



## Price List - Milling Cutters MC 45

(With effect from 7<sup>th</sup> December 2018)



Addison & Co Ltd., established in 1873, is India's largest manufacturer of HSS Cutting Tools. The Company's current product range:

**I. HSS Tools:**

- a) Twist Drills
- b) Centre Drills
- c) Reamers
- d) Taps
- e) End Mills
- f) Counter Bores
- g) Countersinks
- h) Milling Cutters
- i) Tool Bits
- j) Broaches and Hobs

**II. Carbide Tools:**

- a) Multi-point Carbide-tipped Tools
- b) Solid Carbide Drills
- c) Solid Carbide Centre Drills
- d) Solid Carbide Reamers and
- e) Solid Carbide Endmills

**III. Machine Tools:**

- a) Tool and Cutter Grinder
  - Manual
  - CNC
- b) Drill Point Grinders
- c) Goniometer (Drill Measuring Instrument) and
- d) Accessories for our machines

At Addison, we have a policy – to build Precise tools which are of highest quality and to extend excellent technical service to the end-users.

Addison, an ISO 9001:2015 and ISO 14001:2015 certified company, manufactures tools with high quality CNC machines, state-of-the art manufacturing technology, a well-equipped metallurgical lab, a Tool Tech Centre (R&D) and Total Quality Control which has put its metal cutting tools on par with the best brands of cutting tools in the world.

The High Speed Steel and carbide rods used for manufacturing the above tools are of highest quality and procured from Europe, Japan and India.

Distribution of the above products in India is primarily done through the network of Authorised Dealers and Sub Dealers.

Addison also exports HSS and Carbide Tools to USA, Canada, Japan, Europe, Australia, Latin America, South East Asia, Middle-East and Africa.



# Terms and Conditions

## Price

This supersedes all our previous price lists.

Prices given in this pricelist are base prices. Taxes are extra as applicable.

Price given here are for standard products

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

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

The prices are based on the present input costs and are subject to revision without prior notice.

The dealers / stockists are free to sell the goods at prices lower than the prices indicated in this price list.

## Minimum Order Quantities (MOQ)

The Minimum Ordering Quantities (MOQ) mentioned against each product in this price list are for each size / length / bore size of that product. Any order for a quantity lesser than MOQ can be supplied with an additional surcharge, which will be furnished on request.

## Delivery

Standard deliveries are indicated below, however Special Deliveries can be considered on request based on available load position at the time of Ordering.

 \* FMI (Fast Moving Items) – within 6 weeks for MOQ Quantities from the date of Firm Order

 \*\* SFMI (Semi-fast Moving Items) – within 8 Weeks for MOQ Quantities from the date of Firm Order

**OTHER Items – within 12 Weeks for MOQ Quantities from the date of Firm Order**

## Other Instructions

The products indicated in this pricelist are confirming to National & International Standards. However, we can manufacture and supply special and customized tools as per the requirement of the customers and end-users on request. For special requirements please send your enquiries to: [customersupport@addison.co.in](mailto:customersupport@addison.co.in)

## Other

- (1) For Convex Cutters, Concave Cutters, Single Corner Rounding Cutters, We have switched over the manufacture to current ISS – IS 6323/1982 and IS 6314/1982. We also manufacture and supply these cutters as per old ISS 6323/1971, IS 6322/1971 and IS 6314/1971, for which full dimensions and prices are also given herein.
- (2) Side & Face Cutters to BSS - Type-B (Straight Teeth) and Slotting Cutter to BSS. Cutters of width ¾" and above will be supplied with LH Helix as Standard.
- (3) Key way Milling Cutters  
Cutters will be radially Turned with Staggered Teeth and without corner Radius.
- (4) Convex Cutters, Concave Cutters, Single Corner Rounding Cutters, Cutters will be radially Machine Turned Relieved.



## CONTENTS

	<b>Page No.</b>
• Cylindrical Cutters – High Power & Helical ...	4
• Side & Face Cutters – Straight & Staggered Teeth ...	5 to 7
• Key Way Milling Cutters ...	7
• Slotting Cutters, Angle Cutters (Single, Double & Equal) ...	8 & 9
• Convex Cutters, Concave Cutters ...	10 & 11
• Corner Rounding Cutters (Single & Double) ...	11 & 12
• Involute Gear Cutters ...	13 & 14
• Rotary Form Cutters ...	14
• Shell End Mills, Face Cutters & Hollow Mills ...	15
• Woodruff Key Slot cutters & Cutters for Woodruff Keyseats ...	16
• “T” Slot Cutters ...	17
• Counter Bores ...	18
• Counter Sinks ...	18



### HSS CYLINDRICAL CUTTERS

IS : 6309 - 1982

Dia mm	Width mm	Price Per Piece (Rs.)	MOQ (No.)	Dia mm	Width mm	Price Per Piece (Rs.)	MOQ (No.)
40	(20)	2643	3	80	80	12816	3
	(32)	3303	3		100	14754	3
	(50)	4112	3	100	(40)	10649	2
	(70)	5512	3		(70)	16130	2
50	(25)	3386	3	100	(90)	19986	2
50	40	4010	3		(110)	28076	2
	63	5250	3		125	34202	2
	80	6812	3	125	(50)	24041	2
63	(32)	4821	3		(80)	34102	2
63	50	6079	3	125	(110)	45893	2
	70	8000	3		(125)	51342	2
	(90)	9393	3		140	57105	2
80	(36)	6812	3	160	125	85428	2
	63	10831	3				

Type-N Cutters with Right Hand Helix will be supplied as Standard.  
Bracketed sizes are as per IS 1831-1961/IS 6309-1971

### HSS HIGH POWER CYLINDRICAL CUTTERS WITH LEFT HAND HELIX

TO BS : 122  
(PART 1) 1953

Length Inch	Price Per Piece (Rs.)									
	2-1/2"	MOQ (No.)	3"	MOQ (No.)	3-1/2"	MOQ (No.)	4"	MOQ (No.)	4-1/2"	MOQ (No.)
1	4309	3	5433	3	6020	3	7612	3	10977	3
2	6379	3	8360	3	10038	3	13325	3	18432	3
3	8487	2	11358	2	14016	2	19027	2	26036	2
4	10573	2	14435	2	18046	2	24250	2	34102	2
5	12749	2	20299	2	26538	2	33668	2	41985	2
6	14920	2	25853	2	31579	2	39360	2	49895	2
7	17023	2	30160	2	36683	2	46924	2	58424	2
8	19933	2	34451	2	41788	2	53448	2	65835	2

### HSS HELICAL CYLINDRICAL CUTTERS WITH LEFT HAND HELIX

BS : 122  
(PART 1) 1953

Length Inch	Price Per Piece (Rs.)						Length Inch	Price Per Piece (Rs.)					
	3"	MOQ (No.)	4"	MOQ (No.)	5"	MOQ (No.)		3"	MOQ (No.)	4"	MOQ (No.)	5"	MOQ (No.)
2	12022	3	17652	3	29439	3	5	29566	2	43501	2	59998	2
3	15217	2	23613	2	39656	2	6	37490	2	51187	2	70344	2
4	20464	2	30070	2	49908	2							

For more details please refer our Product Catalogue Page no. 108 to 110.



### HSS SIDE AND FACE CUTTERS

### IS : 6308 - 1982 - TOOL TYPE-N

Dia mm	Width mm	Bore mm	Price Per Piece (Rs.)		MOQ (No.)	Dia mm	Width mm	Bore mm	Price Per Piece (Rs.)		MOQ (No.)
			Straight Teeth Type B	Staggered Teeth Type A					Straight Teeth Type B	Staggered Teeth Type A	
50	5	16	3098	3852	4	150	28		23373	29288	4
	6		3220	4010	4		32		25122	31952	4
	8		3303	4120	4	160	6	40	13790	15400	3
	10		3509	4385	4		8		14655	16374	3
63	6	22	3795	4905	4		10		15525	17343	3
63	8	22	4010 **	5352	4	160	12	40	16378	18288	3
	10		4360 **	5512	4		14		17240	19267	3
	12		4549	5939	4		16		18256	20230	3
	14		4686	6371	4		18		19550	22384	3
	16		4916	6873	4		20		20526	22384	3
63	18	22	5242	7076	4	160	22	40	21736	24812	3
80	6	27	4155	5215	4		25		23460	28771	3
	8		4605	5675	4		28		25122	29957	3
	10		4916	6493	4		32		27344	32663	3
	12		5242	6873	4	200	6	40	18046	20015	3
80	14	27	5575	7373	4	200	8	40	19471	21556	3
	16		5832	7524	4		10		21073	23691	3
	18		6493	8521	4		12		24357	26783	3
	20		6775	8936	4		14		25944	28657	3
100	6	32	5939	7202	4		16		27547	30562	3
100	8	32	6348	7708	4	200	18	40	30743	34654	3
	10		7018	8261	4		20		31077	35712	3
	12		7524 **	9183	4		22		33935	38844	3
	14		7970	9393	4		25		37129	42657	3
	16		8521	10134	4		28		39091	45306	3
100	18	32	9087	10418	4	200	32	40	43450	50779	3
	20		9785	11001	4	225	6		23245	25210	3
	22		10244	12579	4		8		25374	27751	3
	25		11131	13714	4		10		27621	29893	3
125	6	32	8326	10330	4		12		32154	35090	3
125	8	32	8936	11131	4	225	14		34469	37940	3
	10		9574	12951	4		16		36825	40758	3
	12		10912	13446	4		18		41542	47235	3
	14		11821	14365	4		20		41542	47235	3
	16		12321	14920	4		22		45860	52305	3
125	18	32	13214	17017	4	225	25		50221	57206	3
	20		13683	18359	4		28		54682	61831	3
	22		15110	19950	4		32		59137	66431	3
	25		16523	20746	4	250	6		26677	29227	3
	28		18605	23749	4		8		29399	31785	3
150	6		10134	13031	4	250	10		31936	34309	3
	8		11023	14097	4		12		37355	40908	3
	10		11960	15190	4		14		40440	44079	3
	12		13852	17497	4		16		43420	47235	3
	14		14815	18605	4		18		49081	54644	3
150	16		15785	19733	4	250	20		49081	54644	3
	18		17724	21888	4		22		54315	60554	3
	20		17724	21888	4		25		59884	65941	3
	22		19678	24252	4		28		65097	72962	3
	25		21574	26710	4		32		70255	80010	3

For more details please refer our Product Catalogue Page no. 111 to 114.



### HSS SIDE AND FACE CUTTERS

### BS : 122 (PART 1) - 1953

Dia Inch	Width Inch	Price Per Piece (Rs.)		MOQ (No.)	Dia Inch	Width Inch	Price Per Piece (Rs.)		MOQ (No.)	
		Straight Teeth Type B	Staggered Teeth Type A				Straight Teeth Type B	Staggered Teeth Type A		
2.1/2	1/4	3795		4	5	5/16	8936	11131	4	
	5/16	3975		4		3/8	9574	12951	4	
	3/8	4155		4		7/16	10244	13180	4	
	7/16	4342		4		1/2	10912	13446	4	
	1/2	4529		4		5/8	12321	14920	4	
2.1/2	5/8	4855		4	5	3/4	13683	17023	4	
	3/4	5185		4		7/8	15110	19733	4	
	7/8	5533		4		1	16523	20746	4	
	1	5922		4		1.1/4	19083		4	
	1.1/4	6657		4		1.1/2	21710		4	
2.1/2	1.1/2	7417		4	6	1/4	10134	13031	3	
3	1/4	4206	5281	4		5/16	11023	14097	3	
	5/16	4420	5616	4		3/8	11960	15190	3	
	3/8	4686	6276	4		7/16	12905	16325	3	
	7/16	4905	6379	4		1/2	13852	17497	3	
3	1/2	5163	6493	4	6	5/8	15780	19733	3	
	5/8	5662	7270	4		3/4	17724 **	21888	3	
	3/4	6079	7723	4		7/8	19678	24252	3	
	7/8	6765	8421	4		1	21574	26694	3	
	1	7311	9087	4		1.1/4	25122		3	
3	1.1/4	8072		4	6	1.1/2	28657		3	
	1.1/2	9224		4		7	1/4	15026	17023	3
3.1/2	1/4	4997		4		5/16	16259	19538	3	
	5/16	5281		4		3/8	17494	21074	3	
	3/8	5616		4		7/16	18664	22129	3	
3.1/2	7/16	5949		4	7	1/2	20159	23131	3	
	1/2	6240		4		5/8	22570	27129	3	
	5/8	6916		4		3/4	25031	30346	3	
	3/4	7576		4		7/8	27519	33386	3	
	7/8	8168		4		1	29976	36369	3	
3.1/2	1	8984		4	7	1.1/4	34877		3	
	1.1/4	10163		4		1.1/2	39835		3	
	1.1/2	11454		4		8	1/4	18046	20042	3
4	1/4	5922	7202	4		5/16	19471	21556	3	
	5/16	6348	7708	4		3/8	21073	23691	3	
4	3/8	6775 **	8168	4	8	7/16	22712	25238	3	
	7/16	7202	8667	4		1/2	24357	26783	3	
	1/2	7524 **	9183	4		5/8	27547	30562	3	
	5/8	8521	10134	4		3/4	30743	34760	3	
	3/4	9393	11565	4		7/8	33935	38844	3	
4	7/8	10244	12579	4	8	1	37129	42646	3	
	1	11131	13714	4		1.1/4	43443		3	
	1.1/4	12650		4		1.1/2	49756		3	
	1.1/2	13935		4		9	1/4	23245	25676	3
	5	1/4	8326	10330		4		5/16	25374	27751

For more details please refer our Product Catalogue Page no. 111 to 114.



### HSS SIDE AND FACE CUTTERS

**BS : 122 (PART 1) - 1953**

Dia Inch	Width Inch	Price Per Piece (Rs.)		MOQ (No.)	Dia Inch	Width Inch	Price Per Piece (Rs.)		MOQ (No.)
		Straight Teeth Type B	Staggered Teeth Type A				Straight Teeth Type B	Staggered Teeth Type A	
9	3/8	27621	29893	3	10	5/16	29399	31785	3
	7/16	29769	32900	3		3/8	31936	34309	3
	1/2	32155	35134	3		7/16	34321	35890	3
	5/8	36825	40758	3		1/2	37355	40908	3
	3/4	40800	47235	3		5/8	43420	47235	3
9	7/8	45860	52305	3	10	3/4	49081	54644	3
	1	50221	54299	3		7/8	54317	60554	3
	1.1/4	59137	66431	3		1	59886	65941	3
	1.1/2	68076	75932	3		1.1/4	70255	80010	3
	1.3/4	83481	92618	3		1.1/2	81466	91934	3
10	1/4	26677	29227	3	1.3/4	98932	110475	3	

For more details please refer our Product Catalogue Page no. 111 to 114.

### HSS KEYWAY MILLING CUTTERS

**IS : 6355 - 1982**

Dia mm	Width mm	Price Per Piece (Rs.)	MOQ (Nos)	Dia mm	Width mm	Price Per Piece (Rs.)	MOQ (Nos)	Dia mm	Width mm	Price Per Piece (Rs.)	MOQ (Nos)
50	5	2811	4	100	6	5433	2	160	12	15797	2
	6	3039	4		8	5831	2		14	16832	2
	8	3224	4		10	6348	2		16	18022	2
	10	3366	4		12	6916	2		18	19180	2
63	5	3297	4		14	7439	2		20	20464	2
63	6	3297	4	100	16	8005	2	160	22	21790	2
	8	3451	4		18	8471	2		25	23656	2
	10	3795	4		20	8658	2		28	24978	2
	12	4120	4		22	9670	2		32	28267	2
	14	4360	4		25	10330	2		200	12	23230
63	16	4686	4	125	8	8326	2	200	14	24543	2
	18	5036	4		10	9107	2		16	26101	2
	80	5	4613		2		12		9932	2	
80	6	4613	2		14	10948	2		20	29909	2
	8	4916	2		16	11675	2		22	32137	2
	10	5247	2	125	18	12650	2	200	25	34647	2
	12	5876	2		20	13397	2		28	37546	2
	14	6348	2		22	14270	2		32	41792	2
16	6746	2	25		15622	2	36		46035	2	
18	7127	2	28		17240	2	40		50404	2	
80	20	7576	2	160	10	15004	2				

### RECOMMENDED STANDARD BORES IN MM

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

For more details please refer our Product Catalogue Page no. 118





### HSS SLOTTING CUTTERS

**BS : 122 (PART 1) 1953**

Dia Inch	Width Inch	Price Per Piece (Rs.)	MOQ (No.)	Dia Inch	Width Inch	Price Per Piece (Rs.)	MOQ (No.)	Dia Inch	Width Inch	Price Per Piece (Rs.)	MOQ (No.)
2.1/2	1/4	2284	4		5/16	3574	3		5/16	6873	3
	5/16	2475	4	3 1/2	3/8	3864	3		3/8	7477	3
	3/8	2647	4		7/16	4155	3	5	7/16	8107	3
	7/16	2794	4		1/2	4455	3		1/2	8734	3
	1/2	2952	4		5/8	5072	3		5/8	9932	3
2.1/2	5/8	3303	4		3/4	5512	3		3/4	10912	3
	3/4	3537	4	3 1/2	7/8	5949	3		7/8	11910	3
	7/8	3784	4		1	6379	3	5	1	12905	3
	1	4010	4	4	3/16	3925	3	6	1/4	8107	3
3	1/4	2610	4		1/4	3925	3		5/16	8985	3
3	5/16	2811	4		5/16	4385	3		3/8	9853	3
	3/8	3023	4	4	3/8	4785	3		7/16	10735	3
	7/16	3303	4		7/16	5575	3	6	1/2	11629	3
	1/2	3471	4		1/2	5616	3		5/8	13394	3
	5/8	3908	4		5/8	7020	3		3/4	14853	3
3	3/4	4258	4		3/4	7127	3		7/8	16325	3
	7/8	4700	4	4	7/8	8204	3		1	17848	3
	1	5185	4		1	8448	3				
3.1/2	1/4	3256	3	5	1/4	6276	3				

For more details please refer our Product Catalogue Page no. 115.

### HSS SINGLE ANGLE CUTTERS RH CUTTERS IN TYPE-H

**IS : 6324 - 1971**

Dia mm	Width mm	Bore mm	Angle (Degrees)	Price Per Piece (Rs.)	MOQ (No.)	Dia mm	Width mm	Bore mm	Angle (Degrees)	Price Per Piece (Rs.)	MOQ (No.)
50	12	16	60, 65, 70	2925	3	80	32	22	70, 75, 80	6812	3
			75, 80, 85								
63	18	22	60, 65, 70	4360	3	100	36	27	70, 75, 80	10222	3
			75, 80, 85								
63	26	22	70, 75, 80	5185	3						

### HSS SINGLE ANGLE CUTTERS RH CUTTERS

**BS : 122 (PART 1) 1953**

Width	Angle	Price Per Piece (Rs.) Dia Inch		MOQ (No.)	Width	Angle	Price Per Piece (Rs.) Dia Inch		MOQ (No.)
Inch	(Degrees)	2-3/4"	3"		Inch	(Degrees)	2-3/4"	3"	
5/16	30	3627	4010	3	1/2"	45, 50, 55, 60, 65, 70, 80	4206	4749	3
7/16	40	3975	4535	3	5/8"	50,60,65,70,80	4686	5281	3

Price for LH Cutters will be same as above.

For more details please refer our Product Catalogue Page no. 120.



**HSS DOUBLE ANGLE CUTTERS  
RH CUTTERS WITH TYPE-H**

**IS: 6325 - 1971**

Dia mm	Width mm	Bore mm	Angle (Degrees)	Price Per Piece (Rs.)	MOQ (No.)
50	12	16	12 x 55, 15 x 60	3220	4
			65, 70, 75 & 80		4
63	18	22	12 x 55, 15 x 60	4404	4
			65, 70, 75 & 80		4
50	14	16	20 x 90	3509	4
63	20	22	20 x 90	4613	4
50	16	16	25 x 100	3795	4
63	22	22	25 x 100	4989	4
80	32	22	15 x 65, 70, 75	6812	3
100	36	27	15 x 70, 75, 80	10222	3

**HSS DOUBLE ANGLE CUTTERS RH CUTTERS**

**BS 122 (PART 1) 1953**

Dia Inch	Width Inch	Bore Inch	Price Per Piece (Rs.)	MOQ (No.)	Dia Inch	Width Inch	Bore Inch	Price Per Piece (Rs.)	MOQ (No.)
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	4206	3	3	5/8	1-1/4	5247	3
	3/4	1	5072	3		3/4	1-1/4	5281	3

For more details please refer our Product Catalogue Page nos. 121 & 122.

**HSS EQUAL ANGLE CUTTERS RH CUTTERS**

**BS 122 (PART 1) 1953**

Dia mm	Width mm	Bore mm	Angle (Degrees)	Price Per Piece (Rs.)	MOQ (No.)	Dia mm	Width mm	Bore mm	Angle (Degrees)	Price Per Piece (Rs.)	MOQ (No.)
50	8	16	45	2834	3	80	12	27	45	4235	3
50	10	16	60	2959	3	80	18	27	60	4798	3
50	14	16	90	3336	3	80	22	27	90	5433	3
63	10	22	45	3451	3	100	18	32	45	6695	3
63	14	22	60	3820	3	100	25	32	60	7831	3
63	20	22	90	4417	3	100	32	32	90	9164	3

**HSS EQUAL ANGLE CUTTERS (TYPE-H) TO OLD SPECIFICATION**

**IS : 6326 - 1971**

Dia mm	Width mm	Bore mm	Angle (Degrees)	Price Per Piece (Rs.)	MOQ (No.)	Dia mm	Width mm	Bore mm	Angle (Degrees)	Price Per Piece (Rs.)	MOQ (No.)
56	10	16	45	3220	3	80	16	22	45	4605	3
56	12	16	60	3366	3	80	20	22	60	4997	3
56	14	16	90	3627	3	80	22	22	90	5433	3
63	12	22	45	3627	3	100	18	27	45	6695	3
63	16	22	60	4010	3	100	25	27	60	7831	3
63	18	22	90	4206	3	100	28	27	90	8487	3

**HSS EQUAL ANGLE CUTTERS**

**BS 122 (PART 1) 1953**

Dia Inch	Width Inch	Angle (Degrees)	Price Per Piece (Rs.)	MOQ (No.)	Dia Inch	Width Inch	Angle (Degrees)	Price Per Piece (Rs.)	MOQ (No.)
2.3/4	5/16	30, 40	3627	3	3	5/16	30, 40	4010	3
2.3/4	7/16	40	3795	3	3	7/16	30, 40	4206	3
2.3/4	1/2	45, 60, 90	3795	3	3	1/2	45, 60, 90	4206	3
2.3/4	5/8	60, 90	4206	3	3	5/8	60, 90	4605	3

For more details please refer our Product Catalogue Page no. 123.



### HSS CONVEX CUTTERS (TYPE-N)

IS: 6323 - 1982

Dia mm	Width mm	Radius mm	Bore mm	Price Per Piece (Rs.)	MOQ (No.)	Dia mm	Width mm	Radius mm	Bore mm	Price Per Piece (Rs.)	MOQ (No.)
50	3.2	1.6	16	3864	2	80	12.6	6.3	27	6366	2
50	4	2	16	3864	2	80	16	8	27	6988 **	2
63	5	2.5	22	4855	2	100	20	10	32	10724	2
63	6	3	22	4855	2	100	24	12	32	11832	2
63	6.3	3.15	22	4855	2	100	25	12.5	32	12513	2
63	8	4	22	4855	2	125	32	16	32	20681	2
63	10	5	22	5352	2	125	40	20	32	24919	2
80	12	6	27	6366	2						

For more details please refer our Product Catalogue Page no. 124.

### CONVEX CUTTERS (TYPE-N) TO OLD IS SPECIFICATION with the following dimensions and prices :

IS : 6323 - 1971

Dia mm	Width mm	Radius mm	Bore mm	Price Per Piece (Rs.)	MOQ (No.)	Dia mm	Width mm	Radius mm	Bore mm	Price Per Piece (Rs.)	MOQ (No.)
50	3	1.5	22	3864	2	70	16	8	22	6348	2
50	3.2	1.6	22	3864	2	90	18	9	27	8487	2
50	4	2	22	3864	2	90	20	10	27	8936	2
56	5	2.5	22	4575	2	90	22	11	27	9848	2
56	6	3	22	4575	2	90	24	12	27	10553	2
63	6	3	22	4855	2	90	25	12.5	27	10912	2
63	8	4	22	4855	2	100	28	14	32	13460	2
63	10	5	22	5352	2	110	32	16	32	17023	2
70	12	6	22	5770	2	110	36	18	32	22471	2
70	14	7	22	6348	2	125	40	20	40	24919	2

### HSS CONCAVE CUTTERS (TYPE-N)

IS : 6322 - 1982

Dia mm	Width mm	Radius mm	Bore mm	Price Per Piece (Rs.)	MOQ (No.)	Dia mm	Width mm	Radius mm	Bore mm	Price Per Piece (Rs.)	MOQ (No.)
50	8	1.6	16	4613	2	80	24	6.3	27	9570	2
50	9	2	16	4825	2	80	32	8	27	11252	2
63	10	2.5	22	5294	2	100	36	10	32	15676	2
63	12	3	22	5700	2	100	40	12	32	16523	2
63	12	3.15	22	5700	2	100	40	12.5	32	16523	2
63	16	4	22	5865	2	125	50	16	32	34814	2
63	20	5	22	6882	2	125	60	20	32	37836	2
80	24	6	27	9511	2						

For more details please refer our Product Catalogue page no. 126.



### HSS CONCAVE CUTTERS (TYPE-N) TO OLD IS SPECIFICATION

IS 6322-1971

Dia mm	Width mm	Radius mm	Bore mm	Price Per Piece (Rs.)	MOQ (No.)	Dia mm	Width mm	Radius mm	Bore mm	Price Per Piece (Rs.)	MOQ (No.)
56	8	1.5	22	4855	2	90	40	10	27	14920	2
56	8	1.6	22	4855	2	100	42	11	27	17401	2
56	9	2	22	5102	2	100	44	12	27	17985	2
56	10	2.5	22	5247	2	100	46	12.5	27	18335	2
63	14	3.5	22	5876	2	100	50	14	27	20176	2
70	24	6	22	8204	2	125	56	16	32	27774	2
70	28	7	22	8610	2	125	62	18	32	37836	2
90	36	9	27	13446	2	125	70	20	32	39835	2

### HSS CONVEX CUTTERS HSS CONCAVE CUTTERS

BS : 122 (PART 1) 1953

Dia Inch	D.O.C. Inch	Bore Inch	Price Per Piece (Rs.)		MOQ (No.)	Dia Inch	D.O.C. Inch	Bore Inch	Price Per Piece (Rs.)		MOQ (No.)
			Convex	Concave					Convex	Concave	
2.1/4	1/8	1	4112	4855	2	3	3/4	1	7417	10711	2
2.1/4	3/16	1	4385	5034	2	3.1/4	13/16	1	8392	12816	2
2.1/4	1/4	1	4582	5364	2	3.1/4	7/8	1	8936	13031	2
2.1/2	5/16	1	4855	5876	2	3.1/2	15/16	1	10009	15249	2
2.1/2	3/8	1	5173	6371	2	3.1/2	1	1	10469	15464	2
2.1/2	7/16	1	5361	6882	2	4	1.1/8	1.1/4	13460	18906	2
2.1/2	1/2	1	5772	7339	2	4	1.1/4	1.1/4	14815	20176	2
2.3/4	9/16	1	5876	8610	2	4.1/4	1-3/8	1.1/4	20389	26587	2
2.3/4	5/8	1	6379	8826	2	4.1/4	1-1/2	1.1/4	22056	30468	2
3	11/16	1	7076	10546	2						

For more details please refer our Product Catalogue pages no. 125 & 127.

### HSS SINGLE CORNER ROUNDING CUTTERS (RH CUTTERS AND TYPE-N)

IS : 6314 - 1982

Dia mm	Width mm	Radius mm	Bore mm	Price Per Piece (Rs.)	MOQ (No.)	Dia mm	Width mm	Radius mm	Bore mm	Price Per Piece (Rs.)	MOQ (No.)
50	5	1.6	16	3908	2	80	12	6.3	27	6850	2
50	5	2	16	3908	2	80	16	8	27	7373	2
63	5	2.5	22	4749	2	100	18	10	32	14588	2
63	6	3	22	4749	2	100	20	12	32	15210	2
63	6	3.15	22	4749	2	100	20	12.5	32	15210	2
63	8	4	22	4969	2	125	24	16	32	20530	2
63	10	5	22	5294	2	125	28	20	32	23837	2
80	12	6	27	6850	2						

For more details please refer our Product Catalogue page no. 125.



**HSS SINGLE CORNER ROUNDING CUTTERS (RH CUTTERS AND TYPE-N)  
TO OLD IS SPECIFICATION**

**IS : 6314 - 1971**

Dia mm	Corner Radius mm	Width mm	Bore mm	Price Per Piece (Rs.)	MOQ (No.)	Dia mm	Corner Radius mm	Width mm	Bore mm	Price Per Piece (Rs.)	MOQ (No.)
56	1.6	4	22	4112	2	100	11	21	27	15681	2
56	2.0	4.5	22	4112	2	100	12	22	27	15681	2
56	2.5	5	22	4112	2	100	12.5	22	27	15681	2
63	3.5	7	22	4969	2	100	14	25	27	16609	2
70	6.0	12	22	5662	2	100	16	28	32	17849	2
70	7.0	14	22	5949	2	100	18	31	32	22813	2
90	9.0	18	27	8901	2	125	20	35	32	24262	2
90	10.0	20	27	9670	2						

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

**BS : 122 (PART 1) 1953**

Dia Inch	Corner Radius Inch	Bore Inch	Price Per Piece (Rs.)		MOQ (No.)	Dia Inch	Corner Radius Inch	Bore Inch	Price Per Piece (Rs.)		MOQ (No.)
			Single Corner	Double Corner					Single Corner	Double Corner	
2.1/4	1/16	1	4309	6090	2	3	3/8	1	7134	10168	2
2.1/4	3/32	1	4309	6090	2	3.1/4	13/32	1	8080	11675	2
2.1/4	1/8	1	4309	6090	2	3.1/4	11/16	1	8080	11675	2
2.1/2	5/32	1	4855	6850	2	3.1/2	15/32	1	9603	14097	2
2.1/2	3/16	1	4855	6850	2	3.1/2	1/2	1	9603	14097	2
2.1/2	7/32	1	5132	7339	2	3.1/2	9/16	1	10573	15769	2
2.1/2	1/4	1	5132	7339	2	3.1/2	5/8	1	10573	15769	2
2.3/4	9/32	1	6020	8733	2	3.3/4	11/16	1	15553	22279	2
2.3/4	5/16	1	6020	8733	2	3.3/4	3/4	1	15553	22279	2
3	11/32	1	7134	10168	2						

For more details please refer our Product Catalogue page nos. 129 & 130.



## HSS INVOLUTE GEAR CUTTERS

14.1/2 & 20 DEG PA

BS : 2518 - 1954

Module mm	Price Per Piece (Rs.)						MOQ (No.)
	22 mm Bore	1" Bore	27 mm Bore	32 mm Bore	40 mm Bore	50 mm Bore	
0.5	-	2598	-	-	-	-	2
0.75	-	2598	-	-	-	-	2
1	2598	2598	-	-	-	-	2
1.25	2729		-	-	-	-	2
1.5	2982	2982	-	-	-	-	2
1.75	2982	-	3347	3801	-	-	2
2	-	3347	3347	3801	-	-	2
2.25	-	3347	3347	3801	-	-	2
2.5	-	3691	3691	4298	-	-	2
2.75	-	3691	3691	4298	-	-	2
3	-	3986	3986	5035	-	-	2
3.25	-	-	4190	5303	-	-	2
3.5	-	4404	4404	5400	-	-	2
3.75	-	-	4978	5899	-	-	2
4	-	4978	4978	5592	-	-	2
4.5	-	-	5958	7398	-	-	2
5	-	-	6257	7513	-	-	2
5.5	-	-	7513	8374	-	-	2
6	-	-	9386	9526	-	-	2
6.5	-	-	10728	11332	-	-	2
7	-	-	-	11919	-	-	2
8	-	-	-	13749	-	-	2
9	-	-	-	21113	21113	24068	2
10	-	-	-	23087	23931	25894	2
11	-	-	-	25057	27535	28865	2
12	-	-	-	26660	28865	30410	2
14	-	-	-	33579	34236	37663	2
16	-	-	-	-	-	47163	2

For more details please refer our Product Catalogue page no. 131.



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

**BS : 2518 - 1954**

D.P. No.	Price Per Piece (Rs.)					D.P. No.	Price Per Piece (Rs.)				
	Bore in Inch						Bore in Inch				
	2	1.1/2	1.1/4	1	MOQ		2	1.1/2	1.1/4	1	MOQ
1.5	47163		-	-	2	11	-	-	3801	3347	2
1.75	37662	37662	34058	-	2	12	-	-	3801	3347	2
2	30410	28865	26660	-	2	13	-	-	-	3298	2
2.25	28865	27535	25057	-	2	14	-	-	-	2982	2
2.5	25894	23931	23087	-	2	15	-	-	-	2982	2
2.75	24068	21113	21113	-	2	16	-	-	-	2982	2
3	-	-	13749	-	2	18	-	-	-	2731	2
4	-	-	9526	9386	2	20	-	-	-	2731	2
5	-	-	7513	6257	2	22	-	-	-	2598	2
6	-	-	5589	4978	2	24	-	-	-	2598	2
7	-	-	5400	4404	2	26	-	-	-	2598	2
8	-	-	5036	3986	2	28	-	-	-	2598	2
9	-	-	4298	3691	2	30	-	-	-	2598	2
10	-	-	4217	3654	2						

### STANDARD CUTTERS GROUP

**(8 CUTTERS)**

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

For more details please refer our Product Catalogue page nos. 134 & 135.

### HSS ROTARY FORM CUTTERS FOR ROLLER CHAIN WHEELS

**BS : 228 - 1962**

Pitch Inch	Roller Dia Inch	Price Per Piece (Rs.) Cutter No			MOQ (No.)	Pitch Inch	Roller Dia Inch	Price Per Piece (Rs.) Cutter No			MOQ (No.)
		1	2	3				1	2	3	
0.315	0.197	6873	6873	6873	2	0.75	0.475	12022	12022	12231	2
0.375	0.25	6787	7127	7127	2	1	0.625	23301	23301	22707	2
0.5	0.305	8051	8051	8051	2	1.25	0.75	27330	25277	25277	2
0.5	0.335	8051	8051	8051	2	1.5	1	27519	27330	28403	2
0.625	0.325	8051	8051	8051	2	1.75	1.1	37175	36754	36506	2
0.625	0.4	9022	9022	9022	2	2	1.15	54449	50081	48648	2

Cutter No.

1 - to Cut 9 to 12 Teeth, 2. - to cut 13 to 19 Teeth, 3. to cut 20 Teeth and above

Recommended Standard Bores: Up to 0.75" Pitch - 1",

1" to 1.5" Pitch - 1-1/4, 1.75" & 2 - 1-3/4"

For more details please refer our Product Catalogue page nos. 136 & 137.



**HSS SHELL END MILLS RH HELICAL FLUTES FOR RH CUTTING WITH TOOL TYPE-N**

**IS : 6257 - 1982**

Dia mm	Length mm	Bore mm	Price Per Piece (Rs.)	MOQ (No.)	Dia mm	Length mm	Bore mm	Price Per Piece (Rs.)	MOQ (No.)
40	32	16	4997	4	100	50	32	18046	3
50	36	22	6079 **	4	125	56	40	30257	3
63	40	27	8000 **	4	160	63	50	57105	3
80	45	27	11821	3					

**HSS SHELL END MILLS RH HELICAL FLUTES FOR RH CUTTING**

**BS : 122 (PART 1) 1953**

Dia Inch	Length Inch	Bore Inch	Price Per Piece (Rs.)	MOQ (No.)	Dia Inch	Length Inch	Bore Inch	Price Per Piece (Rs.)	MOQ (No.)
1.1/4	1	1/2	3438	4	3	1.3/4	1.1/4	10546	4
1.1/2	1.1/8	1/2	4206	4	3.1/2	1.7/8	1.1/4	13149	3
1.3/4	1.1/4	3/4	4997	4	4	2.1/4	1.1/2	19339	3
2	1.3/8	3/4	5680	4	4.1/2	2.1/4	1.1/2	23185	3
2.1/4	1.1/2	1	6850	4	5	2.1/4	1.1/2	30257	3
2.1/2	1.5/8	1	7967	4	5.1/2	2.1/4	2	35393	3
2.3/4	1.5/8	1	9059	4	6	2.1/4	2	40820	3

For more details please refer our Product Catalogue Page no. 138.

**HSS FACE CUTTERS RH HELICAL FLUTES FOR RH CUTTING**

**BS : 122 (PART 1) 1953**

Dia Inch	Length Inch	Bore Inch	Price Per Piece (Rs.)	MOQ (No.)	Dia Inch	Length Inch	Bore Inch	Price Per Piece (Rs.)	MOQ (No.)
1.3/4	1.1/4	3/4	4310	4	3	1.11/16	1.1/8	8984	4
2	1.1/4	3/4	4969	4	4	1.3/4	1.1/8	15026	3
2.1/2	1.1/4	3/4	6276	4	5	2	1.1/2	25277	3

For more details please refer our Product Catalogue Page no. 140.

**HSS HOLLOW MILLS RH HELICAL FLUTES FOR RH CUTTING**

**BS : 122 (PART 1) 1953**

Bore Dia Inch	O.S. Dia Inch	Price Per Piece (Rs.)	MOQ (No.)	Bore Dia Inch	O.S. Dia Inch	Price Per Piece (Rs.)	MOQ (No.)
1/4	5/8	2284	5	5/8	1.1/4	3795	5
9/32	3/4	2723	5	11/16	1.1/2	4360	5
5/16	3/4	2723	5	3/4	1.1/2	4360	5
11/32	3/4	2723	5	13/16	1.1/2	4360	5
3/8	1	2952	5	7/8	1.3/4	5447	5
7/16	1	2952	5	15/16	1.3/4	5447	5
1/2	1	2952	5	1	1.3/4	5447	5
9/16	1.1/4	3795	5				

For more details please refer our Product Catalogue Page no. 118





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

**IS : 2669 - 1971**

Dia mm	Width mm	Price Per Piece (Rs.)	MOQ (No.)	Dia mm	Width mm	Price Per Piece (Rs.)	MOQ (No.)	Dia mm	Width mm	Price Per Piece (Rs.)	MOQ (No.)
10.5	2	1371	35	16.5	5	1909 **	30	28.5	6	4003 **	15
10.5	2.5	1371	35	19.5	4	2170	30	28.5	8	4003	15
10.5	3	1371	35	19.5	5	2170	30	28.5	10	4003	15
13.5	3	1714	30	19.5	6	2170 **	30	32.5	7	4734	10
13.5	4	1714 **	30	22.5	5	2467	25	32.5	8	4734	10
16.5	3	1909 **	30	22.5	6	2467 **	25	32.5	10	4734	10
16.5	4	1909	30	22.5	8	2467	25	45.5	10	8040	10

For more details please refer our Product Catalogue Page no. 115.

**HSS CUTTERS FOR WOODRUFF KEYSEATS**

**BS : 122 (PART 1) 1953**

B.S. No.	Price Per Piece (Rs.)	MOQ (No.)	B.S. No.	Price Per Piece (Rs.)	MOQ (No.)	B.S. No.	Price Per Piece (Rs.)	MOQ (No.)
204	1462	30	607	2794	25	1210	4946	10
304	1462	30	807	2794	25	1011	6019	10
404	1462	30	608	3377 **	25	1211	6019	10
305	2027	30	808	3377	25	812	6800	10
405	2027	30	1008	3377	25	1012	6800	10
505	2027	30	609	4179	15	1212	6800	10
406	2380	30	809	4179 **	15			
506	2380	30	1009	4179	15			
606	2380	30	810	4946 **	10			
507	2794	25	1010	4946	10			

For more details please refer our Product Catalogue Pages no. 156 & 157.



**HSS 'T' SLOT CUTTERS WITH TAPER SHANK  
RH CUTTERS - TOOL TYPE-N**

**IS : 2668 - 2004**

Dia mm	Length mm	Price Per Piece (Rs.)	MOQ (No.)	Dia mm	Length mm	Price Per Piece (Rs.)	MOQ (No.)
10	18	5215	20	22	40	18279	15
12	21	5698	20	28	50	23695	10
14	25	10954	20	36	60	42701	5
18	32	13715	15	42	72	51820	3

**HSS 'T' SLOT CUTTERS  
RH CUTTERS - TOOL TYPE-N**

**BS : 122 (PART 1) 1953**

Dia Inch	Length Inch	Price Per Piece (Rs.)	MOQ (No.)	Dia Inch	Length Inch	Price Per Piece (Rs.)	MOQ (No.)
1/4	37/64	4190	20	3/4	1-33/64	13294	15
5/16	45/64	4725	20	7/8	1-45/64	15677	15
3/8	53/64	5166	20	1	1-61/64	19415	10
7/16	61/64	5475	20	1-1/8	2-1/8	25061	5
1/2	1-5/64	6614	20	1-1/4	2-5/16	29813	5
5/8	1-21/64	10706	15	1-3/8	2-1/2	36798	5
3/4	1-33/64	13294	15	1-1/2	2-3/4	47113	3

For more details please refer our Product Catalogue page nos. 159 & 160



### HSS TAPER SHANK COUNTER BORES

IS : 5710-1988

Dia mm	Price Per Piece (Rs.)	MOQ (No.)	Dia mm	Price Per Piece (Rs.)	MOQ (No.)	Dia mm	Price Per Piece (Rs.)	MOQ (No.)
13.5	2959	15	28	9951	15	43	19217	10
14.5	3308	15	29	10490	15	46	21881	10
16.5	3796	15	31	11436	15	48	23751	3
17.5	4083	15	33	13102	10	51	26810	3
19.5	4821	15	34	13968	10	53	29128	3
20	5055 **	15	36	15181	10	55	32063	3
22	5785 **	15	37	15820	10	57	35228	3
23	6641	15	39	17141	10	59	39035	3
25	8040	15	41	18589	10	61	43489	3
26	8910 **	15						

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

### HSS TAPER SHANK COUNTER BORES

IS : 5710-1988

Dia Inch	Pilot Dia Inch	Price Per Piece (Rs.)	MOQ (No.)	Dia Inch	Pilot Dia Inch	Price Per Piece (Rs.)	MOQ (No.)	Dia Inch	Pilot Dia Inch	Price Per Piece (Rs.)	MOQ (No.)
1/4	1/8	1756	15	11/16	7/16	4083	15	1-1/4	3/4	11436	15
5/16	3/16	1997	15	3/4	1/2	4589	15	1-3/8	13/16	13968	10
3/8	7/32	2229	15	13/16	9/16	5089	15	1-1/2	7/8	16226	10
7/16	1/4	2306	15	7/8	5/8	5785 **	15	1-5/8	15/16	18599	10
1/2	5/16	2595	15	15/16	5/8	6800	15	1-3/4	1	21071	10
9/16	3/8	3227	15	1	3/4	8040	15	1-7/8	1 1/8	23406	3
5/8	7/16	3603	15	1-1/8	3/4	9951	15	2	1 1/4	25846	3

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

For more details please refer our Product Catalogue page nos. 88 & 89.

### HSS COUNTERSINKS WITH RH CUTTING WITH STRAIGHT FLUTES

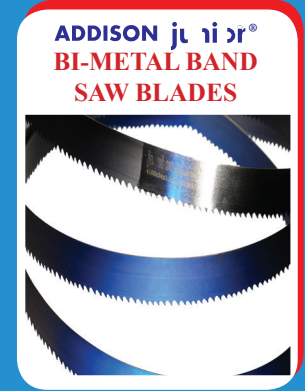
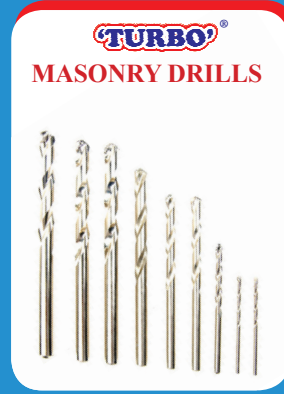
BS : 122 (PART 2) 1964

Dia Inch	Price Per Piece (Rs.)	MOQ (No.)	Dia Inch	Price Per Piece (Rs.)	MOQ (No.)	Dia Inch	Price Per Piece (Rs.)	MOQ (No.)
1/2	1948 **	15	1-1/8	6019	15	2	18088 **	3
5/8	2587 **	15	1-1/4	7577 **	15	2 1/4	20507	3
3/4	2932 **	15	1-3/8	8858	10	2 1/2	25450 **	3
7/8	3702	15	1-1/2	10497 **	10	2 3/4	30039	3
1	4656 **	15	1-3/4	15522 **	10	3	36329	3

For more details please refer our Product Catalogue Page no. 94.



# We can also manufacture and supply



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GSTIN NO. 33AAACA5199H1ZP