30	5338	6127
6	1390	1635	16	2157	2431	32	6165	6683
7	1535	1635	18	2729	3082	34	7371	7945
8	1535	1635	20	3063	3409	36	8557	9117
9	1535	1635	22	3318	3511	38	8557	9117
10	1612	1742	24	3810	4055			
11	1612	1706	25	3810	4055			



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

Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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
1/8	1390	1442	11/16	2537	3030	1 1/4	6165	7546
3/16	1390	1442	3/4	2729	3411	1 5/16	7371	8106
1/4	1390	1442	13/16	3063	3864	1 3/8	7371	8748
5/16	1535	1612	7/8	3318	4287	1 7/16	8557	9458
3/8	1535	1819	15/16	3554	4637	1 1/2	8557	10106
7/16	1612	1966	1	3810	5348	1 5/8	9958	12387
1/2	1676	2266	1 1/16	4254	5880	1 3/4	11142	14263
9/16	1921	2547	1 1/8	5094	6373	1 7/8	13871	16224
5/8	2167	2878	1 3/16	5348	6870	2	16062	18232



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

Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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
1/8	1635	1766	11/16	2840	3261	1-1/4	6683	8047
3/16	1635	1766	3/4	3082	3554	1-5/16	7945	8770
1/4	1635	1766	13/16	3409	4112	1-3/8	7945	9458
5/16	1635	1766	7/8	3511	4413	1-7/16	9117	10106
3/8	1635	1868	15/16	3726	4939	1-1/2	9117	10807
7/16	1706	2184	1	4055	5348	1-5/8	10607	12826
1/2	1868	2310	1-1/16	4606	6091	1-3/4	11727	14603
9/16	2168	2723	1-1/8	5603	6882	1-7/8	14360	16462
5/8	2441	2737	1-3/16	6137	7470	2	16361	18232

HSS HOLE MILLS (FINISHING) GUIDED - TYPE B



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size mm	Price Each Rs.	Size mm	Price Each Rs.	Size mm	Price Each Rs.
6	2242	18	5288	30	11674
8	2326	20	5768	32	13556
10	2725	22	6596	34	18333
12	3083	24	8500	35	18333
13	3883	25	9167	36	19587
14	3883	26	10306	38	20945
15	4077	27	10306	40	24149
16	4077	28	11240	42	26902

HSS HOLE MILLS (FINISHING) GUIDED - TYPE B



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size mm	Price Each Rs.	Size mm	Price Each Rs.	Size mm	Price Each Rs.
5.9	2242	17.8	5288	29.7	11674
7.9	2324	19.8	5768	31.7	13556
9.9	2725	21.7	6596	33.7	18333
11.8	3083	23.7	8500	34.7	18333
12.8	3883	24.7	9167	35.7	19587
			-20		-30
13.8	3883	25.7	10306	37.7	20945
14.8	4077	26.7	10306	39.7	24149
15.8	4077	27.7	11240	41.6	26902

HSS HAND REAMERS

HSS MACHINE REAMERS WITH TAPER HANK

HSS CHUCKING REAMERS WITH TAPER SHANK

HSS CHUCKING REAMERS WITH PARALLEL SHANK



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia		Price Each Rs.			
		Reamers		Chucking Reamers	
mm	inch	Hand	Machine	Parallel Shank	Taper Shank
3.00		1049	1039	1029	1019
(3.17)	1/8	1049	1039	1029	1019
(3.97)	5/32	1049	1039	1029	1019
4.00		1049	1039	1029	1019
(4.76)	3/16	1049	1039	1029	1019
5.00		1049	1039	1029	1019
(5.56)	7/32	1049	1039	1029	1019
6.00		1223	1213	1203	1193
(6.35)	1/4	1223	1213	1203	1193
7.00		1225	1215	1205	1195
(7.14)	9/35	1225	1215	1205	1195
(7.94)	5/16	1390	1380	1370	1360
8.00		1390	1380	1370	1360
(8.73)	11/32	1449	1439	1429	1419
9.00		1449	1439	1429	1419
(9.52)	3/8	1581	1571	1561	1551
10.00		1753	1743	1733	1723
(10.32)	13/32	1753	1743	1733	1723
11.00		1970	1960	1950	1940
11.11	7/16	1970	1960	1950	1940
(11.91)	15/35	2049	2039	2029	2019
12.00		2049	2039	2029	2019
(12.70)	1/2	2127	2117	2107	2097
13.00		2589	2579	2569	2559
(13.49)	17/32	2589	2579	2569	2559
14.00		2589	2579	2569	2559
(14.29)	9/16	2589	2579	2569	2559
15.00		2606	2596	2586	2576
(15.08)	19/32	2606	2596	2586	2576
(15.87)	5/8	2606	2596	2586	2576
16.00		2606	2596	2586	2576
(16.67)	21/32	3002	2992		2972
17.00		3002	2992		2972
(17.46)	11/16	3002	2992		2972
18.00		3215	3205		3185
(18.26)	23/32	3419	3409		3389

19.00		3419	3409		3389
(19.05)	3/4	3419	3409		3389
20.00		3812	3802		3782
(20.64)	13/16	3883	3873		3853
21.00		4316	4306		4286
22.00		4316	4306		4286
(22.22)	7/8	4316	4306		4286
23.00		5039	5029		5009
(23.81)	15/16	5584	5574		5554

Dia		Price Each Rs.			
		Reamers		Chucking Reamers	
mm	inch	Hand	Machine	Parallel Shank	Taper Shank
24.00		5584	5574	-	5554
25.00		5596	5586	-	5566
(25.40)	1	5698	5688	-	5668
26.00		6918	6908	-	6888
(26.99)	1.1/16	7913	7903	-	7883
		-10	-20	-	-40
27.00		7913	7903	-	7883
28.00		7913	7903	-	7883
(28.57)	1.1/8	7913	7903	-	7883
29.00		8395	8385	-	8365
30.00		9059	9049	-	9029
		-10	-20	-	-40
(30.16)	1.3/16	9059	9049	-	9029
31.00		10005	9995	-	9975
(31.75)	1.1/4	10005	9995	-	9975
32.00		10005	9995	-	9975
33.00		11363	11353	-	11333
		-10	-20	-	-40
(33.34)	1.5/16	11363	11353	-	11333
34.00		12768	12758	-	12738
(34.92)	1.3/8	13972	13962	-	13942
35.00		13972	13962	-	13942
36.00		13972	13962	-	13942
		-10	-20	-	-40
(36.51)	1.7/16	14074	14064	-	14044
37.00		15337	15327	-	15307
38.00		15337	15327	-	15307
(38.10)	1.1/2	15337	15327	-	15307
39.00		16951	16941	-	16921
		-10	-20	-	-40
(39.69)	1.9/16	18528	18518	-	18498
40.00		18528	18518	-	18498
41.00		18685	18675	-	18655
(41.27)	1.5/8	18685	18675	-	18655
42.00		22023	22013	-	21993
		-10	-20	-	-40
(42.86)	1.11/16	22023	22013	-	21993
43.00		22023	22013	-	21993
44.00		22023	22013	-	21993

(44.45)	1.3/4	22023	22013	-	21993
45.00		25809	25799	-	25779
		-10	-20	-	-40
46.00		25809	25799	-	25779
47.00		27868	27858	-	27838
(47.62)	1.7/8	29932	29922	-	29902
48.00		29932	29922	-	29902
49.00		29932	29922	-	29902
		-10	-20	-	-40
(49.21)	1.15/16	29932	29922	-	29902
50.00		29932	29922	-	29902
(50.80)	2	29932	29922	-	29902
51.00		29932	29922	-	-
52.00		35680	35670	-	-

Dia		Price Each Rs.			
		Reamers		Chucking Reamers	
mm	inch	Hand	Machine	Parallel Shank	Taper Shank
(52.39)	2.1/16	35680	35670	-	-
53.00		35680	35670	-	-
(53.97)	2.1/8	35680	35670	-	-
54.00		35680	35670	-	-
55.00		41433	41423	-	-
				-	-
(55.56)	2.3/16	41433	41423	-	-
56.00		41433	41423	-	-
57.00		41433	41423	-	-
(57.15)	2.1/4	41433	41423	-	-
58.00		44332	44322	-	-
				-	-
(58.74)	2.5/16	44332	44322	-	-
59.00		44332	44322	-	-
60.00		52600	52590	-	-
(60.32)	2.3/8	52600	52590	-	-
61.00		52600	52590	-	-
				-	-
(61.91)	2.7/16	52600	52590	-	-
62.00		52600	52590	-	-
63.00		52600	52590	-	-
(63.50)	2.1/2	52600	52590	-	-
64.00		52600	52590	-	-
				-	-
65.00		-	63498	-	-
(65.09)	2.9/16	63508	63498	-	-
66.00		-	65642	-	-
(66.67)	2.5/8	65652	65642	-	-
67.00		-	65642	-	-
				-	-
68.00		-	70371	-	-
(68.26)	2.11/16	70381	70371	-	-
69.00		-	70371	-	-
(69.85)	2.3/4	70381	70371	-	-
70.00		-	70371	-	-
				-	-

71.00		-	70371	-	-
(71.44)	2.13/16	73947	73937	-	-
72.00		-	85972	-	-
73.00		-	85972	-	-
(73.02)	2.7/8	85982	85972	-	-
				-	-
74.00		-	85972	-	-
(74.61)	2.15/16	85982	85972	-	-
75.00		-	90279	-	-
76.00		-	90279	-	-
(76.20)	3	90289	90279	-	-

HSS TAPER SHANK EXTRA LONG MACHINE REAMERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Price Each Rs.	Dia mm	Price Each Rs.
8x125x200	2062	5/16x125x200	2007
8x175x250	2156	5/16x175x250	2146
8x200x300	2365	5/16x200x300	2355
8x225x300	2970	3/8x125x200	2526
9x125x200	1967	3/8x175x250	2695
9x175x250	2266	3/8x200x300	2862
10x125x200	2536	7/16x160x250	2996
10x175x250	2705	7/16x200x300	3155
10x200x300	2872	1/2x175x200	3380
10x300x400	3069	1/2x200x300	3418
12x160x250	3006	9/16x200x300	4021
12x200x300	3168	9/16x250x350	4262
13x200x300	3625	5/8x200x300	4021
14x160x250	3378	5/8x250x350	4304
14x200x300	3968	5/8x300x400	4501
15x200x300	4031	11/16x200x300	4995
15x300x400	4511	3/4x200x300	5303
16x200x300	4031	3/4x300x400	5646
16x300x400	4511	13/16x200x300	6687
17x200x300	4548	7/8x200x300	7926

18x200x300	5000	7/8x300x400	8097
19x200x300	5313	1x275x400	9761
20x200x300	5896	1x200x315	8689
20x300x400	6663	1-1/8x275x400	14840
22x200x300	6697		
25x200x315	8699		
25x275x400	9771		
26x275x400	12084		
28x175x400	13882		

HSS TAPER SHANK EXTRA LONG MACHINE REAMERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Price Each Rs.	Dia mm	Price Each Rs.
8x125x200	2062	5/16x125x200	2007
8x175x250	2156	5/16x175x250	2146
8x200x300	2365	5/16x200x300	2355
8x225x300	2970	3/8x125x200	2526
9x125x200	1967	3/8x175x250	2695
9x175x250	2266	3/8x200x300	2862
10x125x200	2536	7/16x160x250	2996
10x175x250	2705	7/16x200x300	3155
10x200x300	2872	1/2x175x200	3380
10x300x400	3069	1/2x200x300	3418
12x160x250	3006	9/16x200x300	4021
12x200x300	3168	9/16x250x350	4262
13x200x300	3625	5/8x200x300	4021
14x160x250	3378	5/8x250x350	4304
14x200x300	3968	5/8x300x400	4501
15x200x300	4031	11/16x200x300	4995
15x300x400	4511	3/4x200x300	5303
16x200x300	4031	3/4x300x400	5646
16x300x400	4511	13/16x200x300	6687
17x200x300	4548	7/8x200x300	7926
18x200x300	5000	7/8x300x400	8097

19x200x300	5313	1x275x400	9761
20x200x300	5896	1x200x315	8689
20x300x400	6663	1-1/8x275x400	14840
22x200x300	6697		
25x200x315	8699		
25x275x400	9771		
26x275x400	12084		
28x175x400	13882		

HSS MACHINE JIG REAMERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Price Each Rs.	Dia mm	Price Each Rs.	Dia mm	Price Each Rs.
6	1713	21	5493	36	17053
7	1822	22	5493	37	18234
8	1822	23	5493	38	18234
9	1975	24	7078	39	18234
10	2253	25	7673	40	20964
11	2253	26	8580	41	20964
12	2584	27	8580	42	23425
13	3072	28	9325	43	23425
14	3072	29	10150	44	25741
15	3379	30	10150	45	27956
16	3379	31	11753	46	27956
17	3902	32	11753	47	30481
18	4372	33	13807	48	33152
19	4372	34	15902	49	33152
20	4769	35	15902	50	36860

HSS MAHINE JIG REAMERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Price Each Rs.	Dia mm	Price Each Rs.	Dia mm	Price Each Rs.
1/4	1713	5/8	3205	1.1/4	11299
9/32	1822	11/16	3802	1.5/16	13243
5/16	1822	3/4	4202	1.3/8	14767
11/32	1910	13/16	4609	1.7/16	16400
3/8	1910	7/8	5288	1.1/2	17543
13/32	2216	15/16	6779	1.5/8	18036
7/16	2216	1	7360	1.3/4	24270
15/32	2394	1.1/16	8258	1.7/8	29261
1/2	2450	1.1/8	8979	2	35466
9/16	2982	1.3/16	9779		

HSS SHELL REAMERS (TAPER HOLE 1 IN 30)



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Price Each Rs.	Dia mm	Price Each Rs.	Dia mm	Price Each Rs.
21, 22, 23	3546	48	7576	79	22820
24, 25	3546	49	7628	80	25019
26, 27	3758	50	7940	81	25019
28	4034	51	8714	82	25019
29	4227	52, 53, 54	8796	83	26728
30	4247	55,56	9654	84	26728
31	4418	57	9656	85	26988
32	4446	58,59	10827	86	28636
33	4669	60	10827	87	28636
34	4859	61	12961	88	28636
35	4913	62,63	13085	89	28910
36	5119	64	15053	90	33861
37	5317	65,66	15196	91	34199

38	5391	67	16674	92	34199
39,40	5660	68,69	16674	93	35402
41	5912	70	16674	94	35402
42, 43	6709	71	18356	95	35752
44	6807	72,73	18543	96	40969
45	7100	74,75	20154	97	40969
46	7100	76	20350	98	41279
47	7438	77,78	22599	99,100	45699

HSS SHELL REAMERS (TAPER HOLE 1 IN 96)



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Price Each Rs.	Dia mm	Price Each Rs.	Dia mm	Price Each Rs.
1	3556	1-11/16	6634	2-3/4	16500
1-1/16	3758	1-3/4	6771	2-7/8	18508
1-1/8	3998	1-13/16	7022	3	20144
1-3/16	4169	1-7/8	7259	3-1/8	22589
1-1/4	4418	1-15/16	7583	3-1/4	24800
1-5/16	4640	2	7858	3-3/8	26728
1-3/8	4859	2-1/8	8714	3-1/2	28636
1-7/16	5076	2-1/4	9492	3-5/8	33883
1-1/2	5299	2-3/8	10592	3-3/4	5402
1-9/16	5595	2-1/2	12961	3-7/8	40969
1-5/8	5842	2-5/8	15053	4	45268

HSS MACHINE BRIDGE REAMERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Price Each Rs.	Dia mm	Price Each Rs.	Dia mm	Price Each Rs.
6.4	1830	17.5	4889	28	9710
7.4	1830	18	5493	29	10484
8.4	2145	19	5493	30	10484
9.4	2422	20	6038	31	11551
10	2681	21	6711	32	11551
	-10		-20		-30
11	2681	21.5	6711	33	12431
11.5	3135	22	6711	34	13338
12	3135	23	7321	35	13338
13	3419	23.5	7321	36	14235
13.5	3419	24	7963	37	15177
	-10		-20		-30
14	3419	25	7963	40	24149
15	3968	26	8979	43	28586
17	4899	27	8979	49	38892

HSS MACHINE BRIDGE REAMERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Price Each Rs.	Dia mm	Price Each Rs.	Dia mm	Price Each Rs.
1/4	1789	11/16 MT3	4889	1.3/16	10063
5/16	2994	3/4	5493	1.1/4 MT3	11230
3/8	2280	13/16	5834	1.1/4 MT4	11551
7/16	2681	7/8	6711	1.5/16	11890
1/2	2899	15/16	7321	1.3/8	12748
			-20		-30
9/16	3419	1	7963	1.7/16	13627
5/8	3968	1.1/16	8667	1.1/2	15177
11/16 MT2	3993	1.1/8	9311		

HSS SOCKET REAMERS (ROUGHING /FINISHING)



PARALLEL SHANK/TAPER SHANK

Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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	2422	2877	3	5397	6756	5	18234	19587
1	2656	3035	4	8940	10654	6	32199	44906
2	3717	4510						

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



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Price Each Rs.		Dia mm	Price Each Rs.		Dia mm	Price Each Rs.	
	Hand	Machine		Hand	Machine		Hand	Machine
3	2265	2265	10	3395	3395	25	8474	8474
4	2265	2265	12	4106	4106	30	11413	11413
5	2265	2265	14	4609	4609	32	12543	12543
6	2265	2265	16	5133	5133	40	22453	22453
8	3069	3069	20	7995	7995	50	38935	38935

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



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Price Each Rs.		Dia mm	Price Each Rs.		Dia mm	Price Each Rs.	
	Hand	Machine		Hand	Machine		Hand	Machine
9/64	2110	-	9/32	2299	2299	1/2	3829	3829
5/32	2110	2110	5/16	2545	2545	9/16	4431	4431
11/64	2110	2110	11/32	2878	2878	5/8	4932	4932
3/16	2110	2110	3/8	2935	2935	3/4	6224	6224
7/32	2110	2110	13/32	3295	3295	7/8	7687	7687
1/4	2110	2110	7/16	3393	3393			

HSS TAPER SHANK COUNTER BORES



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia mm	Price Each Rs.	Dia mm	Price Each Rs.	Dia mm	Price Each Rs.
13.5	2815	28	9481	43	18319
14.5	3148	29	9995	46	20862
16.5	3615	31	10899	48	22648
17.5	3889	33	12490	51	25569
19.5	4594	34	13316	53	27781
			-20		-30
20	4816	36	14475	55	30584
22	5514	37	15085	57	33605
23	6331	39	16347	59	37240
25	7666	41	17729	61	41493
26	8498				

HSS TAPER SHANK COUNTER BORES



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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	1666	11/16	7/16	3879	1-1/4	3/4	10889
5/16	3/16	1897	3/4	1/2	4362	1-3/8	13/16	13306
3/8	7/32	2118	13/16	9/16	4839	1-1/2	7/8	15463
7/16	1/4	2191	7/8	5/8	5504	1-5/8	15/16	17728
1/2	5/16	2468	15/16	5/8	6473	1-3/4	1	20088
9/16	3/	3072	1	3/4	7656	1-7/8	1 1/8	22319
5/8	7/16	3430	1-1/8	3/4	9481	2	1 1/4	24647

HSS COUNTERSINKS TAPER SHANK (60 OR 90 Degrees)



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia inch	Price Each Rs.	Dia inch	Price Each Rs.	Dia inch	Price Each Rs.
1/2	1850	1-1/8	5747	2	17270
5/8	2460	1-1/4	7234	2-1/4	19581
3/4	2789	1-3/8	8458	2-1/2	24300
7/8	3524	1-1/2	10023	2-3/4	28681
1	4436	1-3/4	14821	3	34687

HSS CENTRE REAMERS (60 OR 90 degrees)



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia inch	Price Each Rs.	Dia inch	Price Each Rs.	Dia inch	Price Each Rs.
1/4	1116	1/2	1579	3/4	2638
3/8	1285	5/8	2150		

HSS GROUND THREAS HAND TAPS M C P (NON-SERIAL)

HSS GROUND THREAD MACHINE TAPS M C P



HSS GROUND TH READ NUT TAPS M C P

Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia & pitch mm	Price Each Rs.						
	Hand Tap	Short M/C Tap Spiral Flute	Hant tap SPPT Type B	Machine Tap		M/C Tap Long Shank Spiral Flute	Nut Tap
				Type A,C & D	Type B		
3x0.5	308	-	357				
4x0.7	308	-	357	634			
5x0.8	320	-	378	451	524		
6x1.0	328	333	378	489	573	592	643
7x1.0	421	-		531			739
8x1.25	381	390	444	531	630	651	739
9x1.25	465	-					
10x1.50	480	490	560	674	790	827	1008
11x1.50	740	-					
12x1.5	739	770	872	968	1143	1222	1584
14x2.00	1077	1127	1284	1420	1669	1883	2228
16x2.00	1077	1127	1284	1420	1669	1883	2228
18x2.50	1629	1702	1939	2083	2458	2725	3444
20x2.50	2144	2179	2480	2593	3032	3242	4618
22x2.50	2227	2331	2659	2880	3390	3822	4685
24x3.00	2503	2603	2971	3221	3792	4133	5332
25x3.00	2140	-	3627				6388
27x3.00	3846	-	4513	4973	5869		8226
30x3.50	4331	-	5055	5478	6464		10176
33x3.50	5288	-	6159	6425	7776		11240
36x4.00	7347	-	8582	8413			14563
39x4.00	8628	-	10082	10143			17387
42x4.50	10075	-	11756	11588			20717
45x4.50	13551	-	15844	15548			24997
48x5.00	14452	-	16900	17489			29255
52x5.00	18143	-	21216	20253			
56x5.50	25814			26065			
60x5.50	27218			30775			
64x6.00	28633			34731			
68x6.00	35731			48402			

HSS GROUND THREAS HAND TAPS M C P (NON-SERIAL)

HSS GROUND THREAD MACHINE TAPS M C P



HSS GROUND THREAD NUT TAPS M C P

Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia & pitch mm	Price Each Rs.					Nut Tap
	Hand Tap	Short M/C Tap Spiral Flute	Hand tap SPPT Type B	Machine Tap		
				Type A,C & D	Type B	
3x0.35	505	-	521	-	-	-
3.5x0.35	505	-	521	-	-	-
4x0.5	445		521	-	-	-
5x0.5	435		509	564	-	-
6x0.75	444	478	509	564	669	726
7x0.75	518		600	645	767	956
8x0.75	512		595	612	724	862
8x1.0	465	501	534	612	724	862
9x0.75	570		710	857	1068	-60
9x1.0	570		710	857	1068	862
10x0.75	646		782			
10x1.0	541	581	617	713	847	1155
10x1.25	541	581	617	761	797	1155
11x1.0	908		1174	1127	1300	
12x1.0	865		962	937		1848
12x1.25	865	905	962	1047	1237	1848
12x1.5	865	905	962	1047	1237	1848
14x1.0	1116		1322	1432	1694	2783
14x1.25	1146	1195	1356	1420	1669	2783
14x1.5	1077	1127	1284	1420	1669	2783
15x1.0	1313			1525	1782	
15x1.5	1116			1420	1653	
16x1.0	1116		1322	1525	1782	2783
16x1.5	1077	1127	1284	1420	1669	2783
18x1.0	2030		2260	2509	3013	3962
18x1.5	1894	1945	2060	2403	2830	3962
18x2.0	1894	2133	2260	2403	2830	3962
20x1.0	2515		3015	3144	3832	
20x1.5	2354	2459	2607	3144	3713	5094
20x2.0	2354	2642	3015	3144	3713	5094
22x1.0	2848		3304	3144	4041	
22x1.5	2559	2685	2847	3144	3844	5412
22x2.0	2559	2897	3304	3144	3844	5412
24x1.0	2899		3118	3649	4509	
24x1.5	2899	2944	3118	3649	4295	6447

24x2.0	2899	3147	3594	3649	4295	6447
25x1.5	3205		3827	4762	5618	7255
25x2.0	3205			4762	5618	
26x1.5	3222			4699	5542	
26x2.0	3222			4699	5542	
27x1.5	4307		5025	5628	6639	9162
27x2.0	4307		5025	5628	6639	
28x1.5	4307			6084	7135	11424
28x2.0	4307			6084	7135	
30x1.0	4860			6520	7664	
30x1.5	4860		5655	6337	7473	11424
30x2.0	4860		5655	6337	7473	11424

HSS GROUND THREAD HAND TAPS M F P (NON-SRIAL)

HSS GROUND THREAD MACHINE TAPS M F P

HSS GROUND THREAD NUT TAPS M E P



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia & Pitch mm	Price Each Rs.					Nut Tap
	Hand Tap	Short M/C Tap Spiral Flute	Hand Tap SPPT Type B	Machine Tap		
				Type A, C & D	Type B	
30 x 3.0	4860	-	5655	6337	7473	-
32 x 1.5	5114	-	-	7009	8364	-
32 x 2.0	5114	-	-	7009	8364	-
33 x 1.5	5926	-	-	7674	9103	12681
33 x 2.0	5926	-	-	7674	9103	12681
33 x 3.0	5926	-	-	7674	9103	-
35 x 1.5	8218	-	-	10681	-	-
36 x 1.5	8218	-	-	10681	-	-
36 x 2.0	8218	-	-	10681	-	-
36 x 3.0	8218	-	-	10681	-	-
39 x 1.5	10265	-	-	12984	-	-
39 x 2.0	10265	-	-	12984	-	-

39 x 3.0	10265	-	-	12984	-	-
40 x 1.5	10371	-	-	13979	-	-
40 x 2.0	10879	-	-	13979	-	-
40 x 3.0	11379	-	-	13979	-	-
42 x 1.5	11379	-	-	14747	-	-
42 x 2.0	11379	-	-	14747	-	-
42 x 3.0	11379	-	-	14747	-	-
42 x 4.0	11379	-	-	14747	-	-
45 x 1.5	15784	-	-	20590	-	-
45 x 2.0	15784	-	-	20590	-	-
45 x 3.0	15784	-	-	20590	-	-
45 x 4.0	15784	-	-	20590	-	-
48 x 1.5	16446	-	-	21335	-	-
48 x 2.0	16446	-	-	21335	-	-
48 x 3.0	16446	-	-	21335	-	-
48 x 4.0	16446	-	-	21335	-	-
50 x 1.5	18133	-	-	24841	-	-
50 x 2.0	18133	-	-	24841	-	-
50 x 3.0	18133	-	-	24841	-	-
52 x 1.5	20435	-	-	26523	-	-
52 x 2.0	20435	-	-	26523	-	-
52 x 3.0	20435	-	-	26523	-	-
52 x 4.0	20435	-	-	26523	-	-

HSS GROUND THREAD HAND TAPS

BSW, BSF, UNC, UNF FORM



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia Inch	M.O.Q.				Price Each Rs.
	BSW	BSF	UNC	UNF	
3/16	150	150			320
1/4	150	150	150	150	328
5/16	100	100	100	100	381
3/8	100	100	100	100	456
7/16	100	100	100	100	591
1/2	100	100	100	100	747
9/16	100	100	100	100	1089
5/8	100	100	100	100	1089

11/16	35	35	35	35	1656
3/4	35	35	35	35	1656
13/16	35	35	35	35	1956
7/8	35	35	35	35	2251
1	20	20	20	20	2899
1.1/8	20	20	20	20	3935
1.1/4	20	20	20	20	4743
1.3/8	20	20	20	20	6123
1.1/2	20	20	20	20	7347
1.5/8	10	10	10	10	8614
1.3/4	10	10	10	10	10078
2	10	10	10	10	14452
2.1/4	5	5	5	5	21602
2.1/2	5	5	5	5	28355
2.3/4	3	3	3	3	35388
3	3	3	3	3	47493

HSS GROUND THREAD NUT TAPS

BSW, BSF, UNC, UNF FORM



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size Inch	Price each Rs.	Size Inch	Price each Rs.	Size Inch	Price each Rs.
1/4	703	5/8	2278	1.1/4	10304
5/16	799	11/16	2943	1.3/8	12387
3/8	981	3/4	3494	1.1/2	14867
7/16	1319	7/8	4735	1.3/4	20918
1/2	1644	1	6176	2	29554
9/16	2288	1.1/8	8337		

HSS GROUND THREAD HAND TAPS

BSP (PARALLEL)

BSP (TAPER) (RC-SERIES)

NPT, NPS, NPSF & NPTF



BS CONDUIT (ZONE-3)

Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Dia Inch	Price Each Rs.						
	BSP (P)	NPS	NPSF	BSPT	NPT	BS CON	NPTF
1/16	-	-	-	-	634	-	614
1/8	484	566	680	616	634	-	724
1/4	759	994	1210	1143	1193	-	1429
3/8	1120	1230	1469	1544	1604	-	1765
1/2	1640	1786	2148	2262	2355	968	2603
		-	-				
5/8	1861	-				1507	
3/4	2617	2770	3300	3622	3773	1989	4048
7/8	3253	-					
1	4138	4682	5599	5653	5919	3124	6336
1.1/4	6217	7247		8108	8489	4568	9367
1.1/2	7750	9048		10063	10525	7339	
1.3/4	11896	-					
2	13927	16187		18196	19052	12437	
2.1/4	23994				-		
2.1/2	34532			53497	56027		
2.3/4	38811				-		
3	43753			69743	73059		
3.1/2	57494			91686	96004		
4	72349			115257	120729		

HSS TOOL HOLDER BITS SQUARE



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size	Price Each Rs.					
Inch	mm	M 2	M 35	M 42	T 42	T 42-C
3/16x3	5x75	116	206	264	270	273
3/16x4	5x100	156	310	402	412	425
3/16x6	5x150	246	582	892	932	945
1/4x3	6x75	135	266	365	375	388
1/4x4	6x100	161	370	496	515	527
1/4x6	6x150	233	615	830	867	887
1/4x8	6x200	340	1032	1430	1496	1559
5/16x3	8x75	149	13	481	498	522
5/16x4	8x100	199	494	669	694	730
5/16x6	8x150	334	802	1095	1139	1205
5/16x8	8x200	428	1152	1559	1633	1734
3/8x3	-	194	414	574	598	631
3/8x4	-	233	562	770	803	860
3/8x6	-	368	900	1257	1312	1390
3/8x8	-	510	1288	1796	1882	1997
3/8x10	-	656	1713	2389	2505	2660
-	10x75	212	455	628	652	691
-	10x100	256	615	857	650	944
-	10x150	402	974	1359	1418	1498
-	10x200	563	1380	1920	2012	2134
-	10x250	718	1830	2550	2669	2831
1/2x3	12x75	290	668	955	1000	1031
1/2x4	12x100	368	900	1257	1314	1399
1/2x6	12x150	571	1395	1991	2091	2176
1/2x8	12x200	755	1961	2792	2929	3054
1/2x10	12x250	1153	2753	3854	4050	4286
5/8x4	16x100	594	1497	2138	2241	2324
5/8x6	16x150	879	2261	3147	3303	3507
5/8x8	16x200	1192	3097	4422	4651	4820
3/4x4	-	823	2090	2950	3097	3254
3/4x6	-	1209	3142	4341	4564	4901
3/4x8	-	1659	4219	5963	6265	6591
-	20x100	900	2280	3220	3382	3546
-	20x150	1319	3423	4841	5087	5349
-	20x200	1804	4571	6466	6804	7146
1x6	25x150	2047	5233	7309	7688	8154
1x8	25x200	2785	6984	9755	10255	10899

M35 HSS PARALLEL SHANK TWIST DRILLS JOBBER SERIES



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size			Price per 10 Nos. (Rs.)	Size			Price per 10 Nos. (Rs.)
mm	inch	WG/LG		mm	inch	WG/LG	
1			470	(4.30)		No.18	1199
1.1			470	(4.37)	11/64		1199
(1.19)	3/64		470	(4.39)		No.17	1199
1.2			470	4.40			1199
1.2			470	(4.50)		No.16	1566
1.4			470	4.50			1566
1.5			470	(4.57)		No.15	1566
(1.59)	1/16		470	4.60			1566
1.6			470	(4.62)		No.14	1566
1.7			494	4.70		No.13	1566
1.8			494	(4.76)	3/16		1566
1.9			494	(4.80)		No.12	1566
(1.98)	5/64		494	(4.85)		No.11	1704
2			494	4.90			1704
2.1			494	(4.92)		No.10	1704
2.2			494	(4.98)		No.9	1704
2.3			494	5.00			1704
(2.38)	3/32		494	(5.06)		No.8	1704
2.4			494	5.10			1704
2.5			494	(5.11)		No.7	1704
2.6			494	(5.16)	13/64		1704
2.7			494	(5.18)		No.6	1704
(2.78)	7/64		500	5.20			1704
2.8			500	(5.22)		No.5	1840
2.9			500	5.30			1841
3.00			568	(5.31)		No.4	1840
(3.05)		No.31	672	5.40			1841
3.10			672	(5.41)		No.3	1840
(3.17)	1/8		672	5.50			1840
3.20			694	(5.56)	7/32		1840
(3.26)		No.30	694	5.60			1841
3.30			694	(5.61)		No.2	2071
3.40			694	5.70			2072
(3.45)		No.29	694	(5.79)		No.1	2071
3.50			694	5.80			2072
(3.57)		No.28	694	5.90			2072
(3.57)	9/64		694	(5.94)		A	2071
3.60			988	(5.95)	15/64		2071
(3.66)		No.27	988	6.00			2071
3.70			988	(6.04)		B	2057

(3.73)		No.26	988	6.10			2057
(3.80)		No.25	988	(6.15)		C	2057
3.80			988	6.20			2057
(3.86)		No.24	988	(6.25)		D	2057
3.90			988	6.30			2058
(3.91)		No.23	988	(6.35)	1/4	E	2057
(3.97)	5/32		988	6.40			2058
(3.99)		No.22	988	6.50			2885
4.00			988	(6.53)		F	2885
(4.04)		No.21	1199	6.60			2886
(4.09)		No.20	1199	(6.63)		G	2885
4.10			1199	6.70			2886
4.20			1199	(6.75)	17/64		2885
(4.22)		No.19	1199	(6.75)		H	2885
4.30			1199	6.80			2885

M35 HSS PARALLEL SHANK TWIST DRILLS JOBBER SERIES



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size			Price per 10 Nos. (Rs.)	Size			Price per 10 Nos. (Rs.)
mm	inch	WG/LG		mm	inch	WG/LG	
6.90			3172	(9.58)		V	6002
(6.90)		I	3170	9.60			6006
7.00			3170	9.70			6006
(7.03)		J	3170	9.80			6006
7.10			3172	(9.80)		W	6002
(7.14)		K	3170	9.90			6723
(7.14)	9/32		3170	(9.92)	25/64		6721
7.20			3170	10.00			6721
7.30			3348	(10.08)		X	6721
(7.37)		L	3347	(10.10)			6723
7.40			3348	10.20			6721
(7.49)		M	3347	(10.26)		Y	7284
7.50			3347	10.30			7287
(7.54)	19/64		3624	(10.32)	13/32		7284

7.60			3625	10.40			7287
(7.67)		N	3624	(10.49)		Z	7284
7.70			3625	10.50			7284
7.80			3624	10.60			7287
7.90			3625	10.70			7718
(7.94)	5/16		3979	(10.72)	27/64		7714
8.00			3979	10.80			7714
(8.03)		O	3979	10.90			7718
8.10			3982	11.00			7714
(8.20)		P	3979	11.10			8617
8.20			3982	(11.11)	7/16		8613
8.30			4826	11.20			8617
(8.33)	21/64		4824	11.30			8617
8.40			4826	11.40			8617
(8.43)		Q	4824	11.50			9085
8.50			4824	(11.51)	29/64		9085
8.60			4826	11.60			9089
(8.61)		R	4824	11.70			9089
8.70			4826	11.80			889
(8.73)	11/32		5082	11.90			9709
8.80			5082	(11.91)	15/32		9704
(8.84)		S	5082	12.00			9704
8.90			5085	12.10			9709
9.00			5082	12.20			9709
(9.09)		T	5303	12.30			10299
9.10			5305	(12.30)	31/64		10294
(9.13)	23/64		5303	12.40			10299
9.20			5303	12.50			10294
9.30			5305	12.60			10299
(9.34)		U	5303	(12.70)	1/2		10871
9.40			5305	12.80			10871
9.50			5303	12.90			10877
(9.52)	3/8		6012	13.00			10871

HSS PARALLEL SHANK END MILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size		Price Each		Size		Price Each	
mm	inch	M24 CC	M42 CCTC	mm	inch	M24 CC	M42 CCTC
3		1126	1316	31		8570	10081
(3.17)	1/8	1126	1316	(31.75)	1.1/4	8570	10081
(3.97)	5/32	1126	1316	32		8570	10081
4		1126	1316	33		8570	10081
(4.76)	3/16	1126	1316	34		8570	10081
5		1126	116	(34.92)	1.3/8	8570	10081
(5.56)	7/32	1126	1316	35		8570	10081
6		1126	1316	36		8570	10081
(6.35)	1/4	1126	1316	37		9240	10860
7		1272	1485	38		9848	11580
(7.14)	9/32	1272	1485	(38.10)	1.1/2	9848	11579
(7.94)	5/16	1272	1485	39		10246	12052
8		1272	1485	40		10891	12807
9		1272	1485	41		13897	16346
(9.52)	3/8	1272	1485	(41.27)	1.5/8	13897	16346
10		1272	1485	42		13897	16346
11		1470	1721	43		13897	16346
(11.11)	7/16	1470	1721	44	-		
12		1516	1777	(44.45)	1.3/4	13897	16346
(12.70)	1/2	1516	1777	45		13897	16346
13		1875	2199	46		15328	18026
14		1875	2199	47		15328	18026
(14.29)	9/16	1875	2199	(47.62)	1.7/8	15328	18026
15		2194	2568	48		15328	18026
(15.87)	5/8	2194	2568	49		15328	18027
16		2194	2568	50		16820	19781
17		2676	3137	(50.8)	2	16782	19738
(17.46)	11/16	2676	3137	51		14008	16477
18		2676	3137	52		30545	35931
19		2676	3137	(52.39)	2-1/16	36658	43125
(19.05)	3/4	2676	3137	53		30545	35931
20		2965	3480	(53.97)	2-1/8	36658	43125
(20.64)	13/16	3359	3949	54		30545	35931
21		3359	3950	55		30545	35931
22		3359	3950	(55.56)	2-3/16	36658	43125
(22.22)	7/8	3359	3949	56		30545	35931
23		3638	4274	57		30545	35931
(23.81)	15/16	3916	4597	(57.15)	2-1/4	36658	43125
24		3916	4597	58		30545	35931
25		3916	4597	(58.74)	2-5/16	36658	43125

(25.40)	1	3916	4597	59		30545	35931
26		3953	4644	60		30545	35931
27		5432	6385	(60.32)	2-3/8	36658	43125
28		5432	6385	61		34978	41148
(28.57)	1-1/8	5432	6385	62		34978	41148
29			6385	63		34978	41148
30		5977	7022	(63.50)	2-1/2	41979	49385

HSS PARALLEL SHANK ROUGHING END MILLS

WITH GROUND RELIEVED CHIP BREAKER GROOVES



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size		Price Each			
mm	inch	M42	M42 TC	M42CC	M42CCTC
(9.52)	3/8	2533	2976	2769	2926
10		2533	2976	2769	3253
11		2719	3192	2970	3291
(11.11)	7/16	3142	3683	3433	3630
12		2792	3275	3052	3585
(12.70)	1/2	3142	3683	3433	3130
13		3320	3896	3628	4265
14		3320	3896	3628	4265
(14.29)	9/16	3320	3896	3628	4056
15		4105	4826	4498	5284
(15.87)	5/8	4105	4826	4498	5031
16		4105	4826	4498	5284
17		4804	5640	5267	6185
(17.46)	11/16	4804	5641	5267	5892
18		4804	5641	5267	6185
19		4804	5641	5267	6185
(19.05)	3/4	4804	5641	5267	5892
20		4804	5641	5267	6185
(20.64)	13/16	5208	6116	5711	6390

21		5208	6116	5711	6713
22		5208	6116	5711	6713
(22.22)	7/8	5208	6116	5711	6390
23		5723	6722	6274	7376
(23.81)	15/16	5723	6722	6274	7020
24		5723	6722	6274	7376
25		5723	6722	6274	7376
(25.40)	1	5723	6722	6274	7020
26		6145	7219	6553	7706
27		8413	9889	8978	10564
28		8413	9889	8978	10564
(28.57)	1.1/8	8413	9889	8978	10050
211		8413	9889	8978	10564
30		8413	9889	8978	10564
31		11547	13572	12332	14505
(31.75)	1.1/4	12097	14222	12924	14468
32		11547	13572	12332	14505
33		11547	13572	12332	14505
34		11547	13572	12332	14505
(34.92)	1.3/8	12097	14222	12924	14468
35		11547	13572	12332	14505
36		11547	13572	12332	14505
37		14570	17130	15568	18309
38		14570	17130	15568	18309
(38.10)	1.1/2	14570	17130	15568	17431
39		14570	17130	15278	17969

Size		Price Each			
mm	inch	M42	M42 TC	M42CC	M42CCTC
40		14570	17130	15278	17969
41		18117	21306	19002	22353
(41.27)	1.5/8	18117	21306	19002	21275
42		18117	21306	19002	22353
43		18117	21306	19002	22353
44		18117	21306	19002	22353
(44.45)	1.3/4	18117	21306	19002	21275
45		18117	21306	19002	22353
46		21586	25388	22645	26635
47		21586	25388	22645	26635
(47.62)	1.7/8	21586	25388	22645	25355
48		21586	25388	22645	26635
49		21586	25388	22645	26635
50		21586	25388	22645	26635
(50.08)	2	21586	25388	22645	25355
51		21586	25388	22645	26635

52		41893	49281	43968	51722
(52.39)	2.1/16	41893	49279	43969	49240
53		41893	49281	43968	51722
(53.97)	2.1/8	41893	49279	43969	49240
54		41893	49281	43968	51722
55		41893	49281	43968	51722
(55.56)	2.3/16	41893	49279	43969	49240
56		41893	49281	43968	51722
57		41893	49281	43968	51722
(57.15)	2.1/4	41893	49279	43969	49240
58		41893	49281	43968	51722
(58.74)	2.5/16	41893	49279	43969	49240
59		41893	49281	43968	51722
60		41893	49281	43968	51722
(60.32)	2.3/8	48928	57558	51358	57515
61		48928	57558	51358	60414
62		48928	57558	51358	60414
63		48928	57558	51358	60414
63.50	2-1/2	48928	57558	51358	57515

HSS PARALLEL SHANK ROUGHING END MILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size		Price Each				
mm	inch	M2	M35	M2 LS	M35 LS	M42LS
(9.52)	3/8	2252	2380	-	-	-
10		2252	2385	3105	3281	3823
11		2252	2487	3105	3378	3936
(11.11)	7/16	2252	2380			
12		2311	2542	3282	3558	4143
(12.70)	1/2	2311	2440			
13		2605	3008			
14		2726	3008	3815	4661	5125
(14.29)	9/16	2726	3042			
15		3413	3746			
(15.87)	5/8	3413	3813			
16		3413	3746	4642	5044	6226
17		3236	3825			
(17.46)	11/16	3322	3711			
18		3413	3825	4827	5330	6567
19		3410	3825			

(19.05)	3/4	3410	3810			
20		3870	4666	5639	6718	8278
(20.64)	13/16	4077	4326			
21		4133	4666			
22		4133	4666	5977	6718	8278
(22.22)	7/8	4301	4621			
23		4301	5092			
(23.81)	15/16	4301	4809			
24		4482	5092			
25		4482	5092	6701	7556	9309
(25.40)	1	4857	5810			
26		5325	5495			
27		5828	6704			
28		5828	6704	8311	9549	11764
(28.57)	1.1/8	5824	6511			
211		5824	6704			
30		6475	7867			
31		6803	7867			
(31 .75)	1.1/4	6803	7328			
32		6803	7867			
33		7820	9557			
34		8284	9557			
(34.92)	1.3/8	8284	9269			
35		8284	9557			
36		8755	11455			
37		9426	11455			
38		9853	11455			
(38.10)	1.1/2	9209	10306			
39		10512	12769			

Size		Price Each				
mm	inch	M2	M35	M2 LS	M35 LS	M42LS
40		10974	12769			
41		10974	14606			
(41.27)	1.5/8	10974	12258			
42		12555	14606			
43		12555	14606			
44		13518	15825			
(44.45)	1.3/4	13518	15132			
45		13518	15825			
46		13518	17541			
47		14997	17541			
(47.62)	1.7/8	14997	1789			
48		14997	17541			
49		14997	18812			
50		16013	18812			
(50.08)	2	16013	17928			
51		16013	18812			
52		18893	31666			
(52.39)	2.1/16	18893	21153			
53		18893	31666			
(53.97)	2.1/8	21399	23957			
54		21399	31666			
55		24743	31666			
(55.56)	2.3/16	24743	27703			
56		24743	31666			
57		26359	31666			
(57.15)	2.1/4	26359	29517			
58		28105	37067			
(58.74)	2.5/16	28105	31468			
59		28105	37067			
60		29763	37067			
(60.32)	2.3/8	29763	33323			
61		29763	37067			
62		30220	37067			
63		30723	37067			
63.50	2-1/2	30723	34402			

CARBIDE TIPPED STRAIGHT SHANK/ TAPER SHANK DRILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

SIZE		Price Each (Rs.)		SIZE		Price Each	oh (Rs.)
mm	Inch	Straight Shank Drill	Taper Shank Drill	mm	Inch	Straight Shank Drill	Taper Shank Drill
3.0		580	-		17/32	1475	2403
	1/8	580	-	14.0		1475	2403
3.5		599	-		9/16	1475	2403
	9/64	599	-	15.0		1653	2553
	5/32	601	-		19/32	1653	2553
4.0		601	-		5/8	1905	2764
	11/64	601	-	16.0		1905	2764
4.5		601	-		21/32	2003	2975
	3/16	658	-	17.0		2003	2975
5.0		658	-		11/16	2003	2975
	13/64	658	-	18.0		2206	3236
5.5		666	-		23/32	2206	3236
	7/32	666	-	19.0		2518	3461
	15/64	701	-		3/4	2518	3985
6.0		701	-		25/32	2856	3985
	1/4	713	-	20.0		2856	3985
6.5		713	-		13/16	4127	4127
	17/64	726	--	21.0		4127	4127
7.0		773			27/32		4127
	9/32	773	-	22.0		-	4325
7.5		792	-		7/8	-	4325
	19/64	792	-	23.0		--	4568
	5/16	792			29/32		4568
8.0		792			15/16		4795
	21/64	818	-	24.0		-	4795
8.5		818	-		31/32	-	4971
	11/32	845	-	25.0		-	4971
9		845	-		1	--	6113
	23/64	903	-	26.0		-	6113
9.5		903			1.1/32		6113
	3/8	908	1574		1.1/16		6313
	25/64	908	1574	27.0			6313
10.0		908	1574		1.3/32	-	6648
	13/32	985	1763	28.0		-	6648
10.5		985	1763		1.1/8		6898
	27/64	999	1763	29.0		--	6898
11.0		999	1763		1.5/32		6898
	7/16	1036	1929	30.0		-	7101
11.5		1036	1929		1.3/16	-	7101
	29/64	1036	1929				
	15/32	1119	1929				
12.0		1119	1929				
	31/64	1244	2097				
	1/2	1244	2097				
13.0		1244	2097				

CARBIDE TIPPED CORE DRILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

SIZE		Price Eacll	SIZE		Price Each	SIZE		Price Eacll
mm	Inch	(Rs.)	mm	Inch	(Rs.)	mm	Inch	(Rs.)
12.0		4064	19.0		5288		1	5806
	1/2	4064		3/4	5288	26.0		5806
13.0		4064		25/32	5508		1.1/32	5806
	17/32	4241	20.0		5508	27.0		5806
14.0		4578		13/16	5508		1.1/16	5806
	9/16	4578	21.0		5508		1.3/32	5953
15.0		4578		27/32	5508	28.0		5953
	19/32	4578	22.0		5508		1.1/8	6038
	5/8	4737		7/8	5508		1.5/32	6038
16.0		4737	23.0		5508	30.0		6038
	21/32	4737		29/32	5508		1.3/16	6038
17.0		4737		15/16	5816		1.7/32	6215
	11/16	4737	24.0		5816		1.1/4	6215
18.0		5298		31/32	5816	32.0		6215
	23/32	5298	25.0		5816			

CARBIDE TIPPED SHELL CORE DRILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

SIZE		Price Each	SIZE		Price Each	Size		Price Each
mm	Inch	(RS.)	mm	Inch	(RS)	mm	Inch	(RS.)
	1.1/4	5345	45.0		5718		2.3/4	8076
32.0		5345	46.0		5963	71.0		8580
33.0		5345		1-13/16	5963		2.7/8	8580
	1.5/16	5345	47.0		5963	76.0		8837
34.0		5345		1.7/8	5963		3	8837
	1.3/8	5345	48.0		5963	77.0		8837
35.0		5345	49.0		5963	78.0		8837
36.0		5456		1-15/16	5963		3.1/8	8837
	1.7/ 16	5456	50.0		5963		3.1/4	8837
37.0		5456		2	6225		3.3/8	9066

38.0		5518	51.0		6225	86.0		9066
	1.1/2	5518	52.0		6225	87.0		9066
39.0		5518		2.1/8	6225		3.1/2	9066
	1.9/16	5518	56.0		6503	91.0		9583
40.0		5518	57.0		6503	92.0		9583
41.0		5728		2.1/4	6503		3.5/8	9583
	1.5/8	5728		2.3/8	6503	93.0		9583
42.0		5728	61.0		8086	94.0		9583
	1.11/ 16	5728		2.1/2	8086		3.3/4	9583
43.0		5728	66.0		8086		3.7/8	9583
44.0		5728		2.5/8	8086		4	9583
	1.3/4	5728	67.0		8086			

CARBIDE TIPPED ST SHANK REAMERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

SIZE		Price Each (Rs.)	SIZE		Price Each (Rs)
mm	Inch		mm	Inch	
6.0		3110		3/8	3325
	1/4	3110	10.0		3325
7.0		3110		13/32	3325
	9/32	3110	11.0		3325
	5/16	2896		7/16	3325
8.0		2896		15/32	3665
	11/32	2896	12.0		3665
9.0		2896		1/2	3665

CARBIDE TIPPED TAPER SHANK REAMERS

Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

SIZE		Price Each (Rs.)	SIZE		Price Eaeh (Rs.)	SIZE		Price Each (Rs.)
mm	InCh		mm	Inch		mm	Inch	
6.0	1/4	3110	15.0		3848			6245
		3110		19/32	4368	24.0		6245
7.0		3110		5/8	4368			6245
	9/32	3110	16.0		4368	25.0		6245
	5/16	2896		21/32	4368		1	6245
8.0		2896	17.0		4368	26.0		6245
	11/32	2896		11/16	4368			6363
9.0		2896	18.0		4368			6363
	3/8	3335		23/32	4368	27.0		6363
10.0		3335	19.0		4368			6363
	13/32	3335		3/4	4368	28.0		6363
11.0		3335		25/32	4368			6363
	7/16	3335	20.0		4368	29.0		6363
	15/32	3675		13/16	4368			6416
12.0		3675	21.0		4863	30.0		6416
	1/2	3675		27/32	4863			6416
13.0		3675	22.0		4863			6416
	17/32	3858		7/8	4863	31.0		6416
14.0		3858	23.0		4863			6416
	9/16	3858		29/32	4931	32.0		6416

CARBIDE TIPPED SHELL REAMERS

Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

SIZE		Price Eacn (Rs.)	SIZE		Price Eacn (Rs.)	SIZE		Price Eacn (Rs.)
mm	Inch		mm	Inch		mm	Inch	
19.0		5298		1.3/16	8045	42.0		9890
	3/4	5298		1.1/4	8045		1.11/ 16	9890
	13/16	5789	32.0		8045	43.0		9890
21.0		5789	33.0		8045	44.0		9890
22.0		5789		1.5/16	8068		1.3/4	9890
	7/8	5789		1.3/8	8425		1.13/ 16	9890
	15/16	5826	35.0		8425	47.0		10288

24.0		5826	36.0		8425		1.7/8	10288
25.0		6773		1.7/16	8425	48.0		10288
	1	6773	38.0		8496	49.0		10288
	1.1/16	6810		1.1/2	8496		1-15/ 16	10288
27.0		6810	39.0		8496	50.0		10288
	1.1/8	8055		1.9/16	8496		2	10288
29.0		8055	41.0		9900			
30.0		8055		1.5/8	9900			

CARBIDE TIPPED ST SHANK ENDMILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)
mm	Inch		mm	Inch		mm	Inch	
	5/16	2307	12.0	1/2	2451		3/4	3017
8.0		2307			2451	20.0		3917
	3/8	2313		5/8	2593			
10.0		2313	16.0		2593			

CARBIDE TIPPED TAPER SHANK END MILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)
mm	Inch		mm	Inch		mm	Inch	
12.0		3037		3/4	3533		1-1/4	5806
	1/2	3037	20.0		3533	32.0		5806
	5/8	3163	25.0		3603		1-1/2	7027
16.0		3163		1	3603	40.0		7027

CARBIDE TIPPED ST SHANK SLOT DRILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)	SIZE		Price Each (Rs.)
mm	Inch		mm	Incn		mm	Inch	
	5/16	1939	12.0		2140	16.0		2965
8.0		1939		1/2	2140		11/16	3000
	3/8	1996	14.0		2496	18.0		3000
10.0		1996		9/16	2496		3/4	3046
	7/16	2150		5/8	2975	20.0		3046

CARBIDE TIPPED SIDE AND FACE CUTTERS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

Size		Price Each (Rs.)	Size		Price Each (Rs.)
Dia X width mm	Dia X width inch		Dia X width mm	Dia X width inch	
80X6.0	3X1/4	7595	100X12	4X1/2	9533
80X8.0	3X5/16	7865	100X16	4X5/8	10275
80X10	3X3/8	8063	125X12	5X1/2	10720
100X8.0	4X5/16	8780	125X14	5X9/16	11563
100X10	4X6/8	9070	125X16	5X5/8	11930

CARBIDE FACE MILLING CUTTER



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

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		4500	80		6031
	2-1/2	4500	100		9319
	3	6041		4	9319

CARBIDE TIPPED TAPER SHANK DRILLS



Also available in HSS grade, M35, M42, T42, ASP 30, ASP 60, ASP 90 with coating like TiN, TiAlN, TiCN, and in coolant fed design

SIZE						
Dia (mm)	Dia (Inch)	FL(mm)	OAL (mm)	MT No.	MOO Nos.	Price Each
3		20	110	1	25	1584
	1/8	25	115	1	25	1584
3.5	9/64	25	115	1	25	1584
4	5/32	25	115	1	25	1584
4.5	11/64	28	118	1	25	1584
5	3/16	28	118	1	25	1584
5.5	13/64	32	122	1	25	1584
	7/32	32	122	1	25	1584
6	15/64	32	122	1	25	1584
	1/4	32	122	1	25	1584
6.5		32	122	1	25	1584
	17/64	40	130	1	25	1584
	9/12	40	130	1	25	1584
7.5	19/64	40	130	1	25	1584
8	5/16	40	130	1	25	1584
8.5	21/64	50	140	1	25	1584
9	11/32	50	140	1	25	1584
	23/64	50	140	1	25	1584
9.5	3/8	50	140	1	25	1584
	25/64	50	140	1	25	1584
31	1.7/32	125	275	4	15	7738
32	1. 1/4	125	275	4	15	8069
33		125	275	4	15	8435
34	1.5/16	125	275	4	15	8729
35	1.3/8	125	275	4	15	8978
36		125	275	4	15	9274
37	1.7/16	125	275	4	15	8937
38	1.1/2	125	275	4	15	9860
39		125	275	4	10	10045
40	1.9/16	125	275	4	10	10253
41		125	275	4	10	10485
42	1.5/8	125	275	4	10	10782
43	1.13/16	125	275	4	10	11082
44		125	275	4	10	11371
45	1.3/4	125	275	4	10	11655
46	1 13/16	125	275	4	10	12006
47		125	275	4	10	12006
48	1.7/8	125	275	4	10	12183
49	1.15/16	125	275	4	10	12396
50		125	275	4	10	12601
	2	125	275	4	10	12821

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