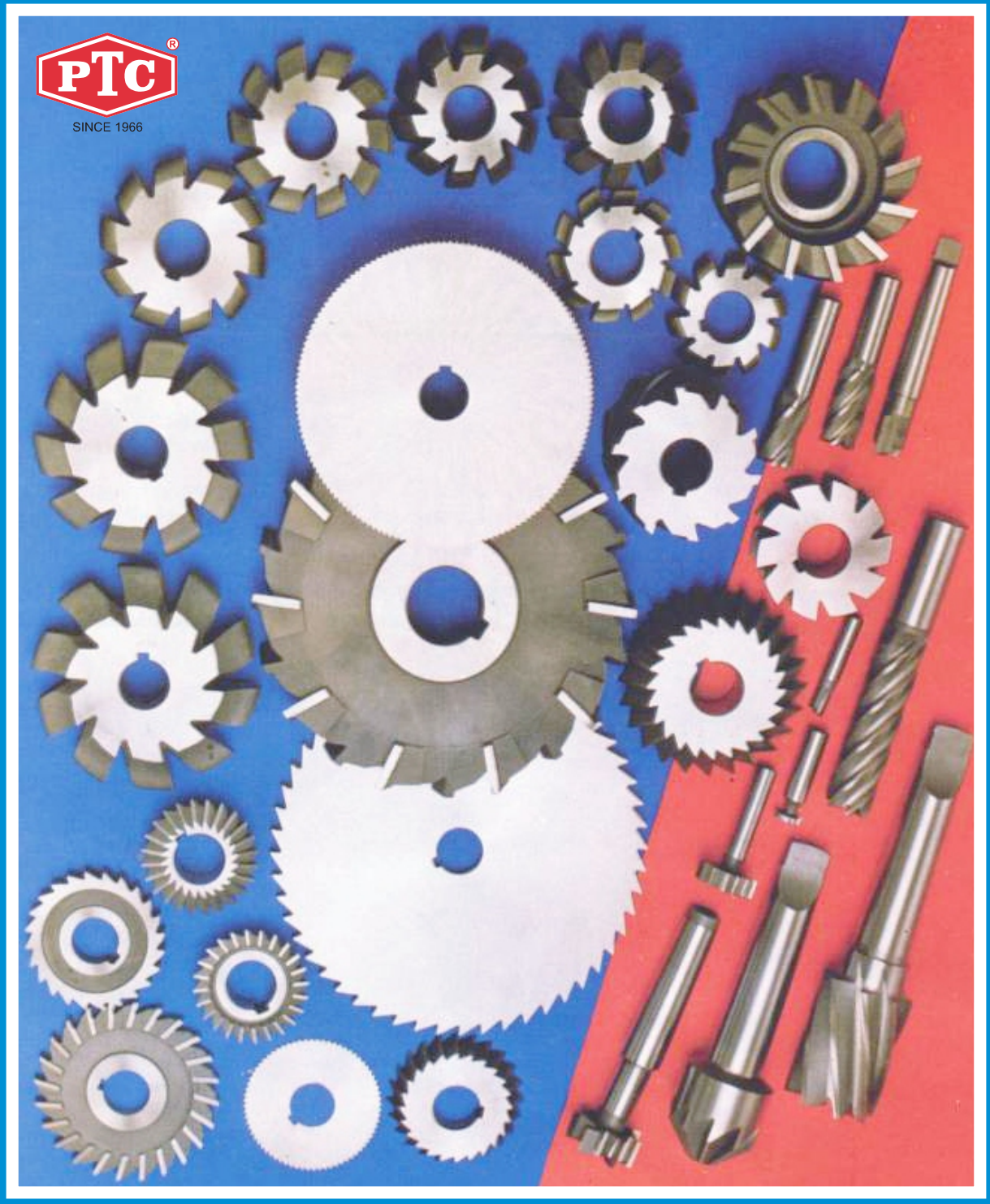


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High Speed Steel Slitting Saws Coarse & Fine Teeth

H.S.S. Metal Slitting Saws-Standard (Coarse) Teeth-With Keyways

As per BS: 122-1953- Part I

Dia	Dia in MM	No. of Teeth									
			1/16"	3/32"	1/8"	5/32"	3/16"	1/4"			
Inches			1mm	1.50mm	2mm	2.5mm	3mm	3.50mm	4mm	5mm	6mm
3"	75	28	275	301	316	330	386	523	660	709	793
	80mm	30	330	434	488	542	594	640	688	756	813
3.1/2	90	32	439	499	547	596	689	739	789	858	1044
4"	100	34	550	694	829	965	1158	1248	1336	1463	1896
5	125	40	1280	1502	1542	1583	1703	1959	2216	2601	2875
6	150	44	1472	1747	1890	2034	2375	2765	3156	3559	3896
7	180	48	4829	4829	5058	5374	5848	5979	6361	6949	7098
8	200	52	6470	6470	6733	7021	7559	7899	8484	9325	10163

H.S.S. Metal Slitting Saws-Fine Teeth-With Keyways

As per BS: 122-1953- Part I

Dia	Dia in MM	No. of Teeth									
			1/16"	3/32"	1/8"	5/32"	3/16"	1/4"			
Inches			1mm	1.50mm	2mm	2.5mm	3mm	3.50mm	4mm	5mm	6mm
3"	75	28	275	301	316	330	386	523	660	709	793
	80mm	30	330	434	488	542	594	640	688	756	813
3.1/2	90	32	439	499	547	596	689	739	789	858	1044
4"	100	34	550	694	829	965	1158	1248	1336	1463	1896
5	125	40	1280	1502	1542	1583	1703	1959	2216	2601	2875
6	150	44	1472	1747	1890	2034	2375	2765	3156	3559	3896
7	180	48	4829	4829	5058	5374	5848	5979	6361	6949	7098
8	200	52	6470	6470	6733	7021	7559	7899	8484	9325	10163

Sitting Saw "With Keyways" will be supplied unless otherwise specified.

Note : Knife Cutters will be charged 25% Extra

H.S.S. Screw Slotting Cutters (72 Teeth) - With Keyways

As per BS: 122-1953- Part I

Diameter	.010 to .051	0.52 to 0.72	0.73 to .093	0.94 to .125
2.3/4	231	242	266	314
3	275	301	330	386

PREMIUM HIGH SPEED STEEL METAL SLITTING SAW

**Grounded Teeth
Imported Sheet Material**

OD	2"	2.1/2"	2.3/4"	3"	3.1/2"	4"	5"	6"
Thickness								
.50mm	387	605	626	740	842	1040	1763	—
1mm	347	518	518	671	760	960	1629	2441
1.50mm	387	605	626	740	842	1040	1763	2654
2mm	439	648	671	788	914	1242	1937	2880
2.50mm	485	714	770	842	1055	1376	2243	229
3mm	509	810	844	911	1206	1564	2496	3557
3.50mm	579	910	952	1018	1273	1795	2828	3894
4mm	637	1009	1049	1093	1373	2043	3208	4233
4.50mm	690	1080	1093	1298	1540	2233	3423	4458
5mm	760	1157	1209	1478	1681	2420	3650	4836
5.50mm	802	1232	1327	1575	1883	2650	3891	5299
6mm	840	1348	1475	1683	2080	2796	4197	5821
6.50mm	910	1478	1573	1812	2191	3026	4590	6250

High Speed Steel Slitting Saws Coarse & Fine Teeth

H.S.S. Slotting Cutters

As per BS: 122-1953- Part I

Diameter in Inches	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
2.1/2	957	1009	1042	1080	1160	1564	1662	1904	2009
3	1114	1176	1225	1357	1427	2038	2230	2568	2670
3.1/2	1487	1651	1904	2060	2393	2439	3149	3605	3911
4	1750	2015	2269	2466	2854	3248	3762	4333	4743
5	2439	2869	3187	3476	4012	4621	5282	6152	6805
6	3211	3764	4188	4617	5266	6167	7240	8521	9372

H.S.S. Keyway Milling Cutters-Straight Teeth Type (Non-Relieved)

As per IS: 6355-1982

Diameter in MM	5	6	8	10	12	14	16	18	20	22	25	28
50	818	857	898	938	—	—	—	—	—	—	—	—
63	957	957	1009	1042	1160	1483	1564	1631	1797	1904	2009	—
80	1335	1335	1431	1584	1728	1893	2101	2282	2431	—	—	—
100	1750	1750	2015	2269	2854	3114	3248	3702	4196	4333	4743	—
125	2439	2439	2869	3187	4012	4299	4621	5198	5694	6152	6805	10520

H.S.S. Tap Fluting Cutters

As per BS

Cutter No.	1	2	3	4	5	6	7	8
Price each in Rupees	1115	1191	1219	1344	1497	1869	2555	3641

H.S.S. Reamer Fluting Cutters

As per BS

Cutter No.	1	2	3	4	5	6	7	8	9
Price each in Rupees	1152	1219	1344	1497	1642	1869	2354	3077	3533

H.S.S. Drill Fluting Cutters

As per BS: 228-1962

Cutter No.	1	2	3	4	5	6	7	8
Price each in Rupees	1454	1497	1526	1598	1679	1757	1857	1948
Cutter No.	9	10	11	12	13	14	15	16
Price each in Rupees	2050	2134	2175	2324	2508	2707	2783	2958

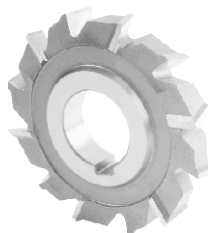
High Speed Steel Side and Face Cutters (Type 'B' Straight Teeth)



Inches		2.1/2"	3"		4"	5"	6"		7"	8"	10"
	mm	63	75	80	100	125	150	160	175	200	250
3/16	5	1095	1276	1528	2006	2793	3679	6258	6846	10542	—
1/4	6	1095	1276	1528	2307	2793	3679	6258	6846	10542	18154
5/16	8	1153	1348	1639	2600	3288	4311	6834	7475	11376	19058
3/8	10	1193	1402	1816	2824	3652	4798	9347	10222	12189	19685
7/16	11	1236	1554	1897	3271	3986	5290	10058	10909	13274	21167
1/2	12	1328	1634	1980	3567	4597	6034	10769	11778	14232	23043
9/16	14	1700	1983	2167	3720	4923	6548	11307	12483	15680	24886
5/8	16	1792	2334	2407	4240	5295	7063	11874	13189	16093	26780
	18	1869	2554	2613	4807	5955	7680	13090	13908	18428	29024
3/4	20	2052	2554	2783	4966	6537	8296	13745	14628	19349	31348
7/8	22	2180	2943	3174	5433	7047	9762	14699	16078	20728	33504
1"	25	2301	3059	3352	5434	7796	10740	16903	18486	22899	36929
	28	—	—	—	6353	11135	13558	18594	18823	25190	40624
	30	—	—	—	6891	11478	14527	19131	14527	25992	41976
1.1/4	32	—	—	—	7430	11775	15496	19670	21513	26796	43329

Side & Face milling cutters are profile sharpened cutters, having a teeth on periphery and on both sides. Used on horizontal milling M/C to mill slots, shoulders, small width surface etc.

High Speed Steel Side and Face Cutters Staggered Teeth Type 'A'



Inches		2.1/2"	3"		4"	5"	6"		7"	8"	10"
	mm	63	75	80	100	125	150	160	175	200	250
3/16	5	1204	1404	1681	2208	3073	4047	6884	7531	11598	19971
¼	6	1204	1404	1681	2208	3073	4047	6884	7531	11598	19971
5/16	8	1270	1482	1803	2539	3617	4743	7519	8222	12514	20963
3/8	10	1313	1542	1998	2860	4018	5280	10282	11246	13408	21654
7/16	11	1387	1670	2087	3228	4538	5958	11064	12101	14533	23500
½	12	1462	1799	2178	3597	5058	6638	11847	12957	15657	25346
9/16	14	1871	2183	2385	3924	5416	7204	12437	13732	17224	27376
5/8	16	2022	2568	2648	4094	5824	7771	13062	14508	17704	29458
	18	2056	2689	2875	4666	6550	8448	14399	15300	20270	33445
¾	20	2284	2809	3061	4741	6656	9125	15119	16092	21285	34484
7/8	22	2512	3237	3367	5462	7754	10739	16169	17686	23028	36854
1"	25	2854	3365	3826	5978	8577	11813	18594	20337	25190	40624
	28	—	—	—	—	9605	13230	20454	22777	27710	44688
	30	—	—	—	—	10291	14175	21045	24403	28594	46175
1.1/4	32	—	—	—	—	10978	15120	21636	26030	29477	47663

Side & Face milling cutters are profile sharpened cutters, having a teeth on periphery and on both sides. Used on horizontal milling M/C to mill slots ,shoulders, small width surface etc.

High Speed Steel
Single Angle Cutters (as Per B.S. 122-1953-Part-1 Dimensions In Inches)



Width	Angle in Degrees	Diameter	
		2.3/4"	3"
5/16	30	1428	1527
7/16	30,40	1542	1710
1/2	40,50,60,70,80	1595	1766
5/8	50,60,70,80	1812	1998

High Speed Steel
Single Angle Cutters (As per I.S. 6325-1971 Dimensions in mm)



Diameter	Width	Bore	Angle in Degrees	Price in Rs.
50	12	16	45,60,65,70,75,80,85	1134
63	18	22	60,65,70,75,80,85	1818
63	28	22	70,75,80	2285
80	32	22	70,75,80	3487
100	36	27	70,75,80	6716

The cutter with teeth on the conical surface and on large flat side. The nominal angle of the cutter is the angle between the flat side and the conical side, measured in a radial plane. These cutters are used mainly for cutting dovetails, serrations and angular slots.

High Speed Steel
Double Unequal Angle Cutters As Per B.s. 122-1953-part-i Dimensions In Inches



Width	Angle in Degrees	Diameter	
		2.3/4"	3"
5/8	12x48, 12x53, 12x58, 12x63, 12x68, 12x73	1812	1998
3/4	-do-	1998	2285

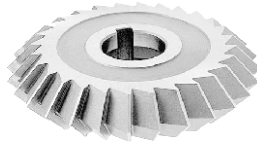
High Speed Steel
Double Unequal Angle Cutters As Per I.s. 6325-1971 Dimensions In Mm



Dia.	Width	Bore	Small angle in Degrees x Included Angle in Degrees	Price in Rs.
50	12	16	12x55, 15x60, 15x65, 15x70, 15x75, 15x80	1134
50	14	16	20x90	1205
50	16	16	25x100	1345
63	18	22	12x55, 15x60, 15x65, 15x70, 15x75, 15x80	1818
63	20	22	20x90	1886
63	22	22	25x100	2052
80	32	22	15x65, 15x70, 15x75	3487
100	36	27	15x70, 15x75, 15x80	6716

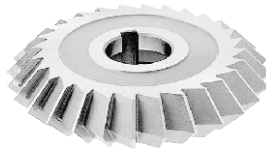
A cutter with on the conical surfaces and with unequal angles between the conical sides and the plane of intersection of the two cones. The nominal angles of the cutter are the angles between the two conical sides, measured in a radial plane

High Speed Steel
Double Equal Angle Cutters As Per B.S. 122-1953-Part-I Dimensions In Inches



Width	Angle in Degrees	Diameter	
		2.3/4"	3"
5/16	30,40	1428	1527
7/16	30,40	1542	1710
1/2	45,60,90	1595	1766
5/8	60,90	1812	1998

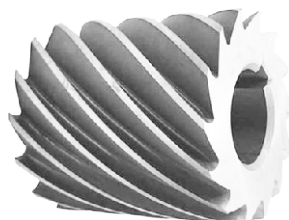
High Speed Steel
DOUBLE EQUAL ANGLE CUTTERS as per I.S. 6325-1971 Dimensions in mm



Diameter	Width	Bore	Angle in Degree	Place In Rs.
56	10	16	45	1218
56	12	16	60	1368
56	14	16	90	1506
63	12	22	45	1506
63	16	22	60	1527
63	18	22	90	1818
80	16	22	45	2215
80	20	22	60	2563
80	22	22	90	2780
100	18	27	45	3616
100	25	27	60	4822
100	28	27	90	5338

A cutter with teeth on conical surfaces and with equal angles between the conical faces and the plane of intersection of the two cones. The nominal included angle of the cutter is the angle between the two conical sides, measured in a radial plane and used to mill 'V' grooves.

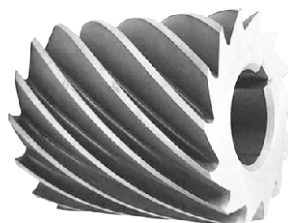
High Speed Steel Cylindrical Milling Cutters



Specifications confirm to
IS 6309-1982

Diameter	Bore	Length	Price
50	22	25	2282
50	22	40	2698
50	22	63	3537
50	22	80	4587
63	27	32	3251
63	27	50	4291
63	27	70	5387
63	27	90	6325
63	27	100	7117
80	32	36	4587
80	32	63	7291
80	32	80	8625
80	32	90	9077
80	32	100	9931
100	40	70	10850
100	40	125	20493
125	50	80	23162
125	50	125	43360
160	60	125	59150

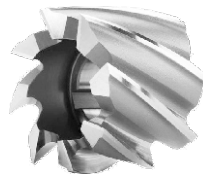
High Speed Steel High Power Cylindrical Cutters



Specifications conform to
BS 122-Part 1 : 1953

Diameter	Bore	Length	Price
2.1/2	1	1	2782
2.1/2	1	2	4291
2.1/2	1	3	5712
2.1/2	1	4	7117
3	1.1/4	1	3650
3	1.1/4	2	5627
3	1.1/4	3	7647
3	1.1/4	4	9715
3	1.1/4	5	13000
3	1.1/4	6	14041
3.1/2	1.1/4	1	4056
3.1/2	1.1/4	2	6757
3.1/2	1.1/4	3	9429
3.1/2	1.1/4	4	12141
3.1/2	1.1/4	5	15585
3.1/2	1.1/4	6	19250
3.1/2	1.1/4	7	24270
4	1.1/4 or 1.1/2	1	5122
4	1.1/4 or 1.1/2	2	8970
4	1.1/4 or 1.1/2	3	12822
4	1.1/4 or 1.1/2	4	17393
4	1.1/4 or 1.1/2	6	25789

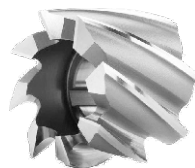
High Speed Steel Shell End Mills



Specifications confirm to
IS 6257-1982

Diameter	Bore	Length	Price
40	16	32	1496
50	22	36	2364
63	27	40	3311
80	27	45	6165
100	32	50	10305
125	40	56	18024
160	50	63	29768

High Speed Steel Shell End Mills



Specifications confirm to
BS 122-Part 1 : 1953

Diameter	Bore	Length	Price
1.1/4	1/2	1	1163
1.1/2	1/2	1.1/8	1418
1.3/4	3/4	1.1/4	1883
2	3/4	1.3/8	2190
2.1/4	1	1.1/2	2777
2.1/2	1	1.5/8	3404
2.3/4	1	1.5/8	4234
3	1.1/4	1.3/4	5768
3.1/2	1.1/4	1.7/8	7604
4	1.1/2	2.1/4	11730
4.1/2	1.1/2	2.1/4	17244
5	1.1/2	2.1/4	18024
5.1/2	2	2.1/4	23411
6	2	2.1/4	27544

High Speed Steel Face Cutters



Diameter	Bore	Length	Price
1.3/4	$\frac{3}{4}$	1.1/4	1667
2	$\frac{3}{4}$	1.1/4	1883
2.1/2	$\frac{3}{4}$	1.1/4	2881
3	1.1/8	1.11/16	6399
4	1.1/8	1.3/4	8710
5	1.1/2	2	15689
6	1.1/2	2	26174

HSS Spur Gear Hobs PA 20, 14.5, 30, 15 RH



Module	Diameter MM	Overall Length	Bore MM	Price (Rs.)
1	63	63	32	6582
1.25	63	63	32	6582
1.5	63	63	32	6582
1.75	63	63	32	6582
2	70	70	32	7680
2.25	70	70	32	7680
2.5	75	70	32	7680
2.75	75	75	32	9222
3	75	75	32	9222
3.25	75	75	32	9222
3.5	80	80	32	9601
3.75	80	80	32	9601
4	90	90	32	14721
4.5	90	90	32	14721
5	90	90	32	14721
5.5	90	90	32	14721
6	100	100	32	20322
6.5	100	100	32	20322
7	115	125	32	32004
8	115	125	32	32004
9	125	125	32	38266
10	140	180	40	53572
11	140	180	40	53572
12	150	200	40	71749
14	165	225	40	107145
16	180	225	40	132304
18	200	250	40	274682
20	200	250	40	274682
22	225	250	50	Rate of Request
24	250	300	50	Rate of Request
26	250	300	50	Rate of Request

HSS Spur Gear Hobs PA 20, 14.5, 30, 15 RH



DP	Diameter Inches	Overall Inches	Bore Inches	Price (Rs.)
20-30	2.½	2.½	1.¼	6582
18	2.½	2.½	1.¼	6582
16	2.½	2.½	1.¼	6582
14	2.½	2.½	1.¼	6582
12	2.¾	2.¾	1.¼	7680
10	3	3	1.¼	9222
8	3	3	1.¼	9222
7	3	3	1.¼	9222
6	3.½	3.½	1.¼	14721
5	3.½	3.½	1.¼	14721
4	4	4	1.¼	20322
3.5	4.½	5	1.¼	31927
3	4.½	5	1.¼	31927
2.5	5.½	7	1.¼	53572
2.25	5.½	7	1.¼	53572
2	6	8	1.½	71749
1.75	6.½	9	1.½	107145
1.5	7	9	1.½	132304
1.25	8	10	2	274682
1	10	12	2	Rate on Request

INVOLUTE GEAR CUTTER

14.50 P.A and 20 P.A

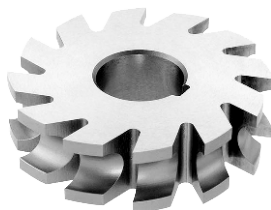


Module	Diameter	Price	DP	Diameter	Price
			32 TO 50 (Even Only)	2.1/4	957
1	57	957	30	2.1/4	957
1.25	57	988	20	2.3/8	957
1.5	64	1026	19	2.3/8	988
1.75	64	1026	18	2.3/8	988
2	67	1057	17	2.1/2	988
2.25	67	1057	16	2.1/2	1026
2.5	70	1096	15	2.1/2	1026
2.75	70	1122	14	2.1/2	1026
3	73	1163	13	2.5/8	1057
3.5	77	1285	12	2.5/8	1057
3.75	80	1483	11	2.5/8	1057
4	80	1605	10	2.3/4	1138
4.5	86	2122	9	2.3/4	1166
5	86	2229	8	2.7/8	1206
5.5	92	2746	7	3	1339
6	96	3153	6	3.1/8	1723
6.5	105	3987	5	3.3/8	2362
7	115	6101	4	3.3/4	3790
8	121	7259	3	4.3/4	7239
9	125	9034	2.75	4.3/4	8719
10	127	9551	2.5	5.1/4	9343
11	140	12706	2.25	5.1/2	12412
12	147	16715	2	6	16699
14	160	21445	1.75	6.1/8	19297
16	181	28606	1.5	7	29026
18	190	44692	1.25	8	48348
20	200	49657	1	9	70843
22	204	57533			
24	227	70843			
25	227	79952			

Cutter will be with eight different forms (numbered 1 to 8) for each pitch, depending upon the number of teeth for which the cutter is to be used. Ranges for individual Cutters are as follows:

No. of Cutter	Will cut gears from	No. of Cutter	Will cut gears from
1	135 teeth to a rack	5	21 to 25 teeth
2	55 to 134 teeth	6	17 to 20 teeth
3	35 to 54 teeth	7	14 to 16 teeth
4	26 to 34 teeth	8	12 to 13 teeth

Concave Cutter Dimensions In Inches



Dia of Cutter	Dia of Circle	Width of Cutter	Price
2.1/4	1/8"	5/16"	1311
2.1/4	3/16"	3/8"	1374
2.1/4	1.4"	1/2"	1446
2.1/2	5/16"	5/8"	1535
2.1/2	3/8"	3/4"	1535
2.1/2	7/16"	7/8"	1649
2.1/2	1/2"	1"	1690
2.3/4	9/16"	1.3/16"	1773
2.3/4	5/8"	1.3/16"	1773
3	1/8"	5/16"	1826
3	1/4"	1/2"	1874
3	3/8"	3/4"	2086
3	1/2"	1"	2930
3	11/16"	1.3/8"	3038
3	3/4"	1.3/8"	4299
3.1/4	13/16"	1.9/16"	4299
3.1/4	7/8"	1.9/16"	4777
3.1/2	15/16"	1.3/4"	6108
3.1/2	1"	1.3/4"	6788
4	1.1/8"	1.15/16"	10731
4.1/4	1.3/8"	2.5/16"	10731
4.1/4	1.3/8"	2.1/2"	11093

Concave Cutter Dimension in mm



Diameter	Radius	Width	Bore	Price
50	1.6	8	22	1311
50	2	9	22	1374
56	1.5	6	22	1449
56	1.6	8	22	1535
56	2	8	22	1535
56	2.5	10	22	1649
63	2.5	10	22	1690
63	3	12	22	1773
63	3.2	12	22	1773
63	3.5	14	22	1826
63	4	16	22	1874
63	5	20	22	2086
70	6	24	22	2930
70	7	28	22	3038
80	6	24	27	4299
80	6	24	27	4299
80	8	32	27	4777
90	9	28	27	6108
90	10	36	27	6788
100	10	36	27	10731
100	11	36	27	10731
100	12	40	27	11093
100	12.5	40	27	11316
100	14	40	27	12510
110	16	50	32	17132
125	16	50	32	23336
125	20	60	32	24567

Convex Cutter Dimensions in Inches



Dia of Cutter	Dia of Circle	Price
2.1/4	1/8"	1317
2.1/4	3/16"	1405
2.1/4	1/4"	1496
2.1/2	5/16"	1535
2.1/2	3/8"	1635
2.1/2	7/16"	1728
2.1/2	1/2"	1826
2.3/4	9/16"	2249
2.3/4	5/8"	2412
3	1/8"	1634
3	1/4"	1756
3	3/8"	2125
3	1/2"	2443
3	11/16"	2658
3	3/4"	2823
3.1/4	13/16"	3365
3.1/4	7/8"	3544
3.1/2	15/16"	3938
3.1/2	1"	4605
4	1.1/8"	8301
4	1.1/4"	9138
4.1/4	1.3/8"	12575
4.1/4	1.1/2"	13608

Convex Cutter Dimension in mm



Diameter	Radius	Width	Bore	Price
50	1.5	3	22	1249
50	1.6	3.2	22	1249
50	2	4	22	1344
56	2.5	5	22	1465
56	3	6	22	1496
63	2.5	5	22	1535
63	3	6	22	1535
63	3.2	6.3	22	1535
63	4	8	22	1535
63	5	10	22	1690
70	6	12	22	2193
70	7	14	22	2249
70	8	16	22	2412
80	6	12	27	2653
80	6.3	12.6	27	2918
80	8	16	27	3208
90	9	18	27	3923
90	10	20	27	4378
90	11	22	27	4406
90	12	24	27	4406
90	12.5	25	27	4602
100	10	20	27	5767
100	12	24	27	6414
100	12.5	25	27	7121
110	16	32	27	10105
110	18	36	32	13740
125	16	32	32	14603
125	20	40	32	15372

H.S.S. Single Corner Rounding Cutter

As per BS: 122-1953- Part I

Diameter of Cutter	Diameter of Circle	Width of Cutter	Price Each in Rupees
2.1/4	1/16	5/16	1525
2.1/4	3/32	5/16	1525
2.1/4	1/8	5/16	1525
2.1/2	5/32	7/16	1728
2.1/2	3/16	7/16	1728
2.1/2	7/32	1/2	1828
2.1/2	1/4	1/2	1828
2.3/4	9/32	5/8	2412
2.3/4	5/16	5/8	2412
3	1/8	5/16	1920
3	11/32	11/16	2658
3	3/8	11/16	2658
3	5/8	1	2959
3.1/4	13/32	3/4	3652
3.1/4	7/16	3/4	3652
3.1/2	15/32	7/8	4820
3.1/2	1/2	7/8	4820
3.1/2	9/16	1	5117
3.1/2	5/8	1	5117
3.3/4	11/16	1.1/8	9596
3.3/4	3/4	1.1/8	9596

H.S.S. Single Corner Rounding Cutter

As per IS: 6314-1982

Dia	Corner Radius	Width	Bore	Price each in Rupees
50	1.6	5	22	1031
50	2.0	5	22	1031
56	1.6	5	22	1145
56	2.5	5	22	1222
63	2.5	5	22	1283
63	3.0	6	22	1350
63	3.15	6	22	1350
63	4.0	8	22	1385
63	5.0	10	22	1478
70	6.0	12	22	1906
80	6.0	12	27	2647
80	6.3	12	27	2647
80	8.0	16	27	2947
90	10.0	18	27	4041
100	10.0	18	27	4777
100	12.0	20	27	5015
100	12.5	20	27	5015
110	16.0	24	32	9569
125	16.0	24	32	12362
125	20.0	28	32	13012

H.S.S. Double Corner Rounding Cutter

As per BS: 122-1953- Part I

Diameter of Cutter	Corner Radius	Width of Cutter	Price Each in Rupees
2.1/4	1/16	7/16	1920
2.1/4	3/32	7/16	1920
2.1/4	1/8	7/16	1920
2.1/2	5/32	5/8	2154
2.1/2	3/16	5/8	2154
2.1/2	7/32	3/4	2294
2.1/2	1/4	3/4	2294
2.3/4	9/32	15/16	3289
2.3/4	5/16	15/16	3289
3	11/32	1.1/16	3854
3	3/8	1.1/16	3854
3.1/4	13/32	1.3/16	5223

Diameter of Cutter	Corner Radius	Width of Cutter	Price Each in Rupees
3.1/4	7/16	1.3/16	4542
3.1/2	15/32	1.3/8	6096
3.1/2	1/2	1.3/8	6096
3.1/2	9/16	1.5/8	6799
3.1/2	5/8	1.5/8	6799
3.3/4	11/16	1.7/8	11949
3.3/4	3/4	1.7/8	11949

HSS Roller Chain Sprocket Hobs Machine Relieved, Single Start, RH



Pitch (Inches)	PITCH	Roller DIA (Inches)	Diameter (Inches)	Price (Each)
0.250	1/4	0.130	2.5x2.5x1.25	6190
0.375	3/8	0.250	2.50x2.5x1.25	8147
0.500	1/2	0.305	3x2.5x1.25	9124
0.500	1/2	0.335	3x2.5x1.25	9124
0.625	3/8	0.400	3.1/4"x2.3/4"x1.1/4	9612
0.750	3/4	0.475	3.5x2.3/4x1.25	10590
1.000	1"	0.625	4x3.5x1.25	20046
1.250	1.1/4	0.750	4.5x4.5x1.25	29327
1.500	1.1/2	1.000	5x5.5x1.25	48880
1.750	1.3/4	1.100	5.5x6x1.25	55397
2.000	2	1.150	6.1/2x7x1.5	105906
2.500	2.5"	1.550	7x8x1.5	125108
3	3"	1.900	8x10x2	203665

HSS Roller Chain Sprocket Milling Cutter Machine Relieved, RH



Pitch (Inches)	Roller DIA (Inches)	Diameter (Inches)	Bore	Price (Each)
0.250	0.130	2.3/4"	1"	1804
0.375	0.250	2.3/4"	1"	1960
0.500	0.335	2.3/4"	1"	2352
0.625	0.400	3"	1"	2829
0.750	0.475	3"	1"	3773
1.000	0.625	4"	1"	10033
1.250	0.750	4.1/2"	1.1/4"	11362
1.500	1.000	5"	1.1/4"	13886
1.750	1.100	5.1/2"	1.1/4"	20134
2.000	1.150	6"	1.1/2"	28744
2.500	1.550	7"	1.1/2"	53739
3	1.900	8"	2"	75263

Timing Pulley Hobs

Machine Relieved, Single Start, Right Hand



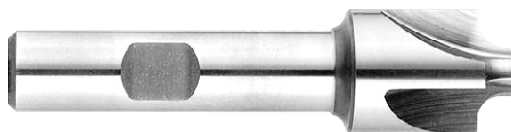
Pitch	Type	Dimension (mm)	Price (Rs.)
1/5"	XL	63x46x27	7201
3/8"	L	70x56x27	8481
1/2"	H	70x56x27	8481
7/8"	XH	90x78x32	14401
1.1/4"	XXH	100x88x32	19203
2mm	FLAT	63x46x27	7201
2.5mm	FLAT	63x46x27	7201
3mm	HTD	63x46x27	7201
5mm	HTD	63x46x27	7201
5mm	AT-5	63x46x27	7201
5mm	T-5	63x46x27	7201
8mm	HTD	70x56x27	8481
10mm	T-10	70x56x27	8481
10mm	AT-10	70x56x27	8481
14mm	HTD	90x78x32	14401
20mm	HTD	100x88x32	19203
20mm	T-20	100x88x32	19203
20mm	AT	100x88x32	19203

Rack Milling Cutters P.A. 20 / 14.5 as per BS-2060



DP	Module	3"	3.1/2"	4"	4.1/2"	5"	5.1/2"	6"	8"
24/22	1	784	916	1290	1650	2125	3213	3275	5249
20/18	1.25	825	948	1327	1705	2226	3213	3364	5401
16/14	1.5/1.75	885	1012	1391	1815	2263	3213	3744	5819
13/12/11	2	924	1074	1442	1916	2376	3275	3744	5819
10/9	2.5	962	1188	1529	2175	2491	3300	3857	6564
8	3/3.25	1094	1378	1783	2213	2752	3351	3910	6653
7	3.5	----	1485	1936	2316	2962	3435	4211	6868
6	3.75/4	----	1695	2211	2649	3390	3927	4812	8411
5	5	----	2119	2761	3311	4213	4908	6015	10524
4	6	----	----	3314	3974	5072	5889	6583	12630
3	8	----	----	----	----	----	7855	8614	16843
2.5	10	----	----	----	----	----	----	10879	20872
2	12	----	----	----	----	----	----	13174	21201

High Speed Steel Shank Type Single Corner Cutter



RADIUS R (H11)	OUTSIDE DIAMETER	SHANK DIAMETER	OVERALL LENGTH	PRICE
1.0	8	10	60	632
1.5	9	10	60	632
2.0	10	10	60	790
2.5	11	10	60	868
3.0	12	12	60	868
3.5	13	12	60	1106
4.0	14	12	60	1106
4.5	15	12	60	1423
5.0	16	12	60	1423
5.5	19	16	67	1676
6.0	20	16	67	1676
6.5	21	16	71	2007
7.0	22	16	71	2007
7.5	23	16	71	2245
8.0	24	16	71	2245
8.5	25	25	85	2745
9.0	26	25	85	2745
9.5	27	25	85	3226
10.0	28	25	85	3226
10.5	31	25	90	5100
11.0	32	25	90	5100
12.0	34	25	90	5100
12.5	41	25	100	9041
13.0	42	25	100	9041
14.0	44	25	100	9041
15.0	46	25	100	11110
16.0	48	25	100	11110
18.0	52	32	112	14158
20.0	56	32	112	16850

High Speed Steel Parallel Hand Reamers



Specifications conform to
IS 5444-1978
ISO 236/1-1976
DIN 206-1979
BS 328: Part 4:1983

Diameter Mm	Inch	Cutting Edge Length	Overall Length	Price
6.0		47	93	363
---	¼	50	100	363
7.0	9/32	54	107	363
8.0	5/16	58	115	409
9.0	11/32	62	124	438
10.0	3/8	66	133	527
11.0	7/16	71	142	590
12.0	15/32	76	152	622
13.0	½	76	152	829
14.0	---	81	163	829
15.0	9/16	81	163	974
16.0	5/8	87	175	974
17.0	---	87	175	1167
18.0	11/16	93	188	1252
19.0	---	93	188	1332
20.0	¾	100	201	1481
21.0	13/16	100	201	1811
22.0	7/8	107	215	1811
23.0	---	107	215	1960
24.0	15/16	115	231	2297
25.0	1	115	231	2297
26.0	---	115	231	2660
27.0	1.1/16	124	247	3114
28.0	1.1/8	124	247	3114
30.0	---	124	247	3411
32.0	1.3/16,1.1/4	133	265	4057
34.0	---	142	284	5384
35.0	1.3/8	142	284	5853
36.0	1.7/16	142	284	5853
38.0	1.1/2	152	305	6441
40.0	---	152	305	8340
42.0	1.5/8	152	305	9989
44.0	1.3/4	163	326	9989

Diameter Mm	Inch	Cutting Edge Length	Overall Length	Price
45.0	---	163	326	11273
46.0	---	163	326	11273
48.0	1.7/8	174	347	13066
50.0	2	174	347	13066
52.0	2.1/16	174	347	15571
55.0	2.1/8	184	367	18083
56.0	2.3/16	184	367	18083
58.0	2.1/4	184	367	19350
60.0	2.5/16	184	367	23674
62.0	2.3/8,2.7/16	194	387	23674
63.0	2.1/2	194	387	23674
67.0	---	194	387	On Req
71.0	---	203	406	On Req

A Reamer having virtually parallel cutting edges, with taper & bevel lead integral with parallel shank of the nominal diameter of cutting edges, and with a driving square on the end of the shank

LH Helical flutes for RH cutting shall be supplied unless otherwise specified

High Speed Steel Machine Reamers with Taper Shank



Specifications conform to
 IS 5445-1978
 ISO 236/1-1976
 DIN 206-1979
 BS 328: Part 4:1983

Diameter mm	Inch	Cutting Edge Length	Overall Length	Morse Taper No.	Price
6.0	---	47	127	1	430
---	1/4	50	130	1	430
7.0	9/32	54	134	1	430
8.0	5/16	58	138	1	447
9.0	11/32	62	142	1	484
10.0	3/8	66	146	1	583
11.0	7/16	71	151	1	655
12.0	15/32	76	156	1	688
13.0	1/2	76	156	1	887
14.0	---	81	161	1	887
15.0	9/16	81	181	2	974
16.0	5/8	87	187	2	974
17.0	---	87	187	2	1168
18.0	11/16	93	193	2	1253
19.0	---	93	193	2	1332
20.0	3/4	100	200	2	1481
21.0	13/16	100	200	2	1811
22.0	7/8	107	207	2	1811
23.0	---	107	207	2	1960
24.0	15/16	115	242	3	2298
25.0	1	115	242	3	2298
26.0	---	115	242	3	2660
27.0	1.1/16	124	251	3	3114
28.0	1.1/8	124	251	3	3114
30.0	---	124	251	3	3412
---	1.3/16, 1.1/4	133	260	3	4057
32.0	1.5/16	133	293	4	4057
34.0	---	142	302	4	5385
35.0	1.3/8	142	302	4	5856
36.0	1.7/16	142	302	4	5856
38.0	1.1/2	152	312	4	6441
40.0	---	152	312	4	8225
42.0	1.5/8	152	312	4	9989

Diameter mm	Inch	Cutting Edge Length	Overall Length	Morse Taper No.	Price
44.0	---	163	323	4	9989
45.0	1.3/4	163	323	4	11275
46.0	---	163	323	4	11275
48.0	1.7/8	174	334	4	13066
50.0	2	174	334	4	13066
52.0	---	174	371	5	15571
55.0	---	184	381	5	18083
56.0	---	184	381	5	18083
58.0	2.1/4	184	381	5	19350
60.0	---	184	381	5	23674
62.0	---	194	391	5	23674
63.0	2.1/2	194	391	5	23674
65.0	---	194	391	5	28782
67.0	---	194	391	5	30269
71.0	---	203	400	5	35811
---	3	212	409	5	51368

A Reamer having virtually parallel cutting edges, with bevel lead integral with a Morse Taper shank
LH Helical flutes for RH cutting shall be supplied unless otherwise specified

High Speed Steel Machine Reamers With Taper Shank Extra Long Series (as Per Our Standard)



Specifications confirm to
IS 5444-1978
ISO 236/1-1976
DIN 206-1979
BS 328: Part 4:1983

Dia	MT No	200mm	225mm	250mm	275mm	300mm	325mm	350mm
8.0	1	1174	1294	1415	1621	1825	----	----
9.0	1	1248	1360	1510	1723	1937	----	----
10.0	1	1303	1435	1547	1751	1983	----	----
11.0	1	1448	1480	1595	1781	2008	----	----
12.0	1	1480	1511	1632	1818	2282	2511	2682
13.0	1	1491	1650	1825	2132	2459	2678	2884
14.0	1	1491	1650	1825	2132	2459	2678	2884
15.0	2	1688	1900	2105	2384	2489	2682	2887
16.0	2	1688	1900	2105	2384	2489	2682	2887
17.0	2	1741	1960	2177	2441	2495	2682	2905
18.0	2	----	2159	2369	2515	2627	2719	3119
19.0	2	----	2188	2399	2617	2639	2954	3452
20.0	2	----	2429	2586	2761	3087	3294	3538
21.0	2	----	2512	2639	2819	3194	3402	3683
22.0	2	----	2850	3274	3450	3437	4724	3943
23.0	2	----	2958	3299	3604	3450	3750	4169
24.0	3	----	----	3455	3539	3731	3839	4597
25.0	3	----	----	3539	3613	3886	3894	4711
26.0	3	----	----	3598	3668	3959	4141	5145
27.0	3	----	----	3889	4230	4637	4493	5435
28.0	3	----	----	4069	4528	5339	5066	6259
29.0	3	----	----	----	4910	6052	5272	6726
30.0	3	----	----	----	----	6553	5624	6868
31.0	3	----	----	----	----	6653	5743	6898
32.0	4	----	----	----	----	7036	6839	7045
33.0	4	----	----	----	----	7228	7192	8474
34.0	4	----	----	----	----	7439	7858	8686
35.0	4	----	----	----	----	7694	8092	8983
36.0	4	----	----	----	----	----	8352	9874
37.0	4	----	----	----	----	----	9268	10282
38.0	4	----	----	----	----	----	9860	10996
39.0	4	----	----	----	----	----	10265	11652
40.0	4	----	----	----	----	----	10723	12163

Dia	MT No	200mm	225mm	250mm	275mm	300mm	325mm	350mm
41.0	4	-----	-----	-----	-----	-----	11322	12808
42.0	4	-----	-----	-----	-----	-----	11830	13348
43.0	4	-----	-----	-----	-----	-----	12420	13970
44.0	4	-----	-----	-----	-----	-----	12602	14412
45.0	4	-----	-----	-----	-----	-----	13512	15229
46.0	4	-----	-----	-----	-----	-----	14171	15941
47.0	4	-----	-----	-----	-----	-----	14722	17239
48.0	4	-----	-----	-----	-----	-----	16040	18050
49.0	4	-----	-----	-----	-----	-----	16934	19600
50.0	4	-----	-----	-----	-----	-----	17612	22219

LH Helical flutes for RH cutting shall be supplied unless otherwise specified

H.S.S. Parallel Shank End Mills



Specifications confirm to
IS 6353-1991
ISO 1641 : Part-I : 1978

Diameter (in mm)	Cutting Edge Length	Overall Length	Shank Dia.	Price
6	16	52	6	145
7	16	52	6	145
8	19	59	8	189
9	19	59	8	237
10	22	67	10	237
11	22	67	10	254
12	26	76	12	314
13,14	26	76	12	442
15,16	32	88	16	527
17,18	32	88	16	392
19,20	38	101	20	896
21	38	101	20	896
22	38	101	20	942
23	38	101	20	942
24	45	116	25	942
25	45	116	25	1041
26,27	45	116	25	1270
28	45	116	25	1528
29,30	45	116	25	1528
31	63	140	25	1781
32	63	140	25	1906
33	63	140	25	2150
34,35	70	160	32	2660
36	70	160	32	2972
37,38,39	70	160	32	3486
40,41	70	160	32	3486
42	90	180	40	4772
43	90	180	40	4772
44,45	90	180	40	5336
46	90	200	40	5336
47,48,49	90	200	40	5898
50	90	200	40	6453
52	90	200	40	9326

Diameter (in mm)	Cutting Edge Length	Overall Length	Shank Dia.	Price
54	90	200	40	9326
55	90	200	40	12173
56	90	200	40	12173
58	90	200	40	13186
59,60	90	200	40	15476
62	90	200	40	15476
63	90	200	40	15476

Endmills are integral shank cutters capable of cutting on the periphery and end. These cutters are used for profile milling, facing narrow surfaces and producing open slots and pockets where a `plunge` feed is not required.

High Speed Steel Parallel Shank End Mills



Specifications conform to
BS-122 : Part 1 : 1953

Diameter (in Inches)	Shank Dia.	Cutting Edge Length	Overall Length	Price
1/4	1/4	5/8	2.1/8	145
5/16	3/8	3/4	2.1/2	189
3/8	3/8	7/8	2.5/8	237
7/16	1/2	7/8	2.5/8	254
1/2	1/2	1	2.3/4	254
9/16	1/2	1.1/8	2.7/8	314
5/8	5/8	1.1/4	3.1/4	442
11/16	5/8	1.3/8	3.3/8	481
3/4	5/8	1.1/2	3.1/2	527
13/16	3/4	1.5/8	3.5/8	692
7/8	3/4	1.5/8	3.5/8	896
1"	3/4	1.3/4	3.3/4	1041
1.1/8	1	1.7/8	4.1/8	1528
1.1/4	1	2	4.1/4	1904
1.3/8	1	2.1/8	4.5/8	2660
1.1/2	1	2.1/4	4.3/4	3135
1.5/8	1.1/4	2.3/8	4.7/8	3486
1.3/4	1.1/4	2.1/2	5.1/8	5336
1.7/8	1.1/4	2.5/8	5.1/4	5898
2"	1.1/2	3	5.1/2	6453
2.1/8	1.1/2	3	5.1/2	10259
2.1/4	1.1/2	3	5.5/8	13186
2.3/8	1.1/2	3.1/4	5.7/8	15476
2.1/2	1.1/2	3.1/2	6.1/8	15476

Parallel Shank End Mills for Right Hand cutting with Right Hand Helical flutes shall be supplied unless otherwise specified.

High Speed Steel Parallel Shank End Mills Long Series



Specifications conform to
IS 6353-1991
ISO 1641 : Part 1 : 1978

Diameter (in mm)	Shank Dia	Cutting Edge Length	Overall Length	Price
6	6	24	68	217
7	8	30	74	217
8	8	38	82	263
9	10	38	88	299
10	10	45	95	299
11	12	45	102	330
12	12	53	110	425
13,14	12	53	110	601
15,16	16	63	123	716
17,18	16	63	123	736
19	20	75	141	940
20	20	75	141	1232
21	20	75	141	1232
22	20	75	141	1424
23,24	20	90	166	1616
25	25	90	166	1870
26,27	25	90	166	2218
28	25	90	166	2312
29,30	25	106	186	3158
31	25	106	186	3678
32	32	106	186	3980
33,34	32	106	186	4512
35	32	106	186	4669
36	32	106	186	4900
37,38,39	32	125	217	5665
40	40	125	217	6193
42	40	125	217	7096
43,44	40	125	217	7690
45	40	125	217	8694
46	40	150	252	10198
48,49	40	150	252	10378
50	50	150	252	11053
52	50	150	252	11922

Diameter (in mm)	Shank Dia	Cutting Edge Length	Overall Length	Price
54	50	150	252	12814
55	50	150	252	13434
56	50	150	252	13738
58	50	180	282	17125
59,60	50	180	282	20080
62	50	180	282	21486
63	50	180	282	21715
65	50	180	292	23465
66	50	180	292	23562
68	50	180	292	23687
69,70	50	180	292	24396
71	63	180	292	24820

High Speed Steel Parallel Shank End Mills Extra Long Series



Diameter (in mm)	Shank Dia.	Cutting Edge Length	Overall Length	Price
12	12	75	125	570
12	12	100	150	679
12	12	150	200	898
12	12	200	250	1116
14	12	75	125	863
14	12	100	150	1030
14	12	150	200	1364
14	12	200	250	1694
15	12	75	125	863
15	12	100	150	1030
15	12	150	200	1364
15	12	200	250	1694
16	16	75	125	1096
16	16	100	150	1304
16	16	150	200	1724
16	16	200	250	2146
18	16	100	150	1603
18	16	150	200	2120
18	16	200	250	2640
20	20	100	150	1943
20	20	150	200	2572
20	20	200	250	3198
22	20	100	150	2510
22	20	150	200	3322
22	20	200	250	4129
25	25	150	200	3872
25	25	200	250	4818
25	25	250	300	5761
26	25	150	200	3872
26	25	200	250	4818
28	25	150	200	3872
28	25	200	250	5761
30	25	150	200	4818

Diameter (in mm)	Shank Dia.	Cutting Edge Length	Overall Length	Price
30	25	200	250	5761
32	32	125	200	3872
32	32	150	225	4818
34	32	150	200	4780
34	32	200	250	5946
35	32	150	200	5435
35	32	200	250	6760
36	32	150	200	6494
36	32	200	250	7286
38	32	150	200	8494
38	32	200	250	8078
40	40	150	200	7262
40	40	200	250	9035
42	40	150	200	7262
42	40	200	250	9035
45	40	150	200	8485
45	40	200	250	10560
48	40	150	200	9356
48	40	200	250	11640
50	50	150	200	10739
50	50	200	250	13356



H.S.S Ballnose Endmill

Diameter (in mm)	Cutting Edge Length	Overall Length	Shank Dia.	Price
6	16	52	6	383
7	16	52	6	510
8	19	59	8	510
9	19	59	8	574
10	22	67	10	574
11	22	67	10	670
12	26	76	12	670
13,14	26	76	12	759
15,16	32	88	16	957
17,18	32	88	16	1148
19,20	38	101	20	1850

High Speed Steel Taper Shank End Mills



Diameter (in mm)	Cutting Edge Length	Overall Length	Morse Taper No.	Price
6	16	90	1	279
7	16	90	1	279
8	19	93	1	321
9	19	93	1	321
10	22	96	1	321
11	22	96	1	445
12	26	100	1	445
13,14	26	100	1	599
15,16	32	124	2	636
17,18	32	124	2	770
19,20	38	130	2	867
21	38	130	2	999
22	38	130	2	999
23,24	45	157	3	1161
25	45	157	3	1322
26,27	45	157	3	1423
28	45	157	3	1528
29,30	53	165	3	1827
31	53	165	3	1827
32	53	165	3	1927
33	53	193	4	2492
34,35	53	193	4	2777
36	63	203	4	3165
37,38	63	203	4	3484
39,40	63	203	4	3882
42	63	203	4	5538
43,44	63	203	4	6857
45	63	203	4	6857
46	75	250	5	6857
48,49	75	250	5	7189
50	75	250	5	8181
52	75	250	5	8849
54	75	250	5	9515

Diameter (in mm)	Cutting Edge Length	Overall Length	Morse Taper No.	Price
55	75	250	5	9574
56	75	250	5	10198
58	90	265	5	12382
59,60	90	265	5	14449
62	90	265	5	14800
63	90	265	5	15441

High Speed Steel Taper Shank End Mills



Specifications conform to
BS 122 : Part 1 : 1953

Diameter (in Inches)	Cutting Edge Length	Overall Length	Morse Taper No.	Price
1/4	5/8	3.5/8	1	249
5/16	3/4	3.3/4	1	321
3/8	7/8	3.7/8	1	321
7/16	7/8	3.7/8	1	321
1/2	1	4	1	445
9/16	1.1/8	4.3/4	2	599
5/8	1.1/4	4.7/8	2	567
11/16	1.3/8	5	2	770
3/4	1.1/2	5.1/8	2	812
13/16	1.5/8	5.1/4	2	867
7/8	1.5/8	5.1/4	2	999
1	1.3/4	6.1/8	3	1322
1.1/8	1.7/8	6.1/4	3	1528
1.1/4	2	6.3/8	3	1927
1.3/8	2.1/8	7.5/8	4	2777
1.1/2	2.1/4	7.3/4	4	3484
1.5/8	2.3/8	7.7/8	4	3882
1.3/4	2.1/2	8	4	6856
1.7/8	2.5/8	8.1/8	4	7189
2	2.3/4	8.1/4	4	8181
2.1/8	3	9.7/8	5	8849
2.1/4	3	9.7/8	5	12328
2.3/8	3.1/4	3.1/4	5	14449
2.1/2	3.1/2	10.3/8	5	15441

High Speed Steel Taper Shank End Mills Long Series



Specifications conform to
IS 6354-1971

Diameter (in mm)	Cutting Edge Length	Overall Length	Morse Taper No.	Price
6	30	104	1	422
7	30	104	1	422
8	38	112	1	422
9	38	112	1	481
10	45	119	1	481
11	45	119	1	565
12	53	127	1	565
13,14	53	127	1	780
15,16	63	155	2	826
17,18	63	155	2	1057
19,20	75	167	2	1147
21	75	167	2	1270
22	75	167	2	1270
23	90	202	3	1270
24,25	90	202	3	1719
26,27	90	202	3	1986
28	90	202	3	1986
29,30	106	218	3	2378
31	106	218	3	2617
32	106	218	3	2617
33,34	106	246	4	3197
35	106	246	4	3610
36	125	265	4	4348
37,38,39	125	265	4	5047
40	125	265	4	5047
42	125	265	4	7077
43,44	125	265	4	8459
45	125	265	4	8914
46	150	325	5	9456
48,49	150	325	5	9456
50	150	325	5	10631
52	150	325	5	1784
54	150	325	5	17893

Diameter (in mm)	Cutting Edge Length	Overall Length	Morse Taper No.	Price
55	150	325	5	22261
56	150	325	5	22261
58	180	355	5	23258
59,60	180	355	5	25623
62	180	355	5	27278
63	180	355	5	27278

High Speed Steel Parallel Shank Slot Drills



Specifications conform to
IS 6352-1991
ISO 1641 : Part 1 : 1978

Diameter (in mm)	Shank Dia.	Cutting Edge Length	Overall Length	Price
6	6	8	52	191
7	8	10	54	191
8	8	11	55	191
9	10	11	61	191
10	10	13	63	191
11	12	13	70	191
12	12	16	73	294
13,14	12	16	73	374
15,16	16	19	79	580
17,18	16	19	79	683
19,20	20	22	88	787
21	20	22	88	948
22	20	22	88	948
23,24	20	26	102	1030
25	25	26	102	1190
26,27	25	26	102	1584
28	25	26	102	1890
29,30	25	32	112	1890
31	25	32	112	1890
32	32	32	112	1903
33,34	32	32	112	2765
35	32	32	112	2790
36	32	32	112	3053
37,38,39	32	38	130	3197
40	40	38	130	3420
42	40	38	130	4481
43,44	40	38	130	4481
45	40	38	130	6350
46	40	45	147	7256
48,49	40	45	147	7056
50	50	45	147	8537
52	50	45	147	8537
54	50	45	147	8537

Diameter (in mm)	Shank Dia.	Cutting Edge Length	Overall Length	Price
55	50	45	147	10160
56	50	45	147	10160
58,59	50	53	155	12560
60	50	53	155	12560
62	50	53	155	12560
63	50	53	155	12560
65	50	53	165	16388
66	50	53	165	16388
68,69	50	53	165	16388
70	50	53	165	19234
71	63	53	165	19234

High Speed Steel Parallel Shank Slot Drills



Specifications conform to
BS 122 : Part 1 : 1953

Diameter (in Inches)	Shank Dia.	Cutting Edge Length	Overall Length	Price
1/4	1/4	5/8	2.1/8	187
5/16	3/8	3/4	2.1/2	187
3/8	3/8	7/8	2.5/8	187
7/16	1/2	7/8	2.5/8	187
1/2	1/2	1	2.3/4	294
9/16	1/2	1.1/8	2.7/8	422
5/8	5/8	1.1/4	3.1/4	580
11/16	5/8	1.3/8	3.3/8	683
3/4	5/8	1.1/2	3.1/2	683
7/8	3/4	1.5/8	3.5/8	948
1	3/4	1.3/4	3.3/4	1190
1.1/8	1	1.7/8	4.1/8	1890
1.1/4	1	2	4.1/4	1903
1.3/8	1	2.1/8	1.5/8	2790
1.1/2	1	2.1/4	4.3/4	3197

High Speed Steel Taper Shank Slot Drills



Specifications conform to
IS 6388-1971

Diameter (in mm)	Cutting Edge Length	Overall Length	Morse Taper No.	Price
6	8	82	1	418
7	10	84	1	418
8	10	84	1	418
9	10	84	1	418
10	16	90	1	418
11	16	90	1	418
12	16	90	1	418
13,14	16	90	1	707
15,16	18	110	2	840
17	18	110	2	902
18	18	110	2	1091
19	20	114	2	1091
20	20	114	2	1188
21	20	114	2	1271
22	22	118	2	1271
23	22	118	2	1693
24	25	143	3	1693
25	25	143	3	1693
26,27	25	143	3	1819
28	25	143	3	2170
29	28	148	3	2170
30,31	28	148	3	2402
32	28	148	3	2786
33,34	32	179	4	3877
35	32	179	4	3877
36	32	179	4	4049
37,38	36	186	4	4452
39,40	36	186	4	4715

High Speed Steel Counterbores with Morse Taper Shank & Detachable Pilots



Specifications conform to
IS 5710-1988
ISO 4207-1977

Diameter mm	Cutting Edge Length	Overall Length	Morse Taper No.	Pilot Diameter	Price
13.5	22	132	2	5.0 to 11.2	765
14.5	22	132	2	5.0 to 12.5	844
16.5	25	140	2	6.3 to 14.0	950
17.5	25	140	2	6.3 to 14.0	1668
19.5	25	140	2	6.3 to 16.0	1203
20	25	140	2	6.3 to 18.0	1336
22	30	150	2	8.0 to 18.0	1567
23	30	150	2	8.0 to 20.0	1787
25	30	150	2	8.0 to 22.4	2037
26	35	180	3	10.0 to 22.4	2229
28	35	180	3	10.0 to 22.4	2592
29	35	180	3	10.0 to 25.0	2727
30	35	180	3	10.0 to 25.0	2941
31	35	180	3	10.0 to 25.0	2941
33	40	190	3	12.5 to 28.0	3410
34	40	190	3	12.5 to 28.0	3620
35	40	190	3	12.5 to 31.5	4081
36	40	190	3	12.5 to 31.5	4081
37	40	190	3	12.5 to 31.5	4263
39	40	190	3	12.5 to 31.5	4617
40	50	236	4	16.0 to 35.5	5931
41	50	236	4	16.0 to 35.5	5931
43	50	236	4	16.0 to 35.5	6131
46	50	236	4	16.0 to 40.0	6963
48	50	236	4	16.0 to 40.0	7580
51	63	250	4	20.0 to 40.0	8547
53	63	250	4	20.0 to 45.0	9321
55	63	250	4	20.0 to 45.0	10236
57	63	250	4	20.0 to 50.0	11269
59	63	250	4	20.0 to 50.0	12302
61	63	250	4	20.0 to 50.0	13894
63	63	250	4	20.0 to 56.0	19509

A cutter with teeth on the periphery and the end, integral with Morse Taper Shank, and having a detachable pilot. The cutter is intended for producing a flat seating for the accommodation of the head of a bolt set screw etc. and is located by means of the pilot with relation to a centre hole.

High Speed Steel Counterbores with Morse Taper Shank & Detachable Pilots



Specifications confirm to
IS 5710-1988
ISO 4207-1977

Diameter mm	Cutting Edge Length	Overall Length	Morse Taper No.	Pilot Diameter	Price
1/2	3/4	4.3/4	1	5/16	659
9/16	13/165	5.3/8	2	3/8	512
5/8	7/8	5.5/8	2	7/16	913
11/16	15/16	5.7/8	2	7/16	1040
3/4	1	5.15/16	2	1/2	1149
13/16	1.1/16	6.3/16	2	9/16	1267
7/8	1.1/8	6.7/16	2	5/8	1450
15/16	1.1/4	7.7/16	3	5/8	1765
1	1.3/8	7.1/2	3	3/4	2038
1.1/8	1.1/2	7.3/4	3	3/4	2608
1.1/4	1.5/8	8	3	3/4	2941
1.3/8	1.3/4	9	4	13/16	3762
1.1/2	1.7/8	9	4	7/8	4375
1.5/8	2	9	4	15/16	5749
1.3/4	2.1/8	9	4	1	6749
1.7/8	2.1/4	9	4	1.1/8	7506
2	2.1/2	9	4	1.1/4	9410

Counterbores of size upto and including 1/2" dia. are supplied with solid pilot

High Speed Steel Counter Sinks 60, 90 & 120 Degree with Morse Taper Shank



Specifications conform to
IS 13303-1992
ISO 3293-1975

Nominal size	Small Dia.	Overall Length		Body Length		Morse Taper No.	Price
		60 deg.	90&120	60 deg.	90&120		
16.0	3.2	97	93	24	20	1	6749
20.0	4.0	120	116	28	24	2	716
25.0	7.0	125	121	33	29	2	1212
31.5	9.0	132	124	40	32	2	2246
40.0	12.5	160	150	45	35	3	4231
50.0	16.0	165	153	50	38	3	6396
63.0	20.0	200	185	58	43	4	7879
80.0	25.0	215	196	73	54	4	12159

A cutter with teeth on the conical cutting faces, integral with a Morse Taper Shank designed to produce a conical seating to accommodate the conical head of a component such as screw or rivet.

R.H cutting with straight teeth shall be supplied unless otherwise specified.

High Speed Steel Counter Sinks 60, 90 & 120 Degree with Parallel Shank



Specifications conform to
IS 13304-1992
ISO 3294-1975

Nominal Size	Small Dia.	Overall Length		Body Length		Shank Dia.	Price
		60 deg.	90&120	60 deg.	90&120		
8.0	1.6	48	44	---	---	8	338
10.0	2.0	50	46	18	14	8	367
12.5	2.5	52	48	20	16	8	480
16.0	3.2	60	56	24	20	10	613
20.0	4.0	64	60	28	24	10	754
25.0	7.0	69	65	33	29	10	1102

A cutter with teeth on the conical cutting faces, integral with a parallel shank designed to produce a conical seating to accommodate the conical head of a component such as screw or rivet.

R.H cutting with straight teeth shall be supplied unless otherwise specified.

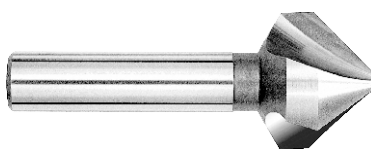
High Speed Steel Counter Sinks 60 Or 90 Degree with Taper Shank



Specifications conform to
BS-122 : Part 2 : 1964

Body Diameter	Overall Length	Small Diameter	Morse Taper No.	Price
1/2	3.1/2	5/32	1	503
5/8	3.5/8	3/16	1	674
3/4	4.1/4	1/4	2	716
7/8	4.1/4	9/32	2	957
1	4.3/8	5/16	2	1212
1.1/8	4.1/2	3/8	2	1636
1.1/4	5.3/8	13/32	3	2246
1.3/8	5.3/8	7/16	3	2501
1.1/2	5.1/2	1/2	3	3052
1.3/4	6.3/4	9/16	4	4694
2	7	21/32	4	6396
2.1/4	7.1/4	3/4	4	6749
2.1/2	7.3/4	13/16	4	7994
2.3/4	8	7/8	4	9460
3	8.1/4	1	4	12159

High Speed Steel Counter Sink 3 Flute



max d mm	min d mm	Body Length	Overall Length	Shank Dia	# of Flutes	Price
6.6 (1/4)	1.5	5.0	45	5	3	493
8.3 (5/16)	2.0	6.0	50	6	3	519
10.4 (3/8)	2.5	7.1	50	6	3	552
12.4 (1/2)	2.8	8.0	56	8	3	721
16.5 (5/8)	3.2	10.0	60	10	3	936
20.5 (3/4)	3.5	12.5	63	10	3	1138
25.0 (1")	3.8	15.0	67	10	3	1682
31.0 (1.1/4)	4.2	18.0	71	12	3	2656

High Speed Steel T-Slot with Taper Shank



Specifications conform to
BS 122-1953 : Part 1

Nominal Size of T-Slot.	Dia. of Cutter	Width of Cutter	Morse Taper No.	Thread Size of Tapped Hole	Overall Length	Price
¼	37/64	¼	2	3/8 BSW	3.9/16	898
5/16	45/64	5/16	2	3/8 BSW	3.3/4	1113
3/8	53/64	23/64	2	3/8 BSW	3.7/8	1374
7/16	61/64	27/64	2	3/8 BSW	4.1/16	1525
½	1.5/64	15/32	2	3/8 BSW	4.3/16	2207
5/8	1.21/64	37/64	3	½ BSW	5.1/8	2990
¾	1.33/64	11/16	3	½ BSW	5.7/16	3572
7/8	1.45/64	51/64	3	½ BSW	5.3/4	4245
1	1.61/64	29/32	4	5/8 BSW	7.1/16	4901
1.1/8	2.1/8	1.1/16	4	5/8 BSW	7.1/8	6220
1.1/4	2.5/16	1.3/16	4	5/8 BSW	7.3/8	7681
1.3/8	2.1/2	1.5/16	5	5/8 BSW	8.7/8	9121
1.1/2	2.3/4	1.7/16	5	5/8 BSW	9.1/8	9705

Right Hand Cutter with Straight Teeth will be supplied unless otherwise specified

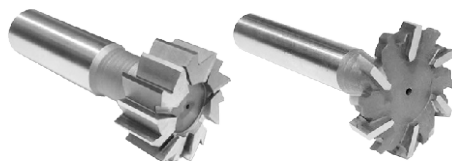
High Speed Steel T-Slot with Taper Shank



Nominal Size of T-Slot.	Dia. of Cutter	Width of Cutter	Morse Taper No.	Thread Size of Tapped Hole	Overall Length	Price
10	18	8	2	M 10	93	1113
12	21	9	2	M 10	98	1365
14	25	11	2	M 10	104	1884
18	32	14	2	M 10	132	2673
22	40	18	3	M 12	144	3625
28	50	22	4	M 16	181	4901
36	60	28	4	M 16	200	8331
42	72	35	5	M 20	242	10325

Right Hand Cutter with Straight Teeth will be supplied unless otherwise specified

High Speed Steel T-Slot with Parallel Shank

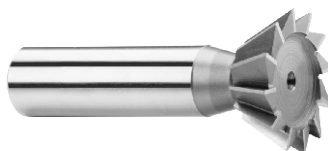


Specifications conform to
IS 2668-1978

Nominal Size of T-Slot.	Dia. of Cutter	Width of Cutter	Overall Length	Dia of Shank	Price
10	18	8	70	12	1113
12	21	9	74	12	1365
14	25	11	82	16	1884
18	32	14	90	16	2673
22	40	18	108	25	3625
28	50	22	124	32	4901
36	60	28	139	32	8331

Right Hand Cutter with Straight Teeth will be supplied unless otherwise specified

High Speed Steel Dovetail Milling Cutter Angle 45° Or 60°



Specifications conform to
IS 6255-1982

Dia. of Cutter in MM	Dia. of Cutter in Inches	Overall Length	Dia of Shank in MM	Dia of Shank in Inches	Price
12	1/2	60	10	3/8	825
16	5/8	60	12	1/2	864
20	3/4	63	12	1/2	1065
25	1	67	16	5/8	1467
32	1.1/4	71	16	5/8	1999
40	1.1/2	75	20	3/4	3031
50	2	80	25	1"	4269
56		100	25	1"	5472
60		100	25	1 1/4"	5945

High Speed Steel Core Drills with Taper Shank



Specifications conform to
IS 5366-1978

Diameter (in mm)	Cutting Edge Length	Overall Length	Morse Taper No.	Price
7	69	150	1	532
8	75	156	1	578
9	81	162	1	578
10	87	168	1	626
11	94	175	1	631
12	101	182	1	666
13	101	182	1	920
14	108	189	1	1009
15	114	212	2	1122
16	120	218	2	1155
17	125	223	2	1216
18	130	228	2	1299
19	135	233	2	1613
20	140	238	2	1613
21	145	243	2	1802
22	150	248	2	1899
23	155	253	2	2053
24	160	281	3	2725
25	160	281	3	2725
26	165	286	3	2909
27	170	291	3	2995
28	170	291	3	3430
29	175	296	3	4055
30	175	296	3	4206
31	180	301	3	4342
32	185	334	4	5511
33	185	334	4	5526
34	190	339	4	6043
35	190	339	4	6626
36	195	344	4	7130
37	195	344	4	7515
38	200	349	4	8270
39,40	200	349	4	9072

High Speed Steel Core Drills with Taper Shank



Diameter (in mm)	Cutting Edge Length	Overall Length	Morse Taper No.	Price
41	205	354	4	9628
42	205	354	4	9912
43	210	359	4	16229
44	210	359	4	10818
45	210	359	4	11624
46	215	364	4	11871
47	215	364	4	12067
48	220	369	4	12688
49	220	369	4	14067
50	220	369	4	14805

High Speed Steel Core Drills with Taper Shank



Specifications conform to
IS 5366-1978

Diameter (in Inches)	Cutting Edge Length	Overall Length	Morse Taper No.	Price
9/32	2.23/32	5.29/32	1	532
5/16	2.15/16	6.1/8	1	578
11/32	3.3/16	6.3/8	1	463
3/8	3.7/16	6.5/8	1	626
7/16	3.11/16	6.7/8	1	631
15/32	3.31/32	7.5/32	1	666
1/2	3.31/32	7.5/32	1	721
17/32	4.1/4	7.7/16	1	1009
9/16	4.1/2	8.3/8	2	1009
19/32	4.3/4	8.5/8	2	1122
5/8	4.3/4	8.5/8	2	1155
21/32	4.7/8	8.3/4	2	1216
23/32	5.1/4	9.1/8	2	1299
3/4	5.1/2	9.3/8	2	1613
13/16	5.3/4	9.5/8	2	1802
7/8	5.7/8	9.3/4	2	1899
15/16	6.1/4	11	3	2725
1	6.1/2	11.1/4	3	2725
1.1/16	6.5/8	11.3/8	3	3430
1.3/16	7.1/8	11.7/8	3	4206
1.1/4	7.1/4	12	3	5510
1.9/32	7.1/4	13.1/8	4	5510
1.5/16	7.1/4	13.1/8	4	5510
1.11/32	7.1/2	13.3/8	4	6043
1.3/8	7.1/2	13.3/8	4	6626
1.7/16	7.5/8	13.1/2	4	7515
1.1/2	7.7/8	13.3/4	4	8271
1.9/16	7.7/8	13.3/4	4	9072
1.5/8	8.1/8	14	4	9628
1.11/16	8.1/4	14.1/8	4	10229
1.3/4	8.1/4	14.1/8	4	10818
1.7/8	8.5/8	14.1/2	4	12688
1.15/16	8.5/8	14.1/2	4	14070
2	8.5/8	14.3/4	4	16737

High Speed Steel Bridge Reamer with Taper Shank



Specifications conform to
IS 5919-1978

Diameter (in mm)	Cutting Edge Length	Overall Length	Morse Taper No.	Price
6.4	75	151	1	659
7.4	80	156	1	659
8.4	85	161	1	743
9.5	90	166	1	860
10	95	171	1	960
11	100	176	1	961
12	105	199	2	1347
13	105	199	2	1347
14	115	209	2	1347
15	125	219	2	1505
16	135	229	2	1505
17	135	251	3	2305
18	145	261	3	2305
19	145	261	3	2305
20	155	271	3	2537
21	155	271	3	2855
22	165	281	3	2855
23	165	281	3	2999
25	180	296	3	3342
26	180	296	3	3608
27	195	311	3	3608
28	195	311	3	4057
29	195	311	3	4385
30	210	326	3	4385
31	210	326	3	4821

L.H Helical flutes for R.H cutting shall be supplied unless otherwise specified

High Speed Steel Bridge Reamer with Taper Shank



Specifications conform to
BS 122- Part 2-1964

Diameter (in MM)	Cutting Edge Length	Overall Length	Dia of small end of taper	Morse Taper Shank No.	Price
¼	3.3/8	6.3/8	1/8	1	659
5/16	3.3/4	6.3/4	3/16	1	743
3/8	4	7	7/32	1	860
7/16	4.3/8	8.1/8	¼	2	961
½	5.3/8	9.1/8	9/32	2	1347
9/16	5.3/8	9.1/8	5/16	2	1347
5/8	6.1/8	9.7/8	11/32	2	1505
11/16	6.1/8	9.7/8	3/8	2	194
11/16	6.1/8	11.3/4	3/8	3	2305
¾	7.1/8	12	7/16	3	2305
13/16	7.3/8	12	½	3	2539
7/8	7.3/8	12	9/16	3	3200
15/16	7.3/8	12	5/8	3	3200
1	7.1/8	12	11/16	3	3342
1.1/16	7.3/8	12	¾	3	3606
1.1/8	7.3/8	12	13/16	3	3892
1.3/16	7.3/8	12	7/8	3	4214
1.1/4	7.3/8	13	15/16	3	4821

L.H Helical flutes for R.H cutting shall be supplied unless otherwise specified

High Speed Steel Machine Taper Pin Reamers



Specifications conform to
IS 5918-1984
ISO 3467-1975

Diameter	Cutting Edge Length	Overall Length	Morse Taper No.	Price
6	105	187	1	576
8	145	227	1	872
10	175	257	1	1143
12	210	315	2	1449
16	230	335	2	2277
20	250	377	3	4093
25	300	427	3	6129
30	320	475	4	16132
40	340	495	4	16939
50	360	550	5	26510

A Reamer having tapered cutting edges for holes to suit pins with a taper of 1:50 on diameter integral with a Morse Taper Shank

L.H Helical flutes for R.H cutting shall be supplied unless otherwise specified.

Diameter (in Inches)	Cutting Edge Length	Overall Length	Large End Dia	Small End Dia.	Morse Taper No.	Price
1/4	3.7/8	6.13/16	0.258	0.1775	1	531
9/32	4.5/8	7.5/8	0.297	0.2009	1	682
5/16	4.5/8	7.5/8	0.321	0.2249	1	753
11/32	5.5/32	8.3/32	0.353	0.2471	1	890
3/8	5.13/16	8.7/8	0.389	0.2683	1	904
13/32	6.9/16	9.5/8	0.420	0.2837	1	1109
7/16	6.11/16	9.3/4	0.453	0.3134	1	1155
1/2	7.7/16	10.1/2	0.516	0.3608	1	1393
9/16	7.3/4	11.1/2	0.581	0.4200	2	1590
5/8	8.1/2	12.1/4	0.643	0.4664	2	1769
3/4	9.3/4	13.1/2	0.770	0.5673	2	2334
7/8	10.1/2	14.1/4	0.895	0.6767	2	2878

High Speed Steel Hand Taper Pin Reamers



Specifications conform to
IS 5918-1984
ISO 3467-1975

Nominal Dia. of Reamer	Overall Length	Cutting Edge Length	Shank Dia.	Price Each in Rupees
3	80	58	4	576
4	93	68	5	576
5	100	73	6.3	576
6	135	105	8	576
8	180	145	10	872
10	215	175	12.5	1143
12	255	210	14	1449
16	280	230	18	2277
20	310	250	22.4	3249
25	370	300	28	5218
30	400	320	31.5	7214



Nominal Diameter	Cutting Edge Length	Overall Length	Large End Dia. and Shank Dia.	Small End Dia.	Price Each in Rupees
1/8	1.3/4	2.3/4	0.127	0.0905	531
5/32	2	3	0.158	0.1163	531
3/16	2.3/4	4	0.195	0.1377	531
7/32	2.3/4	4	0.220	0.1627	531
1/4	3.3/8	4.5/8	0.253	0.1827	531
9/32	4.1/8	5.5/8	0.292	0.2061	682
5/16	4.1/8	5.5/8	0.316	0.2301	753
11/32	4.1/2	6	0.347	0.2533	890
3/8	5	6.1/2	0.381	0.2768	904
13/32	5.3/4	7.1/2	0.412	0.2922	1109
7/16	5.3/4	7.1/2	0.443	0.3232	1129
1/2	6.1/2	8.1/4	0.506	0.3706	1393
9/16	6.3/4	8.1/2	0.571	0.4304	1587
5/8	7.1/2	9.1/4	0.633	0.4768	1769
3/4	8.3/4	10.3/4	0.760	0.5777	2334
7/8	9.1/2	12	0.885	0.6871	2877

High Speed Steel Hole Mills Unguided-Type 'A'



Specifications conform to
IS 5989-1998

Diameter (in Inches)	Cutting Edge Length	Overall Length	Morse Taper No.	Price
5.9	25	110	1	767
7.9	25	120	1	796
9.9	30	125	1	996
11.8	35	140	1	1079
12.8	35	140	1	1368
13.8	40	160	1	1368
14.8	45	160	2	1578
15.8	45	160	2	1578
17.8	45	180	2	2050
19.8	55	180	2	2234
21.7	55	200	2	2665
23.7	60	200	3	3429
24.7	60	200	3	3701
25.7	60	200	3	4131
26.7	60	220	3	4131
27.7	60	220	3	4519
29.7	60	220	3	4697
31.7	60	220	3	5457
33.7	60	250	4	5782
34.7	60	250	4	6118
35.7	60	250	4	6741
37.7	60	250	4	7424
39.7	60	250	4	8148
41.6	60	250	4	9287
44.6	60	250	4	10092
46.6	60	280	4	11976
47.6	60	280	4	12427
49.6	60	280	4	12904

High Speed Steel Hole Mills Guided - Type 'B'



Specifications conform to
IS 5989-1998

Diameter		Cutting Edge Length	Overall Length	Morse Taper No.	Price
Roughing	Finishing				
5.9	6	25	150	1	822
7.9	8	25	170	1	867
9.9	10	30	180	1	997
11.8	12	35	190	1	1130
12.8	13	35	200	1	1375
13.8	14	35	200	1	1375
14.8	15	35	210	2	1578
15.8	16	40	230	2	1578
17.8	18	45	235	2	2056
19.8	20	45	245	2	2234
21.7	22	45	255	2	2665
23.7	24	55	290	3	3429
24.7	25	55	290	3	3701
25.7	26	60	305	3	4131
26.7	27	60	305	3	4519
27.7	28	60	305	3	4519
29.7	30	60	320	3	4697
31.7	32	60	320	3	5457
33.7	34	60	360	4	5544
34.7	35	60	360	4	5871
35.7	36	60	360	4	6476
37.7	38	60	390	4	7433
39.7	40	60	390	4	8159
41.6	42	60	390	4	9315

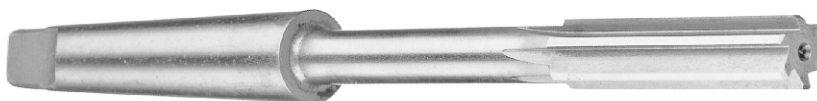
High Speed Steel Chucking Reamers With Parallel Shank



Specifications conform to
IS 5446-1978
BS 328 Part 4 : 1983

Diameter		Dia of Shank	Cutting Edge Length	Overall Length	Price
mm	Inches				
6.0		5.6	26	93	363
¼	6.3	28	101	248	363
7.0	9/32	7.1	31	109	363
8.0	5/16	8.0	33	117	409
9.0	11/32	9.0	36	125	439
10.0	3/8	10.0	38	133	528
11.0	7/16	10.0	41	142	591
12.0	15/32	10.0	44	151	622
13.0	½	10.0	44	151	829
14.0	---	12.5	47	160	829
15.0	9/16	12.5	50	162	974
16.0	5/8	12.5	52	170	974
17.0	---	14.0	54	175	1168
18.0	---	14.0	56	182	1253
19.0	---	16.0	58	189	1332
20.0	---	16.0	60	195	1481

High Speed Steel Chucking Reamers With Taper Shank

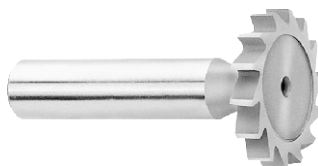


Specifications conform to
IS 5447-1978
BS 328 Part 4 : 1983

Diameter		Cutting Edge Length	Overall Length	Morse Taper No.	Price
mm	Inches				
6.0	---	26	138	1	430
---	¼	28	144	1	430
7.0	---	31	150	1	430
8.0	5/16	33	156	1	447
9.0	---	36	162	1	557
10.0	3/8	38	168	1	583
11.0	7/16	41	175	1	666
12.0	---	44	182	1	680
13.0	½	44	182	1	887
14.0	---	47	189	1	887
15.0	9/16	50	204	2	974
16.0	5/8	52	210	2	974
17.0	---	54	214	2	1168
18.0	11/16	56	219	2	1253
19.0	---	58	223	2	1332
20.0	¾	60	228	2	1481
---	13/16	62	232	2	1811
22.0	7/8	64	237	2	1811
24.0	15/16	64	268	3	2298
25.0	---	68	268	3	2298
26.0	1	68	273	3	2660
28.0	1.1/16	70	277	3	3114
30.0	1.1/8	71	281	3	3112
---	1.3/16	73	285	3	4057
---	1.1/4	75	290	3	4057
32.0	1.5/16	77	317	4	4057
34.0	---	78	321	4	5385
35.0	1.3/8	78	321	4	5853
36.0	1.7/16	79	325	4	5863
38.0	1.1/2	81	329	4	6441
40.0	---	81	329	4	8225
42.0	1.5/8	82	333	4	9989
44.0	---	83	336	4	9989

Diameter		Cutting Edge Length	Overall Length	Morse Taper No.	Price
mm	Inches				
45.0	1.3/4	83	336	4	11275
46.0	---	84	340	4	11275
48.0	1.7/8	86	344	4	13066
50.0	2	86	344	4	13066

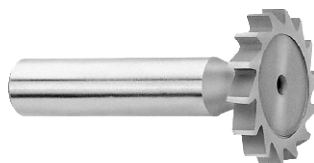
High Speed Steel Woodruff Key Slot Milling Cutters (Type – A Straight Teeth)



Specifications conform to
IS 2669-1971

Diameter (in mm)	Width	Dia of Shank	Overall Length	Woodruff Keys to IS - 2294	Price
10.5	2	6	50	2x3.7	307
10.5	2.5	6	50	2.5x3.7	307
10.5	3	6	50	3x3.7	307
13.5	3	10	56	3x5.0	341
13.5	4	10	56	4x5.0	341
16.5	3	10	56	3x6.5	476
16.5	4	10	56	4x6.5	476
16.5	5	10	56	5x6.5	476
19.5	4	10	56	4x7.5	504
19.5	5	10	56	5x7.5	504
19.5	6	10	63	6x7.5	504
22.5	5	10	63	5x9.0	638
22.5	6	10	63	6x9.0	638
22.5	8	10	63	8x9.5	638
25.5	6	10	63	6x10	754
28.5	6	10	63	6x11	874
28.5	8	10	63	8x11	874
28.5	10	12	71	10x11	874
32.5	8	10	63	8x13	1054
32.5	10	12	71	10x13	1054
45.5	10	12	71	10x16	2002

High Speed Steel Woodruff Key Slot Milling Cutters (Type – A Straight Teeth)



Specifications conform to
BS 122:Part 2 : 1953

BS Cutter & Key No.	Dia. of Cutter	Width of Cutter	Overall Length	Dia. of Shank	Price
204	0.505	0.061	2	1/2	353
304	0.505	0.093	2	1/2	353
404	0.505	0.124	2	1/2	353
305	0.630	0.093	2	1/2	376
405	0.630	0.124	2	1/2	376
505	0.630	0.155	2	1/2	376
406	0.755	0.124	2.1/4	1/2	449
506	0.755	0.155	2.1/4	1/2	449
606	0.755	0.187	2.1/4	1/2	449
507	0.880	0.155	2.1/2	1/2	504
607	0.880	0.187	2.1/2	1/2	504
807	0.880	0.249	2.1/2	1/2	504
608	1.005	0.187	2.3/4	1/2	631
808	1.005	0.249	2.3/4	1/2	631
1008	1.005	0.187	2.3/4	1/2	631
609	1.130	0.249	2.3/4	1/2	901
809	1.130	0.311	2.3/4	1/2	901
1009	1.130	0.187	2.3/4	1/2	901
810	1.255	0.249	2.3/4	1/2	1067
1010	1.255	0.311	2.3/4	1/2	1067
1210	1.255	0.374	2.3/4	1/2	1067
1011	1.380	0.311	3	1/2	1241
1211	1.380	0.374	3	1/2	1241
812	1.505	0.249	3	1/2	1652
1012	1.505	0.311	3	1/2	1652
1212	1.505	0.374	3	1/2	1652

High Speed Steel Woodruff Cutters Staggered Teeth



CUTTER DIAMETER	WIDTH OF FACE	SHANK DIAMETER	OVERALL LENGTH	NUMBER OF TEETH	PRICE
10.5	2	6	50	8	777
10.5	2.5	6	50	8	777
10.5	3	6	50	8	777
13.5	2	10	56	8	815
13.5	2.5	10	56	8	815
13.5	3	10	56	8	815
13.5	4	10	56	8	815
16.5	2.5	10	56	8	1214
16.5	3	10	56	8	1214
16.5	4	10	56	8	1214
16.5	5	10	56	8	1214
19.5	3	10	56	8	1309
19.5	4	10	63	10	1309
19.5	5	10	63	10	1309
19.5	6	10	63	10	1309
22.5	4	10	63	10	1670
22.5	5	10	63	10	1670
22.5	6	10	63	10	1670
22.5	8	10	63	10	1670
22.5	5	10	63	10	1670
22.5	6	10	63	10	1670
22.5	7	10	63	10	1670
22.5	8	10	63	10	1670
28.5	5	10	63	10	2292
28.5	6	10	63	10	2292
28.5	7	10	63	10	2292
28.5	8	10	63	10	2292
28.5	10	12	71	10	2292
32.5	5	12	71	12	2751
32.5	6	12	71	12	2755
32.5	7	12	71	12	2751
32.5	8	12	71	12	2751
32.5	10	12	71	12	2751
38.5	7	12	71	12	4012
38.5	8	12	71	12	4012
38.5	9	12	71	12	4012
38.5	10	12	71	12	4012
45.5	10	12	71	14	5237

High Speed Steel Combined Drill and Countersink Central Drill



Specifications conform to
IS 6708-1970

Pilot Drill	Body Diameter	Overall Length	Price
1.6	4.0	37.5	102
2.0	5.0	42.0	102
2.5	6.3	47.0	121
3.15	8.0	52.0	190
4.0	10.0	59.0	208
5.0	12.5	66.0	464
6.3	16.0	74.0	602
8.0	20.0	83.0	968
10.0	25.0	103.0	2011



B.S. No.	Pilot Drill	Body Diameter	Overall Length	Price
1	3/64	1/8	1.1/2	102
2	1/16	3/16	1.3/4	102
3	3/32	1/4	2	121
4	1/8	5/16	2.1/4	190
5	3/16	7/16	2.1/2	229
6	1/4	5/8	3	602
7	5/16	3/4	3.1/2	968

High Speed Steel Combined Drill and Countersink Central Drill (Type - 'B')

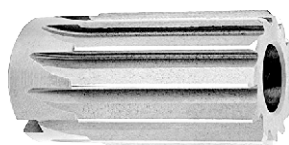


Specifications confirm to
IS 6709-1977

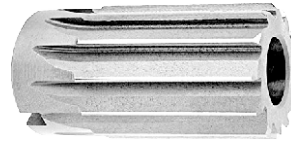
Pilot Drill	Body Diameter	Bell Diameter	Overall Length	Price
1.6	6.3	3.35	47.0	184
2.0	8.0	4.25	52.0	266
2.5	10.0	5.30	59.0	320
3.15	11.2	6.80	63.0	447
4	14.0	8.50	70.0	692
5	18.0	10.60	78.0	1014
6.3	20.0	13.20	83.0	1128
10	31.5	21.20	126.0	4176

High Speed Steel

SHELL REAMERS As per B.S. 122- Part 2 : 1964 As per IS-5926-1970



Dia of cutter	Price in Rs.	Dia of cutter	Price in Rs.
21,22,23	2484	1	2484
24,25	2554	1.1/16	2640
26,27	2645	1.1/8	2794
28	2794	1.3/16	2968
29,30	2968	1.1/4	3116
31,32	3116	1.5/16	3256
33	3256	1.3/8	3391
34,35	3391	1.7/16	3714
36	3562	1.1/2	3964
37,38	3714	1.9/16	4134
39,40	3964	1.5/8	4689
41	4138	1.11/16	4810
42	4689	1.3/4	4963
43	4689	1.13/16	5207
44	4810	1.7/8	5321
45,46	4962	1.15/16	5551
47	5207	2	6157
48,49	5321	2.1/16	6157
50	5551	2.1/8	6740
51,52,53,54	6157	2.3/16	6740
55,56,57	6740	2.1/4	7583
58,59,60	7583	2.5/16	7583
61,62,63	9461	2.3/8	9461
64,65,66	10993	2.7/16	9461
67,68	11977	2.1/2	10993
69,70,71	12840	2.5/8	11977
72,73	13269	2.3/4	13269
74,75,76	14669	2.7/8	14669
77,78,79	16409	3	16409
80,81,82	18060	3.1/8	18060
83,84,85	19492	3.1/4	19492
86,87,88,89	22020	3.3/8	20870
90,91,92	24701	3.1/2	24701



Dia of cutter	Price in Rs.	Dia of cutter	Price in Rs.
93,94,95	25798	3.5/8	25798
96,97	29489	3.3/4	29489
98,99,100	33390	3.7/8	33390

A short reamer with an axial taper hole generally 1:30 with across slot for use on an arbor and having parallel cutting edges with bevel lead.

High Speed Steel Circular Segmental Saws & Spare Segments



Diameter		No. of Segments per Saw	Nominal cutting width	Per Segment	For complete Saw
mm	Inches				
250	10"	10	0.135"	769	11804
275	11"	10	0.156"	800	12132
315	12"	14	0.175"	834	13968
360	14"	15	0.200"	842	15444
385	15"	15	0.200"	884	23314
410	16"	18	0.200"	925	24624
460	18"	18	0.230"	952	25282
510	20"	18	0.230"	987	33150
560	22"	18	0.230"	1045	36593
610	24"	20	0.245"	1110	40036
660	26"	20	0.245"	1141	45445
710	28"	24	0.245"	1157	53807
760	30"	24	0.245"	1183	54298
810	32"	24	0.260"	1231	61184
860	34"	24	0.260"	1290	86267
860	34"	30	0.260"	1309	91808
910	36"	30	0.260"	1328	93644
918	36"	30	0.280"	1328	97220
965	38"	30	0.335"	1362	99547
1010	40"	30	0.335"	1454	Rate On Request
1068	42"	30	0.335"	1531	Rate On Request
1118	44"	30	0.335"	1603	Rate On Request
1220	48"	36	0.370"	2094	Rate On Request
1376	54"	36	0.425"	4316	Rate On Request
1430	56"	36	0.425"	4766	Rate On Request
1530	60"	36	0.460"	5447	Rate On Request



HSS ANNULAR CUTTER

Annular Cutter Dia	Price Std(65mm)	Price Long(85mm)	Price Long(105mm)	Price Long(125mm)
	CEL 30	CEL 55	CEL 60	CEL 80
12mm-13mm	1477	1925	2310	3080
14mm-17mm	1540	1988	2385	3180
18mm-19mm	1687	2068	2482	3309
20mm-21mm	1785	2205	2646	3528
22mm-23mm	2145	2338	2805	3740
24mm-25mm	2233	2583	3099	4132
26mm-27mm	2394	2758	3309	4412
28mm-29mm	2646	2905	3486	4648
30mm-31mm	2728	3150	3780	5040
32mm-33mm	2858	3346	4015	5353
34mm-35mm	2980	3577	4292	5723
36mm	3395	3795	4554	6072
37mm-38mm	3725	4186	5023	6697
39mm-40mm	4088	4511	5413	7218
41mm-42mm	4525	4798	5758	7677
43mm	4683	5075	6090	8120
44mm-45mm	4956	5446	6535	8713
46mm-47mm	5169	5853	7023	9365
48mm-49mm	5537	6055	7266	9688
50mm-51mm	5890	6188	7425	9900
52mm	6299	7623	9147	12196
53mm	6755	7812	9374	12499
54mm	6975	8082	9699	12932
55mm	7248	8365	10038	13384
56mm	7378	8565	10278	13704
57mm	7700	8841	10609	14145
58mm	7977	9026	10831	14442
59mm	8173	9420	11305	15073
60mm	8435	9506	11407	15209
61mm	8648	10476	12571	16762
62mm - 64mm	9135	10934	13120	17494
65mm	9366	11130	13356	17808

Note: Ejector Pin Charges Rs.425/- each extra

The Shank dia from 12mm to 65mm is 3/4" or 19mm dia

The Shank dia above 65mm is 1.1/4"



SOLID CARBIDE ENDMILL 4Flute and 2 Flute

Code	Diameter	Cutting Edge leghth	Overall length	Shank Dia	Price in Rs
EM10001	1	3	38	3	661
EM10002	1.5	6	38	3	661
EM10003	2	9	38	3	630
EM10004	2.5	12	38	3	630
EM10005	3	12	38	3	714
EM10006	4	14	50	4	777
EM10007	5	20	50	5	1055
EM10008	6	20	64	6	1144
EM10009	7	20	64	7	1554
EM10010	8	20	64	8	1554
EM10011	10	25	70	10	2614
EM10012	12	25	76	12	3202
EM10013	14	30	89	14	5670
EM10014	16	30	89	16	6457
EM10015	18	35	102	18	10489
EM10016	20	38	102	20	10489
EM10017	22	40	102	22	14679
EM10018	25	40	102	25	17220

SOLID CARBIDE ENDMILL LONG SERIES

Code	Diameter	Cutting Edge leghth	Overall length	Shank Dia	Price in Rs
EML10019	3	25	64	3	1134
EML10020	4	25	64	4	1260
EML10021	5	25	64	5	1375
EML10022	6	30	76	6	1617
EML10023	8	35	83	8	2310
EML10024	10	40	89	10	3234
EML10025	12	50	102	12	4268
EML10026	14	65	117	14	7371
EML10027	16	65	117	16	9828
EML10028	20	80	133	20	16758
EML10029	25	80	152	25	24990



SOLID CARBIDE ENDMILL EXTRA LONG SERIES

Code	Diameter	Cutting Edge length	Overall length	Shank Dia	Price in Rs
EMEL10030	3	25	75	3	1239
EMEL10031	4	25	75	4	1365
EMEL10032	5	25	75	5	1459
EMEL10033	6	30	100	6	1837
EMEL10034	8	35	100	8	2488
EMEL10035	8	50	150	8	3591
EMEL10036	10	40	100	10	3423
EMEL10037	10	60	150	10	4651
EMEL10038	12	40	100	12	4284
EMEL10039	12	60	150	12	5985
EMEL10040	12	60	200	12	9171
EMEL10041	14	60	150	14	9334
EMEL10042	14	60	200	14	12495
EMEL10043	16	60	150	16	12579
EMEL10044	16	60	200	16	17640
EMEL10045	18	60	150	18	16695
EMEL10046	18	60	200	18	23835
EMEL10047	20	60	150	20	18742
EMEL10048	20	60	200	20	26145
EMEL10049	25	60	200	25	34434



SOLID CARBIDE BALLNOSE ENDMILL

Code	Diameter	Cutting Edge length	Overall length	Shank Dia	Price in Rs
BEM10050	1	3	38	3	777
BEM10051	1.5	6	38	3	777
BEM10052	2	9	38	3	766
BEM10053	2.5	12	38	3	766
BEM10054	3	12	38	3	924
BEM10055	4	14	50	4	971
BEM10056	5	20	50	5	1239
BEM10057	6	20	64	6	1239
BEM10058	7	20	64	7	1827
BEM10059	8	20	64	8	1890
BEM10060	10	25	70	10	2955
BEM10061	12	25	76	12	3591
BEM10062	14	30	89	14	6898
BEM10063	16	30	89	16	7213
BEM10064	18	35	102	18	12474
BEM10065	20	38	102	20	12474
BEM10066	22	40	102	22	16380
BEM10067	25	40	102	25	18690

SOLID CARBIDE BALLNOSE ENDMILL LONG SERIES

Code	Diameter	Cutting Edge length	Overall length	Shank Dia	Price in Rs
BEL10068	3	25	64	3	1344
BEL10069	4	25	64	4	1522
BEL10070	5	25	64	5	1659
BEL10071	6	30	76	6	1795
BEL10072	8	35	83	8	2793
BEL10073	10	40	89	10	3690
BEL10074	12	50	102	12	4987
BEL10075	14	65	117	14	8599
BEL10076	16	65	117	16	10647
BEL10077	20	80	133	20	26061
BEL10078	25	80	152	25	29253



SOLID CARBIDE BALLNOSE ENDMILL EXTRA LONG SERIES

Code	Diameter	Cutting Edge length	Overall length	Shank Dia	Price in Rs
BEEL10079	3	25	75	3	1554
BEEL10080	4	25	75	4	1643
BEEL10081	5	25	75	5	1690
BEEL10082	6	30	100	6	1984
BEEL10083	8	35	100	8	2887
BEEL10084	8	50	150	8	3780
BEEL10085	10	40	100	10	4084
BEEL10086	10	60	150	10	5827
BEEL10087	12	40	100	12	5029
BEEL10088	12	60	150	12	7192
BEEL10089	12	60	200	12	11340
BEEL10090	14	60	150	14	10972
BEEL10091	14	60	200	14	15015
BEEL10092	16	60	150	16	13440
BEEL10093	16	60	200	16	20842
BEEL10094	18	60	150	18	19845
BEEL10095	18	60	200	18	28455
BEEL10096	20	60	150	20	20790
BEEL10097	20	60	200	20	28140
BEEL10098	25	60	200	25	41685



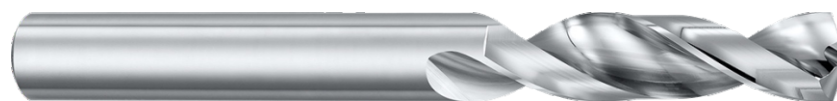
SOLID CARBIDE ENDMILL with CORNER RADIUS 4Flute and 2 Flute

Code	Diameter	Cutting Edge length	Overall length	Shank Dia	Radius	Price in Rs
EMC10099	3	12	38	3	0.3	892
EMC10100	4	14	50	4	0.3	966
EMC10101	4	14	50	4	0.5	966
EMC10102	5	20	50	5	0.3	1239
EMC10103	5	20	50	5	0.5	1239
EMC10104	6	20	64	6	0.3	1312
EMC10105	6	20	64	6	0.5	1312
EMC10106	6	20	64	6	1	1312
EMC10107	8	20	64	8	0.3	1680
EMC10108	8	20	64	8	0.5	1680
EMC10109	8	20	64	8	1	1680
EMC10110	8	20	64	8	1.5	1680
EMC10111	8	20	64	8	2	1680
EMC10112	10	25	70	10	0.3	3034
EMC10113	10	25	70	10	0.5	3034
EMC10114	10	25	70	10	1	3034
EMC10115	10	25	70	10	1.5	3034
EMC10116	10	25	70	10	2	3034
EMC10117	12	25	76	12	0.5	3769
EMC10118	12	25	76	12	1	3769
EMC10119	12	25	76	12	1.5	3769
EMC10120	12	25	76	12	2	3769
EMC10121	16	30	89	16	0.5	7455
EMC10122	16	30	89	16	1	7455
EMC10123	16	30	89	16	1.5	7455
EMC10124	16	30	89	16	2	7455
EMC10125	18	35	102	18	0.5	12810
EMC10126	18	35	102	18	1	12810
EMC10127	18	35	102	18	1.5	12810
EMC10128	18	35	102	18	2	12810
EMC10129	20	38	102	20	0.5	15225
EMC10130	20	38	102	20	1	15225
EMC10131	20	38	102	20	1.5	15225
EMC10132	20	38	102	20	2	15225



SOLID CARBIDE REAMERS

Code	Diameter	Cutting Edge length	Overall length	Shank Dia	Price in Rs
RM10202	3	16	54	3	1155
RM10203	4	20	63	4	1480
RM10204	5	20	75	5	1837
RM10205	6	25	75	6	2247
RM10206	8	30	80	8	3202
RM10207	10	35	100	10	5092
RM10208	12	35	100	12	7056
RM10209	14	40	102	14	9177
RM10210	16	45	102	16	12285



SOLID CARBIDE DRILL

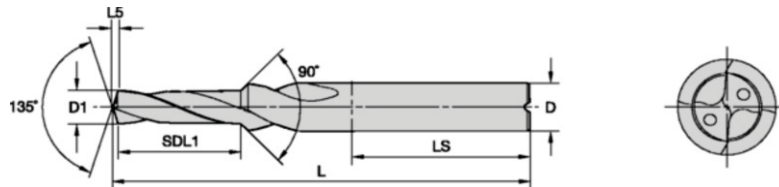
Code	Diameter	Cutting Edge length	Overall length	Shank Dia	Price in Rs
DSS10147	1.5	9	39	2	968
DSS10148	2	12	39	2	968
DSS10149	2.5	14	39	2.5	968
DSS10150	3	20	54	3	968
DSS10151	3.5	20	54	3.5	1056
DSS10152	4	22	54	4	1056
DSS10153	4.5	24	63	4.5	1342
DSS10154	5	26	63	5	1342
DSS10155	5.5	28	63	5.5	1826
DSS10156	6	28	63	6	1826
DSS10157	6.5	31	63	6.5	2024
DSS10158	7	34	63	7	2024
DSS10159	7.5	34	79	7.5	2739
DSS10160	8	37	79	8	2739
DSS10161	9	40	79	9	2948
DSS10162	10	42	79	10	3817
DSS10163	10.5	47	100	10.5	5643
DSS10164	11	47	100	11	5643
DSS10165	12	49	100	12	6248
DSS10166	12.5	51	102	12.5	7348
DSS10167	13	51	102	13	7348
DSS10168	14	54	107	14	9537
DSS10169	15	56	109	15	9537
DSS10170	16	56	109	16	10989
DSS10171	17	56	109	17	14586
DSS10172	18	56	109	18	14586
DSS10173	19	56	109	19	16016
DSS10174	20	56	109	20	18194

Solid Carbide Precision Tools

1. Drilling Tools :

High speed steel and tungsten carbide :

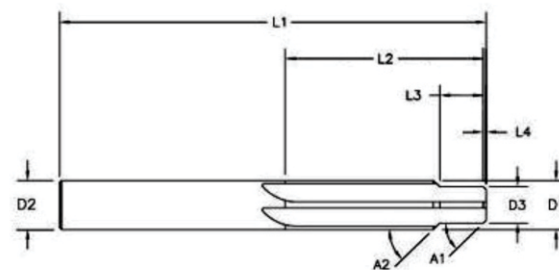
- Twist Drills
- Ratio Star Drills
- Through Coolant Drills
- Subland Drills
- Core Drills
- Step Drills



2. Milling Cutters :

High speed steel and tungsten carbide :

- End mills for machining titanium, inconel and stainless steel
- End mills for die and mold machining
- End mills
- Radius profile cutters
- Carbide profile cutters
- Die sinking cutters
- Side & face cutters
- Step Endmill



3. Reaming Tools :

High speed steel and tungsten carbide :

- Nc machine chucking reamers
- Extra long reamers
- Taper pin reamers
- Hand Reamers
- Step Reamers

4. Countersinking Tools :

High speed steel and tungsten carbide :

- Countersinks, counterbores and spot facers
- Short counterbores, back spot face cutters
- De-burring tools

6. Special Tools

to sketch or drawing, the more complex the better

7. Increasing tool life Service

Regrinding, recoating, tool management

TERMS & CONDITIONS

1. The price list clearly shows the detailed dimensions of the Tools manufactured by us, alongwith the prices per piece in Rupees.
2. All prices are F.O.R. Patiala exclusive of Freight, Insurance and State & Central Taxes and levies like Central Excise Duty, Octroi Duty, Sales Tax or any other fresh levies by any authority (strictly as applicable at the time of delivery), Packing is free.
3. We reserve the right to alter the prices without notice. The new prices will apply to all fresh supplies immediately after the alteration.
4. (a) The prices of the sizes lower than the lowest range size, will be the same as that of lowest range size.
(b) The prices of the intermediate sizes will be the same as that of the next higher size.
(c) The prices of metric sizes will be the same as that of equivalent fractional sizes and vice versa.
5. Sales on "Return for replacement, or reimbursement, if rejected on solid grounds" basis. Any rejection will be accepted within three months from the date of supply. Broken and Blunted Tools will not be accepted back.
6. This cancels all the previous price lists.
7. Competent Court : PATIALA

NOTE : The prices quoted in this price list are the maximum retail prices and the stockists are at liberty to sell the goods at prices lower than these fixed by us.



SINCE 1966

PATIALA TOOLS CORPORATION

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