

HOUSE OF INDUSTRIAL TOOLS

# SMITH

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(Exclusive of GST)

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HOUSE OF INDUSTRIAL TOOLS

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**SMITH INTERNATIONAL**

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Stockists

# NEWLY LAUNCHED

PREMIUM QUALITY



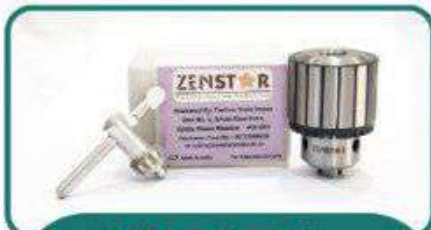
HSS External  
Threading Round  
Dies & HEX Nuts



Tungsten Carbide  
Tipped Brazed  
Tools



Micro Grain Solid  
Carbide Drills &  
Endmills



High Precision Drill  
Chucks, Drill Sleeves &  
Arbors



Torque  
Wrenches

## Product Details



### HSS Toolbit Blanks

2-3

HSS Toolbit Blanks, HSS Flat (Rectangular) & Parting Toolbits , Zedd ++ Toolbits

### HSS Drills

4-9

HSS & HSSE Parallel Shank Jobber Drills

Drill Set & HSS Parallel Shank Stub Series, Long & Extra Long Series

Centre Drills, HSS & HSSE Taper Shank Drills

### HSS Endmills & Reamers

10-11

HSS & HSSE Parallel Shank Endmills & Slotdrills Long Series

Roughing Endmills M42

HSS Reamers

### HSS & TCT Annular Cutters

12

HSS & TCT Annular Cutter

### HSS Taps

13-20

HSS Metric Coarse Pitch & Metric Fine Pitch Taps

HSS - BSW, BSF, UNC, UNF, BSCY, BA & Pipe Taps

HSS Nib Taps & UN Taps

HSS Ground Thread Hand Taps - Coarse Pitch - Helicoil

HSSE High Performance Platinum Cut (Edge) Taps

### Tungsten Carbide Tipped Tools

21-27

Straight Round & Grooving Tools, Boring Tools, Straight Threading Tools, Internal & External Threading Tools,

Threading Tools With "V" Profile

### Tungsten Carbide Rotary Burrs

28-29

Conical, Cylindrical Radius End, Cylindrical, Flame, Cone, Oval, Rim, Ball, Tree Pointed End, Tree Radius End, Inverted Cone

## HSS TOOLBIT BLANKS

NOMINAL SIZE			GRADES						
MM	INCH	EQUIVALENT MM	ZEDD M2 SQ. PRICE EACH RS.	S100 M35 SQ./RD PRICE EACH RS.	S200 M42 SQ./RD PRICE EACH RS.	S400 T42 SQ./RD PRICE EACH RS.	S400 E M35 SQ./RD PRICE EACH RS.	S500 T 42 SQ./RD PRICE EACH RS.	PKT. QTY.
-	3/32 x 2.1/2	2.38 x 63.50	146	322	453	477	380	508	10
-	3/32 x 3	2.38 x 76.20	171	521	729	764	612	812	10
3 x 75	1/8 x 3	3.18 x 76.20	171	357	502	530	417	552	10
3 x 100	1/8 x 4	3.18 x 101.60	224	643	925	970	763	1,009	10
4 x 75	5/32 x 3	3.97 x 76.20	171	361	515	541	426	553	10
4 x 100	5/32 x 4	3.97 x 101.60	229	560	800	840	666	862	10
5 x 75	3/16 x 3	4.76 x 76.20	146	285	374	392	334	406	10
5 x 100	3/16 x 4	4.76 x 101.60	192	420	546	574	496	601	10
5 x 150	3/16 x 6	4.76 x 152.40	297	759	1,165	1,230	890	1,231	10
6 x 75	1/4 x 3	6.35 x 76.20	166	361	502	530	426	553	10
6 x 100	1/4 x 4	6.35 x 101.60	196	491	667	703	574	731	10
6 x 150	1/4 x 6	6.35 x 152.40	282	803	1,090	1,149	945	1,193	10
6 x 200	1/4 x 8	6.35 x 203.20	401	1,332	1,845	1,942	1,562	2,043	10
8 x 75	5/16 x 3	7.94 x 76.20	185	474	644	682	560	726	10
8 x 100	5/16 x 4	7.94 x 101.60	240	652	885	929	768	991	10
8 x 150	5/16 x 6	7.94 x 152.40	396	1,041	1,423	1,496	1,231	1,586	10
8 x 200	5/16 x 8	7.94 x 203.20	503	1,483	2,010	2,120	1,749	2,261	10
-	3/8 x 3	9.53 x 76.20	232	552	764	811	645	860	10
-	3/8 x 4	9.53 x 101.60	282	737	1,011	1,066	870	1,156	10
-	3/8 x 6	9.53 x 152.40	438	1,164	1,629	1,711	1,375	1,827	10
-	3/8 x 8	9.53 x 203.20	594	1,657	2,309	2,434	1,944	2,592	10
-	3/8 x 10	9.53 x 254.00	765	2,195	3,058	3,219	2,580	3,433	10
10 x 75	-	-	258	601	835	877	706	939	10
10 x 100	-	-	305	803	1,119	1,177	943	1,256	10
10 x 150	-	-	472	1,256	1,753	1,847	1,483	1,964	10
10 x 200	-	-	661	1,772	2,465	2,594	2,086	2,765	10
10 x 250	-	-	834	2,339	3,257	3,426	2,740	3,648	10
12 x 75	1/2 x 3	12.70 x 76.20	348	872	1,250	1,314	1,029	1,369	10
12 x 100	1/2 x 4	12.70 x 101.60	438	1,164	1,630	1,715	1,375	1,835	10
12 x 150	1/2 x 6	12.70 x 152.40	668	1,792	2,554	2,695	2,109	2,816	10
12 x 200	1/2 x 8	12.70 x 203.20	877	2,503	3,565	3,752	2,945	3,927	10
12 x 250	1/2 x 10	12.70 x 254.00	1,336	3,505	4,902	5,166	4,124	5,481	10
14 x 100	9/16 x 4	14.29 x 101.60	540	1,496	2,010	2,120	1,764	2,261	1
14 x 150	9/16 x 6	14.29 x 152.40	828	2,261	3,036	3,194	2,651	3,403	1
14 x 200	9/16 x 8	14.29 x 203.20	1,137	3,138	4,222	4,445	3,689	4,730	1
16 x 100	5/8 x 4	15.88 x 101.60	693	1,918	2,740	2,887	2,262	3,002	1
16 x 150	5/8 x 6	15.88 x 152.40	1,021	2,883	4,015	4,222	3,387	4,498	1
16 x 200	5/8 x 8	15.88 x 203.20	1,380	3,940	5,628	5,927	4,638	6,157	1
-	3/4 x 4	19.05 x 101.60	958	2,668	3,764	3,961	3,136	4,177	1
-	3/4 x 6	19.05 x 152.40	1,400	3,993	5,522	5,817	4,704	6,259	1
-	3/4 x 8	19.05 x 203.20	1,915	5,360	7,568	7,966	6,302	8,390	1
20 x 100	-	-	1,046	2,906	4,106	4,323	3,416	4,551	1
20 x 150	-	-	1,524	4,350	6,153	6,480	5,125	6,827	1
20 x 200	-	-	2,083	5,798	8,204	8,638	6,834	9,096	1
25 x 150	1 x 6	25.40 x 152.40	2,357	6,632	9,264	9,756	7,802	10,368	1
25 x 200	1 x 8	25.40 x 203.20	3,204	8,842	12,351	13,003	10,403	13,824	1

- ZEDD = (HSS with % Cobalt) (62-65 HRC)
- S100 = M35 (HSS with 5% Cobalt) (63-66 HRC)
- S200 = M42 (HSS with 8% Cobalt) (65-68 HRC)
- S400 = T42 (HSS with 10% Cobalt) (64-67 HRC)
- S400E = M35 with Cryogenic (Ultra Low) Heat Treatment (64-67 HRC)
- S500 = T42 with Cryogenic (Ultra Low) Heat Treatment (65-69 HRC)

(Square Toolbit Blanks are with bevelled ends)

**HSS FLAT (RECTANGULAR) TOOLBIT BLANKS**

NOMINAL SIZE			GRADES		PKT. QTY.
			MARK III	T42	
MM	INCH	EQUIVALENT MM	PRICE EACH RS.	PRICE EACH RS.	
3 x 20 x 150	1/8 x 3/4 x 6	3.18 x 19.05 x 152.40	1,098	1,715	10
3 x 25 x 150	1/8 x 1 x 6	3.18 x 25.40 x 152.40	1,568	2,450	10
5 x 25 x 150	3/16 x 1 x 6	4.76 x 25.40 x 152.40	1,724	3,008	10
6 x 12 x 100	1/4 x 1/2 x 4	6.35 x 12.70 x 101.60	662	1,035	10
6 x 12 x 150	1/4 x 1/2 x 6	6.35 x 12.70 x 152.40	1,013	1,593	10
6 x 16 x 150	1/4 x 5/8 x 6	6.35 x 15.88 x 152.40	1,207	1,958	10
6 x 20 x 150	1/4 x 3/4 x 6	6.35 x 19.05 x 152.40	1,433	2,243	10
6 x 25 x 150	1/4 x 1 x 6	6.35 x 25.40 x 152.40	1,749	2,735	10
10 x 12 x 100	3/8 x 1/2 x 4	9.53 x 12.70 x 101.60	996	1,561	10
10 x 16 x 100	3/8 x 5/8 x 4	9.53 x 15.88 x 101.60	1,106	1,732	10
10 x 16 x 150	3/8 x 5/8 x 6	9.53 x 15.88 x 152.40	1,726	2,695	10
10 x 20 x 150	3/8 x 3/4 x 6	9.53 x 19.05 x 152.40	1,990	3,103	10
10 x 25 x 150	3/8 x 1 x 6	9.53 x 25.40 x 152.40	3,410	5,328	10
12 x 16 x 150	1/2 x 5/8 x 6	12.70 x 15.88 x 152.40	2,128	3,778	1
12 x 20 x 150	1/2 x 3/4 x 6	12.70 x 19.05 x 152.40	2,356	4,177	1
12 x 25 x 150	1/2 x 1 x 6	12.70 x 25.40 x 152.40	3,088	4,836	1
16 x 20 x 150	5/8 x 3/4 x 6	15.88 x 19.05 x 152.40	3,206	5,478	1
20 x 25 x 150	3/4 x 1 x 6	19.05 x 25.40 x 152.40	4,515	8,665	1

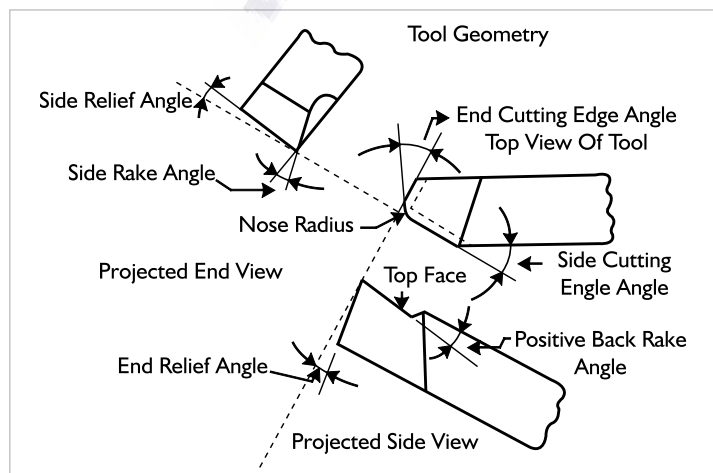
• Mark III- M35 (HSS with 5% Cobalt) (63-66 HRC), T42 (HSS with 10% Cobalt)

**HSS PARTING TOOLBITS**

NOMINAL SIZE		GRADES		PKT. QTY.
		MARK II	T42	
INCH	EQUIVALENT MM	PRICE EACH RS.	PRICE EACH RS.	
3/32 x 1/2 x 4	2.38 x 12.70 x 101.60	867	1,522	10
3/32 x 5/8 x 5	2.38 x 15.88 x 127.00	1,087	2,000	10
1/8 x 3/4 x 6	3.18 x 19.05 x 152.40	1,385	2,455	10
1/8 x 7/8 x 6	3.18 x 22.23 x 152.40	1,621	2,998	10
3/16 x 1 x 6	4.76 x 25.40 x 152.40	2,016	3,435	10

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

**ToolBit Terms-General Features**



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

SIZES			PRICE RS./10 NOS.			SIZES			PRICE RS./10 NOS.		
MM	INCH	DG	STD. JOBBER DRILLS M2	GOLD JOBBER DRILLS M2	SUPER JOBBER DRILLS M35	MM	INCH	DG	STD. JOBBER DRILLS M2	GOLD JOBBER DRILLS M2	SUPER JOBBER DRILLS M35
1.00	-	-	561	622	759	2.90	-	-	603	667	814
1.02	-	60	561	622	759	2.95	-	32	603	667	814
1.04	-	59	561	622	759	3.00	-	-	541	598	730
1.07	-	58	561	622	759	3.05	-	31	-	-	-
1.09	-	57	561	622	759	3.10	-	-	707	785	957
1.10	-	-	561	622	759	3.17	1/8	-	707	785	957
1.18	-	56	561	622	759	3.20	-	-	726	805	980
1.19	3/64	-	561	622	759	3.26	-	30	726	805	980
1.20	-	-	561	622	759	3.30	-	-	726	805	980
1.30	-	-	561	622	759	3.40	-	-	726	805	980
1.32	-	55	561	622	759	3.45	-	29	726	805	980
1.40	-	54	561	622	759	3.50	-	-	726	805	980
1.50	-	-	561	622	759	3.57	9/64	28	726	805	980
1.51	-	53	561	622	759	3.60	-	-	1,081	1,198	1,459
1.59	1/16	-	561	622	759	3.66	-	27	1,081	1,198	1,459
1.60	-	-	561	622	759	3.70	-	-	1,081	1,198	1,459
1.61	-	52	587	651	795	3.73	-	26	1,081	1,198	1,459
1.70	-	51	587	651	795	3.80	-	25	1,081	1,198	1,459
1.78	-	50	587	651	795	3.86	-	24	1,081	1,198	1,459
1.80	-	-	587	651	795	3.90	-	-	1,081	1,198	1,459
1.85	-	49	587	651	795	3.91	-	23	1,081	1,198	1,459
1.90	-	-	587	651	795	3.97	5/32	-	1,081	1,198	1,459
1.93	-	48	587	651	795	3.99	-	22	1,081	1,198	1,459
1.98	5/64	-	587	651	795	4.00	-	-	1,081	1,198	1,459
1.99	-	47	587	651	795	4.04	-	21	1,303	1,445	1,760
2.00	-	-	587	651	795	4.09	-	20	1,303	1,445	1,760
2.06	-	46	587	651	795	4.10	-	-	1,303	1,445	1,760
2.08	-	45	587	651	795	4.20	-	-	1,303	1,445	1,760
2.10	-	-	587	651	795	4.22	-	19	1,303	1,445	1,760
2.18	-	44	587	651	795	4.30	-	18	1,303	1,445	1,760
2.20	-	-	587	651	795	4.37	11/64	-	1,303	1,445	1,760
2.26	-	43	587	651	795	4.39	-	17	1,303	1,445	1,760
2.30	-	-	587	651	795	4.40	-	-	1,303	1,445	1,760
2.37	-	42	587	651	795	4.50	-	16	1,711	1,901	2,310
2.38	3/32	-	587	651	795	4.57	-	15	1,711	1,901	2,310
2.40	-	-	587	651	795	4.60	-	-	1,711	1,901	2,310
2.44	-	41	587	651	795	4.62	-	14	1,711	1,901	2,310
2.49	-	40	-	-	-	4.70	-	13	1,711	1,901	2,310
2.50	-	-	587	651	795	4.76	3/16	-	1,711	1,901	2,310
2.53	-	39	587	651	795	4.80	-	12	1,711	1,901	2,310
2.58	-	38	-	-	-	4.85	-	11	1,880	2,086	2,539
2.60	-	-	587	651	795	4.90	-	-	1,880	2,086	2,539
2.64	-	37	587	651	795	4.92	-	10	1,880	2,086	2,539
2.70	-	-	587	651	795	4.98	-	9	1,880	2,086	2,539
2.71	-	36	587	651	795	5.00	-	-	1,880	2,086	2,539
2.78	7/64	-	587	651	795	5.06	-	8	1,880	2,086	2,539
2.79	-	35	603	651	817	5.10	-	-	1,880	2,086	2,539
2.80	-	-	603	651	817	5.11	-	7	1,880	2,086	2,539
2.82	-	34	603	651	817	5.16	13/64	-	1,880	2,086	2,539
2.87	-	33	603	651	817	5.18	-	6	1,880	2,086	2,539

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

SIZE			PRICE RS./10 NOS.			SIZE			PRICE RS./10 NOS.		
MM	INCH	DG	STD. JOBBER DRILLS M2	GOLD JOBBER DRILLS M2	SUPER JOBBER DRILLS M35	MM	INCH	DG	STD. JOBBER DRILLS M2	GOLD JOBBER DRILLS M2	SUPER JOBBER DRILLS M35
5.20	-	-	1,880	2,086	2,539	9.13	23/64	-	5,674	6,302	7,802
5.22	-	5	2,030	2,254	2,756	9.20	-	-	5,674	6,302	7,802
5.30	-	-	2,030	2,254	2,756	9.30	-	-	5,674	6,302	7,802
5.31	-	4	2,030	2,254	2,756	9.34	-	U	5,674	6,302	7,802
5.40	-	-	2,030	2,254	2,756	9.40	-	-	5,674	6,302	7,802
5.41	-	3	2,030	2,254	2,756	9.50	-	-	5,674	6,302	7,802
5.50	-	-	2,030	2,254	2,756	9.52	3/8	-	6,458	7,171	8,881
5.56	7/32	-	2,030	2,254	2,756	9.60	-	-	6,458	7,171	8,881
5.60	-	-	2,030	2,254	2,756	9.70	-	-	6,458	7,171	8,881
5.61	-	2	2,261	2,512	3,058	9.80	-	-	6,458	7,171	8,881
5.70	-	-	2,261	2,512	3,058	9.90	-	-	7,198	7,989	9,825
5.79	-	1	2,261	2,512	3,058	9.92	25/64	-	-	-	-
5.80	-	-	2,261	2,512	3,058	10.00	-	-	7,198	7,989	9,825
5.90	-	-	2,261	2,512	3,058	10.10	-	-	7,198	7,989	9,825
5.95	15/64	-	2,261	2,512	3,058	10.20	-	-	7,198	7,989	9,825
6.00	-	-	2,261	2,512	3,058	10.30	-	-	7,833	8,693	10,692
6.04	-	B	2,477	2,753	3,359	10.32	13/32	-	7,833	8,693	10,692
6.10	-	-	2,477	2,753	3,359	10.40	-	-	7,833	8,693	10,692
6.15	-	C	2,477	2,753	3,359	10.50	-	-	7,833	8,693	10,692
6.20	-	-	2,477	2,753	3,359	10.60	-	-	7,833	8,693	10,692
6.30	-	-	2,477	2,753	3,359	10.70	-	-	8,277	9,190	11,299
6.35	1/4	E	2,477	2,753	3,359	10.72	27/64	-	8,277	9,190	11,299
6.40	-	-	2,477	2,753	3,359	10.80	-	-	8,277	9,190	11,299
6.50	-	-	3,164	3,512	4,285	10.90	-	-	8,277	9,190	11,299
6.60	-	-	3,164	3,512	4,285	11.00	-	-	8,277	9,190	11,299
6.63	-	G	3,164	3,512	4,285	11.10	-	-	9,239	10,253	12,612
6.70	-	-	3,164	3,512	4,285	11.11	7/16	-	9,239	10,253	12,612
6.75	17/64	H	3,164	3,512	4,285	11.20	-	-	9,239	10,253	12,612
6.80	-	-	3,164	3,512	4,285	11.30	-	-	9,239	10,253	12,612
6.90	-	-	3,461	3,840	4,673	11.40	-	-	9,239	10,253	12,612
7.00	-	J	3,461	3,840	4,673	11.50	-	-	9,734	10,804	13,287
7.10	-	-	3,461	3,840	4,673	11.51	29/64	-	9,734	10,804	13,287
7.14	9/32	K	3,461	3,840	4,673	11.60	-	-	9,734	10,804	13,287
7.20	-	-	3,461	3,840	4,673	11.70	-	-	9,734	10,804	13,287
7.30	-	-	3,657	4,061	4,950	11.80	-	-	9,734	10,804	13,287
7.40	-	-	3,657	4,061	4,950	11.90	-	-	10,403	11,553	14,200
7.50	-	-	3,657	4,061	4,950	11.91	15/32	-	10,403	11,553	14,200
7.54	19/64	-	3,971	4,408	5,368	12.00	-	-	10,403	11,553	14,200
7.60	-	-	3,972	4,408	5,367	12.10	-	-	10,403	11,553	14,200
7.70	-	-	3,972	4,408	5,367	12.20	-	-	10,403	11,553	14,200
7.80	-	-	3,972	4,408	5,367	12.30	31/64	-	11,034	12,250	15,062
7.90	-	-	4,340	4,817	5,866	12.40	-	-	11,034	12,250	15,062
7.94	5/16	-	4,340	4,817	5,866	12.50	-	-	11,034	12,250	15,062
8.00	-	-	4,340	4,817	5,866	12.60	-	-	11,034	12,250	15,062
8.03	-	O	4,340	4,817	5,866	12.70	1/2	-	11,645	12,926	15,895
8.10	-	-	4,340	4,817	5,866	12.80	-	-	11,645	12,926	15,895
8.20	-	-	4,340	4,817	5,866	12.90	-	-	11,645	12,926	15,895
8.30	-	-	5,156	5,723	7,103	13.00	-	-	11,645	12,926	15,895
8.33	21/64	-	5,156	5,723	7,103	13.10	33/64	-	14,489	16,084	19,778
8.40	-	-	5,156	5,723	7,103	13.20	-	-	14,489	16,084	19,778
8.50	-	-	5,156	5,723	7,103	13.30	-	-	14,489	16,084	19,778
8.60	-	-	5,156	5,723	7,103	13.40	-	-	14,489	16,084	19,778
8.70	-	-	5,156	5,723	7,103	13.49	17/32	-	15,409	17,106	21,033
8.73	11/32	-	5,498	6,104	7,561	13.50	-	-	15,409	17,106	21,033
8.80	-	-	5,498	6,104	7,561	13.60	-	-	15,409	-	21,033
8.90	-	-	5,498	6,104	7,561	13.70	-	-	15,409	-	21,033
9.00	-	-	5,498	6,104	7,561	13.80	-	-	15,409	17,106	21,033
9.10	-	-	5,674	6,302	7,751	13.89	35/64	-	16,734	18,579	22,842

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

SIZES			PRICE RS./10 NOS.			SIZES			PRICE RS./10 NOS.		
MM	INCH	DG	STD. JOBBER DRILLS M2	GOLD JOBBER DRILLS M2	SUPER JOBBER DRILLS M35	MM	INCH	DG	STD. JOBBER DRILLS M2	GOLD JOBBER DRILLS M2	SUPER JOBBER DRILLS M35
13.90	-	-	16,734	18,578	22,825	15.50	-	-	20,500	22,755	28,188
14.00	-	-	16,734	18,578	22,825	15.75	-	-	20,500	22,755	28,188
14.25	-	-	16,734	18,578	22,825	15.87	5/8	-	-	-	-
14.29	9/16	-	17,541	19,472	23,925	16.00	-	-	20,500	22,755	28,188
14.50	-	-	18,886	19,472	25,761	17.00	-	-	21,701	24,091	-
14.68	37/64	-	18,886	20,966	25,761	17.46	11/16	-	21,701	24,091	-
14.75	-	-	18,886	20,966	25,761	18.00	-	-	23,487	26,074	-
15.00	-	-	18,886	20,966	25,761	19.00	-	-	24,833	27,566	-
15.08	19/32	-	18,886	20,966	25,761	19.05	3/4	-	24,833	27,566	-
15.25	-	-	18,886	20,966	25,761	20.00	-	-	-	-	-

**DRILL SET**  
**IS:5101 - 1991**

DRILL SET (mm)	PRICE RS./ SET	
	STD. JOBBER DRILLS M2	GOLD JOBBER DRILLS M2
1.50 TO 6.50 MM (13 Pc.)	1,959	2,177
1.00 TO 10.00 MM(19 Pc.)	5,459	-
1.00 TO 13.00 MM(25Pc.)	11,560	12,830
1/16 TO 1/4 INCH (13 Pcs.)	1,959	2,177
1/16 TO 3/8 INCH (21Pcs.)	5,825	6,475
1/16 TO 1/2 INCH (29 Pcs)	12,848	-

**HSS PARALLEL SHANK STUB SERIES**  
**IS : 5100 - 1969**

SIZES		PRICE RS./10 NOS.			SIZES		PRICE RS./10 NOS.		
MM	INCH	STD. STUB SERIES M2	GOLD STUB SERIES M2	SUPER STUB DRILLS M35	MM	INCH	STD. STUB SERIES M2	GOLD STUB SERIES M2	SUPER STUB DRILLS M35
1.50	-	580	643	-	6.35	1/4	2,251	2,498	3,209
1.60	-	580	643	-	6.50	-	2,760	3,064	3,934
1.90	-	-	-	-	6.75	17/64	2,760	-	3,934
2.00	-	580	643	-	6.80	-	2,760	3,064	3,934
2.20	-	580	643	-	7.00	-	3,033	3,364	4,323
2.50	-	580	643	-	7.14	9/32	3,033	3,364	4,323
2.78	7/64	580	643	-	7.50	-	3,143	3,488	4,482
2.90	-	630	702	-	7.94	5/16	3,806	4,227	5,429
3.00	-	582	649	833	8.00	-	3,739	4,152	5,332
3.17	1/8	688	765	982	8.50	-	4,680	5,196	6,676
3.20	-	727	805	1,035	9.00	-	4,888	5,426	6,971
3.50	-	727	805	1,035	9.50	-	5,157	5,724	7,353
3.57	9/64	727	805	1,035	9.52	3/8	5,386	5,979	7,679
3.97	5/32	1,032	1,144	1,472	10.00	-	6,592	7,321	9,403
4.00	-	1,032	1,144	1,472	10.50	-	7,092	7,873	-
4.20	-	1,161	1,288	1,654	11.00	-	7,985	8,864	11,385
4.50	-	1,534	1,707	2,190	11.11	7/16	8,864	9,234	11,862
4.76	3/16	1,534	1,707	2,190	12.00	-	9,422	10,460	13,437
5.00	-	1,643	1,823	2,341	12.70	1/2	10,434	11,581	14,880
5.16	13/64	1,643	1,823	2,341	13.00	-	10,434	11,581	14,880
5.50	-	1,780	1,977	2,536	14.00	-	14,222	15,784	-
5.56	7/32	1,780	-	2,536	15.00	-	16,015	17,777	-
6.00	-	2,016	2,233	2,870	16.00	-	17,362	19,274	-



**HSS PARALLEL SHANK-LONG SERIES**  
**IS : 5102 : 1969**

SIZES		PRICE RS. / PIECE	SIZES		PRICE RS. / PIECE	SIZES		PRICE RS. / PIECE
MM	INCH		MM	INCH		MM	INCH	
1.00	-	312	3.57	9/64	406	7.00	-	1,134
1.10	-	312	3.70	-	439	7.20	-	1,134
1.19	-	312	3.80	-	439	7.50	-	1,134
1.20	-	312	3.97	5/32	439	7.80	-	1,134
1.30	-	312	4.00	-	439	7.94	5/16	1,167
1.40	-	312	4.10	-	439	8.00	-	1,167
1.50	-	312	4.20	-	439	8.10	-	1,167
1.59	1/16	312	4.30	-	439	8.20	-	1,167
1.60	-	312	4.50	-	439	8.50	-	1,167
1.70	-	312	4.76	-	439	9.00	-	1,292
1.80	-	312	4.80	-	439	9.50	-	1,292
1.90	-	312	4.90	-	509	9.52	3/8	1,292
1.98	5/64	312	5.00	-	509	9.80	-	1,505
2.00	-	312	5.10	-	509	10.00	-	1,627
2.10	-	312	5.16	13/64	509	10.20	-	1,702
2.20	-	312	5.20	-	509	10.50	-	1,751
2.30	-	399	5.30	-	596	11.00	-	1,986
2.38	3/32	399	5.50	-	596	11.50	-	1,809
2.40	-	399	5.56	7/32	596	11.80	-	1,809
2.50	-	399	5.60	-	645	12.00	-	1,809
2.60	-	399	5.80	-	645	12.50	-	2,508
2.70	-	399	5.90	-	645	-	1/2	2,787
2.78	7/64	399	5.95	15/64	645	13.00	-	2,787
2.80	-	399	6.00	-	645	13.50	-	2,787
2.90	-	399	6.10	-	730	14.00	-	2,787
3.00	-	406	6.35	1/4	670	14.29	9/16	2,787
3.10	-	406	6.50	-	938	14.50	-	2,916
3.17	1/8	406	6.60	-	1,134	15.00	-	2,916
3.20	-	406	6.75	17/64	1,134	15.50	-	3,033
3.30	-	406	6.80	-	1,134	15.87	5/8	3,033
3.50	-	406	6.90	-	1,134	-	-	-

Note : Minimum order value required is Rs.20,000/- net.

**HSS PARALLEL SHANK-EXTRA LONG SERIES**

SIZES		PRICE RS. / PIECE							
MM	INCH	OAL MM	150	175	200	225	250	300	350
		FL MM	100	120	150	175	200	250	300
3.00	1/8	-	1,178	1,420	1,623	1,914	2,294	2,751	-
3.50	-	-	1,226	1,428	1,633	2,216	2,459	3,246	-
4.00	5/32	-	1,177	1,428	1,633	2,219	2,467	3,246	4,468
4.50	-	-	1,186	1,463	1,671	2,222	2,472	3,479	4,581
5.00	3/16	-	1,216	1,497	1,702	2,264	2,524	3,559	-
5.50	7/32	-	1,284	1,575	1,809	2,430	2,693	3,566	4,698
6.00	-	-	1,284	1,613	1,839	2,491	2,770	3,661	5,448
6.50	1/4	-	-	-	2,227	-	3,216	4,146	5,448
7.00	-	-	-	-	2,338	-	3,499	4,196	6,095
7.50	9/32	-	-	-	2,467	-	3,697	4,440	6,118
8.00	5/16	-	-	-	2,608	-	3,918	4,514	6,259
8.50	11/32	-	-	-	2,699	-	3,987	4,649	5,695
9.00	-	-	-	-	2,707	-	3,987	4,649	5,695
9.50	3/8	-	-	-	2,785	-	3,997	4,792	-
10.00	-	-	-	-	2,829	-	4,081	5,415	6,652
10.50	13/32	-	-	-	3,073	-	4,240	5,695	-
11.00	7/16	-	-	-	-	-	4,276	5,821	7,526
11.50	-	-	-	-	-	-	4,482	5,931	7,824
12.00	15/32	-	-	-	-	-	4,494	5,949	-
12.50	1/2	-	-	-	-	-	-	6,307	-

Note : Other details will be maintained as per IS : 7823- 2005.  
Minimum order value required is Rs.20,000/- net.

**HSS CENTER DRILLS**

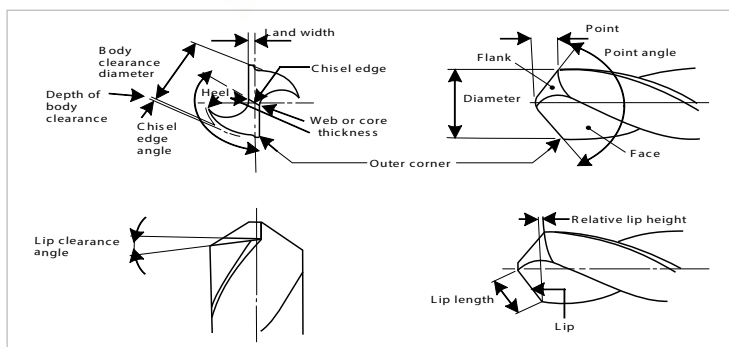
TYPE 'A' & 'R' IS : 6708/6710 - 1977			TYPE 'B' IS : 6709 - 1977			B.S. 328 (PART 2) 1950			
PILOT DIA MM	BODY DIA MM	PRICE RS/PIECE	PILOT DIA MM	BODY DIA MM	PRICE RS/PIECE	SIZE BS NO	PILOT DIA INCH	BODY DIA INCH	PRICE RS/PIECE
1.00	3.15	268	1.00	4.00	439	BS-1	3/64"	1/8"	268
1.25	3.15	268	1.25	5.00	473	BS-2	1/16"	3/16"	268
1.60	4.00	268	1.60	6.30	553	BS-3	3/32"	1/4"	307
2.00	5.00	268	2.00	8.00	777	BS-4	1/8"	5/16"	478
2.50	6.30	307	2.50	10.00	991	BS-5	3/16"	7/16"	631
3.15	8.00	478	3.15	11.20	1,326	BS-6	1/4"	5/8"	1,185
4.00	10.00	591	4.00	14.00	1,776	-	-	-	-
5.00	12.50	1,005	-	-	-	-	-	-	-
6.30	16.00	1,185	-	-	-	-	-	-	-

**HSS TAPER SHANK DRILL  
IS : 5103 - 1969**

SIZE		PRICE RS/PIECE		SIZE		PRICE RS/PIECE		SIZE		PRICE RS/PIECE	
MM	INCH	REGULAR (M2)	SUPER (M35)	MM	INCH	REGULAR (M2)	SUPER (M35)	MM	INCH	REGULAR (M2)	SUPER (M35)
3.00	-	-	-	10.20	-	1,270	1,721	17.25	-	3,208	4,347
3.20	-	508	688	10.50	-	1,504	2,038	17.46	11/16	3,208	4,347
3.50	-	484	656	10.80	-	1,573	2,131	17.50	-	3,325	4,505
3.80	-	508	688	11.00	-	1,573	2,131	17.75	-	3,364	4,558
4.00	-	484	656	11.11	7/16	1,573	2,131	18.00	-	3,518	4,767
4.20	-	653	885	11.20	-	1,617	2,191	18.25	-	3,518	4,767
4.50	-	653	885	11.50	-	1,617	2,191	18.26	23/32	3,518	4,767
4.76	3/16	653	885	11.80	-	1,617	2,191	18.50	-	3,518	4,767
4.80	-	672	911	12.00	-	1,642	2,225	18.75	-	3,549	4,809
5.00	-	653	885	12.20	-	1,642	2,225	19.00	-	3,549	4,809
5.20	-	672	911	12.50	-	1,642	2,225	19.05	3/4	3,549	-
5.50	-	653	885	12.70	1/2	1,642	2,225	19.25	-	3,728	5,051
5.80	-	672	911	12.80	-	2,274	3,081	19.50	-	3,728	5,051
6.00	-	653	885	13.00	-	2,274	3,081	19.75	-	3,728	5,051
6.20	-	741	1,004	13.20	-	2,381	3,226	19.84	25/32	3,728	5,051
6.35	1/4	729	988	13.49	17/32	2,381	3,226	20.00	-	4,007	5,429
6.50	-	745	1,009	13.50	-	2,548	3,453	20.25	51/64	4,048	5,485
6.75	17/64	-	-	13.80	-	2,548	3,453	20.50	-	4,048	5,485
6.80	-	755	1,023	14.00	-	2,548	3,453	20.64	13/16	4,048	5,485
7.00	-	745	1,009	14.25	-	2,728	3,696	20.75	-	4,232	5,734
7.20	-	755	1,023	14.29	9/16	2,728	3,696	21.00	-	4,232	5,734
7.50	-	745	1,009	14.50	-	2,849	3,860	21.25	-	4,346	-
7.80	-	755	1,023	14.75	-	2,849	3,860	21.43	27/32	-	-
7.94	5/16	745	1,009	15.00	-	2,849	3,860	21.50	-	4,463	6,047
8.00	-	745	1,009	15.25	-	2,895	-	21.75	-	4,463	6,047
8.20	-	-	-	15.50	-	2,895	3,923	22.00	-	4,549	6,164
8.50	-	970	1,314	15.75	-	2,895	3,923	22.22	7/8	4,549	6,164
8.80	-	1,174	1,591	15.87	5/8	2,895	-	22.25	-	4,959	6,719
9.00	-	1,067	1,446	16.00	-	2,960	4,011	22.50	-	4,959	6,719
9.20	-	1,174	1,591	16.25	-	2,960	4,011	22.75	-	5,055	6,850
9.50	-	1,067	1,446	16.50	-	3,164	4,287	23.00	29/32	5,055	6,850
9.52	3/8	1,067	1,446	16.67	21/32	3,164	4,287	23.25	-	5,301	7,183
9.80	-	1,257	1,703	16.75	-	3,164	4,287	23.50	-	6,033	8,175
10.00	-	1,135	1,538	17.00	-	3,164	4,287	23.75	-	6,033	8,175

Note: • For Super Series : Minimum order value required is Rs.20,000/- net or  
 • Minimum order quantity : From 3mm to 10mm- 50 Nos. From 20mm to 32mm- 10 Nos. Above 50mm- 2 Nos.  
 From 10mm to 20mm 30 Nos. From 32mm to 50mm- 5 Nos.

SIZE		PRICE RS/PIECE		SIZE		PRICE RS/PIECE		SIZE		PRICE RS/PIECE	
MM	INCH	REGULAR (M2)	SUPER (M35)	MM	INCH	REGULAR (M2)	SUPER (M35)	MM	INCH	REGULAR (M2)	SUPER (M35)
24.00		6,191	8,389	36.50	1.7/16	18,883	25,586	54.50	-	70,577	95,632
24.25		6,303	8,541	37.00	-	19,337	-	55.00	-	70,577	95,632
24.50		6,303	-	37.50	-	20,616	27,935	55.50	-	70,577	95,632
24.75		6,598	8,940	38.00	-	20,935	28,367	55.56	2.3/16	70,577	95,632
25.00	63/64	6,598	8,940	38.10	1.1/2	20,935	28,367	56.00	-	73,541	99,648
25.40	1	6,688	9,062	38.50	1.33/64	21,568	29,225	56.50	-	73,541	99,648
25.50	-	7,262	-	39.00	-	22,847	-	57.00	-	73,541	99,648
25.75	-	7,262	9,840	39.50	-	22,847	30,958	57.15	2.1/4	73,541	99,648
26.00	-	7,326	9,927	39.69	1.9/16	22,847	30,958	57.50	-	80,261	1,08,754
26.25	-	7,876	10,672	40.00	-	23,440	31,761	58.00	-	80,261	1,08,754
26.50	-	8,054	10,913	40.50	-	24,797	33,600	58.50	-	80,261	1,08,754
27.00	-	8,312	11,263	41.00	-	24,797	33,600	58.74	2.5/16	80,261	1,08,754
27.25	-	8,329	11,286	41.27	1.5/8	24,797	33,600	59.00	-	81,794	1,10,831
27.50	-	8,329	-	41.50	-	25,768	34,916	59.50	-	81,794	1,10,831
27.75	-	-	-	42.00	-	25,768	-	60.00	-	81,794	1,10,831
28.00	-	9,152	12,401	42.50	-	26,424	35,805	60.32	2.3/8	81,794	1,10,831
28.25	-	9,152	12,401	43.00	-	27,381	-	60.50	-	86,942	1,17,806
28.50	-	9,152	12,401	43.50	-	27,381	37,101	61.00	-	86,942	1,17,806
28.58	1.1/8	9,152	12,401	44.00	-	28,345	-	61.50	-	86,942	1,17,806
28.75	-	9,420	12,764	44.45	1.3/4	28,345	38,407	62.00	-	86,942	1,17,806
29.00	-	9,558	12,951	44.50	-	28,345	38,407	62.50	-	86,942	1,17,806
29.25	-	9,558	12,951	45.00	-	29,009	-	63.00	-	88,406	1,19,790
29.50	-	9,607	13,017	45.50	-	30,325	41,090	63.50	2.1/2	88,406	1,19,790
29.75	-	-	-	46.00	-	30,325	41,090	64.00	-	97,702	1,32,386
30.00	-	9,808	13,290	46.50	-	-	-	65.00	-	97,702	1,32,386
30.25	-	11,151	15,110	47.00	-	31,847	43,153	65.09	2.9/16	97,702	1,32,386
30.50	-	11,151	-	47.50	-	32,517	44,061	66.00	-	98,436	1,33,381
30.75	-	11,331	15,354	47.62	1.7/8	32,517	44,061	66.67	2.5/8	98,436	1,33,381
31.00	-	12,607	-	48.00	-	35,459	48,047	67.00	-	1,00,834	1,36,630
31.50	-	13,175	17,852	48.50	-	35,724	48,406	68.00	-	1,08,063	1,46,425
31.75	1.1/4	13,175	17,852	49.00	-	35,724	48,406	69.00	-	1,17,142	1,58,727
32.00	-	14,424	19,545	49.50	-	36,100	48,916	69.85	2.3/4	1,17,142	1,58,727
32.50	-	14,424	19,545	50.00	-	36,100	-	70.00	-	1,17,142	1,58,727
33.00	-	14,785	-	50.50	-	38,027	51,527	71.00	-	1,26,381	1,71,246
33.34	1.5/16	-	-	50.80	2	38,027	51,527	71.50	-	1,26,381	1,71,246
33.50	-	15,294	20,723	51.00	-	51,622	69,948	72.00	-	1,28,866	1,74,613
34.00	-	15,590	21,124	52.00	-	51,622	69,948	73.00	-	1,28,866	1,74,613
34.50	-	17,068	23,127	52.50	-	67,185	91,036	73.02	2.7/8	1,28,866	1,74,613
34.93	1.3/8	17,205	23,313	53.00	-	67,185	91,036	74.00	-	1,37,132	1,85,814
35.00	-	17,205	23,313	53.50	-	67,185	91,036	75.00	-	1,38,908	1,88,220
35.50	-	18,253	24,733	53.97	2.1/8	67,185	91,036	76.00	-	1,38,908	1,88,220
36.00	-	18,523	25,099	54.00	-	67,185	91,036	76.20	-	1,38,908	1,88,220



Note: • For Super Series : Minimum order value required is Rs.20,000/- net or  
 • Minimum order quantity : From 3mm to 10mm- 50 Nos. From 20mm to 32mm- 10 Nos. Above 50mm- 2 Nos.  
 From 10mm to 20mm 30 Nos. From 32mm to 50mm- 5 Nos.

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

DIA		PRICE EACH RS.		DIA		PRICE EACH RS.		DIA		PRICE EACH RS.		DIA		PRICE EACH RS.	
MM	INCH	M2	M42	MM	INCH	M2	M42	MM	INCH	M2	M42	MM	INCH	M2	M42
3	1/8	760	1,215	15	.	1,431	2,293	27	.	3,128	5,001	40	-	7,465	11,941
4	5/32	760	1,215	16	5/8	1,440	2,304	28	1.1/8	3,651	5,840	41	1.5/8	7,465	11,941
5	3/16	760	1,215	17	-	1,576	2,523	29	-	3,651	5,840	42	-	8,491	13,587
6	1/4	851	1,360	18	-	1,747	2,798	30	-	4,015	6,428	43	-	8,491	13,587
7	-	961	1,538	19	3/4	1,747	2,798	32	1.1/4	4,379	7,008	45	1.3/4	9,513	15,217
8	5/16	961	1,538	20	13/16	1,935	3,095	33	-	4,850	7,759	46	-	9,513	15,217
9	3/8	961	1,538	21	-	2,177	3,489	34	1.3/8	5,289	8,460	47	1.7/8	10,491	16,784
10	-	961	1,538	22	7/8	2,195	3,511	35	-	5,289	8,460	48	-	10,491	16,784
11	7/16	961	1,538	23	-	2,384	3,814	36	-	5,766	9,227	49	-	10,491	16,784
12	1/2	993	1,589	24	-	2,384	3,814	37	-	6,212	9,934	50	-	11,509	18,411
13	-	1,131	1,805	25	1.0	2,559	4,090	38	-	6,624	10,595	-	-	-	-
14	9/16	1,231	1,975	26	-	2,659	4,253	39	-	7,022	11,235	-	-	-	-

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

DIA		PRICE EACH RS.		DIA		PRICE EACH RS.		DIA		PRICE EACH RS.		DIA		PRICE EACH RS.	
MM	INCH	M2	M42	MM	INCH	M2	M42	MM	INCH	M2	M42	MM	INCH	M2	M42
3	1/8	926	1,483	14	9/16	1,440	2,304	26	-	3,903	6,247	43	-	8,981	14,371
4	5/32	926	1,483	15	-	1,623	2,600	30	-	4,794	7,669	44	-	8,981	14,371
5	3/16	926	1,483	16	5/8	1,621	2,594	32	1.1/4	4,794	7,669	45	1.3/4	8,981	14,371
6	1/4	993	1,592	18	-	1,994	3,186	34	1.3/8	5,766	9,227	46	-	9,971	15,953
7	-	993	1,592	20	3/4	1,994	3,186	35	-	5,766	9,227	47	1.7/8	9,971	15,953
8	5/16	993	1,592	21	13/16	2,327	3,722	36	-	6,189	9,903	48	-	9,971	15,953
9	3/8	993	1,592	22	7/8	2,327	3,722	38	1.1/2	6,677	10,681	49	-	10,936	17,499
10	-	1,027	1,641	23	-	2,764	4,424	40	-	7,139	11,423	50	2.0	10,936	17,499
11	-	1,027	1,641	24	-	2,764	4,424	41	-	8,080	12,927	-	-	-	-
12	1/2	1,126	1,801	25	1.0	2,764	4,424	42	-	8,080	12,927	-	-	-	-

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

DIA	PRICE EACH RS.		DIA	PRICE EACH RS.		DIA	PRICE EACH RS.		DIA	PRICE EACH RS.	
MM	M2	M42	MM	M2	M42	MM	M2	M42	MM	M2	M42
3	987	1,580	9	1,251	1,998	20	2,517	4,026	32	5,693	9,108
4	987	1,580	10	1,251	1,998	22	2,855	4,566	33	6,306	10,088
5	987	1,580	12	1,290	2,065	25	3,326	5,322	36	7,496	11,994
6	1,108	1,771	14	1,604	2,564	26	3,456	5,529	40	9,704	15,522
7	1,251	1,998	16	1,872	2,993	28	4,747	7,594	45	12,364	19,785
8	1,251	1,998	18	2,271	3,634	30	5,223	8,356	50	14,961	23,937

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

SIZE		PRICE RS. / PIECE	
MM	INCH	STANDARD SERIES	LONG SERIES
6	1/4	2,748	3,735
8	5/16	2,748	3,735
10	3/8	2,748	3,735
12	1/2	2,748	3,735
14	-	4,178	5,683
16	5/8	4,861	6,621
18	-	5,925	7,390
20	3/4	6,614	9,004
22	7/8	7,094	9,662
25	1	8,363	11,402
28	1.1/8	11,278	15,365
30	-	13,541	18,454

REFERENCE STANDARDS

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

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

HSS REAMERS

SIZE		PRICE RS./PIECE	SIZE		PRICE RS./PIECE
MM	INCH	HAND REAMER LONG FLUTED MACHINE MM INCH REAMER CHUCKING REAMER	MM	INCH	HAND REAMER LONG FLUTED MACHINE MM INCH REAMER CHUCKING REAMER
4.00	-	1,314	24.00	-	7,000
(4.76)	3/16	1,314	25.00	-	7,020
4.50	-	1,314	(25.40)	1	7,152
5.00	-	1,314	26.00	-	8,668
(5.56)	7/32	1,314	(26.99)	1.1/16	9,927
6.00	-	1,530	27.00	-	9,927
(6.35)	1/4	1,530	28.00	-	9,927
7.00	-	1,530	(28.57)	1.1/8	9,927
(7.14)	9/32	1,530	29.00	-	10,525
(7.94)	5/16	1,743	30.00	-	11,353
8.00	-	1,743	(30.16)	1.3/16	11,353
(8.73)	11/32	1,830	31.00	-	12,535
9.00	-	1,830	(31.75)	1.1/4	12,535
9.52	3/8	1,989	32.00	-	12,535
10.00	-	2,205	33.00	-	14,244
(10.32)	13/32	2,205	(33.34)	1.5/16	14,244
11.00	-	2,470	34.00	-	15,989
(11.11)	7/16	2,470	(34.92)	1.3/8	17,491
(11.91)	15/32	2,575	35.00	-	17,491
12.00	-	2,575	36.00	-	17,491
(12.70)	1/2	2,662	(36.51)	1.7/16	17,637
13.00	-	3,247	37.00	-	19,211
(13.49)	17/32	3,247	38.00	-	19,211
14.00	-	3,247	(38.10)	1.1/2	19,211
(14.29)	9/16	3,247	39.00	-	21,242
15.00	-	3,266	(39.69)	1.9/16	23,193
(15.08)	19/32	3,266	40.00	-	23,193
(15.87)	5/8	3,266	41.00	-	23,417
16.00	-	3,266	(41.27)	1.5/8	23,417
(16.67)	21/32	3,771	42.00	-	27,579
17.00	-	3,771	(42.86)	1.11/16	27,579
(17.46)	11/16	3,771	43.00	-	27,579
18.00	-	4,035	44.00	-	27,579
(18.26)	23/32	4,282	(44.45)	1.3/4	27,579
19.00	-	4,282	45.00	-	32,311
(19.05)	3/4	4,282	46.00	-	32,311
20.00	-	4,787	47.00	-	34,901
(20.64)	13/16	4,880	(47.62)	1.7/8	37,484
21.00	-	5,404	48.00	-	37,484
22.00	-	5,404	49.00	-	37,484
(22.22)	7/8	5,404	(49.21)	1.15/16	37,484
23.00	-	6,322	50.00	-	37,484
(23.81)	15/16	7,000	(50.80)	2	37,484

### HSS & TCT ANNULAR CUTTER

SIZE	HSS M2 - PRICE RS. / PIECE		HSS M42	TCT
	DIA. MM	LENGTH 25 MM	LENGTH 50 MM	LENGTH 50 MM
12-13	-	-	-	4,341
14-15	-	-	-	4,341
16-17	2,134	2,682	3,485	4,341
18-19	2,225	2,784	3,620	4,341
20-21	2,339	2,897	3,768	4,341
22-23	2,784	3,297	4,286	4,478
24-25	2,887	3,491	4,539	4,478
26-27	3,058	3,686	4,790	5,056
28-29	3,297	4,015	5,220	5,056
30-31	3,457	4,217	5,484	5,056
32-33	3,616	4,506	5,859	6,003
34-35	3,810	4,804	6,243	6,003
36-37	4,323	5,442	7,074	6,828
38-39	4,631	5,772	7,505	6,828
40-41	5,077	6,321	8,215	6,828
42-43	5,488	6,834	8,883	8,338
44-45	6,023	7,507	9,759	8,338
46-47	6,480	8,066	10,484	8,998
48-49	6,834	8,521	11,079	8,998
50-51	7,302	9,616	12,501	9,437
52	7,781	9,880	12,844	10,109
53	8,020	10,199	13,259	10,536
54	8,271	10,541	13,703	10,742
55	8,472	10,826	14,074	11,004
56	8,772	11,156	14,504	11,483
57	9,092	11,425	14,853	11,841
58	9,321	11,739	15,260	11,991
59	9,606	12,001	15,602	12,198
60	9,897	12,344	16,046	12,451

### EJECTOR PIN

SIZE	TYPE	PRICE RS./PIECE
6.34 X 73	CL 25	324
6.34 X 98	CL 50	437

Minimum order quantity for Ejector 100 nos

HSS TAPS

CODE	SIZE	HAND & SHORT MACHINE TAPS									LONG SHANK MACHINE TAPS			NUT TAPS
		IS 6175 PART 1		IS 6175 PART 2			IS 6175 PART 3				IS 6175 PART 4			IS 6175 PART 5
		WTC_M	WTCPM	WHC_M	WHCPM	WHCTM	WUC_M	WUCPM	WUCTM	WMC_M	WMCPM	WMCTM	WVCNM	
		STRAIGHT FLUTE	SPIRAL POINT	STRAIGHT FLUTE	SPIRAL POINT	SPIRAL FLUTE	STRAIGHT FLUTE	SPIRAL POINT	SPIRAL FLUTE	TYPE A.C.D.	TYPE B	SPIRAL	NUT TAP	
		PRICE EACH RS.												
010253A	M1.0 x 0.25	1,164	-	-	-	-	-	-	-	-	-	-	-	
110253A	M1.1 x 0.25	1,164	-	-	-	-	-	-	-	-	-	-	-	
120253A	M1.2 x 0.25	1,164	-	-	-	-	-	-	-	-	-	-	-	
140303A	M1.4 x 0.30	989	-	-	-	-	-	-	-	-	-	-	-	
160353A	M1.6 x 0.35	989	-	-	-	-	-	-	-	-	-	-	-	
180353A	M1.8 x 0.35	989	-	-	-	-	-	-	-	-	-	-	-	
020403A	M2.0 x 0.40	711	830	-	-	-	-	-	-	-	-	-	-	
220453A	M2.2 x 0.45	711	830	-	-	-	-	-	-	-	-	-	-	
230453A	M2.3 x 0.40	711	830	-	-	-	-	-	-	-	-	-	-	
250453A	M2.5 x 0.45	711	-	-	-	-	-	-	-	-	-	-	-	
260453A	M2.6 x 0.45	711	830	-	-	-	-	-	-	-	-	-	-	
030503A	M3.0 x 0.50	-	-	428	536	584	-	-	-	942	1,111	781	-	
350603A	M3.5 x 0.60	-	-	428	536	584	-	-	-	942	1,111	781	-	
040703A	M4.0 x 0.70	-	-	428	536	584	-	-	-	942	1,111	781	-	
450753A	M4.5 x 0.75	-	-	457	566	613	-	-	-	692	824	830	-	
050803A	M5.0 x 0.80	-	-	457	566	613	-	-	-	673	824	830	-	
061003A	M6.0 x 1.00	-	-	457	566	624	-	-	-	721	879	907	942	
081253A	M8.0 x 1.25	-	-	550	655	691	-	-	-	785	958	-	1,066	
101503A	M10 x 1.50	-	-	662	818	869	-	-	-	1,006	1,204	-	1,416	
121753A	M12 x 1.75	-	-	-	-	-	1,039	1,254	1,382	1,428	1,691	-	2,176	
142003A	M14 x 2.00	-	-	-	-	-	1,516	1,833	2,099	2,076	2,457	-	3,013	
162003A	M16 x 2.00	-	-	-	-	-	1,516	1,833	2,099	2,076	2,457	2,699	3,013	
182503A	M18 x 2.50	-	-	-	-	-	2,293	2,751	3,056	3,046	3,590	3,871	4,603	
202503A	M20 x 2.50	-	-	-	-	-	2,929	3,509	4,076	3,751	4,412	4,612	6,160	
222503A	M22 x 2.50	-	-	-	-	-	3,137	3,761	4,224	4,194	4,944	-	6,240	
243003A	M24 x 3.00	-	-	-	-	-	3,493	4,198	4,589	4,547	5,364	5,826	7,083	
253003A	M25 x 3.00	-	-	-	-	-	4,267	5,554	-	5,703	-	-	8,472	
273003A	M27 x 3.00	-	-	-	-	-	5,298	6,356	6,849	6,548	-	-	10,879	
303503A	M30 x 3.50	-	-	-	-	-	5,925	7,116	7,655	7,526	-	-	13,709	
333503A	M33 x 3.50	-	-	-	-	-	7,221	9,349	10,314	8,837	-	-	15,119	
364003A	M36 x 4.00	-	-	-	-	-	10,050	12,060	13,002	12,515	-	-	19,576	
394003A	M39 x 4.00	-	-	-	-	-	11,810	14,155	-	13,906	-	-	23,325	
424503A	M42 x 4.50	-	-	-	-	-	13,758	16,503	-	17,938	-	-	27,784	
454503A	M45 x 4.50	-	-	-	-	-	18,529	22,234	-	21,277	-	-	33,510	
485003A	M48 x 5.00	-	-	-	-	-	19,761	23,712	-	23,956	-	-	38,985	
525003A	M52 x 5.00	-	-	-	-	-	24,806	29,761	-	27,722	-	-	-	
565503A	M56 x 5.50	-	-	-	-	-	35,302	42,356	-	38,816	-	-	-	
605503A	M60 x 5.50	-	-	-	-	-	37,208	44,643	-	42,097	-	-	-	
646003A	M64 x 6.00	-	-	-	-	-	39,137	46,967	-	47,513	-	-	-	
686003A	M68 x 6.00	-	-	-	-	-	-	58,585	-	66,200	-	-	-	
726003A	M72 x 6.00	-	-	-	-	-	65,529	-	-	-	-	-	-	
766003A	M76 x 6.00	-	-	-	-	-	80,142	-	-	-	-	-	-	
806003A	M80 x 6.00	-	-	-	-	-	96,804	-	-	-	-	-	-	
856003A	M85 x 6.00	-	-	-	-	-	1,19,551	-	-	-	-	-	-	
906003A	M90 x 6.00	-	-	-	-	-	1,49,210	-	-	-	-	-	-	
956003A	M95 x 6.00	-	-	-	-	-	1,87,863	-	-	-	-	-	-	
100603A	M100 x 6.00	-	-	-	-	-	2,32,141	-	-	-	-	-	-	

HSS Ground Thread Hand Taps- Coarse Pitch

HSS Ground Thread Machine Taps- Coarse Pitch

HSS Ground Thread Nut Taps- Coarse Pitch

IS 6175- Part 1, 2 & 3- 1992

IS 6175- Part 4- 1991

IS 6175- Part 5- 1992

- The tap sizes up to M6 will be supplied with male centers an both sides Above M6 taps will be supplied with female centers on both sides.
- Please contact local sales team for prices of serial Taps, M35 & M42 Taps, Left Hand Taps

HSS TAPS

CODE	SIZE	HAND & SHORT MACHINE TAPS							LONG SHANK MACHINE TAPS		NUT TAPS
		IS 6175 PART 1	IS 6175 PART 2			IS 6175 PART 3			IS 6175 PART 4		IS 6175 PART 5
		WTF_M	WHF_M	WHFPM	WHFTM	WUF_M	WUFPM	WUFTM	WMF_M	WMF_M	WVFM
		STRAIGHT FLUTE	STRAIGHT FLUTE	SPIRAL POINT	SPIRAL FLUTE	STRAIGHT FLUTE	SPIRAL POINT	SPIRAL FLUTE	TYPE A.C.D.	TYPE B	NUT TAP
		PRICE EACH RS.									
010023A	M1.0 x 0.20	1,222	-	-	-	-	-	-	-	-	-
110203A	M1.1 x 0.20	1,222	-	-	-	-	-	-	-	-	-
140203A	M1.4 x 0.20	1,110	-	-	-	-	-	-	-	-	-
160203A	M1.6 x 0.20	1,110	-	-	-	-	-	-	-	-	-
180203A	M1.8 x 0.20	1,110	-	-	-	-	-	-	-	-	-
020253A	M2.0 x 0.25	939	-	-	-	-	-	-	-	-	-
222503A	M2.2 x 0.25	939	-	-	-	-	-	-	-	-	-
250303A	M2.5 x 0.30	939	-	-	-	-	-	-	-	-	-
260303A	M2.6 x 0.30	939	-	-	-	-	-	-	-	-	-
030353A	M3.0 x 0.35	-	615	765	828	638	730	815	813	1,034	-
350353A	M3.5 x 0.35	-	615	765	828	638	730	815	866	963	-
040503A	M4.0 x 0.50	-	638	765	775	638	730	815	813	924	-
450503A	M4.5 x 0.50	-	595	736	799	647	749	815	1,284	1,436	-
050503A	M5.0 x 0.50	-	625	745	828	651	749	815	822	963	-
060753A	M6.0 x 0.75	-	625	745	792	651	786	815	822	963	1,110
070753A	M7.0 x 0.75	-	719	-	965	743	896	928	942	1,110	1,362
080753A	M8.0 x 0.75	-	719	-	965	743	896	928	942	1,110	1,240
081003A	M8.0 x 1.00	-	651	781	842	719	811	928	869	1,030	1,240
091003A	M9.0 x 1.00	-	806	1,027	1001	799	922	1,048	1,116	1,315	1,240
101003A	M10 x 1.00	-	732	898	-	-	922	1,048	1,086	1,211	1,627
101253A	M10 x 1.25	-	732	898	-	799	922	1,048	1,086	1,225	1,627
121003A	M12 x 1.00	-	-	-	-	1,222	1,383	1,631	1,565	1,840	2,547
121253A	M12 x 1.25	-	-	-	-	1,222	1,383	1,564	1,565	1,840	2,547
121503A	M12 x 1.50	-	-	-	-	1,222	1,383	-	1,565	1,840	2,547
141003A	M14 x 1.00	-	-	-	-	1,571	1,883	2,239	2,019	2,391	3,799
141253A	M14 x 1.25	-	-	-	-	1,604	1,934	2,192	2,060	2,432	3,799
141503A	M14 x 1.50	-	-	-	-	1,522	1,869	2,089	1,936	2,287	3,799
161003A	M16 x 1.00	-	-	-	-	1,568	1,931	2,192	2,175	2,570	3,799
161503A	M16 x 1.50	-	-	-	-	1,523	1,869	2,089	1,936	2,457	3,799
181003A	M18 x 1.00	-	-	-	-	2,863	3,199	3,409	3,553	4,191	5,377
181503A	M18 x 1.50	-	-	-	-	2,612	2,921	3,409	3,259	4,146	5,377
182003A	M18 x 2.00	-	-	-	-	2,863	3,199	3,409	3,553	4,191	5,377
201503A	M20 x 1.50	-	-	-	-	3,304	3,688	-	4,254	5,024	6,899
202003A	M20 x 2.00	-	-	-	-	3,289	4,254	4,352	4,686	5,946	6,899
221503A	M22 x 1.50	-	-	-	-	-	4,021	4,676	4,414	5,214	7,325
222003A	M22 x 2.00	-	-	-	-	3,877	4,665	4,676	4,758	6,030	7,325
241503A	M24 x 1.50	-	-	-	-	3,944	4,400	5,176	4,927	5,815	8,705
242003A	M24 x 2.00	-	-	-	-	3,937	5,070	5,176	5,192	6,587	8,705
251503A	M25 x 1.50	-	-	-	-	4,221	5,394	-	6,282	7,442	9,787
252003A	M25 x 2.00	-	-	-	-	4,179	5,394	-	6,282	7,442	-
261503A	M26 x 1.50	-	-	-	-	4,400	5,513	-	6,458	7,622	-
262003A	M26 x 2.00	-	-	-	-	4,400	5,513	-	6,458	7,622	-
271503A	M27 x 1.50	-	-	-	-	5,878	7,092	-	7,744	9,418	-
272003A	M27 x 2.00	-	-	-	-	5,878	7,092	-	7,744	9,418	-
281503A	M28 x 1.50	-	-	-	-	5,898	7,376	-	8,346	11,463	-
282003A	M28 x 2.00	-	-	-	-	5,898	7,376	-	8,346	11,463	-
301503A	M30 x 1.50	-	-	-	-	6,617	7,954	-	8,708	11,292	-
302003A	M30 x 2.00	-	-	-	-	6,617	7,963	-	8,708	11,292	-
303003A	M30 x 3.00	-	-	-	-	6,630	7,963	-	8,708	11,292	-
321503A	M32 x 1.50	-	-	-	-	7,048	8,729	-	9,617	12,442	-
322003A	M32 x 2.00	-	-	-	-	7,048	8,729	-	9,617	12,442	-

HSS Ground Thread Hand Taps- Fine Pitch  
HSS Ground Thread Machine Taps- Fine Pitch  
HSS Ground Thread Nut Taps- Fine Pitch

IS 6175- Part 1, 2 & 3- 1992  
IS 6175- Part 4- 1991  
IS 6175- Part 5- 1992



HSS TAPS

CODE	SIZE	HAND & SHORT MACHINE TAPS							LONG SHANK MACHINE TAPS		NUT TAPS
		IS 6175 PART 1	IS 6175 PART 2			IS 6175 PART 3			IS 6175 PART 4		IS 6175 PART 5
		WTF_M	WHF_M	WHFPM	WHFTM	WUF_M	WUFPM	WUFTM	WMF_M	WMF_M	WVFNM
		STRAIGHT FLUTE	STRAIGHT FLUTE	SPIRAL POINT	STRAIGHT FLUTE	STRAIGHT FLUTE	SPIRAL POINT	STRAIGHT FLUTE	TYPE A.C.D.	TYPE B	NUT TAP
		PRICE EACH RS.									
331503A	M33 x 1.50	-	-	-	-	8,088	10,116	-	10,529	13,128	-
332003A	M33 x 2.00	-	-	-	-	8,088	10,116	-	10,529	13,128	-
333003A	M33 x 3.00	-	-	-	-	8,088	10,116	-	10,529	13,128	-
351503A	M35 x 1.50	-	-	-	-	11,239	13,991	-	14,501	18,271	-
361503A	M36 x 1.50	-	-	-	-	11,235	13,991	-	14,501	18,271	-
362003A	M36 x 2.00	-	-	-	-	11,235	13,991	-	14,501	18,271	-
363003A	M36 x 3.00	-	-	-	-	11,220	13,991	-	14,501	18,271	-
391503A	M39 x 1.50	-	-	-	-	14,000	-	-	-	-	-
392003A	M39 x 2.00	-	-	-	-	14,000	-	-	-	-	-
393003A	M39 x 3.00	-	-	-	-	14,000	-	-	-	-	-
421503A	M42 x 1.50	-	-	-	-	15,561	-	-	-	-	-
422003A	M42 x 2.00	-	-	-	-	15,561	-	-	-	-	-
423003A	M42 x 3.00	-	-	-	-	15,561	-	-	-	-	-
424003A	M42 x 4.00	-	-	-	-	15,561	-	-	-	-	-
451503A	M45 x 1.50	-	-	-	-	21,571	-	-	-	-	-
452003A	M45 x 2.00	-	-	-	-	21,571	-	-	-	-	-
453003A	M45 x 3.00	-	-	-	-	21,571	-	-	-	-	-
454003A	M45 x 4.00	-	-	-	-	21,571	-	-	-	-	-
481503A	M48 x 1.50	-	-	-	-	20,957	-	-	-	-	-
482003A	M48 x 2.00	-	-	-	-	20,957	-	-	-	-	-
483003A	M48 x 3.00	-	-	-	-	20,957	-	-	-	-	-
484003A	M48 x 4.00	-	-	-	-	20,957	-	-	-	-	-
501503A	M50 x 1.50	-	-	-	-	24,778	-	-	-	-	-
502003A	M50 x 2.00	-	-	-	-	24,778	-	-	-	-	-
503003A	M50 x 3.00	-	-	-	-	24,778	-	-	-	-	-
521503A	M52 x 1.50	-	-	-	-	27,928	-	-	-	-	-
522003A	M52 x 2.00	-	-	-	-	27,928	-	-	-	-	-
523003A	M52 x 3.00	-	-	-	-	27,928	-	-	-	-	-
524003A	M52 x 4.00	-	-	-	-	27,928	-	-	-	-	-
561503A	M56 x 1.50	-	-	-	-	36,439	-	-	-	-	-
562003A	M56 x 2.00	-	-	-	-	36,439	-	-	-	-	-
563003A	M56 x 3.00	-	-	-	-	36,439	-	-	-	-	-
564003A	M56 x 4.00	-	-	-	-	36,439	-	-	-	-	-
601503A	M60 x 1.50	-	-	-	-	40,656	-	-	-	-	-
602003A	M60 x 2.00	-	-	-	-	40,656	-	-	-	-	-
603003A	M60 x 3.00	-	-	-	-	41,574	-	-	-	-	-
604003A	M60 x 4.00	-	-	-	-	41,574	-	-	-	-	-
641503A	M64 x 1.50	-	-	-	-	43,316	-	-	-	-	-
642003A	M64 x 2.00	-	-	-	-	43,316	-	-	-	-	-
643003A	M64 x 3.00	-	-	-	-	44,096	-	-	-	-	-
644003A	M64 x 4.00	-	-	-	-	44,096	-	-	-	-	-
681503A	M68 x 1.50	-	-	-	-	54,849	-	-	-	-	-
682003A	M68 x 2.00	-	-	-	-	54,849	-	-	-	-	-
683003A	M68 x 3.00	-	-	-	-	40,835	-	-	-	-	-
684003A	M68 x 4.00	-	-	-	-	55,550	-	-	-	-	-
724003A	M72 x 4.00	-	-	-	-	61,156	-	-	-	-	-

- The tap sizes up to M6 will be supplied with male centers on both sides Above M6 taps will be supplied with female centers on both sides.
- Please contact local sales team for Minimum order quantity for all fine pitch taps and for prices of Serial Taps, M35 & M42 Taps, Left Hand Taps

**HSS HAND TAPS - BSW & BSF BS949 (PART 1) - 1992**

PART CODE		SIZE	STRAIGHT FLUTE	SPIRAL POINT	SPIRAL FLUTE	NUT TAPS
BSW (WTK_)	BSF (WTL_)					
		PRICE EACH RS.				
I018406A	-	1/8"	446	536	631	-
I316246A	I316326A	3/16"	446	560	603	-
I014206A	I014266A	1/4"	467	560	665	976
I516186A	I516226A	5/16"	523	657	698	1,064
I038166A	I038206A	3/8"	638	786	859	1,292
I716146A	I716186A	7/16"	822	1,018	1,137	1,742
I012126A	I012166A	1/2"	1,045	1,254	1,379	2,168
I916126A	I916166A	9/16"	1,522	1,833	2,121	3,013
I058116A	I058146A	5/8"	1,522	1,833	2,121	3,013
1116116A	1116146A	11/16"	2,223	2,742	2,994	3,874
I034106A	I034126A	3/4"	2,311	2,782	3,078	4,612
I078096A	I078116A	7/8"	3,194	3,826	4,224	6,236
I100086A	I100106A	1"	4,003	4,809	5,080	8,127
I118076A	I118096A	1.1/8"	5,377	6,452	-	10,944
I114076A	I114096A	1.1/4"	6,483	7,780	-	16,277
I138066A	I138086A	1.3/8"	8,362	10,034	-	19,526
I112066A	I112086A	1.1/2"	10,050	12,051	-	-

**HSS HAND TAPS - UNC & UNF BS949 (PART 1) - 1992**

PART CODE		SIZE	STRAIGHT FLUTE	SPIRAL POINT	SPIRAL FLUTE	NUT TAPS
UNC (WTG_)	UNF (WTJ_)					
		PRICE EACH RS.				
-	N000806A	No.0	1,045	-	-	-
N001646A	N001726A	No.1	1,045	-	-	-
N002566A	N002646A	No.2	736	-	-	-
N004406A	N004486A	No.4	501	-	-	-
N005406A	N005446A	No.5	501	604	603	-
N006326A	N006406A	No.6	501	604	603	-
N008326A	N008366A	No.8	501	604	603	-
N010246A	N010326A	No.10	501	604	603	-
N012246A	N012286A	No.12	618	736	647	-
I018286A	I018406A	1/8"	446	536	631	-
I316246A	I316326A	3/16"	446	560	603	-
I014206A	I014286A	1/4"	463	569	665	974
I516186A	I516246A	5/16"	524	657	699	1,064
I038166A	I038246A	3/8"	638	786	-	1,292
I716146A	I716206A	7/16"	822	1,018	1,137	1,739
I012136A	I012206A	1/2"	1,045	1,254	1,379	2,171
I916126A	I916186A	9/16"	1,522	1,833	2,122	3,013
I058116A	I058186A	5/8"	1,522	1,833	2,122	3,013
1116116A	1116116A	11/16"	2,223	2,741	2,996	3,872
I034106A	I034166A	3/4"	2,311	2,782	3,078	4,611
I078096A	I078146A	7/8"	3,194	3,826	4,224	6,236
I100086A	I100126A	1"	4,003	4,809	5,080	8,127
I118076A	I118126A	1.1/8"	5,377	6,449	-	10,944
I114076A	I114126A	1.1/4"	6,481	7,776	-	16,276
I138066A	I138126A	1.3/8"	8,362	10,035	-	19,526
I112066A	1.12126A	1.1/2"	10,050	12,049	-	-

- The tap sizes up to M6 will be supplied with male centers an both sides above M6 taps will be supplied with female centers on both sides.
- Please contact local sales team for Minimum order quantity of above Taps & for prices of Serial Taps, M35 & M42 Taps, Left Hand Taps

**HSS HAND TAPS - BSCY BS949 (PART 2) - 1951**

PART CODE	SIZE	STRAIGHT FLUTE	CODE	SIZE	STRAIGHT FLUTE
		PRICE EACH RS.			
N11SWG6A	14 Swg	811	I516306A	5/16"	692
N10SWG6A	10 Swg	430	I716266A	7/16"	1,044
N09SWG6A	9 Swg	430	I012266A	1/2"	1,305
I532326A	5/32"	504	I916206A	9/16"	2,070
I316326A	3/16"	504	I100246A	1"	4,104
I732266A	7/32"	540	0167096A	1.370"	8,644
I014266A	1/4"	569	0137596A	1.375"	8,644

• The manufacturing range of BSCy taps is Swg upwards.

**HSS HAND TAPS - BA BS949 (PART 1) - 1992**

PART CODE	SIZE	STRAIGHT FLUTE	SPIRAL POINT	PART CODE	SIZE	STRAIGHT FLUTE	SPIRAL POINT
PRICE EACH RS.							
NOBA106A	No.0	551	660	N8BA436A	No.8	902	869
N1BA906A	No.1	551	660	10BA356A	No.10	1,077	1,252
N2BA816A	No.2	487	596	11BA316A	No.11	1,670	2,006
N3BA736A	No.3	487	596	12BA286A	No.12	1,670	2,006
N4BA666A	No.4	487	596	13BA256A	No.13	1,752	-
N5BA596A	No.5	487	596	14BA236A	No.14	1,752	-
N6BA536A	No.6	536	596	-	-	-	-

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

**HSS PIPE TAPS BS949 (PART 2) - 1969**

PART CODE	SIZE	PARALLEL THREAD		TAPER THREAD			
		WHP_	WHU_	WHR_	WHS_	WHT_	
		BSP	NPS	NPSF	BSPT	NPT	NPTF
PRICE EACH RS.							
I018286A	1/8"	689	813	979	1,005	1,030	1,080
I014196A	1/4"	1,073	1,410	1,720	1,752	1,802	2,031
I038196A	3/8"	1,613	1,808	2,182	2,251	2,289	2,648
I012146A	1/2"	2,354	2,630	3,161	3,370	3,443	3,871
I058146A	5/8"	2,670	-	-	-	-	-
I034146A	3/4"	3,517	3,871	4,624	4,996	5,100	5,709
I078146A	7/8"	4,465	-	-	-	-	-
I100116A	1"	5,547	6,537	7,822	7,768	7,964	8,895
I114116A	1.1/4"	8,555	10,105	12,125	11,118	11,372	13,111
I112116A	1.1/2"	10,695	12,603	15,116	13,600	14,109	-
I134116A	1.3/4"	13,376	15,719	18,855	-	-	-
I200116A	2"	19,520	22,525	27,029	24,903	25,500	-
I214116A	2.1/4"	33,298	-	-	-	-	-
I212116A	2.1/2"	47,509	-	-	72,623	72,623	-
I234116A	2.3/4"	53,413	-	-	-	-	-
I300116A	3"	60,201	-	-	94,516	94,516	-
I312116A	3.1/2"	79,117	-	-	126,196	126,196	-
I400116A	4"	99,566	-	-	159,224	159,224	-

• Minimum order value required is Rs.20,000/- net.

**HSS NIB TAPS TO OUR STANDARD (CODE : XNC\_)**

CODE	SIZE	STRAIGHT FLUTE		CODE	SIZE	STRAIGHT FLUTE	
		M35	GV 3			M35	GV 3
PRICE EACH RS.				PRICE EACH RS.			
M030503D	M3 x 0.5	775	933	M081253D	M8 x 1.25	1,008	1,226
M040703D	M4 x 0.7	791	958	M101503D	M10 x 1.5	1,276	1,508
M050803D	M5 x 0.8	839	990	M121753D	M12 x 1.75	1,499	1,718
M061003D	M6 x 1.0	932	990	-	-	-	-

- The above taps will be supplied with TiCN / TiAlN Coating
- The tap sizes upto M6" will be supplied with malecenters on both sides, above M6 taps will be supplied with female centers on both sides
- The tap sizes upto M6" will be supplied with 3 flutes, above M6" will be supplied with 5 flute. Any other style of Nib taps can be offered on specific request.
- Minimum order value required is Rs.20,000/- net.
- The manufacturing range of Nib taps is M3 upwards, for the sizes above M12, quotation will be given on Specific request.

**UN TAPS BS949 (PART 1) - 1992**

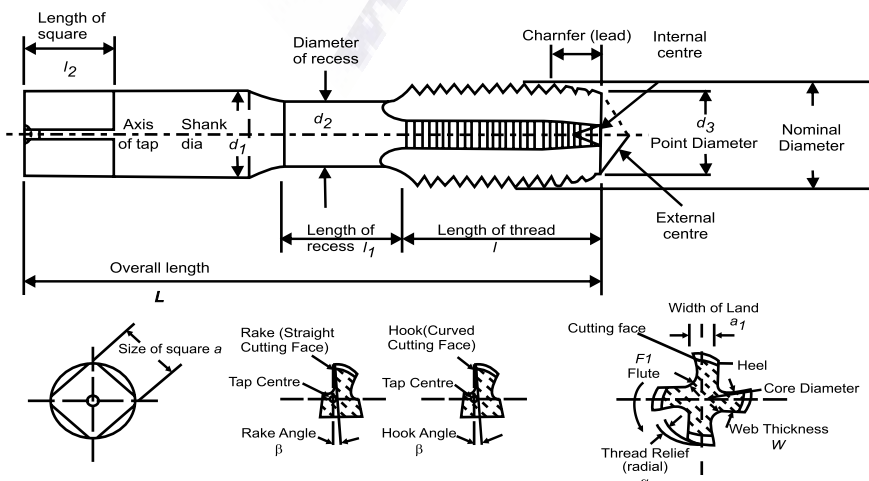
PART CODE	SIZE	PRICE EACH RS.	PART CODE	SIZE	PRICE EACH RS.
I118086A	1.1/8" x 8	5,377	I134086A	1.3/4" x 8	13,750
I114086A	1.1/4" x 8	6,481	I178086A	1.7/8" x 8	16,619
I138086A	1.3/8" x 8	8,362	I200086A	2" x 8	21,672
I112086A	1.1/2" x 8	10,050	I214086A	2.1/4" x 8	29,854
I158086A	1.5/8" x 8	11,751	I212086A	2.1/2" x 8	37,946

**HSS GROUND THREAD HAND TAPS-COARSE PITCH - HELICOIL IS 6175:1992**

PART CODE	SIZE	PRICE EACH RS.	PART CODE	SIZE	PRICE EACH RS.
M030503A	M3 x 0.50	428	M142003A	M14 x 2.00	2,293
M040704A	M4 x 0.70	454	M162003A	-	-
M050805A	M5 x 0.80	545	M182503A	M18 x 2.50	2,929
M061006A	M6 x 1.00	545	M202503A	M20 x 2.50	3,137
M081253A	M8 x 1.25	662	M222503A	M22 x 2.50	3,493
M101503A	M10 x 1.50	1,039	M243003A	M24 x 3.00	5,298
M121753A	M12 x 1.75	1,516	M273003A	M27 x 3.00	5,925
-	-	-	M303503A	M30 x 3.50	6,926

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

**TAP TERMINOLOGY**







# HIGH PERFORMANCE PLATINUM CUT TAPS



MIRANDA EDGE - PLATINUMCUT TAPS

SIZE	SPPT			SPIREX			BOT		
	UNCOATED	TIN	TIALN	UNCOATED	TIN	TIALN	UNCOATED	TIN	TIALN
	MA1	MA2	MA3	MB1	MB2	MB3	MC1	MC2	MC3
M3 x 0.5	753	866	905	865	992	1,036	627	721	754
M4 x 0.7	753	866	905	865	992	1,036	627	721	754
M5 x 0.8	788	907	948	905	1,039	1,085	660	759	792
M6 x 1.0	788	907	948	905	1,039	1,085	660	759	792
M8 x 1.0	-	-	-	1,124	1,292	1,348	-	-	-
M8 x 1.25	886	1,017	1,063	1,014	1,164	1,215	740	849	887
M10 x 1.0	1,272	1,463	1,527	1,457	1,676	1,748	-	-	-
M10 x 1.25	1,272	1,463	1,527	1,457	1,676	1,748	1,062	1,222	1,276
M10 x 1.5	1,094	1,258	1,314	1,254	1,443	1,506	914	1,052	1,098
M12 x 1.0	1,969	2,262	2,363	2,253	2,593	2,704	-	-	-
M12 x 1.25	1,969	2,262	2,363	2,253	2,593	2,704	1,639	1,883	1,966
M12 x 1.50	1,969	2,262	2,363	2,253	2,593	2,704	1,639	1,883	1,966
M12 x 1.75	1,689	1,941	2,025	1,933	2,224	2,320	1,408	1,618	1,690
M14 x 2.0	2,027	2,329	2,430	2,320	2,669	2,784	-	-	-
M16 x 2.0	2,331	2,679	2,795	2,668	3,069	3,202	-	-	-
M18 x 2.5	2,930	3,295	3,521	3,300	3,870	4,090	-	-	-
M20 x 2.5	3,083	3,570	3,750	3,681	4,220	4,500	-	-	-

HIGH PERFORMANCE PLATINUM CUT TAPS

TYPE	PICTURE	RANGE	SERIES	THREAD FORM	BLANK STANDARD	TREATMENT	MATERIAL	TAPPING TYPE	APPLICATION
Straight Flute		M3-M12	MC 1	M	IS -6175/ISO 529	Bright	HSS-E	Blind/Through	Medium to high tensile steel, Alloy steel, MS, general application
			MC 2	M	IS -6175/ISO 529	TiN			
			MC 3	M	IS -6175/ISO 529	TiAlN			
Straight Flute for cast Iron		M3-M12	CI MC 1	M	IS -6175/ISO 529	Bright	HSS-E	Blind/Through	Cast iron , SG iron, abrasive type steel
			CI MC 2	M	IS -6175/ISO 529	TiN			
			CI MC 3	M	IS -6175/ISO 529	TiAlN			
Spiral Point		M3-M20	MA 1	M	IS -6175/ISO 529	Bright	HSS-E	Through holes	Medium to high tensile steel, Alloy steel, MS, general application
			MA 2	M	IS -6175/ISO 529	TiN			
			MA 3	M	IS -6175/ISO 529	TiAlN			
Spiral Flute		M3-M20	MB 1	M	IS -6175/ISO 529	Bright	HSS-E	Blind Holes	Medium to high tensile steel, Alloy steel, MS, general application
			MB 2	M	IS -6175/ISO 529	TiN			
			MB 3	M	IS -6175/ISO 529	TiAlN			

RECOMMENDED PARAMETER

MATERIAL	RC VALUE	HB VALUE	RECOMMENDED MTR / MIN	
			HSS-E	
			UNCOATED	COATED
Structural steels, free-cutting steels Case hardened steels, heat-treatable steels	<20	<236	9-15	12-20
	<25	<256	9-13	11-18
	<30	<286	6-9	9-16
	<35	<326	5-8	6-10
	<38	<386	4-8	6-12
Stainless- and acid-resistant steels, sulphured austenitic martensitic	-	<186	8-13	12-16
	<25	<256	6-9	9-12
	<36	<286	6-9	7-12
	<35	<326	3-6	6-9
Alloyed case hardened steels Alloyed heat-treatable steels Alloyed tool steels High speed tool steels	<25	<256	3-6	9-12
	<36	<286	8-10	9-15
	<35	<326	5-8	6-9
	<38	<386	3-5	4-9
Cast iron Spheroidal graphite iron Malleable cast iron	-	<186	15-20	18-25
	<25	<256	9-12	14-18
	<35	<326	5-10	6-12
Brass	-	-	9-13	-
	-	-	9-15	-

**TUNGSTEN CARBIDE TIPPED TOOLS**

	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS./ PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
ISO 1 (110) - BAR TURNING TOOLS	1010	90	1004RC	1001RC	1004LC	1001LC	416
	1212	100	1014RC	1011RC	1014LC	1011LC	452
	1616	110	1034RC	1031RC	1034LC	1031LC	610
	2020	125	1054RC	1051RC	1054LC	1051LC	973
	2525	140	1074RC	1071RC	1074LC	1071LC	1,460
	3232	170	1094RC	1091RC	1094LC	1091LC	2,382
	4040	200	1114RC	1111RC	1114LC	1111LC	4,907
	5050	240	1134RC	1131RC	1134LC	1131LC	10,037
	1610	110	1024RC	1021RC	1024LC	1021LC	487
	2012	125	1044RC	1041RC	1044LC	1041LC	672
	2516	140	1064RC	1061RC	1064LC	1061LC	902
	3220	170	1084RC	1081RC	1084LC	1081LC	1,538
	4025	200	1104RC	1101RC	1104LC	1101LC	2,473
	5032	240	1124RC	1121RC	1124LC	1121LC	5,638
	6040	280	1144RC	1141RC	1144LC	1141LC	10,256
	ISO 2 (111) - CRANKED TURNING & FACING TOOLS	1010	90	1204RC	1201RC	1204LC	1201LC
1212		100	1214RC	1211RC	1214LC	1211LC	497
1616		110	1234RC	1231RC	1234LC	1231LC	688
2020		125	1254RC	1251RC	1254LC	1251LC	953
2525		140	1274RC	1271RC	1274LC	1271LC	1,432
3232		170	1294RC	1291RC	1294LC	1291LC	2,465
4040		200	1314RC	1311RC	1314LC	1311LC	4,800
5050		240	1334RC	1331RC	1334LC	1331LC	10,185
1610		110	1224RC	1221RC	1224LC	1221LC	536
2012		125	1244RC	1241RC	1244LC	1241LC	725
2516		140	1264RC	1261RC	1264LC	1261LC	973
3220		170	1284RC	1281RC	1284LC	1281LC	1,548
4025		200	1304RC	1301RC	1304LC	1301LC	2,771
5032		240	1324RC	1321RC	1324LC	1321LC	5,751
6040		280	1344RC	1341RC	1344LC	1341LC	10,441
ISO 3 (123) - CRANKED FINISHING TOOLS		1010	90	2204RC	2201RC	2204LC	2201LC
	1212	100	2214RC	2211RC	2214LC	2211LC	497
	1616	110	2234RC	2231RC	2234LC	2231LC	688
	2020	125	2254RC	2251RC	2254LC	2251LC	953
	2525	140	2274RC	2271RC	2274LC	2271LC	1,432
	3232	170	2294RC	2291RC	2294LC	2291LC	2,465
	4040	200	2314RC	2311RC	2314LC	2311LC	4,800
	5050	240	2334RC	2331RC	2334LC	2331LC	10,185
	1610	110	2224RC	2221RC	2224LC	2221LC	536
	2012	125	2244RC	2241RC	2244LC	2241LC	725

**TUNGSTEN CARBIDE TIPPED TOOLS**

	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS./ PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
			<b>ISO 3 ( 123 ) - CRANKED FINISHING TOOLS</b>				
2516	140	2264RC	2261RC	2264LC	2261LC	974	
3220	170	2284RC	2281RC	2284LC	2281LC	1,548	
4025	200	2304RC	2301RC	2304LC	2301LC	2,771	
5032	240	2324RC	2321RC	2324LC	2321LC	5,751	
6040	280	2344RC	2341RC	2344LC	2341LC	10,441	
<b>NEUTRAL (NH)</b>							
1010	90	2604SC	2601SC	-	-	452	
1212	100	2614SC	2611SC	-	-	557	
1616	110	2634SC	2631SC	-	-	828	
2020	125	2654SC	2651SC	-	-	1,244	
2525	140	2674SC	2671SC	-	-	2,029	
3232	170	2694SC	2691SC	-	-	4,004	
4040	200	2714SC	2711SC	-	-	9,897	
5050	240	2076SC	2731SC	-	-	17,771	
1610	110	2624SC	2621SC	-	-	610	
2012	125	2644SC	2641SC	-	-	652	
2516	140	2664SC	2661SC	-	-	960	
3220	170	2684SC	2681SC	-	-	1,851	
4025	200	2704SC	2701SC	-	-	3,216	
5032	240	2724SC	2721SC	-	-	6,114	
<b>RIGHT HAND ( RH )</b>							
<b>LEFT HAND ( LH )</b>							
1010	90	2404RC	2401RC	2404LC	2401LC	452	
1212	100	2414RC	2411RC	2414LC	2411LC	497	
1616	110	2434RC	2430RC	2434LC	2431LC	688	
2020	125	2454RC	2451RC	2454LC	2451LC	953	
2525	140	2474RC	2471RC	2474LC	2471LC	1,432	
3232	170	2494RC	2491RC	2494LC	2491LC	2,466	
4040	200	2426RC	2511RC	2426LC	2511LC	4,800	
5050	240	2428RC	2531RC	2428LC	2531LC	10,185	
1610	110	2424RC	2421RC	2424LC	2421LC	536	
2012	125	2444RC	2441RC	2444LC	2441LC	726	
2516	140	2464RC	2461RC	2464LC	2461LC	974	
3220	170	2484RC	2481RC	2484LC	2481LC	1,548	
4025	200	2504RC	2501RC	2504LC	2501LC	2,774	
5032	240	2524RC	2521RC	2524LC	2521LC	5,751	
<b>ISO 5 ( 126 ) - CRANKED FACING TOOLS</b>							
1010	90	2004RC	2001RC	2004LC	2001LC	452	
1212	100	2014RC	2011RC	2014LC	2011LC	497	
1616	110	2034RC	2031RC	2034LC	2031LC	688	
2020	125	2054RC	2051RC	2054LC	2051LC	953	
2525	140	2074RC	2071RC	2074LC	2071LC	1,432	
3232	170	2094RC	2091RC	2094LC	2091LC	2,466	
4040	200	2114RC	2111RC	2114LC	2111LC	4,800	
<b>ISO 6 ( 117 ) - CRANKED KNIFE TOOLS</b>							



**TUNGSTEN CARBIDE TIPPED TOOLS**

	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS./ PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
ISO 6 (117) - CRANKED KNIFE TOOLS	5050	240	2134RC	2131RC	2134LC	2131LC	10,185
	1610	110	2024RC	2021RC	2024LC	2021LC	536
	2012	125	2044RC	2041RC	2044LC	2041LC	726
	2516	140	2064RC	2061RC	2064LC	2061LC	974
	3220	170	2084RC	2081RC	2084LC	2081LC	1,832
	4025	200	2104RC	2101RC	2104LC	2101LC	2,782
	5032	240	2124RC	2121RC	2132LC	2121LC	5,759
ISO 7 (150) - PARTING OFF TOOLS	1010	90	5103RC	5201RC	5204LC	5201LC	541
	1212	100	5214RC	5211RC	5214LC	5211LC	615
	1616	110	5314RC	5231RC	5314LC	5231LC	683
	2020	125	5254RC	5180RC	5254LC	5180LC	754
	2525	140	5071RC	5061RC	5071LC	5061LC	1,010
	3232	170	5274RC	5271RC	5274LC	5271LC	1,604
	1006	90	5104RC	5101RC	5104LC	5101LC	452
	1208	100	5114RC	5111RC	5114LC	5111LC	536
	1610	110	5124RC	5121RC	5124LC	5121LC	569
	2012	125	5134RC	5131RC	5134LC	5131LC	631
	2516	140	5144RC	5141RC	5144LC	5141LC	836
	3220	170	5154RC	5151RC	5154LC	5151LC	1,342
	4025	200	5164RC	5161RC	5164LC	5161LC	2,218
	5032	240	5166RC	5301RC	5304LC	5301LC	3,137
ISO 8 (130) - BORING TOOLS (SQUARE)	0808	125	2804RC	2801RC	2804LC	2801LC	833
	1010	150	2814RC	2811RC	2814LC	2811LC	893
	1212	180	2827RC	2823RC	2827LC	2823LC	974
	1616	210	2834RC	2831RC	2834LC	2831LC	1,170
	2020	250	2844RC	2841RC	2844LC	2841LC	1,432
	2525	300	2854RC	2851RC	2854LC	2851LC	2,676
	3232	355	2864RC	2861RC	2864LC	2861LC	3,479
	4040	400	2874RC	2871RC	2874LC	2871LC	5,052
	5050	450	2878RC	2877RC	2878LC	2877LC	9,278
ISO 8 (131) - BORING TOOLS (ROUND)	Ø08	125	2904RC	2901RC	2904LC	2901LC	773
	Ø10	150	2914RC	2911RC	2914LC	2911LC	833
	Ø12	180	2924RC	2921RC	2924LC	2921LC	893
	Ø16	210	2934RC	2931RC	2934LC	2931LC	1,026
	Ø20	250	2944RC	2941RC	2944LC	2941LC	1,253
	Ø25	300	2954RC	2951RC	2954LC	2951LC	2,382
	Ø32	355	2964RC	2961RC	2964LC	2961LC	3,033

**TUNGSTEN CARBIDE TIPPED TOOLS**

	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS./ PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
			<b>ISO 9 (135) - BORING TOOLS ( SQUARE )</b>				
0808	125	3004RC	3001RC	3004LC	3001LC	833	
1010	150	3014RC	3011RC	3014LC	3011LC	893	
1212	180	3024RC	3021RC	3024LC	3021LC	974	
1616	210	3034RC	3031RC	3034LC	3031LC	1,170	
2020	250	3044RC	3041RC	3044LC	3041LC	1,432	
2525	300	3054RC	3051RC	3054LC	3051LC	2,676	
3232	355	3064RC	3061RC	3064LC	3061LC	3,479	
4040	400	3068RC	3062RC	3068LC	3062LC	5,052	
<b>ISO 9 (136) - BORING TOOLS ( ROUND )</b>							
0008	125	3104RC	3101RC	3104LC	3101LC	773	
0010	150	3114RC	3111RC	3114LC	3111LC	833	
0012	180	3124RC	3121RC	3124LC	3121LC	893	
0016	210	3134RC	3131RC	3134LC	3131LC	1,026	
0020	250	3144RC	3141RC	3144LC	3141LC	1,253	
0025	300	3154RC	3151RC	3154LC	3151LC	2,382	
0032	355	3164RC	3161RC	3164LC	3161LC	3,033	
<b>113 - STRAIGHT ROUND NOSE TURNING TOOL</b>							
1010	90	1404SC	-	1401SC	-	452	
1212	100	1414SC	-	1411SC	-	497	
1616	110	1434SC	-	1431SC	-	699	
2020	125	1454SC	-	1451SC	-	1,084	
2525	140	1474SC	-	1471SC	-	1,564	
3232	170	1494SC	-	1491SC	-	2,906	
4040	200	1614SC	-	1506SC	-	5,389	
1610	110	1424SC	-	1421SC	-	541	
2012	125	1444SC	-	1441SC	-	662	
2516	140	1464SC	-	1461SC	-	906	
3220	170	1484SC	-	1481SC	-	1,259	
4025	200	1504SC	-	1501SC	-	2,528	
5032	240	0057AC	-	0057SC	-	4,743	
<b>115 - CRANKED ROUND NOSE TURNING TOOLS.</b>							
1010	90	1604RC	1601RC	1604LC	1601LC	497	
1212	100	1614RC	1611RC	1614LC	1611LC	530	
1616	110	1634RC	1631RC	1634LC	1631LC	726	
2020	125	1654RC	1651RC	1654LC	1651LC	1,084	
2525	140	1674RC	1671RC	1674LC	1671LC	1,564	
3232	170	1694RC	1691RC	1694LC	1691LC	3,033	
4040	200	1714RC	1711RC	1714LC	1711LC	5,620	
1610	110	1624RC	1621RC	1624LC	1621LC	596	
2012	125	1644RC	1641RC	1644LC	1641LC	699	
2516	140	1664RC	1661RC	1664LC	1661LC	953	
3220	170	1684RC	1681RC	1684LC	1681LC	1,325	
4025	200	1704RC	1701RC	1704LC	1701LC	2,641	

**TUNGSTEN CARBIDE TIPPED TOOLS**

	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS./ PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
			<b>116 - BAR TURNING TOOLS</b>				
	1010	90	1804RC	1801RC	1804LC	1801LC	409
	1212	100	1814RC	1811RC	1814LC	1811LC	452
	1616	110	1834RC	1831RC	1834LC	1831LC	604
	2020	125	1854RC	1851RC	1854LC	1851LC	893
	2525	140	1874RC	1871RC	1874LC	1871LC	1,382
	3232	170	1894RC	1891RC	1894LC	1891LC	2,388
	4040	200	1914RC	1911RC	1914LC	1911LC	4,717
	5050	240	1934RC	1931RC	1934LC	1931LC	10,031
	1610	110	1824RC	1821RC	1824LC	1821LC	485
	2012	125	1844RC	1841RC	1844LC	1841LC	785
	2516	140	1864RC	1861RC	1864LC	1861LC	1,120
	3220	170	1884RC	1881RC	1884LC	1881LC	1,537
	4025	200	1904RC	1901RC	1904LC	1901LC	2,466
<b>122 - POINTED TURNING TOOLS</b>							
NEUTRAL (NH)							
	1010	90	0805SC	0801SC	-	-	452
	1212	100	0815SC	0811SC	-	-	553
	1616	110	0835SC	0831SC	-	-	610
	2020	125	0855SC	0851SC	-	-	836
	2525	140	0875SC	0871SC	-	-	1,189
	3232	170	0895SC	0891SC	-	-	2,950
	4040	200	0902SC	0903SC	-	-	5,414
	5050	240	0925SC	0926SC	-	-	5,904
	1610	110	0825SC	0821SC	-	-	604
	2012	125	0845SC	0841SC	-	-	640
	2516	140	0865SC	0861SC	-	-	836
	3220	170	0885SC	0881SC	-	-	1,244
	4025	200	0905SC	0901SC	-	-	2,080
	5032	240	0906SC	0907SC	-	-	4,364
<b>140 (60°) - BORING TOOLS ( SQUARE )</b>							
	0808	24	3604RC	3601RC	3604LC	3601LC	521
	1010 & 3/8"	50	3614RC	3611RC	3614LC	3611LC	521
	1212 & 1/2"	60	3624RC	3621RC	3624LC	3621LC	597
	1616 & 5/8"	90	3634RC	3631RC	3634LC	3631LC	836
	2020 & 3/4"	120	3644RC	3641RC	3644LC	3641LC	1,327
	2525 & 1"	175	3654RC	3651RC	3654LC	3651LC	1,749
<b>140 (60°) - BORING TOOLS ( ROUND )</b>							
	0008	24	3504RC	3501RC	3504LC	3501LC	452
	0010 & 3/8"	50	3514RC	3511RC	3514LC	3511LC	452
	0012 & 1/2"	60	3524RC	3521RC	3524LC	3521LC	530
	0016 & 5/8"	90	3534RC	3531RC	3534LC	3531LC	688
	0020 & 3/4"	120	3544RC	3541RC	3544LC	3541LC	1,232
	0025 & 1"	175	3554RC	3551RC	3554LC	3551LC	1,598

**TUNGSTEN CARBIDE TIPPED TOOLS**

	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS./ PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
			<b>141 ( 90° ) - BORING TOOLS ( SQUARE ),</b>				
0808	24	4104RC	4101RC	4104LC	4101LC	521	
1010 & 3/8"	50	4114RC	4111RC	4114LC	4111LC	521	
1212 & 1/2"	60	4124RC	4121RC	4124LC	4121LC	597	
1616 & 5/8"	90	4134RC	4131RC	4134LC	4131LC	836	
2020 & 3/4"	120	4144RC	4141RC	4144LC	4141LC	1,327	
2525 & 1"	175	4154RC	4151RC	4154LC	4151LC	1,749	
<b>141 ( 90° ) - BORING TOOLS ( ROUND )</b>							
Ø08	24	4004RC	4001RC	4004LC	4001LC	452	
0010 & 3/8"	50	4014RC	4011RC	4014LC	4011LC	452	
0012 & 1/2"	60	4024RC	4021RC	4024LC	4021LC	530	
0016 & 5/8"	90	4034RC	4031RC	4034LC	4031LC	688	
0020 & 3/4"	120	4044RC	4041RC	4044LC	4041LC	1,232	
0025 & 1"	175	4054RC	4051RC	4054LC	4051LC	1,598	
<b>142 ( 45° ) - BORING TOOLS ( SQUARE )</b>							
0808	24	4604RC	4601RC	4604LC	4601LC	521	
1010 & 3/8"	50	4614RC	4611RC	4614LC	4611LC	521	
1212 & 1/2"	60	4624RC	4621RC	4624LC	4621LC	597	
1616 & 5/8"	90	4634RC	4631RC	4634LC	4631LC	836	
2020 & 3/4"	120	4644RC	4641RC	4644LC	4641LC	1,327	
2525 & 1"	175	4654RC	4651RC	4654LC	4651LC	1,749	
<b>142 ( 45° ) - BORING TOOLS ( ROUND )</b>							
Ø08	24	4504RC	4501RC	4504LC	4501LC	452	
0010 & 3/8"	50	4514RC	4511RC	4514LC	4511LC	452	
0012 & 1/2"	60	4524RC	4521RC	4524LC	4521LC	530	
0016 & 5/8"	90	4534RC	4531RC	4534LC	4531LC	688	
0020 & 3/4"	120	4544RC	4541RC	4544LC	4541LC	1,232	
0025 & 1"	175	4554RC	4551RC	4554LC	4551LC	1,598	
<b>156 - CRANKED INTERNAL RECESSING TOOLS</b>							
1010	90	5404RC	5401RC	5404LC	5401LC	855	
1212	100	5414RC	5411RC	5414LC	5411LC	974	
1616	110	5424RC	5421RC	5424LC	5421LC	1,091	
2020	125	5434RC	5431RC	5434LC	5431LC	1,410	
2525	140	5444RC	5441RC	5444LC	5441LC	1,931	
3232	170	5454RC	5451RC	5454LC	5451LC	2,747	
4040	315	5464RC	5461RC	5464LC	5461LC	4,557	
<b>NEUTRAL (NH)</b>							
<b>163 - STRAIGHT TURNING &amp; GROOVING TOOLS</b>							
1010	90	5704SC	-	5701SC	-	553	
1212	100	5714SC	-	5711SC	-	631	
1616	110	5734SC	-	5731SC	-	953	
2020	125	5754SC	-	5751SC	-	1,389	
2525	140	5774SC	-	5771SC	-	2,320	
3232	170	5794SC	-	5791SC	-	5,053	
4040	200	5798SC	-	5762SC	-	9,701	
1610	110	5724SC	-	5721SC	-	541	
2012	125	5744SC	-	5741SC	-	690	
2516	140	5764SC	-	5761SC	-	1,045	
3220	170	5784SC	-	5781SC	-	1,712	

	165 - STRAIGHT THREADING TOOLS ( 60°)						
	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH)		LEFT HAND (LH)		PRICE RS./ PIECE
			ORDER CODE - MIR100				
			P30	K20	P30	K20	
165 - STRAIGHT THREADING TOOLS ( 60°)	1010	90	6002RC	6001RC	6002LC	6001LC	597
	1212	100	6012RC	6011RC	6012LC	6011LC	632
	1616	110	6044RC	6031RC	6044LC	6031LC	823
	2020	125	6054RC	6051RC	6054LC	6051LC	1,120
	2525	140	6074RC	6071RC	6074LC	6071LC	1,665
	3232	170	6094RC	6091RC	6094LC	6091LC	2,204
166 - INTERNAL THREADING TOOLS ( 60°)	1010	90	6204RC	6201RC	6204LC	6201LC	987
	1212	100	6214RC	6211RC	6214LC	6211LC	1,116
	1616	110	6224RC	6221RC	6224LC	6221LC	1,211
	2020	125	6234RC	6231RC	6234LC	6231LC	1,485
	2525	140	6256RC	6241RC	6256LC	6241LC	1,944
	3232	170	6254RC	6251RC	6254LC	6251LC	2,933
IND-2- EXTERNAL THREADING TOOLS	1010	90	0905RC	0901RC	0905LC	0901LC	701
	1212	100	0915RC	0911RC	0915LC	0911LC	828
	1616	110	0935RC	0931RC	0935LC	0931LC	880
	2020	125	0955RC	9101RC	0955LC	9101LC	977
	2525	140	0975RC	0971RC	0975LC	0971LC	1,633
THREADING TOOLS WITH "V" PROFILE	166 - 11	140	6264RC	6261RC	-	-	902
	166 - 12	160	6274RC	6271RC	-	-	1,101
	166 - 13	180	6284RC	0114RC	-	-	1,537
	166 - 14	200	6294RC	6292RC	-	-	2,144

**MATERIAL TO BE MACHINED**

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

TUNGSTEN CARBIDE ROTARY BURRS

SHAPE	MIRANDA CODE	DESCRIPTION HEAD DIA X HEAD LENGTH X OAL LENGTH X SHANK DIA	PRICE RS./PIECE			
			ORDER CODE	STANDARD PRICE	ORDER CODE	TIN COATED
			MIRTCRBFU		MIRTCRBFU	
 <p>CONICAL</p>	MAM1	3MM X 11MM X 38MM X 3SHK	1011AS	558	1011AS	615
	MAM2	6MM X 11MM X 38MM X 3SHK	1012BS	731	1012BS	806
	AM1	6MM X 19MM X 60MM X 6SHK	1010AS	867	1010AS	953
	AM2	10MM X 20MM X 70MM X 6SHK	1020BS	867	1020BS	953
	AM3	12MM X 25MM X 75MM X 6SHK	1030CS	1191	1030CS	1,309
	AM4	10MM X 12MM X 60MM X 6SHK	1040DS	903	1040DS	991
	AM5	16MM X 13MM X 63MM X 6SHK	1050ES	1300	1050ES	1,464
	AM6	16MM X 16MM X 66MM X 6SHK	1060FS	1300	1060FS	1,464
 <p>CYLINDRICAL RADIUS END</p>	MBM1	3MM X 16MM X 38MM X 3SHK	2011AS	558	2011AS	615
	MBM2	6MM X 13MM X 38MM X 3SHK	2012BS	731	2012BS	806
	BM1	6MM X 20MM X 50MM X 6SHK	2010AS	877	2010AS	962
	BM2	8MM X 20MM X 70MM X 6SHK	2020BS	847	2020BS	933
	BM3	10MM X 20MM X 70MM X 6SHK	2030CS	1058	2030CS	1,164
	BM4	12MM X 20MM X 70MM X 6SHK	2040DS	1365	2040DS	1,530
	BM5	16MM X 25MM X 75MM X 6SHK	2050ES	2088	2050ES	2,337
	BM6	12MM X 25MM X 75MM X 6SHK	2060FS	1895	2060FS	2,126
 <p>CYLINDRICAL</p>	MCM1	3MM X 16MM X 38MM X 3SHK	3011AS	558	3011AS	615
	MCM2	6MM X 6MM X 38MM X 3SHK	3012BS	627	3012BS	692
	MCM3	6MM X 13MM X 38MM X 3SHK	3013CS	731	3013CS	806
	CM1	4MM X 15MM X 50MM X 6SHK	3010AS	731	3010AS	806
	CM2	6MM X 20MM X 60MM X 6SHK	3020BS	839	3020BS	924
	CM3	8MM X 20MM X 70MM X 6SHK	3030CS	953	3030CS	1,048
	CM4	10MM X 20MM X 70MM X 6SHK	3040DS	1048	3040DS	1,154
	CM5	12MM X 20MM X 70MM X 6SHK	3050ES	1318	3050ES	1,473
	CM6	16MM X 25MM X 75MM X 6SHK	3060FS	2113	3060FS	2,364
	CM7	12MM X 16MM X 65MM X 6SHK	3070GS	1287	3070GS	1,441
	CM8	12MM X 25MM X 75MM X 6SHK	3080HS	2088	3080HS	2,337
	 <p>FLAME</p>	FM1	6MM X 15MM X 50MM X 6SHK	4010AS	839	4010AS
FM2		8MM X 20MM X 70MM X 6SHK	4020BS	867	4020BS	953
FM3		10MM X 25MM X 65MM X 6SHK	4030CS	1711	4030CS	1,914
FM4		12MM X 32MM X 82MM X 6SHK	4040DS	2055	4040DS	2,320
 <p>CONE RADIUS</p>	MKM1	3MM X 8MM X 38MM X 3SHK	5011AS	558	5011AS	615
	MKM2	6MM X 12MM X 38MM X 3SHK	5012BS	731	5012BS	806
	KM1	10MM X 20MM X 65MM X 6SHK	5010AS	820	5010AS	903
	KM2	12MM X 20MM X 70MM X 6SHK	5020BS	1365	5020BS	1,530
	KM3	16MM X 33MM X 75MM X 6SHK	5030CS	1885	5030CS	2,106

TUNGSTEN CARBIDE ROTARY BURRS

SHAPE	MIRANDA CODE	DESCRIPTION	PRICE RS./PIECE			
			ORDER CODE	STANDARD PRICE	ORDER CODE	TIN COATED
		HEAD DIA X HEAD LENGTH X OAL LENGTH X SHANK DIA	MIRTCRBFU		MIRTCRBFC	
 <p>OVAL</p>	MOM1	3MM X 8MM X 38MM X 3SHK	MOM1S0308	558	MOM1S0308	615
	MOM2	6MM X 10MM X 38MM X 3SHK	MOM2S0610	731	MOM2S0610	806
	OM1	8MM X 14MM X 60MM X 6SHK	OM10S0814	933	OM10S0814	1,030
	OM2	12MM X 20MM X 70MM X 6SHK	OM20S1220	1,365	OM20S1220	1,530
	OM3	16MM X 25MM X 75MM X 6SHK	OM30S1625	2,106	OM30S1625	2,356
	OM4	6MM X 10MM X 60MM X 6SHK	OM40S0610	933	OM40S0610	1,030
 <p>RIM</p>	RM1	10MM X 2MM X 50MM X 6SHK	RM10S1002	820	RM10S1002	903
	RM2	20MM X 6MM X 60MM X 6SHK	RM20S2006	1,538	RM20S2006	1,693
	RM3	12MM X 10MM X 60MM X 6SHK	RM30S1210	1,365	RM30S1210	1,502
 <p>BALL</p>	MSM1	4MM X 3MM X 38MM X 3SHK	MSM1S0403	647	MSM1S0403	711
	MSM2	5MM X 4MM X 38MM X 3SHK	MSM2S0504	675	MSM2S0504	743
	SM1	6MM X 5MM X 50MM X 6SHK	SM10S0605	806	SM10S0605	885
	SM2	8MM X 7MM X 50MM X 6SHK	SM20S0807	848	SM20S0807	933
	SM3	10MM X 9MM X 60MM X 6SHK	SM30S1009	848	SM30S1009	933
	SM4	12MM X 11MM X 60MM X 6SHK	SM40S1211	1,065	SM40S1211	1,170
	SM5	16MM X 14MM X 65MM X 6SHK	SM50S1614	1,441	SM50S1614	1,617
 <p>TREE POINTED END</p>	MTM1	3MM X 13MM X 38MM X 3SHK	MTM1S0313	558	MTM1S0313	615
	MTM2	3MM X 16MM X 38MM X 3SHK	MTM2S0316	558	MTM2S0316	615
	MTM3	6MM X 13MM X 38MM X 3SHK	MTM3S0613	731	MTM3S0613	806
	TM1	6MM X 20MM X 70MM X 6SHK	TM10S0620	885	TM10S0620	971
	TM2	10MM X 20MM X 70MM X 6SHK	TM20S1020	1,058	TM20S1020	1,164
	TM3	12MM X 25MM X 75MM X 6SHK	TM30S1225	1,268	TM30S1225	1,397
	TM4	16MM X 30MM X 80MM X 8SHK	TM40S1630	1,885	TM40S1630	2,106
 <p>TREE RADIUS END</p>	TBM1	6MM X 20MM X 70MM X 6SHK	TBM1S0620	885	TBM1S0620	971
	TBM2	10MM X 20MM X 70MM X 6SHK	TBM2S1020	1,058	TBM2S1020	1,164
	TBM3	12MM X 25MM X 75MM X 6SHK	TBM3S1225	1,337	TBM3S1225	1,502
<p>INVERTED CONE</p>	MIM1	3MM X 8MM X 38MM X 3SHK	MIM1S0308	558	MIM1S0308	615
	MIM2	6MM X 8MM X 38MM X 3SHK	MIM2S0608	627	MIM2S0608	692
SET OF 5 PIECES		AM3,BM4,CM5,TM3,SM4		6,095		6,752

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