

MIRANDA PRODUCTS Price List

Effective from 01.03.2025



**Certainty
at every turnTM**

TERMS & CONDITIONS

1. All Govt. taxes and levies are extra.
2. Delivery F.O.R destination
3. This price list is effective from 01.03.2025 and supersedes our previous Price list, prices are subject to revision without any notice.
4. For unlisted intermediate sizes, please contact the respective sales team.
5. We also manufacture special products as per your requirements.
6. Please contact our team for prices of customised products as per your requirements.

NEW PACKAGING FEATURES



CERTIFICATE OF REGISTRATION

This is to certify that the management system of:

Dormer Pramet India Private Limited

included as part of certificate for Dormer Pramet

Address: Plot No. 903 & 904, GIDC, Ankleshwar – 393002,
Dist. Bharuch, Gujarat, India

has been registered by Intertek as conforming to the requirements of

ISO 9001:2015

The management system is applicable to:

Development, manufacturing, marketing and sales of cutting tools.

Certificate Number:

0085130/J

Initial Certification Date:

31 January 2010

Valid Until:

17 January 2027



Angelique Björklund

MD, Business Assurance Nordics

Intertek Certification AB

P.O. Box 1103, SE-164 22 Kista, Sweden



In the issuance of this certificate, Intertek assumes no liability to any party other than to the Client, and then only in accordance with the agreed upon Certification Agreement. This certificate's validity is subject to the organization maintaining their system in accordance with Intertek's requirements for systems certification. Validity may be confirmed via email at certificate.validation@intertek.com or by scanning the code to the right with a smartphone.

The certificate remains the property of Intertek, to whom it must be returned upon request.



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

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

Centre Drills, HSS & HSSE Taper Shank Drills, Long & Extra Long Series

Masonry Drills

HSS Endmills & Reamers

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HSS & HSSE Parallel Shank Endmills & Slotdrills Long Series

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HSS & TCT Annular Cutter

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HSS Nib Taps & UN Taps

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HSSE High Performance Platinum Cut (Edge) Taps

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Long / Extra Long Length 4 Flute Centre Cutting TiAlN Coated Endmills

Straight Shank Solid Carbide Drills (Jobber & Stub Series)

HSS TOOLBITS SQUARE & ROUND

INTRODUCTION

Miranda HSS Square and round toolbits are in blank form to cover many applications with one tool. Our special heat treatment provides higher tool life. Multiple re-grinding allows usage of total tool life. Most suitable for copy turning. Ideal solution for general lathe work & traub machine,



- Squares with 15° Bevel edge
- Round with 0° Bevel edge

Manufacturing Standards

I.S.	11143-1991
DIN	4964
ISO	5421

FEATURES & BENEFITS

- ▶ Excellent performance on critical application
- ▶ Special Surface treatment Improves Wear Resistance
- ▶ Superior Performance
- ▶ Extended re-sharpening frequency
- ▶ Available in Zedd, Zedd+, S100, S200, S400E, S400, S500 Grades for different applications

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HSS SQUARE TOOLBIT BLANKS (INCH)

		GRADES						
INCH	EQUIVALENT MM	ZEDD M2 SQ. PRICE (RS)/NO	S100 M35 SQ. PRICE (RS)/NO	S200 M42 SQ. PRICE (RS)/NO	S400 T42 SQ. PRICE (RS)/NO	S400 E M35 SQ. PRICE (RS)/NO	S500 T42 SQ. PRICE (RS)/NO	PKT. QTY.
3/32 x 2.1/2	2.38 x 63.50	*	*	*	*	*	*	10
3/32 x 3	2.38 x 76.20	179	*	*	799	*	849	10
1/8 x 3	3.18 x 76.20	179	373	525	554	*	577	10
1/8 x 4	3.18 x 101.60	234	673	*	1,015	*	1,055	10
1/8 x 6	3.18 x 152.40	*	*	*	1,598	*	*	*
5/32 x 3	3.97 x 76.20	179	378	539	566	*	578	10
5/32 x 4	3.97 x 101.60	240	*	837	879	*	*	10
3/16 x 3	4.76 x 76.20	153	298	391	410	349	425	10
3/16 x 4	4.76 x 101.60	201	*	571	600	519	629	10
3/16 x 6	4.76 x 152.40	311	794	1,219	1,287	931	1,288	10
1/4 x 3	6.35 x 76.20	174	378	525	554	446	578	10
1/4 x 4	6.35 x 101.60	205	514	698	735	600	765	10
1/4 x 6	6.35 x 152.40	295	840	1,140	1,202	988	1,248	10
1/4 x 8	6.35 x 203.20	419	*	*	2,031	1,634	2,137	10
5/16 x 3	7.94 x 76.20	194	496	674	713	586	759	10
5/16 x 4	7.94 x 101.60	251	682	926	972	803	1,037	10
5/16 x 6	7.94 x 152.40	414	*	1,488	1,565	1,288	1,659	10
5/16 x 8	7.94 x 203.20	526	*	2,102	2,218	1,829	2,365	10
5/16 x 10	7.94 x 254.00	*	*	*	2,772	*	*	*
3/8 x 3	9.53 x 76.20	243	577	799	848	675	900	10
3/8 x 4	9.53 x 101.60	295	771	1,058	1,115	910	1,209	10
3/8 x 6	9.53 x 152.40	458	1,218	1,704	1,790	1,438	1,911	10
3/8 x 8	9.53 x 203.20	621	1,733	2,415	2,546	2,033	2,711	10
3/8 x 10	9.53 x 254.00	800	*	*	3,367	2,699	3,592	10
1/2 x 3	12.70 x 76.20	364	912	1,308	1,374	*	1,432	10
1/2 x 4	12.70 x 101.60	458	1,218	1,705	1,794	1,438	1,919	10
1/2 x 6	12.70 x 152.40	699	1,874	2,671	2,819	2,206	2,946	10
1/2 x 8	12.70 x 203.20	917	2,618	3,729	3,925	3,080	4,108	10
1/2 x 10	12.70 x 254.00	1,397	3,666	*	5,404	*	5,733	10
9/16 x 4	14.29 x 101.60	*	*	*	*	*	2,365	1
9/16 x 6	14.29 x 152.40	*	*	*	3,341	*	3,560	1
9/16 x 8	14.29 x 203.20	*	*	*	*	*	4,948	1
5/8 x 4	15.88 x 101.60	725	*	2,866	3,020	2,366	3,140	1
5/8 x 6	15.88 x 152.40	1,068	3,016	4,200	4,416	3,544	4,705	1
5/8 x 8	15.88 x 203.20	1,443	4,121	*	6,200	4,851	6,440	1
3/4 x 4	19.05 x 101.60	1,002	*	3,937	4,143	*	4,369	1
3/4 x 6	19.05 x 152.40	1,464	4,177	5,776	6,085	4,920	6,547	1
3/4 x 8	19.05 x 203.20	2,003	*	7,916	8,332	6,592	8,776	1
3/4 x 10	19.05 x 254.00	*	*	*	10,384	*	*	*
1 x 4	25.40 x 101.60	*	*	9,493	*	*	7,232	*
1 x 6	25.40 x 152.40	2,465	6,937	9,690	10,205	8,161	10,845	1
1 x 8	25.40 x 203.20	3,351	*	12,919	13,601	10,882	14,460	1

- ZEDD = (HSS with 0% 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)

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* Please contact our team for prices

HSS SQUARE TOOLBIT BLANKS (MM)

NOMINAL SIZE	GRADES						PKT. QTY.
MM	ZEDD M2 SQ. PRICE (RS)/NO	S100 M35 SQ. PRICE (RS)/NO	S200 M42 SQ. PRICE (RS)/NO	S400 T42 SQ. PRICE (RS)/NO	S400 E M35 SQ. PRICE (RS)/NO	S500 T 42 SQ. PRICE (RS)/NO	
3 x 75	*	*	*	554	*	577	10
3 x 100	225	*	968	1,015	*	*	10
4 x 75	*	*	*	566	*	578	10
4 x 100	230	*	*	879	*	*	10
5 x 75	153	*	*	410	*	425	10
5 x 100	201	*	*	600	*	629	10
5 x 150	299	*	1,219	1,287	*	*	10
6 x 75	174	*	525	554	446	578	10
6 x 100	205	514	698	735	*	765	10
6 x 150	295	*	1,140	1,202	*	1,248	10
6 x 200	419	*	*	2,031	*	*	10
7 x 200				2,447	*	2,005	10
8 x 75	194	*	674	713	*	759	10
8 x 100	251	682	*	972	803	1,037	10
8 x 150	414	1,089	*	1,565	*	1,659	10
8 x 200	526	1,551	*	2,218	*	*	10
10 x 75	270	*	*	917	*	*	10
10 x 100	319	840	1,170	1,231	986	1,314	10
10 x 150	494	*	1,834	1,932	*	2,054	10
10 x 200	691	*	*	2,713	*	2,893	10
10 x 250	*	*	*	3,584	*	*	10
12 x 75	364	*	*	1,374	*	*	10
12 x 100	458	1,218	1,705	1,794	1,438	1,919	10
12 x 150	699	1,874	2,671	2,819	2,206	2,946	10
12 x 200	917	*	*	3,925	3,080	4,108	10
12 x 250	1,344	*	*	5,404	*	*	10
14 x 100	543	1,565	*	2,218	*	*	1
14 x 150	*	*	3,176	3,341	*	*	1
14 x 200	*	3,282	*	4,649	*	*	1
16 x 100	725	*	*	3,020	2,366	3,140	1
16 x 150	1,027	3,016	4,200	4,416	3,544	4,705	1
16 x 200	1,443	4,121	*	6,200	4,851	*	1
20 x 100	*	*	4,295	4,522	*	4,760	1
20 x 150	1,594	4,550	6,436	6,778	*	7,141	1
20 x 200	*	6,065	*	9,035	7,148	9,514	1
25 x 100				6,803	*	*	
25 x 150	*	6,937	9,690	10,205	*	*	1
25 x 200	*	*	*	13,601	*	14,460	1

- ZEDD = (HSS with 0% 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)

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HSS ROUND TOOLBIT BLANKS (INCH)

		GRADES						PKT. QTY.
INCH	EQUIVALENT MM	ZEDD M2 RD. PRICE (RS)/NO	S100 M35 RD PRICE (RS)/NO	S200 M42 RD PRICE (RS)/NO	S400 T42 RD PRICE (RS)/NO	S400 E M35 RD PRICE (RS)/NO	S500 T 42 RD PRICE (RS)/NO	
3/32 x 2.1/2	2.38 x 63.50	*	*	*	*	*	*	10
3/32 x 3	2.38 x 76.20	*	*	*	*	*	*	10
1/8 x 3	3.18 x 76.20	*	*	525	554	*	*	10
1/8 x 4	3.18 x 101.60	*	*	*	1,015	*	1,055	10
5/32 x 3	3.97 x 76.20	*	*	*	566	*	*	10
5/32 x 4	3.97 x 101.60	*	*	*	879	*	*	10
3/16 x 3	4.76 x 76.20	*	*	391	410	*	425	10
3/16 x 4	4.76 x 101.60	*	*	571	600	*	629	10
3/16 x 6	4.76 x 152.40	*	*	*	1,287	*	*	10
1/4 x 3	6.35 x 76.20	*	*	525	554	*	578	10
1/4 x 4	6.35 x 101.60	*	*	*	735	*	765	10
1/4 x 6	6.35 x 152.40	*	*	1,140	1,202	*	1,248	10
1/4 x 8	6.35 x 203.20	*	*	*	2,031	*	2,137	10
5/16 x 3	7.94 x 76.20	*	*	674	713	*	*	10
5/16 x 4	7.94 x 101.60	*	*	926	972	*	1,037	10
5/16 x 6	7.94 x 152.40	*	*	*	1,565	*	1,659	10
5/16 x 8	7.94 x 203.20	*	*	*	*	*	*	10
3/8 x 3	9.53 x 76.20	*	*	799	848	*	900	10
3/8 x 4	9.53 x 101.60	*	771	1,058	1,115	*	*	10
3/8 x 6	9.53 x 152.40	*	*	1,704	1,790	*	1,911	10
3/8 x 8	9.53 x 203.20	*	*	*	2,546	*	*	10
3/8 x 10	9.53 x 254.00	*	*	*	*	*	*	10
1/2 x 3	12.70 x 76.20	*	*	*	1,374	1,076	*	10
1/2 x 4	12.70 x 101.60	*	*	1,705	1,794	*	1,919	10
1/2 x 6	12.70 x 152.40	*	*	2,671	2,819	*	2,946	10
1/2 x 8	12.70 x 203.20	*	*	*	3,925	*	*	10
1/2 x 10	12.70 x 254.00	*	*	*	*	*	*	10
9/16 x 4	14.29 x 101.60	*	*	*	*	*	*	1
9/16 x 6	14.29 x 152.40	*	*	*	3,341	*	*	1
9/16 x 8	14.29 x 203.20	*	*	*	*	*	*	1
5/8 x 4	15.88 x 101.60	*	*	2,866	3,020	*	*	1
5/8 x 6	15.88 x 152.40	*	*	4,200	4,416	3,543	4,705	1
5/8 x 8	15.88 x 203.20	*	*	*	6,200	*	*	1
3/4 x 4	19.05 x 101.60	*	*	*	4,143	*	*	1
3/4 x 6	19.05 x 152.40	*	4,177	5,776	6,085	4,920	6,547	1
3/4 x 8	19.05 x 203.20	*	*	*	8,332	6,592	*	1
1 x 4	25.40 x 101.60	*	*	*	*	*	7,445	
1 x 6	25.40 x 152.40	*	*	*	10,205	*	*	1
1 x 8	25.40 x 203.20	*	*	*	13,601	*	*	1

- ZEDD = (HSS with 0% 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)

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HSS ROUND TOOLBIT BLANKS (MM)

NOMINAL SIZE	GRADES						PKT. QTY.
MM	ZEDD M2 SQ. PRICE (RS)/NO	S100 M35 RD PRICE (RS)/NO	S200 M42 RD PRICE (RS)/NO	S400 T42 RD PRICE (RS)/NO	S400 E M35 RD PRICE (RS)/NO	S500 T42 RD PRICE (RS)/NO	
3 x 75	*	373	*	554	*	*	10
3 x 100	*	673	*	1,015	*	*	10
4 x 75	*	378	*	566	*	578	10
4 x 100	270	586	837	879	*	902	10
5 x 75	*	298	*	410	*	425	10
5 x 100	*	439	571	600	*	629	10
5 x 150	*	*	*	1,287	*	*	10
6 x 75	*	378	525	554	*	578	10
6 x 100	*	*	698	735	*	765	10
6 x 150	*	*	1,140	1,202	*	1,248	10
6 x 200	*	*	1,930	2,031	*	*	10
8 x 75	*	*	674	713	*	759	10
8 x 100	274	*	926	972	*	*	10
8 x 150	*	*	1,488	1,565	*	1,659	10
8 x 200	*	*	2,102	2,218	*	*	10
10 x 75	*	*	873	917	*	982	10
10 x 100	345	*	1,170	1,231	*	*	10
10 x 150	*	1,314	1,834	1,932	*	2,054	10
10 x 200	*	*	*	2,713	*	*	10
12 x 75	*	*	1,308	1,374	*	1,432	10
12 x 100	*	*	1,705	1,794	*	1,919	10
12 x 150	*	*	*	2,819	2,206	2,946	10
12 x 200	*	*	3,729	3,925	*	*	10
12 x 250	*	*	*	5,404	*	*	10
14 x 100	*	*	*	2,218	*	2,365	1
14 x 150	*	*	*	3,341	*	3,560	1
14 x 200	*	*	*	4,649	*	*	1
16 x 100	*	*	2,866	3,020	*	3,140	1
16 x 150	*	*	4,200	4,416	*	4,705	1
16 x 200	*	*	*	6,200	*	6,440	1
18 x 150	*	*		6,324	*	6,658	1
20 x 100	*	3,040	*	4,522	*	4,760	1
20 x 150	*	4,550	*	6,778	5,361	7,141	1
20 x 200	*	*	*	9,035	*	*	1
25 x 150	*	*	*	10,205	8,161	*	1

- ZEDD = (HSS with 0% 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)

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HSS TOOLBITS FLAT & PARTING

INTRODUCTION

Miranda parting blades are ready to use for parting off and slotting applications on lathe. Unique design of parting blades helps for faster parting off in wide range of material.



- 0° Bevel edge
- Parting available in MII and T42
- Flats available in MIII and T42

Manufacturing Standards

I.S.	11143-1991
DIN	4964
ISO	5421

FEATURES & BENEFITS

- ▶ Unique design of tool gives best performance in parting operations
- ▶ M35 grade in flats to give ease of grinding with high tool life
- ▶ HSS Cobalt Tool bits increase wear resistance and tool life in Parting off & Slotting

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HSS FLAT (RECTANGULAR) TOOLBIT BLANKS (INCH)

NOMINAL SIZE		GRADES		PKT. QTY.
		MARK III	T42	
INCH	EQUIVALENT MM	PRICE (RS)/NO	PRICE (RS)/NO	
1/8 x 1/2 x 6	3.18 x 12.70 x 152.39	866	1,794	10
1/8 x 3/4 x 6	3.18 x 19.05 x 152.40	1,149	1,794	10
1/8 x 1 x 6	3.18 x 25.40 x 152.40	1,640	2,566	10
3/16 x 3/8 x 8	4.76 x 9.53 x 203.20	*	1,560	10
3/16 x 1/2 x 8	4.76 x 12.70 x 203.20	*	1,630	10
3/16 x 3/4 x 4	4.76 x 19.05 x 101.60	*	1,505	10
3/16 x 1 x 6	4.76 x 25.40 x 152.40	1,803	3,147	10
1/4 x 3/8 x 8	6.35 x 9.53 x 203.20	*	1,991	10
1/4 x 1/2 x 4	6.35 x 12.70 x 101.60	692	1,083	10
1/4 x 1/2 x 6	6.35 x 12.70 x 152.40	1,060	1,666	10
1/4 x 1/2 x 8	6.35 x 12.70 x 203.20	*	2,054	10
1/4 x 5/8 x 6	6.35 x 15.88 x 152.40	1,263	2,048	10
1/4 x 3/4 x 6	6.35 x 19.05 x 152.40	1,499	2,346	10
1/4 x 1 x 6	6.35 x 25.40 x 152.40	1,829	2,861	10
3/8 x 1/2 x 2	9.53 x 12.70 x 50.80	569	*	10
3/8 x 1/2 x 4	9.53 x 12.70 x 101.60	1,042	1,633	10
3/8 x 1/2 x 6	9.53 x 12.70 x 152.40	1,565	2,538	10
3/8 x 1/2 x 8	9.53 x 12.70 x 203.2	*	3,434	10
3/8 x 1/2 x 10	9.53 x 12.70 x 254	*	5,149	10
3/8 x 5/8 x 4	9.53 x 15.88 x 101.60	1,157	1,812	10
3/8 x 5/8 x 6	9.53 x 15.88 x 152.40	1,805	2,819	10
3/8 x 5/8 x 8	9.53 x 15.88 x 203.2	*	4,038	10
3/8 x 3/4 x 6	9.53 x 19.05 x 152.40	2,082	3,246	10
3/8 x 3/4 x 8	9.53 x 19.05 x 203.20	*	4,538	10
3/8 x 7/8 x 6	9.53 x 22.23 x 152.40	*	5,573	10
3/8 x 1 x 6	9.53 x 25.40 x 152.40	3,567	5,573	10
1/2 x 5/8 x 6	12.70 x 15.88 x 152.40	2,226	3,952	1
1/2 x 3/4 x 4	12.70 x 19.05 x 101.60	1,642	*	1
1/2 x 3/4 x 6	12.70 x 19.05 x 152.40	2,464	4,369	1
1/2 x 3/4 x 8	12.70 x 19.05 x 203.20	3,280	*	1
1/2 x 1 x 6	12.70 x 25.40 x 152.40	3,230	5,058	1
5/8 x 3/4 x 6	15.88 x 19.05 x 152.40	3,353	5,730	1
3/4 x 1 x 6	19.05 x 25.40 x 152.40	4,723	9,064	1
3/4" X 1.1/4" X 8"	19.05 x 31.75 x 203.20	*	16,568	1

• Mark III- M35 (HSS with 5% Cobalt) (63-66 HRC), T42 (HSS with 10% Cobalt) (64-67 HRC)

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HSS FLAT (RECTANGULAR) TOOLBIT BLANKS (MM)

NOMINAL SIZE		GRADES		PKT. QTY.
		MARK III	T42	
MM		PRICE (RS)/NO	PRICE (RS)/NO	
3 x 6 x 50		*	408	10
3 x 10 x 150		*	1,561	10
3 x 12.7 x 150		*	2,037	10
3 x 20 x 100		*	1,152	10
3 x 20 x 150		*	1,794	10
3 x 20 x 200		*	2,639	10
3 x 25 x 150		1,641	2,563	10
4 X 12 X 200		*	1,555	10
4 X 20 X 200		*	2,393	10
4 X 25 X 150		*	3,220	10
5 x 25 x 150		1,800	3,147	10
5 X 8 X 125		*	1,533	10
5 X 8 X 150		*	1,993	10
6 x 10 x 200		*	1,991	10
6 x 12 x 100		692	*	10
6 x 12 x 150		1,060	*	10
6 x 16 x 150		1,263	*	10
6 x 20 x 150		1,499	*	10
6 x 25 x 150		1,829	2,861	10
8 X 13 X 200		*	4,132	10
8 X 20 X 200		*	4,579	10
10 x 12 x 100		*	*	10
10 X 16 X 75		*	1,570	10
10 X 16 X 90		*	2,137	10
10 x 16 x 100		*	*	10
10 x 16 x 150		*	2,819	10
10 x 20 x 150		*	3,246	10
10 x 25 x 50			1,249	10
10 x 25 x 150		*	5,573	10
12 x 16 x 150		*	*	1
12 x 20 x 150		2,464	4,369	1
12 x 25 x 150		*	5,058	1
16 x 20 x 150		*	5,730	1
16 x 25 x 150		*	7,365	1
20 x 25 x 150		4,723	*	1
25 X 10 X 60		*	1,721	1
25 X 25 X 16		*	1,151	1
30 X 20 X 300		*	28,726	1
30 X 25 X 175		*	16,720	1

- Mark III- M35 (HSS with 5% Cobalt) (63-66 HRC), T42 (HSS with 10% Cobalt) (64-67 HRC)

HSS PARTING TOOLBITS

NOMINAL SIZE		GRADES			PKT. QTY.
		MARK II	T42	S500	
INCH	EQUIVALENT MM	PRICE (RS)/NO	PRICE (RS)/NO	PRICE (RS)/NO	
3/32 x 1/2 x 4	2.38 x 12.70 x 101.60	907	1,592	*	10
3/32 x 5/8 x 5	2.38 x 15.88 x 127.00	1,137	2,092	*	10
1/8 x 3/4 x 6	3.18 x 19.05 x 152.40	1,449	2,568	2,644	10
1/8 x 7/8 x 6	3.18 x 22.23 x 152.40	1,696	3,136	*	10
3/16 x 1 x 6	4.76 x 25.40 x 152.40	2,109	3,593	3,844	10

- Mark II - M2 (HSS with 0% Cobalt) (62-65 HRC), T42 (HSS with 10% Cobalt)
- S500 - T42 with Cryogenic (Ultra Low) Heat Treatment (65-69 HRC)

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HSS TOOL BIT BLANK

PRODUCT DESCRIPTION	PRICE (RS)/NO	PACKING QTY
TOOLBIT BLANK SQ 3/16"X4" H SS ZEDD+	212	10
TOOLBIT BLANK SQ 3/16"X6" H SS ZEDD+	327	10
TOOLBIT BLANK SQ 1/4"X3" ZEDD +	184	10
TOOLBIT BLANK SQ 1/4"X4" ZEDD +	214	10
TOOLBIT BLANK SQ 1/4"X6" ZEDD +	308	10
TOOLBIT BLANK SQ 5/16"X3" H SS ZEDD+	203	10
TOOLBIT BLANK SQ 5/16"X4" H SS ZEDD+	265	10
TOOLBIT BLANK SQ 5/16"X6" H SS ZEDD+	435	10
TOOLBIT BLANK SQ 3/8"X3" ZEDD +	253	10
TOOLBIT BLANK SQ 3/8"X4" ZEDD +	308	10
TOOLBIT BLANK SQ 3/8"X6" ZEDD +	481	10
TOOLBIT BLANK SQ 3/8"X8" ZEDD +	652	10
TOOLBIT BLANK SQ 1/2"X3" ZEDD +	383	10
TOOLBIT BLANK SQ 1/2"X4" ZEDD +	481	10
TOOLBIT BLANK SQ 1/2"X6" ZEDD +	734	10
TOOLBIT BLANK SQ 1/2"X8" ZEDD +	960	10
TOOLBIT BLANK SQ 5/8"X4" ZEDD +	763	10
TOOLBIT BLANK SQ 5/8"X6" ZEDD +	*	10
TOOLBIT BLANK SQ 3/4"X6" ZEDD +	1,538	10
TOOLBIT BLANK SQ 1"X6" ZEDD +	*	10
TOOLBIT BLANK SQ 1"X8" ZEDD +	3,519	10

FEATURE

- Superior Performance
- Improved Wear Resistance
- Extended Pointing Frequency
- Special Surface Treatment
- Excellent Performance on Critical Application

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CUSTOMISED TOOLBIT

PRODUCT DESCRIPTION	PRICE (RS)/NO
12 x 9 x 20 mm M2 TOL -0.03	182
4.5 x 3 x 20 mm M2 TOL -0.03	173
4 x 3 x 13 mm M2 TOL -0.03	92
6.5 x 5.5 x 20 mm M2 TOL -0.03	183
TB BLANK FL 6.38X3.21X20 MM M2 TOL -0.03	173
TOOLBIT BLANK SQ 5.1X60 MM WITH 0° BEVEL M2	228
TOOLBIT BLANK SQ 2.8X60 MM WITH 0° BEVEL	230
TB BLANK SQ 8X100 MM M2 TOL +0.05	298
TOOLBIT BLANK RD 6.5X90 MM S200	303
TB BLANK SQ 10X100 MM M2 TOL +0.05	379
TOOLBIT BLANK RD 8.5X95 MM S200	439
TOOLBIT RD 4.5x100 mm S100	647
TOOLBIT BLANK RD 10.5X105 MM S200	722
TOOLBIT RD 2.5x100 mm S100	751
TRIMMING BIT SQ 19.05X55 MM M2 - DRG ID	886
TRIMMING BIT SQ 19.05X55 MM M2 - DRG OD	886
TOOLBIT BLANK FL 25X25X12 MM T42	931
T.B SQ 3/8"X8" HSS ZEDD TIN COATING	972
TRIMMING BIT SQ 19.05X65 MM M2 - DRG ID	1,019
TB BLANK SQ 6.38/6.41 MM X 6" T42	1,453
TOOLBIT BLANK RD 12.7X200 MM S200	1,538
Parting tool 3.25 x 19 x 160 mm M35	1,669
Parting tool 3.25 x 19 x 170 mm M35	1,730
SP FL 3.5x25.8x160mm M2 (61-63 HRC)	1,898
SP FL 3.5x25.8x240mm M2 (61-63 HRC)	2,336
TOOLBIT BLANK SQ 1"X6" M2 WITH CRYO	2,582
TOOLBIT BLANK RD 10X250MM S400	3,446
Pre-Sealing Punch for Flatening Machine	4,337
Parting Blade 1.1 x 12 x 200 mm M42	2,664
Parting Blade 1.5 x 12.7 x 200 mm M42	2,336
Parting Blade 1.5 x 15 x 200 mm M42	2,645
Parting Blade 1.5 x 20 x 170 mm M42	2,789
Parting Blade 1.5 x 20 x 200 mm M42	2,645
Parting Blade 1.9 x 20 x 200 mm M42	2,164
Parting Blade 2.5 x 20 x 200 mm M42	2,355
Parting Blade 2 x 20 x 200 mm M42	2,251
Parting Blade 4.5 x 20 x 200 mm M42	4,133
Parting Blade 1.5 x 12 x 125 mm T42	2,540
Parting Blade 1/4" x 1" x 6" S500	4,421

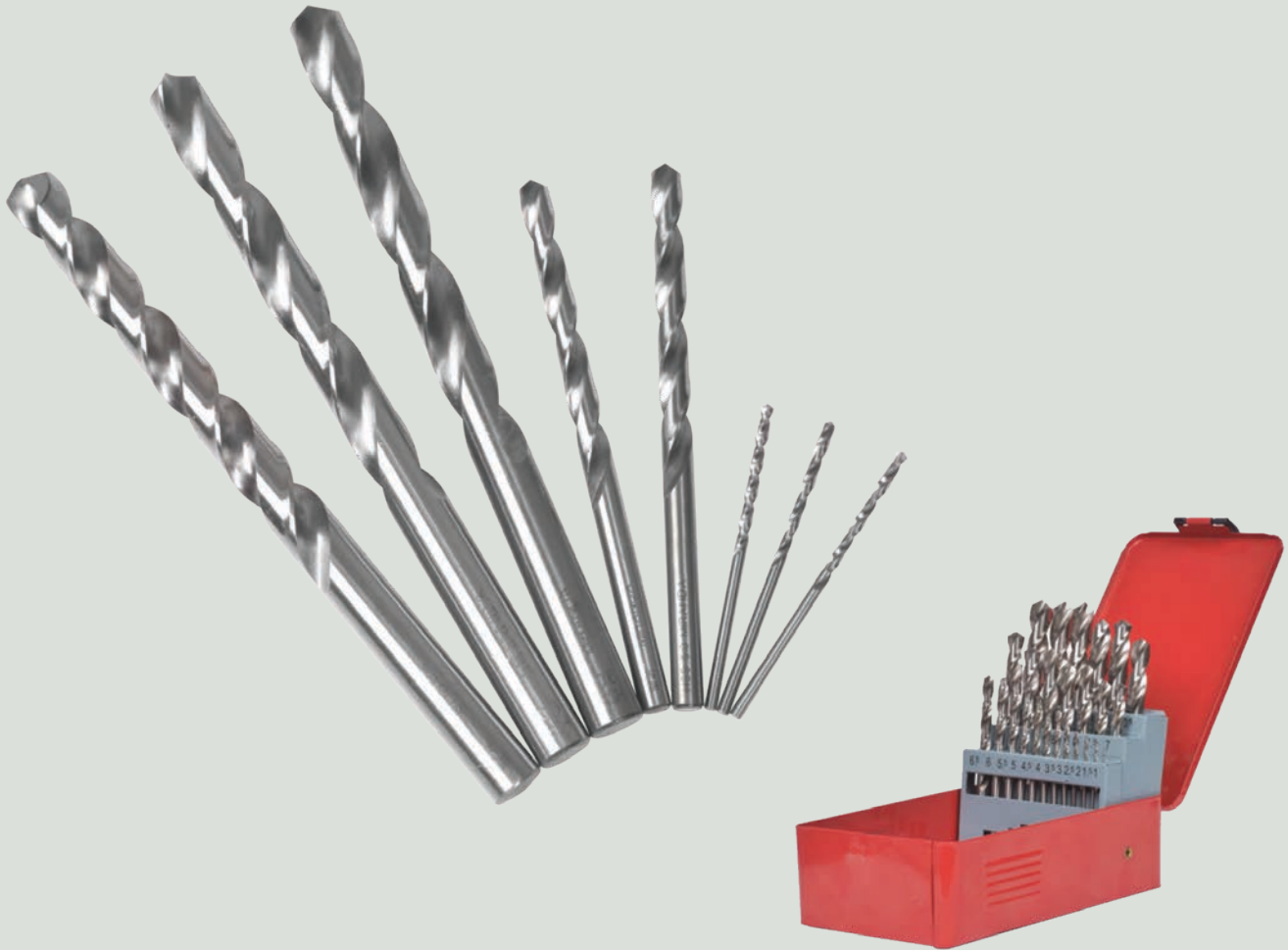
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PARALLEL SHANK REGULAR DRILLS

INTRODUCTION

Most common twist drill for hand-held power tool or machine use. For machining low to medium strength carbon and alloy steel. Due to the bright finish also good for aluminium and copper alloys. Regular "jobber" length which is ideal for drilling up to 4xD, yet can be used drilling deeper when pecking is applied.



- HSS Jobber & Stub Drill
- 118° Point angle
- DC Range : 0.80 -20 mm
- IS : 5101-1991

FEATURES & BENEFITS

- ▶ Parallel Shank Drills for General Purpose
Available in Stub and Jobber Variant, Uncoated and TiN Coated
- ▶ Type N point geometry meant for wide range of material
- ▶ Specially design for smooth flow and faster evacuation of chips
- ▶ Bright finish till 14mm and above 14.1 with blue steam tempered body and flutes, bright finish margins and point relief
- ▶ Jobber Drill sets available in 1-13 mm, 1-10 mm, 1.5 -6.5 mm, 1/16-1/4, 1/16-3/8, 1/16-1/2", 1-6 (0.1 mm), 6-10 (0.1 mm)

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HSS HIGH PERFORMANCE SUPER DRILLS

INTRODUCTION

Miranda Super drills are for hand-held power tool or machine use meant for precision drilling. Great choice for machining stainless steel. Due to the 5% Cobalt content also good to be used for super alloys, high alloy steel and austenitic cast-iron. Self centering split point requires less torque and thrust and thus reduce axial force and increases tool life. This point helps break up chips in deep hole drilling and is an excellent choice when used on CNC equipment.



- HSS-E Jobber drill
- Bright finish
- 130° split point
- DC Range : 1.00 - 16 mm
- IS : 5101-1991

FEATURES & BENEFITS

- ▶ 130° self-centering split point with special web thinning that reduces thrust
- ▶ High helix flute and reinforced web gives maximum rigidity
- ▶ Reduced contact area that results in less heat generation
- ▶ Improved cutting action and faster chip evacuation
- ▶ Higher productivity in tough machining materials

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PARALLEL SHANK GOLD DRILLS

INTRODUCTION

Twist drill for hand-held power tool or machine use. With yellow steam tempering for machining a broad range of materials from non-ferrous metals to medium strength cast steel. Regular "jobber" length which is ideal for drilling up to 4xD, yet can be used drilling deeper when pecking is applied. As per DIN 1897 (stub) & IS 5101/DIN 338 (jobber)



- HSS Jobber Drill
- DC Range : 1.00-20 mm
- HSS Stub Drill
- DC Range : 1.50-20 mm
- IS : 5101-1991

FEATURES & BENEFITS

- ▶ Specially designed & treated for precision drilling in general application for longer life and heat resistance
- ▶ Premium-grade industrial steel & super hard performance coating for longer life, heat resistance & precision drilling
- ▶ Unique flute design for superior material removal
- ▶ Improves hole finish due to better lubrication properties.

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HSS DRILLS

HSS PARALLEL SHANK JOBBER SERIES (IS 5101 / DIN 338)

SIZES			PRICE RS./10 NOS.		
MM	INCH	DG	STD. JOBBER DRILLS	GOLD JOBBER DRILLS	SUPER JOBBER DRILLS
			M2	M2	M35
0.80			990	*	*
0.90			1,050	*	*
1.00		-	590	650	790
1.02		60	590	*	*
1.04		59	590	*	*
1.05			590	*	*
1.07		58	590	*	*
1.09		57	590	*	*
1.10		-	590	650	790
1.18		56	590	*	*
1.19	3/64	-	590	650	800
1.20		-	590	650	790
1.25			590	*	*
1.30		-	590	650	790
1.32		55	590	*	*
1.35			590	*	*
1.40		54	590	650	790
1.45			590	*	*
1.50		-	590	650	790
1.51		53	590	*	*
1.55			590	*	*
1.59	1/16	-	590	650	790
1.60		-	590	650	790
1.61		52	610	*	*
1.63			*	680	
1.65			610	*	*
1.70		51	610	680	830
1.75			610	*	*
1.78		50	610	*	*
1.80		-	610	680	830
		49	610		
1.85			610	*	*
1.90		-	610	680	830
1.93		48	610	680	*
1.95			610	680	*
1.98	5/64	-	610	680	840
1.99		47	610	*	*
2.00		-	610	680	830
2.06		46	610	*	*
2.08		45	610	680	*
2.10		-	610	680	830
2.18		44	610	*	*
2.20		-	610	680	830
2.26		43	610	*	*
2.30		-	610	680	830
2.35			610	*	*
2.37		42	610	*	*
2.38	3/32	-	610	680	830
2.40		-	610	680	830

SIZES			PRICE RS./10 NOS.		
MM	INCH	DG	STD. JOBBER DRILLS	GOLD JOBBER DRILLS	SUPER JOBBER DRILLS
			M2	M2	M35
2.44		41	610	680	*
		40	610	*	*
2.45			610	*	*
2.50		-	610	680	830
2.53		39	610	*	*
		38	610	*	*
2.55			610	*	830
2.60		-	610	680	830
2.64		37	610	*	*
2.65			610	*	*
2.70		-	610	680	830
2.71		36	610	*	*
2.75			610	*	*
2.78	7/64	-	610	680	830
2.79		35	610	*	*
2.80		-	630	680	850
2.82		34	630	*	*
2.87		33	630	*	850
2.90		-	630	700	850
2.93			*	*	850
2.95			630	*	*
		32	630	*	820
3.00		-	630	700	850
		31	740	820	*
3.05			*	*	1,000
3.10		-	740	820	1,000
	1/8	-	760	840	1,000
3.20		-	760	840	1,030
3.25			760	*	*
		30	760	840	*
3.30		-	760	840	1,030
3.40		-	760	840	1,030
3.45			760	840	1,030
		29	760	*	*
3.50		-	760	840	1,030
		28	760	*	*
	9/64		760	840	1,030
3.60		-	1,130	1,250	1,530
3.65			1,130	*	*
		27	1,130	*	*
3.70		-	1,130	1,250	1,530
		26	1,130	*	*
3.75			1,130	*	*
3.80			1,130	1,250	1,530
		25	1,130	*	*
3.86		24	1,130	*	*
3.90		-	1,130	1,250	1,530
3.91		23	1,130	*	*
3.95			1,130	*	*

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HSS DRILLS

HSS PARALLEL SHANK JOBBER SERIES (IS 5101 / DIN 338)

SIZES			PRICE RS./10 NOS.		
MM	INCH	DG	STD. JOBBER DRILLS	GOLD JOBBER DRILLS	SUPER JOBBER DRILLS
			M2	M2	M35
	5/32	-	1,130	1,250	1,530
		22	1,130	*	*
4.00		-	1,130	1,250	1,530
		21	1,360	1,510	*
4.05			1,360	*	*
		20	1,360	*	*
4.10		-	1,360	1,510	1,840
4.15			1,360	*	*
4.20		-	1,360	1,510	1,840
4.25			1,360	*	*
		19	1,360	*	*
4.30			1,360	1,510	1,840
		18	1,360	*	*
	11/64	-	1,360	1,510	1,840
		17	1,360	*	*
4.40		-	1,360	1,510	1,840
		16	1,790	1,990	2,420
		15	1,790	*	*
4.60		-	1,790	1,990	2,420
		14	1,790	*	*
4.70		13	1,790	1,990	2,420
4.75			1,790	*	*
	3/16	-	1,790	1,990	2,420
4.80			1,790	1,990	2,420
4.85			1,970	*	*
4.90		-	1,970	2,180	2,660
		10	1,970	*	*
4.95			1,970	*	*
		9	1,970	*	*
5.00		-	1,970	2,180	2,660
		8	1,970	*	*
5.10		-	1,970	2,180	2,660
		7	1,970	*	*
	13/64	-	1,970	2,180	2,660
		6	1,970	*	*
5.20		-	1,970	2,180	2,660
5.22		5	2,120	*	*
5.30		-	2,120	2,360	2,880
5.31		4	2,120	*	*
5.40		-	2,120	2,360	2,880
5.41		3	2,120	*	*
5.45			*	*	2,880
5.50		-	2,120	2,360	2,880
	7/32	-	2,120	2,360	2,880
5.60		-	2,120	2,360	2,880
5.61		2	2,370	*	*
5.70		-	2,370	2,630	3,200
5.79		1	2,370	*	*
5.80		-	2,370	2,630	3,200
5.90		-	2,370	2,630	3,200

SIZES			PRICE RS./10 NOS.		
MM	INCH	DG	STD. JOBBER DRILLS	GOLD JOBBER DRILLS	SUPER JOBBER DRILLS
			M2	M2	M35
	15/64	-	2,370	2,630	3,200
6.00		-	2,370	2,630	3,200
6.04		B	2,590	*	*
6.10		-	2,590	2,880	3,510
6.15		C	2,590	2,880	*
6.20		-	2,590	2,880	3,510
		D	2,590	*	*
6.25			2,590	*	*
6.30		-	2,590	2,880	3,510
	1/4	E	2,590	2,880	3,510
6.40		-	2,590	2,880	3,510
6.50		-	3,310	3,670	4,480
6.60		-	3,310	3,670	4,480
6.63		G	3,310	*	*
6.70		-	3,310	3,670	4,480
6.75	17/64	H	3,310	3,670	4,480
6.80		-	3,310	3,670	4,480
6.90		-	3,620	4,020	4,890
6.95			3,620	*	*
7.00		J	3,620	4,020	4,890
7.10		-	3,620	4,020	4,890
	9/32	K	3,620	4,020	4,890
7.20		-	3,620	4,020	4,890
7.30		-	3,830	4,250	5,180
7.40		-	3,830	4,250	5,180
7.50		-	3,830	4,250	5,180
	19/64	-	4,150	4,610	5,610
7.60		-	4,150	4,610	5,610
7.70		-	4,150	4,610	5,610
7.80		-	4,150	4,610	5,610
7.90		-	4,540	5,040	6,140
	5/16	-	4,540	5,040	6,140
8.00		-	4,540	5,040	6,140
8.03		O	4,540	*	*
8.10		-	4,540	5,040	6,140
8.20		-	4,540	5,040	6,140
8.25			5,390	*	*
8.30		-	5,390	5,990	7,430
	21/64	-	5,390	5,990	7,430
8.40		-	5,390	5,990	7,430
8.50		-	5,390	5,990	7,430
8.60		-	5,390	5,990	7,430
8.70		-	5,390	5,990	7,430
	11/32	-	5,750	6,380	7,910
8.80		-	5,750	6,380	7,910
		S	5,500	*	*
8.90		-	5,750	6,380	7,910
9.00		-	5,750	6,380	7,910
9.10		-	5,940	6,590	8,110
	23/64		5,940	6,590	8,160

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HSS DRILLS

HSS PARALLEL SHANK JOBBER SERIES (IS 5101 / DIN 338)

SIZES			PRICE RS./10 NOS.		
MM	INCH	DG	STD. JOBBER DRILLS	GOLD JOBBER DRILLS	SUPER JOBBER DRILLS
			M2	M2	M35
9.20			5,940	6,590	8,160
9.30			5,940	6,590	8,160
9.34		U	5,940	*	*
9.40			5,940	6,590	8,160
9.50			5,940	6,590	8,160
	3/8		6,760	7,500	9,290
9.60			6,760	7,500	9,290
9.70			6,760	7,500	9,290
9.80			6,760	7,500	9,290
9.90			7,530	8,360	10,280
	25/64		7,530	8,360	10,280
10.00			7,530	8,360	10,280
10.10			7,530	8,360	10,280
10.20			7,530	8,360	10,280
		Y	*	8,900	*
10.30			8,190	9,090	11,180
	13/32		8,190	9,090	11,180
10.40			8,190	9,090	11,180
10.50			8,190	9,090	11,180
10.60			8,190	9,090	11,180
10.70			8,660	9,610	11,820
	27/64		8,660	9,610	11,820
10.80			8,660	9,610	11,820
10.90			8,660	9,610	11,820
11.00			8,660	9,610	11,820
11.10			9,660	10,720	13,190
	7/16		9,660	10,720	13,190
11.20			9,660	10,720	13,190
11.30			9,660	10,720	13,190
11.40			9,660	10,720	13,190
11.50			10,180	11,300	13,900
	29/64		10,180	11,290	13,830
11.60			10,180	11,300	13,900
11.70			10,180	11,300	13,900
11.80			10,180	11,300	13,900
11.90			10,880	12,080	14,850
	15/32		10,880	12,080	14,770
12.00			10,880	12,080	14,850
12.10			10,880	12,080	14,850
12.20			10,880	12,080	14,850
12.30			11,540	12,810	15,750
	31/64		11,540	12,810	15,680
12.40			11,540	12,810	15,750
12.50			11,540	12,810	15,750
12.60			11,540	12,810	15,750
12.70			12,180	13,520	16,630
	1/2		12,180	13,520	*
12.80			12,180	13,520	16,630
12.90			12,180	13,520	16,630

SIZES			PRICE RS./10 NOS.		
MM	INCH	DG	STD. JOBBER DRILLS	GOLD JOBBER DRILLS	SUPER JOBBER DRILLS
			M2	M2	M35
13.00			12,180	13,520	16,630
	33/64		15,160	16,810	20,580
13.10			15,160	16,180	19,890
13.20			15,160	16,180	19,890
13.30			15,160	16,180	19,890
13.40			15,160	16,180	19,890
	17/32		16,120	17,890	21,890
13.50			16,120	17,890	22,000
13.60			16,120	17,890	22,000
13.70			16,120	17,890	22,000
13.80			16,120	17,890	22,000
	35/64		17,500	19,410	23,770
13.90			17,500	18,680	23,870
14.00			17,500	19,430	23,870
14.10			17,410	*	*
14.20			17,410	20,010	*
14.25			17,240	19,410	23,680
14.29	9/16		18,070	20,350	24,920
14.30			18,230	*	*
14.40			18,230	*	*
14.50			19,450	20,060	26,530
14.60			21,720		
14.68	37/64		19,450	21,910	26,830
14.70			19,630	*	*
14.75			19,450	21,570	26,730
14.80			19,630	*	*
15.00			19,450	21,590	26,530
15.08	19/32		19,450	21,910	26,830
15.25			19,450	21,570	26,530
15.30			19,790	*	*
15.40			20,490	*	*
15.47	39/64		20,300	*	*
15.50			21,120	23,440	29,030
15.60			20,490	*	*
15.75			21,120	23,410	28,570
15.80			21,310	*	*
15.87	5/8		21,110	22,540	29,030
16.00			21,120	23,440	29,030
16.30			21,690	*	*
16.50			22,570	24,810	30,800
17.00			22,350	24,810	30,800
17.46	11/16		22,350	25,170	*
17.50			24,410	26,860	29,610
18.00			24,190	26,860	34,570
18.50			25,830	*	33,890
19.00			25,580	28,390	35,140
19.05	3/4		25,580	28,800	*
19.50			25,830	33,940	35,140
20.00			30,840	32,630	35,140

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HSS PARALLEL SHANK STUB SERIES

IS : 5100 - 1969

SIZES		PRICE (RS)/10 NOS	
MM	INCH	STD. STUB DRILLS	GOLD STUB DRILLS
1.50		590	670
	1/16	590	*
1.60		*	670
1.65		*	670
1.90		610	670
	5/64"	610	*
2.00		610	*
2.20		610	*
	3/32"	610	*
2.50		610	*
2.60		610	*
	7/64"	610	670
2.80		610	*
2.90		*	730
3.00		610	*
3.10		610	*
	1/8"	720	800
3.20		760	*
3.30		760	*
3.40		760	*
3.50		760	*
	9/64"	760	840
3.70		1080	*
3.80		1080	*
	5/32"	1080	1200
4.00		1080	1150
4.20		1210	*
	11/64"	1220	*
4.40		1550	*
4.50		1600	*
4.70		1600	*
	3/16"	1600	1720
4.80		1600	*
4.90		1720	*
5.00		1720	1910
5.10		1720	*
	13/64"	1720	1910
5.20		1720	*
5.30		1780	*
5.40		1780	*
5.50		1860	*
	7/32"	1860	*
5.90		2030	*
	15/64"	2040	*
6.00		2110	2340
6.10		*	2500
6.20		2260	2500
6.30		2260	*
	1/4"	2350	2610
6.40		2350	*
6.50		2890	*
	17/64"	2890	3210
6.80		2890	*
7.00		3170	*

SIZES		PRICE (RS)/10 NOS	
MM	INCH	STD. STUB DRILLS	GOLD STUB DRILLS
7.10		3170	*
	9/32"	3170	3520
7.40		3170	*
	19/64"	3490	*
7.50		3170	3650
7.60		3490	*
7.70		3490	*
7.80		3490	*
	5/16"	3980	4420
8.00		3980	4420
8.10		4900	*
	21/64"	4900	*
8.50		4900	*
8.60		5120	*
	11/32"	5120	*
8.80		5120	5690
9.00		5120	*
9.10		5190	*
	23/64"	5190	*
9.50		5390	*
	3/8"	5630	6250
9.80		5430	*
9.90		6630	*
	25/64"	6900	*
10.00		6900	7360
10.10		7420	*
10.20		7420	*
	13/32"	7420	8620
10.50		7420	*
	27/64"	8040	*
10.80		8350	*
11.00		8350	*
	7/16"	9270	9660
11.50		9290	*
	29/64"	9290	*
11.80		9290	*
	15/32"	9470	*
12.00		9860	*
12.10		9860	*
12.20		9860	*
12.50		10300	*
12.70		10490	12230
	1/2"	10910	12110
13.00		10910	13250
	17/32"	12830	*
13.50		13660	*
	35/64"	13660	*
14.00		14880	*
14.20		16050	
	9/16"	*	18430
14.80		18120	
18.00		*	22420
20.00		20270	28020

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HSS INTERMEDIATE LENGTH DRILL, TYPE N, 130° PA - BRIGHT FINISH

DESCRIPTION	PRICE (RS)/10 NOS
2.50 MM	680
1/8"	810
3.20 MM	850
3.5 MM	860
9/64"	850
4.20 MM	1470
5.00 MM	2130
13/64"	2130

DESCRIPTION	PRICE (RS)/10 NOS
5.80 MM	2580
6.20 MM	2820
6.50 MM	3740
6.80 MM	3740
8.50 MM	5960
10.00 MM	8320
10.50 MM	9060

HSS JOBBER DRILL - STEAM TEMPERED

DESCRIPTION	PRICE (RS)/10 NOS
3.50 mm	800
4.20 mm	1520
4.50 mm	1890

DESCRIPTION	PRICE (RS)/10 NOS
5.20 mm	1890
7.00 mm	4360
8.00 mm	5700



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DRILL SET IS:5101 - 1991

DRILL SET (MM)	REGULAR	GOLD	SUPER	TIN COATED
1.50 TO 6.50 MM (13 Pcs.)	2,050	2,272	*	2,459
1.00 TO 10.00 MM (19 Pcs.)	5,710	*	*	6,852
1.00 TO 13.00 MM (25 Pcs.)	12,090	13,421	17,468	14,510
1.00 - 6.00 51 PCS	8,933	9,331	*	11,583
6.0 - 10.0 x 0.1 mm	*	*	*	23,744

DRILL SET (INCH)	REGULAR	GOLD	SUPER	TIN COATED
1/16 TO 1/4 INCH (13 Pcs.)	2,050	2,272	*	2,459
1/16 TO 3/8 INCH (21 Pcs.)	6,093	6,757	*	7,312
1/16 TO 1/2 INCH (29 Pcs.)	13,439	*	*	16,127
1/16 - 1/2 x 1/32 inch	*	*	*	8,991

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HSS DRILLS - TIN COATED HSS PARALLEL SHANK JOBBER SERIES, TYPE N 118° (IS 5101 / DIN 338)

SIZE	PRICE (RS)/NO	PACKET QTY	SIZE	PRICE (RS)/NO	PACKET QTY	SIZE	PRICE (RS)/NO	PACKET QTY
1.10 mm	87	10	3.90 mm	179	10	8.40 mm	740	10
1.20 mm	87	10	4.00 mm	186	10	8.50 mm	740	10
1.30 mm	87	10	4.10 mm	220	10	8.80 mm	888	10
1.40 mm	87	10	4.20 mm	220	10	9.00 mm	1,020	10
1.60 mm	87	10	4.30 mm	220	10	9.10 mm	979	10
1.70 mm	90	10	4.40 mm	220	10	9.20 mm	979	10
1.80 mm	90	10	4.60 mm	262	10	9.25 mm	1,040	10
1.90 mm	90	10	4.70 mm	262	10	9.30 mm	777	10
2.00 mm	94	10	4.80 mm	262	10	9.50 mm	1,043	10
2.10 mm	103	10	4.90 mm	373	10	9.60 mm	1,043	10
2.20 mm	103	10	5.00 mm	373	10	10.0 mm	1,109	10
2.30 mm	103	10	5.10 mm	290	10	10.20 mm	1,109	10
2.40 mm	103	10	5.20 mm	290	10	10.50 mm	1,178	10
2.50 mm	103	10	5.30 mm	307	10	11.00 mm	1,227	10
2.60 mm	103	10	5.40 mm	307	10	11.30 mm	1,423	10
2.70 mm	103	10	5.50 mm	307	10	11.50 mm	1,423	10
2.90 mm	105	10	5.60 mm	331	10	12.00 mm	1,495	10
3.00 mm	103	10	5.70 mm	331	10	12.30 mm	1,931	10
3.10 mm	143	10	5.80 mm	318	10	12.40 mm	1,947	10
3.20 mm	143	10	5.90 mm	331	10	12.50 mm	1,963	10
3.30 mm	149	10	6.00 mm	495	10	13.00 mm	1,462	10
3.40 mm	149	10	6.80 mm	495	10	13.20 mm	2,477	1
3.50 mm	149	10	7.10 mm	865	10	13.80 mm	1,934	1
3.60 mm	179	10	8.00 mm	642	10	WG08	279	10
3.70 mm	179	10	8.10 mm	642	10			
3.80 mm	179	10	8.20 mm	650	10			

HSS-E SUPER DRILL, JOBBER LENGTH - TIN COATED, DIN 338

SIZE	PRICE (RS)/NO	PACKET QTY	SIZE	PRICE (RS)/NO	PACKET QTY	SIZE	PRICE (RS)/NO	PACKET QTY
3.00 mm	88	10	6.80 mm	511	10	11.00 mm	1,336	5
3.30 mm	117	10	8.00 mm	913	10	12.00 mm	1,679	5
4.00 mm	174	10	8.50 mm	832	10	12.50 mm	1,781	5
4.20 mm	210	10	9.50 mm	916	5	13.00 mm	1,880	5
5.00 mm	303	10	10.00 mm	1,162	5			
6.00 mm	499	10	10.50 mm	1,264	5			

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HSS DRILLS - M42

PARALLEL SHANK JOBBER SERIES, IS 5101 / DIN 338

Twist Jobber drill mainly for machine use. Due to the 8% Cobalt & high molybdenum content enhances the hardness, strength, and heat resistance good to be used for high abrasive, high strength steel, high temperature alloys, Stainless steel, aerospace alloys, titanium. Good in tough machining & interrupted machining conditions. An ideal tool for producing accurate sized holes with a quality finish in high strength materials.

Industry : Automotive and Aerospace

Machining condition : stable high-temperature drilling.



SIZE	PRICE (RS)/NO	PACKET QTY
1.20 MM	132	10
1.50 MM	132	10
1.80 MM	137	10
1.90 MM	137	10
2.00 MM	137	10
2.40 MM	137	10
2.50 MM	137	10
2.70 MM	194	10
2.80 MM	198	10
3.00 MM	107	10
3.20 MM	142	10
3.30 MM	142	10
3.50 MM	147	10
3.70 MM	205	10
4.00 MM	225	10
4.20 MM	225	10
4.50 MM	225	10
5.0 MM	317	10
5.20 MM	355	10
5.50 MM	383	10
6.0 MM	396	10

SIZE	PRICE (RS)/NO	PACKET QTY
6.50 MM	623	10
6.80 MM	623	10
7.00 MM	655	10
7.50 MM	725	10
8.00 MM	820	10
8.50 MM	950	10
9.00 MM	1,189	10
9.50 MM	1,380	10
9.70 MM	1,380	10
9.80 MM	1,244	10
10.00 MM	945	10
10.20 MM	945	10
10.50 MM	1,028	10
10.90 MM	1,473	10
11.00 MM	1,087	10
11.50 MM	1,278	10
12.00 MM	1,365	10
12.50 MM	1,448	10
13.00 MM	1,529	10
14.00 MM	3,220	1

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HSS PARALLEL SHANK-LONG SERIES, DIN 340

SIZE		PRICE (RS)/NO
MM	INCH	
1.00		326
1.10		326
1.20		326
1.30		326
1.40		326
1.50		326
1.60		326
1.70		326
1.80		326
1.90		326
2.00		326
2.10		326
2.20		326
2.30		418
	3/32	*
2.40		418
2.50		418
2.60		418
2.70		418
	7/64	402
2.80		418
2.90		418
3.00		424
3.10		424
	1/8	424
3.20		424
3.30		424
3.40		424
3.50		424
	9/64	424
3.60		459
3.70		459
3.80		459
3.90		459
	5/32	459
4.00		459
4.10		459
4.20		459
4.30		459
	11/64	459
4.40		459
4.50		459
4.60		459
4.70		459
	3/16	459
4.80		459
4.90		532
5.00		532
5.10		532
	13/64	511

SIZE		PRICE (RS)/NO
MM	INCH	
5.20		532
5.30		623
5.40		623
5.50		623
	7/32	623
5.60		674
5.70		674
5.80		674
5.90		674
	15/64	674
6.00		674
6.10		764
6.20		764
6.30		702
	1/4	701
6.40		981
6.50		981
6.60		1,186
6.70		1,186
	17/64	1,186
6.80		1,186
6.90		1,186
7.00		1,186
7.10		1,186
	9/32"	1,185
7.20		1,186
7.30		1,186
7.40		1,186
7.50		1,186
	19/64"	1,139
7.70		1,186
7.80		1,186
7.90		1,221
7.94	5/16	1,221
8.00		1,221
8.10		1,221
8.20		1,221
8.30		1,221
	21/64	1,174
8.40		1,174
8.50		1,221
8.60		1,342
8.70		1,342
	11/32	1,299
8.80		1,351
8.90		1,351
9.00		1,351
9.10		1,534
	23/64	1,351
9.20		1,596

SIZE		PRICE (RS)/NO
MM	INCH	
9.30		1,596
9.40		1,596
9.50		1,351
9.52	3/8	1,299
9.60		1,514
9.70		1,574
9.80		1,574
9.90		1,574
	25/64	1,571
10.00		1,701
10.10		1,574
10.20		1,781
10.30		1,698
	13/32	1,476
10.40		1,698
10.50		1,832
10.60		2,001
10.70		2,001
	27/64	2,001
10.80		2,001
10.90		1,924
11.00		2,078
11.10		2,067
	7/16	1,835
11.20		2,067
11.50		1,892
11.70		2,078
11.80		1,892
11.90		2,078
12.00		1,892
12.10		1,819
12.20		1,819
12.40		2,171
12.50		2,624
	1/2	2,915
12.70		2,915
12.80		1,819
13.00		2,915
13.50		2,915
14.00		2,915
	9/16	*
14.50		3,004
14.80		2,888
15.00		3,004
15.50		*
	5/8	*
16.00		3,069
18.00		3,413

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

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HSS PARALLEL SHANK-EXTRA LONG SERIES, BS 328

SIZES		PRICE (RS)/NO							
		OAL MM	160	175	200	225	250	315	400
MM	INCH	FL MM	100	120	150	175	200	250	350
3.00		-	1,257	1,485	1,698	*	*	*	
	1/8		1,185	*	1,698	*	*	*	
3.20		-	1,275	*	*	*	*	*	
3.50		-	1,275	*	1,708	*	*	*	
3.80			1,184	*	1,741	*	2,177	*	
4.00		-	1,231	1,494	1,708	*	2,580	3,395	*
4.20			1,296	*	1,682	*	*	*	*
4.50		-	1,246	*	1,748	*	2,586	3,639	*
	3/16		1,223	*	1,712	*	*	4,698	*
4.80			*	*	1,721	*	*	*	*
5.00		-	1,272	1,565	1,781	*	2,640	3,723	4,667
5.10			1,385		1,819	*	*	*	*
5.20			1,429	*	1,819	*	2,816	3,272	*
5.50		-	1,473	*	1,892	*	2,816	*	4,914
	7/32		*	*	*	*	*	5,478	*
5.80			*	*	1,858	*	2,861	3,682	*
6.00		-	1,343	1,622	1,923	*	2,897	3,829	5,698
6.20					*	*	3,364	*	*
	1/4				2,329	*	*	5,479	*
6.50		-			2,329	*	3,364	4,337	5,699
6.70					*	*	3,518	*	*
	17/64				*	*	*	6,131	*
6.80					2,575	*	3,705	4,389	*
7.00		-			2,445	*	3,660	4,389	6,376
7.50		-			2,580	*	3,867	4,465	6,399
7.80					2,650	*	3,938	4,539	*
	5/16				*	*	*	6,295	*
8.00		-			2,699	*	4,098	4,863	6,547
	21/64				2,714	*	*	5,729	*
8.50		-			2,823	*	4,171	4,863	6,547
	11/32				*	*	*	5,728	*
9.00		-			2,832	*	4,171	4,863	7,010
9.50		-			2,913	*	4,181	5,551	7,010
	3/8				2,913	*	*	*	*
9.70					*	*	4,177	*	*
9.80					3,104	*	4,148	5,597	*
10.00		-			2,959	*	4,269	5,664	7,644
10.20					3,088	*	4,265	5,956	*
10.30					3,091	*	*	*	*
10.50		-			3,215	*	4,435	5,957	7,261
10.70					3,410	*	*	*	*
	27/64				*	*	*	7,570	*
11.00		-			3,310	*	4,473	6,153	7,873

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HSS PARALLEL SHANK-EXTRA LONG SERIES, BS 328

SIZES		PRICE (RS)/NO							
		OAL MM	160	175	200	225	250	315	400
MM	INCH	FL MM	100	120	150	175	200	250	350
11.10		*	*	*	3,580	*	*	*	*
11.30		*	*	*	3,580	*	*	*	*
11.50		*	*	*	3,580	*	4,689	6,204	8,184
	29/64	*	*	*	*	*	*	8,067	*
11.70		*	*	*	*	*	4,701	*	*
11.80		*	*	*	*	*	4,701	6,211	*
	15/32	*	*	*	*	*	*	8,067	*
12.00		*	*	*	*	*	*	6,222	8,389
12.50		*	*	*	4,981	*	4,981	6,597	8,893
	1/2	*	*	*	*	*	4,790	8,893	*
12.80		*	*	*	*	*	*	6,597	*
13.00		*	*	*	*	*	5,699	7,257	*
14.00		*	*	*	*	*	5,699	7,810	*

HSS-E EXTRA LENGTH DRILL, TYPE N 118° - BRIGHT FINISH, BS 328

SIZES		PRICE (RS)/NO							
		OAL MM	160	175	200	225	250	315	400
MM	INCH	FL MM	100	125	150	175	200	250	350
3.00		-	1,422	*	*	*	*	*	
	1/8		*	*	*	*	*	*	
3.20		-	*	*	*	*	*	*	
3.50		-	*	*	*	*	*	*	
3.80			*	*	*	*	*	*	
4.00		-	1,422	*	1,972	*	2,979	*	*
4.20			*	*	*	*	*	*	*
4.50		-	*	*	*	*	*	*	*
	3/16		*	*	*	*	*	*	*
4.80			*	*	*	*	*	*	*
5.00		-	1,468	*	2,055	*	*	*	*
5.10			*	*	*	*	*	*	*
5.20			*	*	*	*	*	*	*
5.50		-	*	*	*	*	*	*	*
	7/32		*	*	*	*	*	*	*
5.80			*	*	*	*	*	*	*
6.00		-	1,551	*	2,221	*	3,345	*	*
6.20			*	*	*	*	*	*	*
	1/4		*	*	*	*	*	*	*

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HSS-E EXTRA LENGTH DRILL, TYPE N 118° - BRIGHT FINISH, BS 328

SIZES		PRICE (RS)/NO							
		OAL MM	160	175	200	225	250	315	400
MM	INCH	FL MM	100	125	150	175	200	250	350
6.50		-	*	*	2,689	*	3,883	*	*
6.70			*	*	*	*	*	*	*
	17/64		*	*	*	*	*	*	*
6.80			*	*	2,823	*	4,225	*	*
7.00		-	*	*	2,823	*	4,225	5,066	*
7.50		-	*	*	*	*	*	*	*
7.80			*	*	*	*	*	*	*
	5/16		*	*	*	*	*	*	*
8.00		-	*	*	3,149	*	4,731	5,613	*
	21/64		*	*	*	*	*	*	*
8.50		-	*	*	3,259	*	4,814	5,613	*
	11/32		*	*	*	*	*	*	*
9.00		-	*	*	3,269	*	*	*	*
9.50		-	*	*	*	*	*	*	*
	3/8				*	*	*	*	*
9.70					*	*	*	*	*
9.80					*	*	*	*	*
10.00		-			3,416	*	5,786	*	*
10.20					*	*	*	*	*
10.30					*	*	*	*	*
10.50		-			*	*	*	6,876	*
10.70					*	*	*	*	*
	27/64				*	*	*	*	*
11.00		-			3,793	*	*	*	*
11.10					*	*	*	*	*
11.30					*	*	*	*	*
11.50		-			*	*	*	*	*
	29/64				*	*	*	*	*
11.70					*	*	*	*	*
11.80					*	*	*	*	*
	15/32				*	*	*	*	*
12.00		-			*	*	*	*	*
12.50		-			*	*	*	*	*
	1/2						*	*	*
12.80							*	*	*
13.00							*	*	*
14.00							*	*	*

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HSS CENTRE DRILL

INTRODUCTION

HSS CENTRE DRILL also known as spot drill with 120° point angle and 60° straight conical form. It is designed to create a conical hole, known as center hole or centering hole at the starting point of a workpiece. This center drill serves as a guide for accurately positioning and aligning subsequent drilling or machining applications.



- HSS Centre drill
- Bright finish
- DC Range: 1.0-8 mm
- Available in Type A, B, R & BS
- IS 6708/6709/6710-1977, BS 328 (part 2)

FEATURES & BENEFITS

- ▶ Accurate centering
- ▶ Improved concentricity
- ▶ Reduced drill wander

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HSS CENTER DRILLS

TYPE 'A', DIN 333			TYPE 'R', DIN 333			TYPE 'B', DIN 333			TYPE 'BS', BS-328			
PILOT DIA MM	BODY DIA MM	PRICE (RS)/NO	PILOT DIA MM	BODY DIA MM	PRICE (RS)/NO	PILOT DIA MM	BODY DIA MM	PRICE (RS)/NO	SIZE BS NO	PILOT DIA INCH	BODY DIA INCH	PRICE (RS)/NO
0.80	3.15	277	0.80	3.15	*							
1.00	3.15	280	1.00	3.15	*	1.00	4.00	459.00	BS-1	3/64"	1/8"	280
1.25	3.15	280	1.25	3.15	280	1.25	5.00	495.00	BS-2	1/16"	3/16"	280
1.60	4.00	280	1.60	4.00	280	1.60	6.30	578	BS-3	3/32"	1/4"	321
2.00	5.00	280	2.00	5.00	280	2.00	8.00	813	BS-4	1/8"	5/16"	500
2.50	6.30	321	2.50	6.30	321	2.50	10.00	1037	BS-5	3/16"	7/16"	660
3.15	8.00	500	3.15	8.00	500	3.15	11.20	1387	BS-6	1/4"	5/8"	1240
4.00	10.00	618	4.00	10.00	618	4.00	14.00	1858	BS-7	5/16"	3/4"	1916
5.00	12.50	1,051	5.00	12.50	*	5.00	18.00	2653				
6.30	16.00	1,240	6.30	16.00	*	6.30	20.00	2918				
8.00	20.00	1,916	8.00	20.00	*	8.00	25.00	4048				

HSS-E CENTRE DRILL, BRIGHT FINISH, BS 328

SIZE BS NO	PILOT DIA INCH	BODY DIA INCH	PRICE (RS)/NO
BS-1	3/64"	1/8"	322
BS-2	1/16"	3/16"	322
BS-3	3/32"	1/4"	369
BS-4	1/8"	5/16"	575
BS-6	1/4"	5/8"	1425

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HSS TAPER SHANK DRILLS

INTRODUCTION

Versatile drill with larger diameters - up to 76 mm (3 inches). Tapered shank provides a better grip for holding it in the machine and full proof clamping to avoid spinning. Conventional 118° point provides strength and makes it easy to regrind. The robust design provides increased performance when used on conventional machines. Steam tempered body and flutes finish, bright finish margins, and point relief retains cutting fluid and prevents chip to tool welding. Suitable for drilling many materials.



- Available in HSS & HSSE
- DC Range: 3.00 - 3"
- DIN 345, IS 5103-1969

FEATURES & BENEFITS

- ▶ Taper Shank Drill, Type N 118° - Blue Tempered flute with Bright Finish Point and Shank
- ▶ DC Range: 31.90 - 3" are with Web Thinning
- ▶ HSSE improves tool life thus better productivity and higher performance.

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HSS TAPER SHANK DRILL IS : 5103 - 1969, DIN 345

SIZE		PRICE (RS)/NO	
MM	INCH	REGULAR (M2)	SUPER (M35)
3.00		499	602
	1/8	535	*
3.20		523	602
3.50		499	602
3.80		535	602
	5/32	535	
4.00		499	676
4.20		673	676
	11/64	722	*
4.50		673	912
	3/16	673	*
4.80		692	796
5.00		673	912
	13/64	744	*
5.20		692	796
5.50		673	912
	7/32	771	*
5.80		692	796
6.00		673	912
6.20		763	912
	1/4	751	*
6.50		767	912
6.60		912	*
6.70		778	*
6.75		778	*
	17/64	778	*
6.80		778	912
7.00		767	1,039
	9/32	901	*
7.10		901	*
7.20		778	1,039
7.50		767	1,039
7.80		778	1,039
	5/16	767	*
8.00		767	1,039
8.20		1,099	*
	21/64	1,152	*
8.50		999	1,353

SIZE		PRICE (RS)/NO	
MM	INCH	REGULAR (M2)	SUPER (M35)
8.60		1,099	*
8.70		1,099	*
	11/32	1,099	*
8.80		1,209	1,391
9.00		1,099	1,489
9.20		1,209	1,489
9.50		1,099	1,489
	3/8	1,099	*
9.60		1,099	*
9.80		1,295	1,489
	25/64	1,295	*
10.00		1,169	1,584
10.20		1,308	1,773
	13/32	1,275	*
10.25		1,309	*
10.30		1,309	*
10.40		1,589	*
10.50		1,549	2,099
10.70		1,619	*
	27/64	1,619	*
10.80		1,620	2,099
11.00		1,620	2,195
	7/16	1,620	*
11.20		1,666	2,195
11.25		1,711	*
11.50		1,666	2,257
11.70		1,666	*
11.80		1,666	2,257
	15/32	1,666	*
12.00		1,691	2,292
12.20		1,691	2,292
12.25		1,737	*
	31/64	1,691	*
12.50		1,691	2,292
12.60		1,691	*
12.70		1,691	2,694
	1/2	1,691	*
12.80		2,342	2,694

SIZE		PRICE (RS)/NO	
MM	INCH	REGULAR (M2)	SUPER (M35)
13.00		2,342	3,173
13.10		2,517	*
13.20		2,452	3,173
13.25		2,451	*
	17/32	2,388	*
13.40		2,451	*
13.50		2,624	3,557
13.60		2,627	*
13.70		2,454	*
13.75		2,698	*
13.80		2,624	3,557
	35/64	2,627	*
14.00		2,624	3,557
14.10		2,887	*
14.20		2,887	*
14.25		2,810	3,976
	9/16	2,737	3,807
14.30		2,627	*
14.40		2,742	*
14.50		2,934	3,976
	37/64	2,933	*
14.75		2,934	3,976
14.80		3,012	*
15.00		2,934	3,976
	19/32	2,933	*
15.10		3,062	*
15.20		2,933	*
15.25		2,982	4,033
15.30		2,982	*
	39/64	2,982	*
15.50		2,982	4,041
15.60		2,982	*
15.75		2,982	4,041
15.80		2,982	*
	5/8	2,982	4,033
16.00		3,049	4,131
16.20		3,130	*
16.25		3,049	4,131

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HSS TAPER SHANK DRILL IS : 5103 - 1969, DIN 345

SIZE		PRICE (RS)/NO	
MM	INCH	REGULAR (M2)	SUPER (M35)
	41/64	3,049	*
16.30		3,348	*
16.50		3,259	4,416
	21/32	3,259	*
16.75		3,259	4,416
16.80		3,260	*
17.00		3,259	4,416
	43/64	3,305	*
17.20		3,305	*
17.25		3,304	4,477
	11/16	3,304	*
17.50		3,425	4,640
17.75		3,465	4,640
17.80		3,625	*
	45/64	3,625	*
18.00		3,624	4,910
18.25		3,624	4,910
	23/32	3,624	*
18.50		3,624	4,910
	47/64	3,654	*
18.75		3,655	4,910
19.00		3,655	4,953
	3/4	3,655	4,394
19.20		3,590	*
19.25		3,840	4,953
	49/64	3,842	*
19.50		3,840	5,203
19.75		3,840	5,203
	25/32	3,840	*
20.00		4,127	5,592
	51/64	4,169	5,650
20.25		4,169	*
20.50		4,169	5,650
	13/16	4,169	*
20.70		4,475	*
20.75		4,359	7,904
20.90		4,359	*
21.00		4,359	5,906

SIZE		PRICE (RS)/NO	
MM	INCH	REGULAR (M2)	SUPER (M35)
21.25		4,476	6,058
	27/32	4,474	*
21.50		4,597	6,228
21.75		4,597	8,336
	55/64	4,380	*
22.00		4,685	6,349
22.22	7/8	4,685	6,349
22.25		5,108	9,262
22.50		5,108	6,921
	57/64	4,867	*
22.75		5,207	9,441
23.00		5,207	7,056
	29/32	5,207	*
23.25		5,460	9,901
23.50		6,214	8,420
23.75		6,214	11,268
	15/16	6,216	*
24.00		6,377	8,641
24.25		6,492	11,772
24.50		6,492	8,794
24.75		6,796	*
25.00		6,796	9,208
	63/64	10,862	
25.25		6,887	*
25.40		6,889	*
	1"	6,889	*
25.50		7,480	10,126
25.75		7,480	13,564
	1-1/64"	4,945	*
25.80		7,546	*
26.00		7,546	10,225
	1-1/32"	5,317	*
26.25		8,112	14,710
26.40		7,407	*
26.50		8,296	11,240
26.75		8,518	*
	1.1/16"	8,296	
27.00		8,561	11,601

SIZE		PRICE (RS)/NO	
MM	INCH	REGULAR (M2)	SUPER (M35)
27.25		8,579	15,557
27.50		8,579	11,616
27.75		8,578	*
28.00		9,427	12,773
	1-7/64"	6,179	*
28.20		9,427	*
28.25		9,427	17,094
28.50		9,427	12,773
	1.1/8	9,427	*
28.75		9,703	17,594
29.00		9,845	13,340
29.25		9,845	17,852
29.50		9,895	13,408
	1-11/64"	6,624	*
29.75		9,895	*
30.00		10,102	13,689
	1.3/16"	10,667	
30.25		11,486	20,827
30.50		11,486	15,552
30.75		11,671	15,815
31.00		12,985	17,585
31.25		13,570	*
31.50		13,570	18,388
31.75		13,570	24,608
	1.1/4	13,570	*
31.90		14,860	*
32.00		14,857	20,131
	1-17/64"	9,740	*
32.25		14,860	*
32.50		14,857	26,940
32.75		15,230	*
33.00		15,229	20,623
	1-25/64"	12,323	*
33.25		15,229	*
	1.5/16"	15,230	*
33.50		15,753	21,345
33.75		16,058	*
34.00		16,058	21,758

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HSS TAPER SHANK DRILL IS : 5103 - 1969, DIN 345

SIZE		PRICE (RS)/NO	
MM	INCH	REGULAR (M2)	SUPER (M35)
34.50		17,580	*
	1.3/8	17,721	*
35.00		17,721	24,012
	1.13/32"	18,800	*
35.50		18,801	*
36.00		19,079	25,852
	1.27/64"	19,451	*
36.50		19,449	*
	1.7/16"	30,668	
37.00		19,917	26,974
37.50		21,234	*
	1-31/64"	14,135	*
38.00		21,563	29,218
	1.1/2	21,563	*
	1.33/64	37,107	
38.50		22,215	*
	1-17/32"	15,426	*
39.00		23,532	31,866
39.50		23,532	*
	1.9/16	23,532	*
40.00		24,143	32,714
40.50		25,541	*
41.00		25,541	*
41.27	1.5/8	25,541	*
41.50		26,541	*
42.00		26,541	35,942
42.50		27,217	*
	1.25/32"	28,201	*
43.00		28,202	38,192
43.50		28,202	*
44.00		29,195	39,539
44.45	1.3/4	29,195	*
44.50		29,195	*
45.00		29,879	40,461
45.50		31,235	*
46.00		31,235	*

SIZE		PRICE (RS)/NO	
MM	INCH	REGULAR (M2)	SUPER (M35)
46.50		32,803	*
47.00		32,802	*
47.50		33,493	*
	1.7/8	33,493	*
48.00		36,523	*
48.50		36,796	*
49.00		36,796	*
49.50		37,183	*
50.00		37,183	50,356
50.50		39,168	*
	2	39,168	*
51.00		53,171	72,046
51.50		53,171	*
52.00		53,171	*
	2-1/32"	53,171	*
52.50		69,201	*
53.00		69,201	*
53.50		69,201	*
	2.1/8	69,201	*
54.00		69,201	93,767
54.50		72,694	*
	2-5/32"	72,694	*
55.00		72,694	*
55.50		72,694	*
	2.3/16"	1,14,626	
56.00		75,747	*
56.50		75,747	*
57.00		75,747	*
	2-7/32"	75,747	*
	2.1/4	75,747	*
57.50		82,669	*
58.00		82,669	*
58.50		82,669	*
	2.5/16	82,669	*
59.00		84,248	*
59.50		84,248	*

SIZE		PRICE (RS)/NO	
MM	INCH	REGULAR (M2)	SUPER (M35)
60.00		84,248	*
	2.3/8	84,248	*
60.50		89,550	*
61.00		89,550	*
61.50		89,550	*
62.00		89,550	*
62.50		89,550	*
	2-7/16"	89,550	*
63.00		91,058	*
63.50		91,058	*
	2.1/2	91,058	*
64.00		1,00,633	*
65.00		1,00,633	1,36,358
	2.9/16	1,00,633	*
66.00		1,01,389	*
	2.5/8	1,01,389	*
67.00		1,03,859	*
68.00		1,11,305	*
69.00		1,20,656	*
	2.3/4	1,20,656	*
70.00		1,20,656	*
	2-11/16"	1,20,656	*
	2-3/4"	1,20,656	*
71.00		1,30,172	*
	2-13/16"	1,30,172	*
71.50		2,05,259	
72.00		1,32,732	*
73.00		1,32,732	*
73.02	2.7/8	1,32,732	*
74.00		1,41,246	*
	2.15/16"	1,41,246	*
75.00		1,43,075	*
76.00		1,43,075	*
	3"	1,43,075	*

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HSS TAPER SHANK DRILLS - LONG SERIES

IS : 8305 - 1976 (TYPE N), DIN 341

SIZE	OAL	PRICE (RS)/NO	SIZE	OAL	PRICE (RS)/NO	SIZE	OAL	PRICE (RS)/NO
MM	MM		MM	MM		MM	MM	
5.00	155	*	13.50	223	4,621	24.50	327	*
5.16	155	*	14.00	223	4,808	25.00		14,254
5.56	161	*	14.29	245	*	25.40	327	*
6.00	161	*	14.50	245	*	25.50	335	*
6.35	167	*	15.00		6,014	26.00	335	14,823
6.50	167	*	15.50	251	*	26.50	335	*
6.80		2,205	15.87	251	*	27.00	343	*
7.00	174	*	16.00		6,442	27.50	343	*
7.50	174	*	16.50		6,553	28.00	343	*
7.80		2,407	17.00		13,755	28.50	351	*
7.94	181	*	18.50	269	*	29.00	351	*
8.00		2,407	19.00	269	*	29.50	351	*
8.50	181	*	19.05	275	*	30.00	351	*
9.00	188	*	19.50	275	7,722	30.50	360	*
9.50	188	*	20.00	275	7,853	31.00	360	*
9.52	197	*	20.50	282	*	31.50	360	*
9.80		3,095	21.00	282	8,131	32.00	397	*
10.00	197	3,096	21.43	289	*	32.50	397	*
10.50	197	3,185	21.50	289	*	33.00	397	*
11.00		3,253	21.75	289	*	34.00	406	*
11.11	206	*	22.00		9,637	34.50	406	*
11.50	206	*	22.22	289	*	35.00	406	*
12.00	215	*	22.50	296	*	36.00	416	*
12.50	215	*	23.00	296	*	38.00	426	*
12.70	215	*	23.50	319	13,178	38.10	426	*
13.00	215	4,221	24.00	327	*	40.00	426	*

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HSS TAPER SHANK TWIST DRILLS (EXTRA LONG SERIES)

IS : 7822 - 2005, BS 328

SIZES		PRICE (RS)/NO													
		OAL 200	OAL 225	OAL 235	OAL 250	OAL 275	OAL 300	OAL 315	OAL 325	OAL 350	OAL 370	OAL 375	OAL 400	OAL 450	OAL 500
MM	INCH	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE
6.00		2,121	*	*	*	*	*	*	*	*					
6.50		2,085													
7.00					3,431										
	5/16"	3,252													
8.00		3,252	*	*	*	*	3,299	*	*	*					
8.50		3,094	*	*	4,720	*	*	*	*	*					
9.00		2,777	*	*	3,833	*	*	5,589	*	*					
9.30		*	*	*	3,953	*	*	*	*	*					
9.50		*	*	*	3,505	*	*	*	*	*					
10.00	-	*	*	*	*	*	5,317	*	*	*					
10.50	-	3,185	*	*	4,221	*	*	*	*	*					
11.00	-	*	*	*	4,259	*	*	*	*	*					
11.50	7/16	*	*	*	*	*	*	*	*	*					
11.80							6,050								
12.00	-	*	*	*	*	*	*	*	6,944	*					
12.50	1/2	*	*	*	4,713	*	*	*	*	*					
13.00		*	*	*	5,591	*	7,276	8,271	*	*	*	*	*	*	*
13.50		*	*	3,557.00	5,771	*	*	*	*	9,823.00	*	*	*	*	*
14.00		*	*	*	5,964	*	7,971	*	*	*	*	*	12,456	*	*
14.50		*	*	*	6,002	*	8,084	*	*	10,006	*	*	*	*	*
15.00		*	*	*	*	*	8,285	*	*	10,211	*	*	12,879	16,833	*
15.50		*	*	*	*	*	*	*	*	10,367	*	*	13,052	*	*
15.80		*	*	*	*	*	8,140	*	*	*	*	*	*	*	*
16.00		*	*	*	*	*	*	*	*	*	*	*	13,322	*	*
16.50		*	*	*	*	*	8,298	*	*	10,701	*	*	*	*	*
17.00		*	*	*	*	*	8,783	*	9,486	10,873	*	*	*	*	*
17.50		*	*	*	*	*	*	*	*	11,083	*	*	13,914	17,892	
18.00		*	*	*	*	*	9,131	*	*	*	*	*	14,172	*	*
18.25							8,856								
18.50		*	*	*	*	*	9,276	*	*	11,357	*	*	*	*	*
19.00		*	*	*	*	*	*	*		11,549	*	*	*	*	*
19.50		*	*	*	*	*	*	*		*	*	*	*	*	*
20.00		*	*	*	*	*	9,280	*		*	*	*	*	18,995	23,206
20.50		*	*	*	*	*	*	*		12,092	*	*	*	*	*
21.00		*	*	*	*	*	*	*		*	*	*	15,575	*	*
21.50		*	*	*	*	*	9,824	*		*	*	*	15,870	*	*

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HSS TAPER SHANK TWIST DRILLS (EXTRA LONG SERIES)

IS : 7822 - 2005, BS 328

SIZES		PRICE (RS)/NO													
		OAL 200	OAL 225	OAL 235	OAL 250	OAL 275	OAL 300	OAL 315	OAL 325	OAL 350	OAL 370	OAL 375	OAL 400	OAL 450	OAL 500
MM	INCH	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE
22.00		*	*	*	*	*	10,035	*		*	*	*	16,138	*	*
22.50		*	*	*	*	*	*	*		13,018	*	*	*	*	*
23.00		*	*	*	*	*	*	*		*	*	*	*	*	*
23.50		*	*	*	*	*	*	*		*	*	*	*	*	*
24.00		*	*	*	*	*	*	*		14,584	*	*	17,766	*	*
24.50		*	*	*	*	*	*	*		*	*	*	*	*	*
25.00		*	*	*	*	*	*	*		*	*	*	*	23,506	*
25.50		*	*	*	*	*	*	*		*	*	*	*	*	*
26.00		*	*	*	*	*	*	*		*	*	*	20,139	*	*
26.50		*	*	*	*	*	*	*		*	*	*	*	*	*
27.00		*	*	*	*	*	*	*		*	*	*	*	*	*
27.50		*	*	*	*	*	*	*		*	*	*	*	*	*
28.00		*	*	*	*	*	*	*		*	*	*	22,480	*	33,001
28.50		*	*	*	*	*	*	*		*	*	*	*	*	
31.50		*	*	*	*	*	*	*		*	23,660		*	*	
32.00		*	*	*	*	*	*	*	*	*	*	*	*	*	38,616
33.00		*	*	*	*	*	*	*	*	*	*	*	27,830	*	*
34.00		*	*	*	*	*	*	*	*	*	*	*	*	*	*
35.00		*	*	*	*	*	*	*	*	*	*	*	*	*	*
36.00		*	*	*	*	*	*	*	*	*	*	*	*	*	*
37.00		*	*	*	*	*	*	*	*	*	*	*	*	*	*
38.00		*	*	*	*	*	*	*	*	*	*	*	*	*	*
39.00		*	*	*	*	*	*	*	*	*	*	*	*	*	*
40.00		*	*	*	*	*	*	*	*	*	*	*	*	*	*
41.00		*	*	*	*	*	*	*	*	*	*	*	*	*	*
42.00		*	*	*	*	*	*	*	*	*	*	*	*	*	*
43.00		*	*	*	*	*	*	*	*	*	*	*	49,365	*	*
44.00		*	*	*	*	*	*	*	*	*	*	*	*	*	*
45.00		*	*	*	*	*	*	*	*	*	*	*	*	*	*
46.00		*	*	*	*	*	*	*	*	*	*	*	*	*	*
47.00		*	*	*	*	*	*	*	*	*	*	*	*	*	*
48.00		*	*	*	*	*	*	*	*	*	*	*	*	*	*
49.00		*	*	*	*	*	*	*	*	*	*	*	*	*	*
50.00		*	*	*	*	*	*	*	*	*	*	*	*	*	77,244

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CUSTOMISED PARALLEL SHANK DRILLS

PRODUCT DESCRIPTION	PRICE (RS)/NO	PRODUCT DESCRIPTION	PRICE (RS)/NO
MM		MM	
DR-LONG 2.00 HSS SUPER M35	441	DR-ELS 4.50 X150X225 PL HSS M2	2,033
DR-HINOX STUB 4.0 MM M35 SUPER D-325	150	DR-ELS 6.00 X150X225 PL HSS M2	2,276
DR-HINOX STUB 1/8" M35 SUPER D-325)	98	DR-ELS 9.70 X250X300 PL HSS M2	5,447
DR-LONG 2.80X52X85 GOLD HSS M2	401	DR-ELS DIA 12.0X200X300 MM HSS M2	6,222
DR-LONG 4.20X52X85 GOLD HSS M2	373	DR-ELS 10.00X300X350 HSS M2	6,958
DR-LONG 5.10 GOLD HSS M2	607	DR-ELS 5.0X135X200 HSS M2	1,721
CENTRE DRILL A 2.0X5.0X100MM HSS M2	507	DR-ELS 5.5X135X200 HSS M2	1,819
CD TYPE-A 2.5X6.3X100 MM HSS M2	459	Extra length Drill, HSS Bright 4.80 x 160 mm OAL	1,223
CD TYPE-A 3.15 X 8 X 100 MM HSS M2	868	Extra length Drill, HSS Bright 1.80 x 125 mm OAL	430
CD TYPE-A 5.00X12.5X100 MM HSS M2	1,551	Extra length Drill, HSS Bright 5.80 x 160 mm OAL	1,429
Center Drill Form A 1.00 x 4.00 mm HSS Bright	277	DR-ELS 12.00X300X350 HSS M2	8,067
CD TYPE-B 4.00X14.00X100 MM HSS M2	2,776	DR-ELS 10.0X200X300 HSS M2	5,447
CD B55 3/16"X7/16"X85MM M2 (DRG-CT004	924	DR 9.0 X 120 X 150 M2 HIGH HELIX PA 130	879
CD TYPE-A 3.15X8.0MM HSS M35	732	DR-ELS, HSS STEAM TEMPERED 6.00 x 250 mm OAL	2,897
CD TYPE-R 3.15X8.0 MM HSS M35	682	DR-ELS, HSS STEAM TEMPERED 6.00 x 315 mm OAL	3,829
DR-ELS 8.0X170X250 HSS M2	3,940	DR-ELS, HSS STEAM TEMPERED 13.00 x 250 mm OAL	5,454
DR-ELS 8.0X200X300 HSS M2	4,721	DR-STUB 3.50 HSS STEAM BLUEING M2	78
DR-ELS 11.00 X 120 PL HSS M2	871	DR-STUB 4.20 HSS STEAM BLUEING M2	120
DR-ELS 14.00 X 125 PL HSS M2	1,759	DR-STUB 4.50 HSS STEAM BLUEING M2	158
DR-LS 9.90X100X150 PL HSS M2	1,083	DR-STUB 20.0X67X130 M2 GOLD 1MM FLAT ON	2,702
DR-ELS 8.0X125X160 M2 35°-HELIX-ANGLE	975	Stub Drill, Type N HSS ST 16.00 mm	1,719
DR-ELS 7.00X135X200 M2	2,256	Stub Drill, Type N HSS ST 18.00 mm	2,055
DR-ELS 3.00 X 150 X 225 PL HSS M2	1,750	Stub Drill, Type N HSS ST 9/16 Inch	1,651
DR-ELS 4.00 X150X225 PL HSS M2	2,030	Stub Drill, Type N HSS ST 5/8 Inch	1,789

CUSTOMISED TAPER SHANK DRILLS

PRODUCT DESCRIPTION	PRICE (RS)/NO	PRODUCT DESCRIPTION	PRICE (RS)/NO
MM		MM	
DR-LONG 14.60X125X180(OAL) HSS M2	2,114	DR-TS ELS 8.50 X 165 X 265(OAL) HSS M2	3,974
DRILL TS 14.00 M2 FLANGE DRILL	2,696	DR-TS ELS 29.50 X 200 X 320 HSS M2	11,876
DRILL TS 18.00 M2 FLANGE DRILL	3,720	HSS LS MTS DR 8.00X181 MM ST M35	3,252
DRILL TS 22.00 M2 FLANGE DRILL-DRG-406	4,811	DR-TS ELS 17.0X315 HSS M35	12,294
DRILL TS7/16 M2 FLANGE DRILL	4,811	DR-TS LS 11.50 X 135 X 225 PA120°	2,142
DRILL TS 15.50MMM2(DRG D-380)FOR CYC IND	1,928		

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**MASONARY DRILLS - CARBIDE TIPPED
(GROUND FLUTED & BRIGHT PLATED)**

SIZE		FLUTE LENGTH	OVER ALL LENGTH	PRICE (RS)/NO
MM	INCH			
3		40	76	63
	1/8	40	76	63
	5/32	45	85	72
4		45	85	72
	3/16	45	90	78
5		45	90	79
	7/32	45	90	97
	15/64	60	110	104
6		60	110	104
	1/4	60	110	104
6.5		60	110	104
7		60	110	195
	9/32	60	110	195
	5/16	80	120	168
8		80	120	168
	11/32	80	120	197
9		80	120	197
	3/8	80	120	197
10		80	120	197
	7/16	115	160	274
	15/32	115	160	244
12		115	160	244
	1/2	115	160	244
13		115	160	244

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HSS ENDMILLS

INTRODUCTION

HSS Endmills are able to perform multiple types of milling operations. They can be used for face milling, peripheral milling, keyway milling and slot milling. Additionally they can be used for plunging operations also. Our endmills are user- friendly, cost effective and easy to use with the choices available in diameter ranging from small to larger sizes, no of flutes and flute lengths.



- M2/M42
- 2 FL/4 FL/6 FL- CC/NCC
- 30° Right hand Helix
- IS:6352/6353-1991, BS-122-1953

FEATURES & BENEFITS

- ▶ Excellent heat and wear resistance properties
- ▶ Unique tool geometry increases tool life with accuracy
- ▶ HSS Co8 increases hot hardness and improves tool life and thus better productivity

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

DIA		4FL CC	4FL CC	6FL CC	6FL CC
MM	INCH	M2	M42	M2	M42
3.00		798	1,276	-	-
	1/8	798	*	-	-
3.50		*	*	-	-
	5/32	*	*	-	-
4.00		798	1,276	-	-
4.50		*	*	-	-
	3/16	*	*	-	-
5.00		798	1,276	-	-
5.50		*	*	-	-
6.00		894	1,428	-	-
	1/4	894	1,428	-	-
6.50		*	*	-	-
7.00	-	1,009	1,615	-	-
7.50		*	*	-	-
	5/16	*	*	-	-
8.00		1,009	1,615	-	-
8.50		*	*	-	-
9.00		1,009	1,615	-	-
9.50		*	*	-	-
	3/8	1,009	*	-	-
10.00	-	1,009	1,615	-	-
10.50		*	*	-	-
11.00		1,009	1,615	-	-
	7/16	*	*	-	-
11.50		*	*	-	-
12.00		1,043	1,668	-	-
12.50		*	*	-	-
	1/2	*	*	-	-
13.00	-	1,188	*	-	-
13.50		*	*	-	-
14.00		1,293	2,074	-	-
	9/16	*	*	-	-
14.50		*	*	-	-
15.00	.	1,503	2,408	-	-
15.50		*	*	-	-
	5/8	*	*	-	-
16.00		1,512	2,419	-	-
16.50		*	*	-	-
17.00	-	*	*	-	-
18.00	-	1,834	2,938	-	-
18.50		*	*	-	-

DIA		4FL CC	4FL CC	6FL CC	6FL CC
MM	INCH	M2	M42	M2	M42
19.00		1,834	*	-	-
	3/4	*	*	-	-
19.50		*	*	-	-
20.00		*	*	2,032	3,250
	13/16	-	-	*	*
21.00	-	-	-	*	*
22.00		-	-	2,305	*
	7/8	-	-	*	*
23.00	-	-	-	*	*
24.00	-	-	-	2,503	4,005
25.00		-	-	2,687	4,295
	1"	-	-	*	*
26.00	-	-	-	2,792	4,466
27.00	.	-	-	*	*
	1.1/8	-	-	*	*
28.00		-	-	3,834	*
29.00	-	-	-	*	*
30.00	-	-	-	4,216	*
30.50		-	-	*	*
	1.1/4	-	-	*	*
31.00		-	-	*	*
32.00		-	-	4,598	*
33.00	-	-	-	*	*
	1.3/8	-	-	*	*
34.00		-	-	*	*
35.00	-	-	-	*	*
36.00	-	-	-	6,054	*
37.00	-	-	-	*	*
38.00	-	-	-	*	*
39.00	-	-	-	*	*
40.00	-	-	-	7,838	*
41.00	1.5/8	-	-	*	*
42.00	-	-	-	8,622	*
43.00	-	-	-	*	*
45.00	1.3/4	-	-	10,001	*
46.00	-	-	-	*	*
47.00	1.7/8	-	-	*	*
48.00	-	-	-	11,603	*
49.00	-	-	-	*	*
50.00	-	-	-	12,762	*

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HSS PARALLEL SHANK ENDMILLS, IS 6353 - 1991 & BS - 122 (PART -1) 1953 NON-CENTER CUT ENDMILLS

DIA		4FL NCC	4FL NCC	6FL NCC	6FL NCC
MM	INCH	M2	M42	M2	M42
3.00		798	1,276	-	-
	1/8	798	*	-	-
3.50		798	*	-	-
	5/32	798	*	-	-
4.00		798	1,276	-	-
4.50		798	1,276	-	-
	3/16	798	*	-	-
5.00		798	1,276	-	-
5.50		894	*	-	-
6.00		894	1,428	-	-
	1/4	894	1,428	-	-
6.50		1,010	*	-	-
7.00	-	1,009	1,615	-	-
7.50		1,010	*	-	-
	5/16	1,009	1,615	-	-
8.00		1,010	1,615	-	-
8.50		1,010	*	-	-
9.00		1,010	1,615	-	-
9.50		1,010	*	-	-
	3/8	1,009	1,615	-	-
10.00	-	1,009	1,615	-	-
10.50		1,010	*	-	-
11.00		1,009	1,615	-	-
	7/16	1,009	*	-	-
11.50		1,045	*	-	-
12.00		1,043	1,668	-	-
12.50		1,188	*	-	-
	1/2	1,043	1,668	-	-
13.00	-	1,188	1,895	-	-
13.50		1,303	*	-	-
14.00		1,293	2,074	-	-
	9/16	1,293	*	-	-
14.50		1,504	*	-	-
15.00	.	1,504	2,408	1,503	*
15.50		1,512	*	*	*
	5/8	1,512	2,419	*	*
16.00		1,512	2,419	1,512	2,419
16.50		1,655	*	*	*
17.00	-	1,655	2,649	1,655	*
18.00	-	1,834	2,938	1,834	2,938
18.50		1,834	*	*	*

DIA		4FL NCC	4FL NCC	6FL NCC	6FL NCC
MM	INCH	M2	M42	M2	M42
19.00		1,834	2,938	1,834	*
	3/4	1,834	2,938	1,834	*
19.50		2,032	*	*	*
20.00		2,032	3,250	2,032	3,250
	13/16	*	*	2,032	*
21.00	-	2,286	*	2,286	3,663
22.00		2,305	3,687	2,305	3,687
	7/8	2,305	*	2,305	3,687
23.00	-	2,503	*	2,503	*
24.00	-	2,503	*	2,503	4,005
25.00		2,687	4,295	2,687	4,295
	1"	2,687	*	2,687	4,295
26.00	-	2,792	*	2,792	4,466
27.00	.	*	*	3,284	*
	1.1/8	*	*	2,032	*
28.00		3,834	*	3,834	6,132
29.00	-	*	-	3,834	*
30.00	-	*	-	4,216	6,749
30.50		*	-	6,221	*
	1.1/4	*	-	2,179	*
31.00		*	-	4,598	*
32.00		4,598	-	4,598	7,358
33.00	-	-	-	5,093	*
	1.3/8	-	-	2,179	*
34.00		-	-	5,553	*
35.00	-	-	-	5,553	8,883
36.00	-	-	-	6,054	*
37.00	-	-	-	6,523	*
38.00	-	-	-	6,955	*
39.00	-	-	-	*	*
40.00	-	-	-	7,838	12,538
41.00	1.5/8	-	-	*	*
42.00	-	-	-	8,916	*
43.00	-	-	-	*	*
45.00	1.3/4	-	-	9,989	*
46.00	-	-	-	*	*
47.00	1.7/8	-	-	*	*
48.00	-	-	-	13,650	*
49.00	-	-	-	*	*
50.00	-	-	-	12,084	*

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HSS PARALLEL SHANK SLOT DRILLS

IS 6352 - 1991 & BS-122 (PART -1) 1953

DIA		M2	M42
MM	INCH		
3		972	1,557
	1/8	972	*
3.5		972	*
	5/32	*	1,557
4		972	1,557
4.5		972	*
	3/16	972	1,557
5		972	1,557
5.5		1,043	*
6		1,043	1,672
	1/4	1,043	1,672
6.5		1,043	*
7	-	1,043	1,672
7.5		1,043	*
	5/16	1,043	1,672
8		1,043	1,672
8.5		1,045	*
9		1,043	1,672
9.5		1,079	*
	3/8	1,043	1,672
10	-	1,078	1,723
10.5		1,078	*
11		1,078	1,723
	7/16		*
11.5		1,182	*
12		1,182	1,891
12.5		1,433	*
	1/2	1,182	1,891
13	-	1,512	*
13.5		*	*
14		1,512	2,422
	9/16	*	*
14.5		*	*
15	.	1,704	2,730
15.5			
	5/8	1,702	2,724
16		1,704	2,724
16.5		*	*
17	-	2,094	
18	-	2,094	3,345
18.5		*	*

DIA		M2	M42
MM	INCH		
19		2,094	*
	3/4	2,094	3,345
19.5		*	*
20		2,094	3,345
	13/16	*	*
20.5		2,405	
21	-	2,443	
22		2,443	3,908
	7/8	2,443	*
23	-	2,962	*
24	-	2,902	4,645
25		2,902	4,645
	1"	*	*
26	-	4,098	6,559
27	.	*	*
	1.1/8	*	*
28		5,031	8,052
29	-	*	*
30	-	5,034	*
30.5		*	*
	1.1/4	*	*
31		*	*
32		5,034	8,052
33	-	*	*
	1.3/8	*	*
34		*	*
35	-	*	*
36	-	6,498	10,398
37	-	*	*
38	-	*	*
39	-	*	*
40	-	7,496	11,994
41	1.5/8	*	*
42	-	*	*
43	-	*	*
45	1.3/4	*	*
46	-	*	*
47	1.7/8	*	*
48	-	*	*
49	-	*	*
50	-	*	*

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

DIA	4FL CC	4FL CC	6FL CC	6FL CC	4FL NCC	4FL NCC	6FL NCC	6FL NCC
MM	M2	M42	M2	M42	M2	M42	M2	M42
3.00	*	*	-	-	1,036	*	-	-
4.00	1,036	1,659	-	-	1,036	1,659	-	-
5.00	1,036	1,659	-	-	1,036	*	-	-
6.00	1,163	1,860	-	-	1,163	1,780	-	-
7.00	*	*	-	-	1,314	*	-	-
8.00	1,314	2,098	-	-	1,314	2,098	-	-
9.00	*	*	-	-	1,314	*	-	-
10.00	1,314	2,098	-	-	1,314	2,098	-	-
11.00	*	*	-	-	1,831	*	-	-
12.00	1,355	2,168	-	-	1,355	2,168	-	-
13.00	1,966	*	-	-	*	*	-	-
14.00	*	2,692	-	-	1,684	2,692	-	-
15.00	1,966	*	-	-	2,664	*	-	-
16.00	1,966	3,143	-	-	1,966	3,143	-	-
17.00	*	*	-	-	3,646	*	-	-
18.00	*	3,816	-	-	2,385	3,816	-	-
19.00	*	*	*	*	2,643	*	-	-
20.00	*	*	2,643	4,227	2,643	*	2,643	4,227
21.00	-	-	-	5,588	*	-	*	*
22.00	-	-	*	*	2,998	-	*	4,794
23.00	-	-	*	*	5,359	-	*	*
24.00	-	-	*	*	*	-	*	*
25.00	-	-	*	4,794	3,492	-	*	5,588
26.00	-	-	*	*	*	-	*	5,805
27.00	-	-	*	*	*	-	*	*
28.00	-	-	*	*	*	-	*	7,974
29.00	-	-	*	*	*	-	*	*
30.00	-	-	*	*	5,484	-	*	8,774
31.00	-	-	*	*	-	-	*	*
32.00	-	-	*	*	-	-	*	*

HSS PARALLEL SHANK ROUGHING ENDMILLS - : M42 4 FLUTES IS : 6353 - 1991

SIZE	PRICE (RS)/NO	
MM	STANDARD SERIES M42 NCC COARSE	STANDARD SERIES M42 NCC FINE
6.00	2,885	2,001
8.00	2,885	1,303
10.00	2,885	2,479
12.00	2,885	2,876
14.00	4,387	5,051
16.00	5,104	5,104
18.00	6,192	6,221
20.00	6,945	6,945
22.00	7,449	7,484
25.00	8,781	8,726
28.00	11,842	12,449
30.00	13,625	13,690

HSS PARALLEL SHANK BALL NOSE ENDMILL IS : 6353 - 1991

SIZE	PRICE (RS)/NO	
MM	STANDARD 4 FL M2	STANDARD 4 FL M42
4.00	1,041	*
5.00	1,041	*
6.00	1,116	*
8.00	1,263	*
10.00	1,263	*
12.00	1,303	*
13.00	*	2,511
14.00	1,624	2,604
16.00	1,890	3,060
18.00	2,286	*
20.00	2,571	*
22.00	*	*
25.00	3,359	*
28.00	*	*
30.00	*	*

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M42 TIALN COATED CENTER CUT ENDMILLS

PRODUCT DESCRIPTION	PRICE (RS)/NO	PRODUCT DESCRIPTION	PRICE (RS)/NO
ENDMILL 5X6X13X57X4F PLSHK CC M42 TIALN COATE	1,603	ENDMILL 13X12X26X83X4F PLSHK CC M42 TIALN COA	2,869
ENDMILL 6X6X13X57X4F PLSHK CC M42 TIALN COATE	1,756	ENDMILL 14X12X26X83X4F PLSHK CC M42 TIALN COA	3,047
ENDMILL 6.5X10X16X66X4F PLSHK CC M42 TIALN CO	2,214	ENDMILL 15X12X26X83X4F PLSHK CC M42 TIALN COA	3,381
ENDMILL 8X10X19X69X4F PLSHK CC M42 TIALN COAT	2,214	ENDMILL 16X16X32X92X4F PLSHK CC M42 TIALN COA	3,393
ENDMILL 10X10X22X72X4F PLSHK CC M42 TIALN COA	2,400	ENDMILL 18X16X32X92X4F PLSHK CC M42 TIALN COA	4,500
ENDMILL 11X12X22X79X4F PLSHK CC M42 TIALN COA	2,586	ENDMILL 20X20X38X104X4F PLSHK CC M42 TIALN CO	4,814
ENDMILL 12X12X26X83X4F PLSHK CC M42 TIALN COA	2,639	ENDMILL 25X25X45X121X6F PLSHK CC M42 TIALN CO	7,409

CUSTOMISED ENDMILLS & SLOTDRILLS

PRODUCT DESCRIPTION	PRICE (RS)/NO	PRODUCT DESCRIPTION	PRICE (RS)/NO
ENDMILL- 1/8"X4X10 X48 X4F PLSHK NCC M2	798	SLOT DRILL - 20X20X80X220X2F LS NCC M2	3,056
ENDMILL- 10.4X12X22X79X4F NCC M2	1,010	SLOT DRILL- 10X10X28X73X2F HSS	3,642
ENDMILL 3.5(+0.1/-0) MMX4F STDPLSHK NCC M35	1,086	SLOT DRILL- 16X16X63X180X2F M2	3,961
ENDMILL 12.10 MM X4F LONG PLSHK NCC M2	1,173	T/S ENDMILL 22XMT2X38X123X6F HSS NCC	3,983
SLOT DRILL - 5X6X13X57X2F BALL NOSE TIN COATED M2	1,380	ENDMILL 16X16X65X105X5F S/S CC M42 TIN	4,096
ENDMILL 12X12X50X100X4F BALL NOSE PLSHK M2	1,765	ENDMILL 20 MM X6F BALL NOSE STDPLSHK CC M42	4,106
ENDMILL- 3/8" M2/NCC/4F/LONG	1,770	ENDMILL- 32X25X53X133X6F NCC M2	4,598
ENDMILL- 8X10X19X69X4F WF NCC M42	1,778	ROUGHING ENDMILL CC COARSE 16 MM X4F STDPLSHK M42	5,104
ENDMILL- 10X10X22X72X4F WF NCC M42	1,778	ENDMILL 20X20X75X125X5F S/S CC M42 TIN	5,615
ENDMILL-16X16X70X160X4F LS NCC M2	2,163	SLOT DRILL- 16X16X63X220X2F PLSHK CC M2	5,678
ENDMILL- 16XMT2X32X124X4F TANG END NCC M2	2,260	ROUGHING ENDMILL 16 MM X4F LONGPLSHK M42	6,952
ENDMILL- 7/8X3/4X1.5/8X3.5/8X4F P/SNCC M2, 4 FLUTE	2,304	ENDMILL 1"X1"X4"X6.1/2X3F WFSHK BALL NOSE M2	7,534
ENDMILL-16X16X80X200X4F LS NCC M2	2,342	ENDMILL 25X25X75X130X5F S/S CC M42 TIN	7,866
ENDMILL 20 MM X6F BALL NOSE STDPLSHK CC M2	2,542	ROUGHING ENDMILL CC COARSE 20X20X75X135X4F M42	7,878
ENDMILL- 20X16X38X104X6F WF M42	2,604	ENDMILL 1"X1"X4"X6.1/2X3F WFSHK B/N M42	12,051
ENDMILL- 18XMT2X32X124X4F TANG END NCC M2	2,751	ENDMILL 50 MM X4F BALL NOSE STDPLSHK CC M2	15,105
ENDMILL-20X20X70X210X4F LS NCC M2	2,907	ROUGHING ENDMILL 25X25X75X130X5F S/S CC M42 COARSE TIN	15,344
ENDMILL- 20XMT2X38X130X4F TANG END NCC M2	3,048	SHELL ENDMILL 80X27X45 HSS M2	16,945

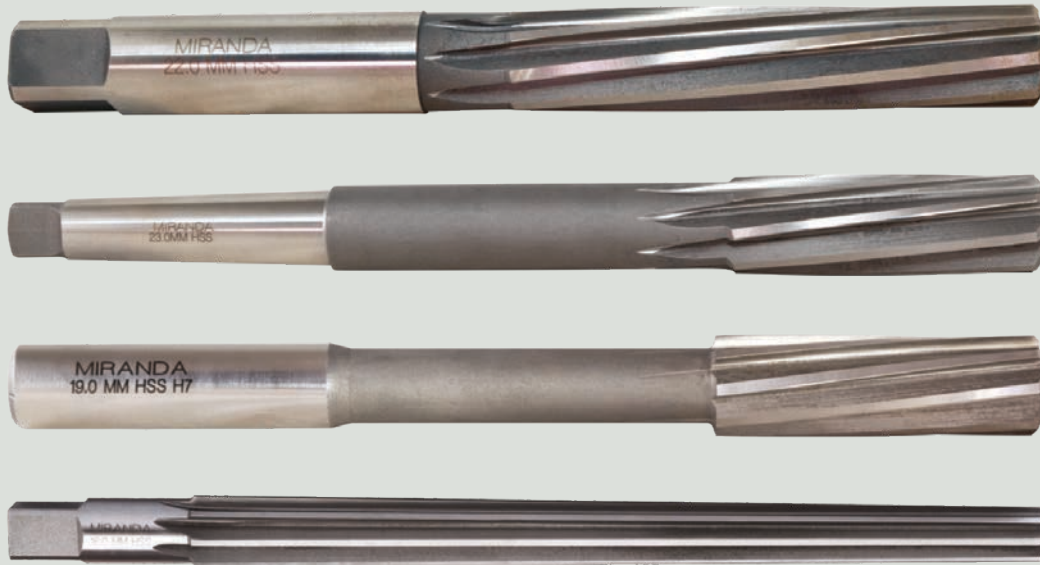
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HSS REAMERS

INTRODUCTION

HSS Reamers are end cutting tool with right handed spiral flutes used to finish predrilled holes in ferrous and non-ferrous material. It helps to get better accuracy in pre-drilled hole.



- Supplied in H7 tolerance
- Bevel lead 45°
- Helix angle 7° Left hand helix/Right hand cut
- IS : 5444/5445/5446/5447-1978

FEATURES & BENEFITS

- ▶ Superior performance in a wide variety of materials
- ▶ Consistent quality & Longer tool life
- ▶ Superior surface finish
- ▶ Variants available HSS Hand Reamers, HSS Machine Reamers, HSS Chucking reamers, Taper PIN Reamers, Bridge reamers

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HSS REAMERS WITH H7 TOLERANCE BS 328, IS 5444, IS 5445

SIZE		PRICE (RS)/NO		
DIAMETER		HSS HAND REAMER	HSS M42 HAND REAMER	TAPER SHK M/C REAMER
MM	INCH			
3.00		1,381	1,727	*
	1/8	1,380	*	*
3.50		*	1,727	*
3.80		*	1,727	*
4.00	-	1,380	1,727	1,380
4.20		1,380	*	*
4.70		*	1,727	*
	3/16	1,380	*	1,380
4.50	-	1,380	*	1,380
4.80		1,380	*	*
4.90		*	1,999	*
5.00	-	1,380	1,727	1,380
5.50		1,381	1,727	1,381
	7/32	1,380	*	1,380
5.70		*	1,727	*
5.80		*	1,727	*
5.90		*	2,012	*
6.00	-	1,607	2,012	1,607
6.10		1,609	2,012	*
6.30		1,607	*	*
	1/4	1,607	*	1,607
6.50		1,609	*	1,609
7.00	-	1,607	*	1,607
	9/32	1,830	*	*
7.50		1,830	*	1,830
	5/16	1,830	*	1,830
7.80		*	2,292	*
8.00	-	1,830	2,292	1,830
8.10		*	*	6,007
8.50		1,922	2,407	1,922
	11/32	1,922	*	1,922
9.00	-	1,922	2,407	1,922
9.50		2,090	*	2,090
	3/8	1,993	*	2,088
9.80		*	2,617	*
9.90		*	2,617	*

SIZE		PRICE (RS)/NO		
DIAMETER		HSS HAND REAMER	HSS M42 HAND REAMER	TAPER SHK M/C REAMER
MM	INCH			
10.00	-	2,315	2,900	2,315
10.10		*	*	2,315
	13/32	2,315	*	2,315
10.40		2,594	*	*
10.50		2,594	*	2,594
10.58		2,724	*	*
10.60		*	*	2,725
11.00	-	2,594	3,248	2,594
	7/16	2,594	*	2,594
11.50		2,704	*	2,704
	15/32	2,253	*	2,704
12.00	-	2,704	*	2,704
12.06		*	*	2,704
12.08		*	*	2,704
12.50		2,795	*	2,795
	1/2	2,795	*	2,795
13.00	-	3,409	*	3,409
	17/32	*	*	*
13.50		3,409	*	3,409
14.00	-	3,409	*	3,409
	9/16	3,409	*	3,409
14.50		3,427	*	3,427
15.00	-	3,429	*	3,429
	19/32	3,429	*	*
15.50		3,427	*	3,429
	5/8	3,429	*	3,429
16.00	-	3,429	*	3,429
16.10		3,960	*	*
16.40		*	*	4,071
16.50		3,960	*	3,960
16.80		*	*	3,960
16.85		*	*	3,960
16.90		*	*	3,960
17.00	-	3,960	*	3,960
	11/16	3,960	*	3,960
17.50		4,237	*	4,237

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HSS REAMERS WITH H7 TOLERANCE BS 328, IS 5444, IS 5445

SIZE		PRICE (RS)/NO		
DIAMETER		HSS HAND REAMER	HSS M42 HAND REAMER	TAPER SHK M/C REAMER
MM	INCH			
18.00	-	4,237	*	4,237
	23/32	4,496	*	*
18.30		*	*	4,622
18.50		4,496	*	4,494
19.00	-	4,496	*	4,496
	3/4	4,496	*	4,496
19.50		5,026	*	5,026
19.85		*	*	5,166
20.00	-	5,026	*	5,026
	13/16	5,124	*	*
20.50		5,124	*	*
20.70		*	*	5,674
21.00	-	5,674	*	5,674
21.50		*	*	5,674
22.00	-	5,674	*	5,674
22.02		*	*	5,674
22.10		*	*	5,674
	7/8	5,674	*	5,674
22.50		*	*	6,642
22.60		*	*	6,638
23.00	-	6,638	*	6,638
23.50		*	*	7,350
	15/16	7,350	*	*
24.00	-	7,350	*	7,350
24.10		*	*	7,350
24.50		7,371	*	7,371
24.70		*	*	7,372
25.00	-	7,371	*	7,371
	1	7,510	*	7,510
25.50		9,101	*	*
26.00	-	9,101	*	9,101
26.70		*	*	10,423
	1.1/16	10,423	*	*
27.00	-	10,423	*	10,423
28.00	-	10,423	*	10,423
	1.1/8	10,423	*	*
29.00	-	11,051	*	11,051
30.00	-	11,921	*	11,921
	1.3/16	11,921	*	*
30.70		*	*	13,162

SIZE		PRICE (RS)/NO		
DIAMETER		HSS HAND REAMER	HSS M42 HAND REAMER	TAPER SHK M/C REAMER
MM	INCH			
31.00	-	13,162	*	13,162
	1.1/4	13,162	*	13,162
31.50		*	*	13,162
32.00	-	13,162	*	13,162
33.00	-	14,956	*	14,956
	1.5/16	14,956	*	*
34.00	-	16,788	*	*
	1.3/8	18,366	*	*
34.70		*	*	18,367
35.00	-	18,366	*	18,366
35.70		*	*	18,367
36.00	-	18,366	*	18,366
	1.7/16	18,519	*	*
37.00	-	20,172	*	20,172
37.80		*	*	20,173
38.00	-	20,172	*	20,172
	1.1/2	20,172	*	20,172
39.00	-	22,304	*	*
39.50		*	*	24,353
	1.9/16	24,353	*	*
40.00	-	24,353	*	24,353
40.15		*	*	24,353
40.20		*	*	38,984
41.00	-	24,588	*	*
	1.5/8	24,588	*	*
42.00	-	28,958	*	*
	1.11/16	28,958	*	*
43.00	-	28,958	*	*
44.00	-	28,958	*	*
	1.3/4	28,958	*	*
45.00	-	33,927	*	33,927
46.00	-	33,927	*	*
47.00	-	36,646	*	*
	1.7/8	39,358	*	*
48.00	-	39,358	*	*
49.00	-	39,358	*	*
	1.15/16	39,358	*	*
50.00	-	39,358	*	39,358
	2	39,358	*	*

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HSS TAPER PIN HAND REAMERS (TAPER 1 IN 50) IS 5881

DIAMETER (MM)	PRICE (RS)/NO
5	1,380
6	1,607
8	1,830
10	2,315
12	2,704
14	*
16	3,429
20	5,026
24	7,350
25	7,371
26	*
28	10,423

DIAMETER (MM)	PRICE (RS)/NO
30	*
32	13,162
34	16,788
36	18,366
38	20,172
40	24,353
42	28,958
44	28,958
46	33,927
48	39,358
50	39,358

HSS TAPER PIN HAND REAMERS (TAPER 1 IN 48) BS (DIN 9)

DIAMETER (INCH)	PRICE (RS)/NO
1/4"	1,607
5/16"	*
3/8"	*
13/32"	4,347
7/16 "	2,315

DIAMETER (INCH)	PRICE (RS)/NO
1/2"	*
5/8 "	2,594
3/4 "	4,496
7/8 "	5,674

CUSTOMISED REAMERS

PRODUCT DESCRIPTION	PRICE (RS)/NO
Taper Shank HSS Chucking Reamer 5.00 mm	1,380
TAPER SHK CHUCKING REAMER 5.0 MM HSS M2	1,380
Parallel Shank HSS Chucking Reamer 4.00 mm	1,381
Parallel Shank HSS Chucking Reamer 6.00 mm	1,609
Taper Shank HSS Chucking Reamer 8.00 mm	1,830
Parallel Shank Hand Reamer 6.35X6.35X50X100X6F(H7) M35	2,088
Parallel shank Hand Reamer 13/32" x 8 Flute	2,315
Taper Shank HSS Chucking Reamer 10.00 mm	2,315
Parallel Shank HSS Chucking Reamer 10.00 mm	2,315
Taper Shank HSS Chucking Reamer 12.00 mm	2,704
HSS Machine Reamer 11.9x11.94 mm DWG R 047	2,704
HSS Machine Reamer 11.7x11.8 mm DWG R 048	2,704
Parallel Shank HSS-E (M35) Chucking Reamer 6.30 mm	2,977
TAPER SHK M/C REAMER 10.0 MM HSS M42	3,005
BS (DIN 9) Taper Pin Hand Reamer- 5/16" HSS M2 FORM A	3,377
Parallel Shank HSS Chucking Reamer 14.00 mm	3,409
Parallel Shank HSS Chucking Reamer 14.00 mm	3,409
Parallel Shank HSS-E (M35) Chucking Reamer 8.20 mm	3,800
Taper Shank HSS Bridge Reamer 13.50 mm	4,091
Taper Shank HSS Bridge Reamer 13.5XMT2X115X209X5F ST. FLUTE M2	4,091

PRODUCT DESCRIPTION	PRICE (RS)/NO
TAPER SHK M/C REAMER 14.0 MM HSS M42	4,430
TAPER SHK M/C REAMER 16.0 MM HSS M42	4,467
Taper Shank HSS-E Chucking Reamer TiAlN 11.00 mm	4,574
Parallel Shank HSS-E (M35) Chucking Reamer 10.20 mm	5,060
BS (DIN 9) Taper Pin Hand Reamer- 1/2" HSS M2 FORM A	5,074
IS 5881 HSS Taper Pin Hand Reamers Form B 8 flutes	5,410
IS 5445 HSS TS Long Fluted Machine Reamers, (non-standard lengths) 10.00 mm	5,461
IS 5445 HSS TS Long Fluted Machine Reamers, (non-standard lengths) 10.05 mm	5,461
IS 5881 (DIN 9) Taper Pin Hand Reamer- HSS M2 FORM A - 14 mm	6,089
Taper Shank HSS Bridge Reamer 17.50 mm	6,960
Taper Shank Machine reamer 1" x 10 Flutes	7,510
Taper Shank HSS Bridge Reamer 22.00 mm	7,692
Taper Shank HSS Bridge Reamer 21.50 mm	8,615
Taper Shank HSS Bridge Reamer 23.50 mm	9,641
Taper Shank HSS Bridge Reamer 25.50 mm	10,203
Taper Shank Machine Reamer - 28.2 MM HSS M2 CORE DIA VARIATION	10,423
Taper Shank Machine Reamer - 25.2XMT3X175X302X10F HSS M2	11,054
IS 5881 (DIN 9) Taper Pin Hand Reamer- HSS M2 FORM A - 30 mm	15,052

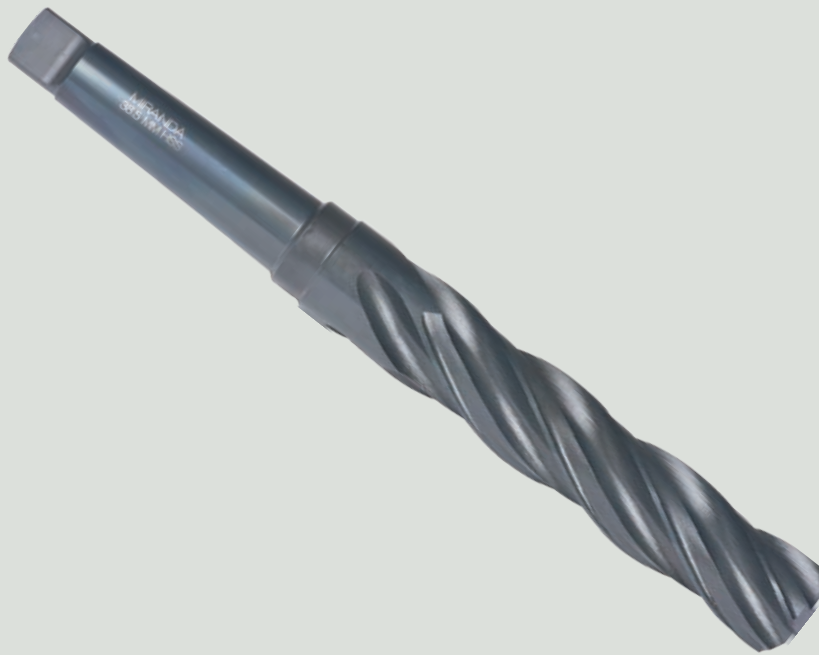
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HSS CORE DRILLS

INTRODUCTION

HSS TS Core drills are designed to enlarge previously drilled, cored or punch holes to improve accuracy of holes. Three and four flute core drills have better hole size than two flute drills and produce a very good surface finish.



- Supplied in H7 tolerance
- Bevel lead 45°
- Helix angle 7° Left hand helix/Right hand cut
- IS 5366-1978, ISO 7079-1981, DIN 343-1981, BS 328-1959

FEATURES & BENEFITS

- ▶ Specially designed flutes for longer life and heat resistance in general application
- ▶ Smooth Flutes help faster evacuation of chips and thus better accuracy.

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**HIGH SPEED STEEL
TAPER SHANK CORE DRILLS
IS 5366 - 1978, ISO 7079 - 1981, DIN 343 - 1981, BS 328 - 1959**

DIA		PRICE (RS)/NO	
MM	INCH	M2	M35
14.00		*	*
14.29	9/16	*	*
14.50		2,999	4,094
15.00		*	*
15.08	19/32	*	*
15.87	5/8	*	*
16.00		*	*
16.50		3,245	4,411
16.65		3,230	*
16.67	21/32	*	*
17.00		3,245	*
17.46	11/16	*	*
18.00		*	*
18.26	23/32	*	*
18.50		4,306	5,860
18.65		4,292	*
19.00		4,306	*
19.05	3/4	*	*
19.20		9,085	*
19.25		9,085	*
19.84	25/32	*	*
20.00		4,976	*
20.50		4,625	*
20.64	13/64	*	*
20.65		4,615	*
21.00		*	*
21.43	27/32	*	*
22.00		4,976	*
22.22	7/8	*	*
22.50		5,490	7,470
22.65		5,475	*
23.00		5,490.00	*
23.02	29/32	*	*
23.81	15/16	*	*
24.00		*	*
	31/32	6,264	
25.00		*	*
25.40	1	7,279	*
26.00		*	*
26.19	1.1/32	*	*
26.99	1.1/16	*	*
27.00		8,670	*
27.78	1.3/32	*	*
28.00		9,532.00	*
28.50		9,536	*

DIA		PRICE (RS)/NO	
MM	INCH	M2	M35
28.57	1.1/8	*	*
28.60		9,970	*
28.65		9,970.00	*
29.00	1.5/32	9,969	*
29.37		*	*
30.00	1.3/16	10,790	*
30.16	1.7/32	*	*
30.96		*	*
31.00		*	*
31.75	1.1/4	*	*
32.00		*	*
32.54	1.9/32	*	*
33.00		*	*
33.34	1.5/16	*	*
34.00		*	*
34.13	1.11/32	*	*
34.92	1.3/8	*	*
35.00		17,033	*
35.72	1.13/32	*	*
36.00		17,999	*
36.50		18,988	*
36.51	1.7/16	*	*
36.65		18,988	*
37.00		*	*
37.31	1.15/32	*	*
38.00		20,888	*
38.10	1.1/2	*	*
38.50		22,907	*
39.00		22,907	*
39.69	1.9/16	*	*
40.00		*	*
41.00		*	*
41.27	1.5/8	*	*
42.00		25,998	*
42.07	1.21/32	*	*
42.86	1.11/16	*	*
43.00		*	*
44.00		*	*
44.45	1.3/4	*	*
45.00		*	*
45.24	1.25/32	*	*
45.50		30,450	*
46.00		30,450	*
46.04	1.13/16	*	*
47.00		*	*

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**HIGH SPEED STEEL
TAPER SHANK CORE DRILLS
IS 5366 - 1978, ISO 7079 - 1981, DIN 343 - 1981, BS 328 - 1959**

DIA		PRICE (RS)/NO	
MM	INCH	M2	M35
47.62	1.7/8	*	*
48.00		*	*
49.00		*	*
49.21	1.15/16	*	*
50.00		*	*
50.80	2	*	*
51.00		*	*
52.00		*	*
52.39		*	*
53.00		*	*
53.97	2.1/8	*	*
54.00		*	*
55.00		*	*
55.56	2.3/16	*	*
56.00		*	*
57.00		*	*
57.15	2.1/4	*	*
58.00		*	*
58.74	2.5/16	*	*
59.00		*	*
60.00		*	*
60.32	2.3/8	*	*
61.00		*	*
61.91	2.7/16	*	*

DIA		PRICE (RS)/NO	
MM	INCH	M2	M35
62.00		*	*
63.00		*	*
63.50	2.1/2	*	*
64.00		*	*
65.00		*	*
65.09	2.9/16	*	*
66.00		*	*
66.67	2.5/8	*	*
67.00		*	*
68.00		*	*
68.26	2.11/16	*	*
69.00		*	*
69.85	2.3/4	*	*
70.00		*	*
71.00		*	*
71.44	2.13/16	*	*
72.00		*	*
73.00		*	*
73.02	2.7/8	*	*
74.00		*	*
74.61	2.15/16	*	*
75.00		*	*
76.00		*	*
76.20		*	*

CUSTOMISED TAPERSHANK CORE DRILLS

PRODUCT DESCRIPTION	PRICE (RS)/NO
0 TSCD 18.53XMT2X135X233X4F HSS M2	4,347
TSCD 19.45XMT2X250X348X4F HSS M2	9,085
TSCD 20.53XMT2X145X243X4F HSS M2	4,914
TSCD 22.53XMT2X150X248X4F HSS M2	5,513
TSCD 31/32"XMT3X160X281X4F HSS M35	10,101
TSCD 28.53XMT3X170X291X4F HSS M2	8,642
TSCD 25.67XMT3X250X371X4F HSS M2	14,516
TSCD 25.70XMT3X250X371X4F HSS M2	14,516
TSCD 32.06XMT4X250X399X4F HSS M2	24,205

PRODUCT DESCRIPTION	PRICE (RS)/NO
TSCD 36XMT4X195X344X4F HSS M2 WITHOUT BT	17,999
TSCD 36.53XMT4X195X344X4F HSS M2	14,816
TSCD 38XMT4X200X349X4F HSS M2 WITHOUT BT	20,888
TSCD 38.46XMT4X250X399X4F HSS M2	37,401
TSCD 38.5XMT4X200X349X4F M2 WITHOUT BT	22,907
TSCD 51.90XMT5X225X412X4F HSS M2	46,962
TSCD 64.50XMT5X245X432X4F HSS M2	85,433

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INTRODUCTION

Annular cutter unlike drills use process of peripheral cutting reduces torque and thrust and meant for single pass cutting. This can be used on Fixed stable or non-fixed machine like portable magnetic drill. This cutters are meant for through hole cutting. ideal tool for Fabrication, Ship building, Bridge building, railroad etc.



FEATURE

Reduced Torque and thrust	: Due to peripheral cutting
Minimizes kerf area	: Unique center free design
Reducing HP and feed pressure	: Alternating tooth geometry
Faster feed, less friction	: Evenly distributes chip load to multiple cutting edges
Longer tool life	: Special Heat treatment / surface treatment
Single pass-cutting	: No pre drilling required
High accuracy	: Less Drifting - Precise Center locating
Smooth hole finish	: Evenly distributes chip load to multiple cutting edges

SIZE RANGE

- Size : 12.0 mm to 102.0 mm
- Length : 35 mm, 50 mm, 75mm and 100 mm
- Special size / shank on request
- Coating on request

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HSS ANNULAR CUTTER

SIZE	HSS M2		HSS M42
DIA. MM	LENGTH 35 MM	LENGTH 50 MM	LENGTH 50MM
12	2,099	2,884	*
13	*	2,884	*
14	2,099	2,884	3,862
15	*	2,884	*
16	2,134	2,682	3,485
17	*	2,682	*
17.50	*	*	*
18	2,225	2,784	3,620
18.50	*	*	*
19	2,225	2,784	*
20	2,339	2,897	*
21	2,339	2,897	*
21.50	*	*	*
22	2,784	3,297	4,286
22.50	*	*	*
23	2,784	3,297	*
23.50	*	*	*
24	2,887	3,491	*
25	*	3,491	*
25.50	*	*	*
26	3,058	3,686	4,790
26.50	*	*	*
27	*	3,686	*
28	3,297	4,015	*
29	*	4,015	*
30	3,457	4,217	5,484
31	*	4,217	*
31.50	*	*	*
32	3,616	4,506	*
33	*	4,506	*
34	*	4,805	*
34.5	*	*	*
35	*	4,804	*
36	*	5,442	*
37	*	5,442	*
38	*	5,772	*
39	*	*	*
40	*	6,321	*

SIZE	HSS M2		HSS M42
DIA. MM	LENGTH 35 MM	LENGTH 50 MM	LENGTH 50MM
41	*	6,321	*
42	*	6,834	*
43	*	*	*
44	*	7,507	*
45	*	7,507	9,759
46	*	8,066	*
47	*	*	*
48	*	*	*
49	*	*	*
50	*	9,616	*
51	*	*	*
52	*	*	*
53	*	*	*
54	*	*	*
55	*	*	*
56	*	*	*
57	*	*	*
58	*	*	*
59	*	*	*
60	*	*	*
61	*	*	*
62	*	*	*
63	*	*	*
64	*	*	*
65	*	*	*
66	*	*	*
67	*	*	*
68	*	*	*
70	*	*	*
72	*	*	*
75	*	*	*
80	*	*	*
84	*	*	*
85	*	*	*
90	*	*	*
100	*	*	*
102	*	*	*

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TCT ANNULAR CUTTER

SIZE	LENGTH 35 MM	LENGTH 50MM	LENGTH 75MM	LENGTH 100MM	SIZE	LENGTH 35 MM	LENGTH 50MM	LENGTH 75MM	LENGTH 100MM
DIA. MM					DIA. MM				
12	3,428	4,341	*	*	41	4,969	6,828	*	*
13	*	4,341	*	*	42	6,234	8,338	12,180	14,962
14	3,428	4,341	*	9,374	43	6,234	8,338	*	*
15	3,428	4,341	*	*	44	6,234	8,338	*	*
16	3,428	4,341	7,812	9,374	45	6,234	8,338	*	14,962
17	3,428	4,341	*	*	46	6,881	8,998	*	*
17.50	*	4,341	7,812	*	47	*	8,998	*	*
18	3,428	4,341	7,812	9,374	48	6,881	8,998	*	16,757
18.50	*	4,341	*	*	49	*	8,998	*	*
19	3,428	4,341	*	*	50	6,881	9,437	14,494	16,757
20	3,428	4,341	7,812	9,374	51	*	9,437	*	*
21	3,634	4,341	*	*	52	*	10,109	14,494	21,281
21.50	*	4,478	7,812	10,535	53	*	10,536	*	*
22	3,634	4,478	7,812	10,535	54	*	10,742	14,494	*
22.50	*	4,478	*	*	55	*	11,004	14,494	21,281
23	3,634	4,478	*	*	56	*	11,483	16,233	23,409
23.50	*	4,478	7,812	10,535	57	*	11,841	*	*
24	3,634	4,478	9,098	10,535	58	*	12,198	16,233	23,409
25	3,634	4,478	*	*	59	*	12,198	*	*
25.50	*	5,056	9,098	*	60	*	12,541	16,233	23,409
26	3,728	5,056	9,098	12,264	61	*	12,541	*	*
26.50	*	3,686	*	*	62	*	13,906	17,856	25,282
27	3,728	5,056	*	*	63	*	13,255	*	*
28	3,728	5,056	9,098	12,264	64	*	13,668	17,856	*
29	3,728	5,056	*	*	65	*	14,150	*	25,282
30	3,728	5,056	9,098	12,264	66	*	14,574	*	*
31	3,728	5,056	*	*	67	*	15,011	19,642	26,654
31.50	*	5,056	*	*	68	*	15,281	*	*
32	4,425	6,003	10,806	14,962	70	*	15,281	19,642	26,654
33	4,425	6,003	10,806	*	72	*	15,368	21,803	*
34	4,425	6,003	10,806	*	75	*	15,368	21,803	28,786
34.5	*	6,003	*	*	80	*	18,179	28,998	28,786
35	4,425	6,003	*	*	84	*	20,905	*	*
36	4,969	6,003	12,180	14,962	85	*	20,905	28,998	31,665
37	4,969	6,828	*	*	90	*	24,041	*	*
38	4,969	6,828	*	*	100	*	29,392	36,827	38,315
39	4,969	6,828	12,180	*	102	*	*	*	48,610
40	4,969	6,828	12,180	14,962					

EJECTOR PIN

SIZE	PRICE (RS)/NO
6.34 X 73 MM	324
6.34 X 98 MM	437
7.98 X 105 MM	532

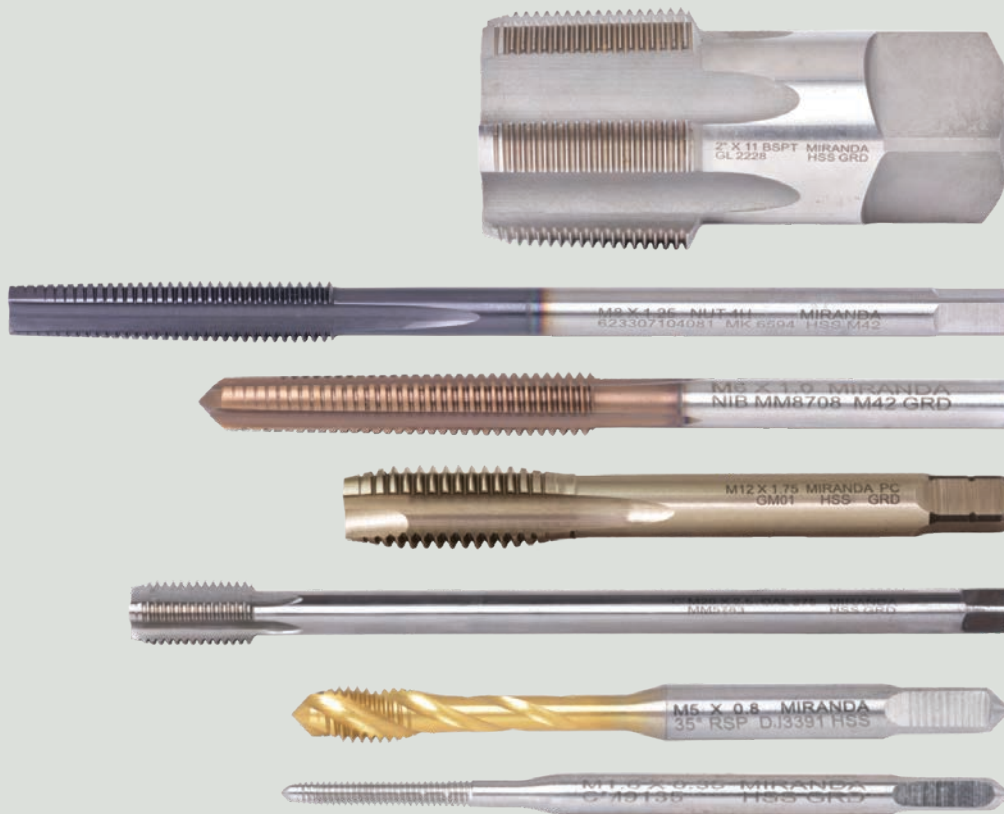
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HSS TAPS

INTRODUCTION

Hand and machine taps are mainly used for internal thread formation in components. Our taps offer good value of tools to General production line, component manufacturing on conventional and CNC machines. Our taps designs provides smooth cutting actions and faster chip evacuation



- MIRANDA Ground Thread Taps will be supplied in M2, M35 and M42 Grade of HSS
- DC Range : 2.0 to 140 mm
- straight flute, spiral point, spiral flute, Nib, Nut, Helicoil
- IS 6175, Bs949

FEATURES & BENEFITS

- ▶ HSS substrate, with the right balance of toughness and hardness to provide tool flexibility which is the basis for safe and reliable tapping in on-the job applications, such as by hand or with the use of power tools.
- ▶ Bright finish, lowers the friction and improves the chip flow, which is especially beneficial when tapping soft ductile materials as it reduces sticking of material to the cutting edges.
- ▶ Available in all major thread forms like MC, MF, BSW, BSF, BSP, BSPT, UNC, UNF, NPT, BA, UN
- ▶ Hand & Machine available in Uncoated/TIN/TiAIN coated.

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HSS TAPS

SIZE	STRAIGHT FLUTE								
	TAPER	SECOND	BOTTOM	S03	IS 6175-P3 S03	SERIAL S03	SECOND TIN COATED	BOTTOM TIN COATED	S03 TIN COATED
	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/SET	PRICE(RS)/SET	PRICE(RS)/SET	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/SET
M1.0 x 0.25	*	*	*	*	*	*	*	*	*
M1.1 x 0.25	*	*	*	*	*	*	*	*	*
M1.2 x 0.25	*	*	*	*	*	*	*	*	*
M1.4 x 0.30	*	*	*	3,056	*	*	*	*	*
M1.6 x 0.35	*	*	*	2,193	*	*	*	*	*
M1.8 x 0.35	*	*	*	*	*	*	*	*	*
M2.0 x 0.40	732	732	732	2,193	*	*	*	*	*
M2.2 x 0.45	732	732	732	2,193	*	*	*	*	*
M2.3 x 0.40	*	*	v	*	*	*	*	*	*
M2.5 x 0.45	732	732	732	2,193	*	*	*	*	*
M2.6 x 0.45	732	732	732	2,193	*	*	*	*	*
M3.0 x 0.50	441	441	441	1,323	1,482	1,365	432	617	1,594
M3.5 x 0.60	441	454	441	1,323			497		
M4.0 x 0.70	441	441	441	1,323	1,323	1,384	563	530	1,594
M4.5 x 0.75	471	484	471	1,411					
M5.0 x 0.80	471	471	471	1,411	1,412	1,482	563	563	1,691
M6.0 x 1.00	471	471	471	1,411	1,575	1,482	503	563	1,691
M7.0 x 1.00	484	498	567	1,698					
M8.0 x 1.25	567	583	567	1,698	1,700	1,780	506	696	2,085
M9.0 x 1.25	701	722	830	2,046					
M10 x 1.50	682	702	682	2,046	2,173	2,145	955	949	2,646
M8.0 x 1.25	*	*	*	*	*	*	*	*	*
M10 x 1.50	*	*	*	*	*	*	*	*	*
M11 x 1.50	1,259	1,259	1,259	*	3,777	*	*	*	*
M12 x 1.75	1,070	1,070	1,070	*	3,211	3,373	*	*	4,001
M14 x 2.00	1,561	1,561	1,561	*	4,684	4,911	*	*	6,558
M16 x 2.00	1,561	1,561	1,561	*	4,684	4,911	*	*	5,644
M17 x 2.50	2,362	*	*	*	*	*	*	*	*
M18 x 2.50	2,362	2,362	2,362	*	7,085	7,438	*	*	9,920
M19 x 2.50	3,017	2,342	*	*	*	*	*	*	*
M20 x 2.50	3,017	3,017	3,017	*	9,051	9,500	*	*	10,442
M21 x 2.50	2,939	*	*	*	*	*	*	*	*
M22 x 2.50	3,231	3,231	3,231	*	9,693	10,176	*	*	13,571
M23 x 3.00	3,271	2,608	*	*	*	*	*	*	*
M24 x 3.00	3,598	3,598	3,598	*	10,793	11,338	*	*	14,277
M25 x 3.00	*	*	*	*	13,187	*	*	*	*

HSS Ground Thread Hand Taps- Coarse Pitch

IS 6175- Part 1, 2 & 3- 1992

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HSS TAPS

SIZE	STRAIGHT FLUTE								
	TAPER	SECOND	BOTTOM	S03	IS 6175-P3 S03	SERIAL S03	SECOND TIN COATED	BOTTOM TIN COATED	S03 TIN COATED
	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/SET	PRICE(RS)/SET	PRICE(RS)/SET	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/SET
M26 x 3.00	4,960	*	*	*	16,368	*	*	*	
M27 x 3.00	5,457	5,457	5,457	*	16,371	*	*	*	22,919
M28.5 x 3.00	5,548	4,423		*		*	*	*	
M30 x 3.50	6,103	6,103	6,103	*	18,308	19,215	*	*	25,632
M33 x 3.50	7,438	7,438	7,438	*	22,313	*	*	*	*
M34 x 3.50	*	*	*	*	22,310	*	*	*	*
M36 x 4.00	10,352	10,352	10,352	*	31,055	*	*	*	*
M39 x 4.00			12,164	*	36,493	*	*	*	*
M42 x 4.50	14,171	14,169	14,171	*	42,512	44,638	*	*	*
M45 x 4.50			19,085	*	57,255	*	*	*	*
M48 x 5.00	20,354	20,354	20,354	*	61,061	64,115	*	*	*
M52 x 5.00				*	76,651	*	*	*	*
M56 x 5.50	36,361	36,361	36,361	*	1,09,083	*	*	*	*
M60 x 5.50	45,990		45,990	*	1,14,973	*	*	*	*
M64 x 6.00	*	*	*	*	1,20,932	*	*	*	*
M68 x 6.00	*	*	*	*	1,50,858	*			*
M72 x 6.00	*	*	*	*	*	*	*	*	*
M76 x 6.00	*	*	*	*	*	*	*	*	*
M80 x 6.00	*	*	*	*	*	*	*	*	*
M85 x 6.00	*	*	*	*	*	*	*	*	*
M90 x 6.00	*	*	*	*	*	*	*	*	*
M95 x 6.00	*	*	*	*	*	*	*	*	*
M100 x 6.00	*	*	*	*	*	*	*	*	*

HSS TAPS

SIZE	RETAPPING TAPER	SECOND BT	RETAPPING SECOND BT	SECOND 4H	SECOND 4H BT	SECOND 6G	SECOND BT 6G	BOTTOM 6G
	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE	PRICE
M3.0 x 0.50			441				485	454
M3.5 x 0.60								
M4.0 x 0.70	440.00	392			441		492.00	454.00
M4.5 x 0.75								
M5.0 x 0.80	471	420			471		523	484
M6.0 x 1.00	471		471	471			523	484
M7.0 x 1.00								
M8.0 x 1.25	567	506		567		567	567	567
M9.0 x 1.25								
M10 x 1.50	682	610			682	682	682	683

HSS Ground Thread Hand Taps- Coarse Pitch

IS 6175- Part 1, 2 & 3- 1992

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HSS TAPS

SIZE	SPIRAL POINT	SPIRAL POINT TIN	SPIRAL POINT 6G	SPIRAL POINT 6G TIN	SPIRAL POINT RETAPPING	SPIRAL POINT RETAPPING TIN	SPIRAL FLUTE	SPIRAL FLUTE TIN	SPIRAL FLUTE 6G	SPIRAL FLUTE TIN 6G
	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO
M3.0 x 0.50	554	643	552	617	552	763	603	696	*	*
M3.5 x 0.60	554	*	*	*	*	*	*	*	*	*
M4.0 x 0.70	554	643	552	643	554	648	603	690	661	
M4.5 x 0.75	*	*	*	*	*	*	*	*	*	*
M5.0 x 0.80	583	677	583	677	583	675	631	724	*	*
M6.0 x 1.00	583	677	583	677	583	677	643	736		778.68
M7.0 x 1.00	*	*	*	*	*	*	*	*	*	*
M8.0 x 1.25	675	799	675	805	675	843	713	840	713	*
M9.0 x 1.25	*	*	*	*	*	*	*	*	*	*
M10 x 1.50	843	1,045	844	955	844	1,180	895	1,295	*	1070.17
M8.0 x 1.25	768	*	*	*	*	*	879		*	*
M10 x 1.50	891	*	*	*	*	*	1,000	1,294	*	*
M11 x 1.50	*	*	*	*	*	*	*	*	*	*
M12 x 1.75	1,291	1,557	*	*	*	*	1,424	1,686	*	*
M14 x 2.00	1,891	2,152	*	*	*	*	2,162		*	*
M16 x 2.00	1,891	2,208	*	*	*	*	2,162	2,508	*	*
M17 x 2.50	*	*	*	*	*	*	*	*	*	*
M18 x 2.50	2,834	*	*	*	*	*	3,147		*	*
M19 x 2.50	*	*	*	*	*	*	*	*	*	*
M20 x 2.50	2,296	4,120	*	*	*	*	4,197	5,878	*	*
M21 x 2.50	*	*	*	*	*	*	*	*	*	*
M22 x 2.50	3,874		*	*	*	*	4,351	1,560	*	*
M23 x 3.00	*	*	*	*	*	*	*	*	*	*
M24 x 3.00	4,325	6,054	*	*	*	*	4,727	6,617	*	*
M25 x 3.00	*	*	*	*	*	*	*	*	*	*
M26 x 3.00	*	*	*	*	*	*	*	*	*	*
M27 x 3.00	6,547	7,640	*	*	*	*	7,054	7,680	*	*
M28.5 x 3.00	*	*	*	*	*	*	*	*	*	*
M30 x 3.50	7,328	7,896	*	*	*	*	7,885		*	*
M33 x 3.50	*	*	*	*	*	*	*	*	*	*
M34 x 3.50	*	*	*	*	*	*	*	*	*	*
M36 x 4.00	*	*	*	*	*	*	*	*	*	*
M39 x 4.00	*	*	*	*	*	*	*	*	*	*
M42 x 4.50	*	*	*	*	*	*	*	*	*	*
M45 x 4.50	*	*	*	*	*	*	*	*	*	*
M48 x 5.00	*	*	*	*	*	*	25,443	*	*	*

HSS Ground Thread Hand Taps- Coarse Pitch

IS 6175- Part 1, 2 & 3- 1992

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M35 AND M42 HSS TAPS

SIZE	M35 TAPER	M35 PLUG	M35 BOTTOM	M35 S03	M35 S03 TIN	M42 BOTTOM	M42 S03	SPPT M35	SPPT M35 TIN	SPIRAL M35	SPIRAL M35 TIN
	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/SET	PRICE(RS)/SET	PRICE(RS)/NO	PRICE(RS)/SET	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO
M3.0 x 0.50	593	593	593	1,780	2,049	682	2,044	744			
M4.0 x 0.70	594	590	590	1,780	2,052	683	2,044		833		
M5.0 x 0.80	634	634	634	1,904	2,186	728	2,186	785	879		
M6.0 x 1.00	634	634	634	1,904	2,186	728	2,185		879	868	960
M8.0 x 1.25	761	708	761	2,290	2,674	876	2,630	907	1,037		1,094
M10 x 1.50	924	924	924	2,765	3,180	1,055	3,170		1,338	1,209	1,407
M12 x 1.75	*	1,445	*	4,338						1,920	
M14 x 2.00	*	*	*	6,323							3,248
M16 x 2.00	*	*	*	6,320			7,259			2,919	3,248
M18 x 2.50	*	*	*	9,477							
M20 x 2.50	*	*	*	12,215			14,023				6,130
M22 x 2.50	*	4,362	*	4,362							
M24 x 3.00	*	*	*	14,570			16,733				
M27 x 3.00	*	*	*	22,095							
M30 x 3.50	*	*	8,239	24,487							

MACHINE TAPS, IS 6175-P4

SIZE	STRAIGHT FLUTE				TYPE B	SPIRAL FLUTE
	TAPER	SECOND	BOTTOM	BOTTOM TIN		
	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO
M3.0 x 0.50	969		969			
M3.5 x 0.60						
M4.0 x 0.70	969		969			
M4.5 x 0.75						
M5.0 x 0.80	696		696	708		
M6.0 x 1.00	744		744	786		
M7.0 x 1.00			722			
M8.0 x 1.25	809		809	938		
M9.0 x 1.25						
M10 x 1.50	1036		1,036	1,236		
M12 x 1.75	1471		1,471	1,498		
M14 x 2.00	2136		2,136	2,465	1,144	
M16 x 2.00	2136		2,136	2,456		
M18 x 2.50			3,136		1,144	
M20 x 2.50	3864		3,864	4,448		
M22 x 2.50			4,319		848	
M24 x 3.00			4,683		905	934
M25 x 3.00						
M27 x 3.00			6,744		988	1,017
M30 x 3.50			7,754			
M33 x 3.50			9,102		1,240	1,268
M36 x 4.00						
M39 x 4.00					1,741	2,096
M42 x 4.50					2,531	2,780
M45 x 4.50					2,531	2,780
M48 x 5.00					3,698	
M52 x 5.00					4,545	4,749
M56 x 5.50						4,749

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LEFT HAND TAPS

SIZE	STRAIGHT FLUTE			
	SECOND	S03	M42 4H S03	M42 4H SERIAL S03
	PRICE(RS)/NO	PRICE(RS)/SET	PRICE(RS)/SET	PRICE(RS)/SET
M3.0 x 0.50		1,653		
M3.5 x 0.60				2,580
M4.0 x 0.70		1,651		2,580
M4.5 x 0.75				
M5.0 x 0.80		1,762	3,008	2,757
M6.0 x 1.00	589	1,762		2,294
M8.0 x 1.25		2,119	3,617	
M10 x 1.50		2,560		
M12 x 1.75	1,338	4,015		
M14 x 2.00		1,953		
M16 x 2.00		5,856		
M18 x 2.50		8,854		
M20 x 2.50		11,312		
M22 x 2.50		12,117		
M24 x 3.00	4,500	13,494		
M25 x 3.00				
M27 x 3.00	6,818	20,464		
M30 x 3.50		22,885		

METRIC FINE TAPS

SIZE	STRAIGHT FLUTE							
	TAPER	SECOND	BOTTOM	S02	S03	M35 S02	M42 S02	SPIRAL FLUTE
	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/SET	PRICE(RS)/SET	PRICE(RS)/SET	PRICE(RS)/SET	PRICE(RS)/NO
M3.0 x 0.25	*	*	634	*	*	*	*	
M3.5 x 0.35	*	*	*	*	*	*	*	
M4.0 x 0.50	657	657	657	1,314	1,973			
M4.5 x 0.50	*	*	612	*	*	*	*	
M5.0 x 0.50	657	657	644	1,288	1,931	1,740		
M5.5 x 0.50	*	*	*	*	1,928	*		
M6.0 x 0.50	*	*	*	1,407	*	*		
M6.0 x 0.75	657	657	644	1,288	1,928	1,740		
M7.0 x 0.75	741	741	741	1,481	2,222	*		
M8.0 x 0.75	741	741	741	1,481	2,222	2,000		
M8.0 x 1.00	671	671	671	1,341	2,222	1,813		
M9.0 x 1.00	830	830	830	1,660	2,491	*		
M10 x 0.50	*	*	*	1,888	*	*		
M10 x 0.75	754	754	754	1,509	2,262	*		
M10 x 1.00	754	754	754	1,508	2,265	2,039		1,030
M10 x 1.25	754	754	754	1,508	2,265	2,039		

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METRIC FINE TAPS

SIZE	STRAIGHT FLUTE							
	TAPER	SECOND	BOTTOM	S02	S03	M35 S02	M42 S02	SPIRAL FLUTE
	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/SET	PRICE(RS)/SET	PRICE(RS)/SET	PRICE(RS)/SET	PRICE(RS)/NO
M11 x 0.75	*	*	*		3,775	*		992
M11 x 1.00	*	*	*	2,518		*		
M12 x 0.75	*	*	*	2,518		*		
M12 x 1.00	1,259	1,259	1,259	2,517	3,776	3,400		
M12 x 1.25	1,259	1,259	1,259	2,517	3,775	3,401		
M12 x 1.50	1,259	1,259	1,259	2,517	3,372	3,395		1,608
M14 x 1.00	1,618	1,618	1,618	3,236	4,854	*		
M14 x 1.25	1,652	1,652	1,652	3,304	4,426	*		
M14 x 1.50	1,568	1,568	1,568	3,135	4,277	4,232		2,151
M15 x 0.75					5,327			
M15 x 1.00	*	*	*	*	4,843	*		
M16 x 0.75				3,230				
M16 x 1.00	1,615	1,615	1,615	3,230	4,706	4,361		
M16 x 1.25		1,613	1,615	3,228	4,837			
M16 x 1.50	1,569	1,569	1,569	3,137	4,707	4,235		
M17 x 1.00	*	*	2,948	*	8,843	*		
M18 x 0.75					9,727			
M18 x 1.00	*	3,006	2,949	5,898	*	7,963	9,142	
M18 x 1.25					9,727			
M18 x 1.50	2,690	2,743	2,690	5,381	*	*	8,341	
M18 x 2.00	2,949	3,006	2,949	5,898	8,843	*		
M19 x 1.00			3,403					
M20 x 1.00	*	3,469	3,403	7,143	*	9,189		
M20 x 1.50	3,403	3,469	3,403	6,806	10,209	9,189	10,551	4,483
M20 x 2.00	3,388	3,453	3,388	6,775	10,162	9,189		
M22 x 1.00	*	*	3,714	7,988	*	10,025		
M22 x 1.50	*	3,509	4,142	7,427	9,947	*		
M22 x 2.00	3,993	4,071	3,993	7,987	*	*		
M24 x 1.00	*	*	4,062	8,936	*	10,967		
M24 x 1.50	4,062	4,141	4,062	8,125	*	10,967	12,593	
M24 x 2.00	*	4,071	4,055	8,110	*	10,967	12,568	
M24 x 2.50				8,108				
M25 x 1.00	*	*	*	9,564	*	*		
M25 x 1.50	4,348	4,432	4,348	8,695	*	*	13,474	
M25 x 2.00	*	4,388	4,304	8,609	*	*		
M26 x 1.50	4,532	4,620	4,532	9,064	*	*		
M26 x 2.00	*	*	*	*	*	*		
M27 x 1.00	*	*	*	13,321	*	16,348		
M27 x 1.50	*	*	6,054	12,109	*	16,348		
M27 x 2.00	*	*	6,054	12,109	*	*		
M27 x 2.50				12,110				
M28 x 1.00	*	*	*	13,365	*	*		
M28 x 1.50	*	6,193	6,075	12,150	*	*		

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METRIC FINE TAPS

SIZE	STRAIGHT FLUTE							
	TAPER	SECOND	BOTTOM	S02	S03	M35 S02	M42 S02	SPIRAL FLUTE
	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/SET	PRICE(RS)/SET	PRICE(RS)/SET	PRICE(RS)/SET	PRICE(RS)/NO
M28 x 2.00	*	*	*	12,150	*	*	18,831	
M30 x 1.00	*	*	*	14,995	*	*		
M30 x 1.50	6,816	6,948	6,816	13,631	*	*		
M30 x 2.00	*	6,948	6,816	13,631	*	*	21,128	
M30 x 3.00	*	*	6,829	13,658	*	*		
M32 x 1.00				15,970				
M32 x 1.50	*	*	7,259	14,519	*	*		
M32 x 2.00	7,259	*	7,259	14,519	*	*		
M33 x 1.50	*	*	8,331	16,661	*	*		
M33 x 2.00	*	*	8,331	16,661	*	*		
M33 x 3.00	*	*	*	16,661	*	*		
M35 x 1.50	*	*	*	23,152	*	*		
M35 x 2.00				23,150				
M35 x 3.00	9,410	8,402		23,152				
M36 x 1.00				25,457				
M36 x 1.50	*	*	11,573	23,144	*	*	35,875	
M36 x 2.00	*	*	11,572	23,144	*	*		
M36 x 3.00	*	*	11,557	23,144	*	*		15,044
M38 x 1.00				31,726			44,706	
M38 x 1.50	*	*	*	28,843	*	*	44,706	
M38 x 2.00				28,842				
M39 x 1.50	*	*	14,420	14,421	*	*		
M39 x 2.00	*	*	*	28,840	*	*		
M39 x 3.00	*	*	14,420	28,840	*	*		
M40 x 1.00					48,082			
M40 x 1.50	*	*	16,028	30,312	*	*		
M40 x 2.00	*	*	*	32,055	*	*	49,687	
M42 x 1.50	*	*	16,028	32,056	*	*		
M42 x 2.00	*	*	*	32,055	*	*		
M42 x 3.00	16,028	*	*	32,056	*	*		
M42 x 4.00	*	*	14,170	*	*	*		
M44 x 1.00							68,877	
M45 x 1.50	*	*	*	44,436	*	*		
M45 x 2.00	*	*	*	44,436	*	*		
M45 x 3.00	*	*	*	44,436	*	*		
M48 x 1.50	*	*	*	43,171	*	*		
M48 x 2.00	*	*	*	43,171	*	*		
M48 x 3.00	*	*	21,586	43,171	*	*		
M48 x 4.00	*	*	*	43,171	*	*		
M50 x 1.50	*	*	*	51,043	*	*		
M50 x 2.00	*	*	*	51,043	*	*		
M50 x 3.00	*	*	*	51,043	*	*		
M51 x 3.00				57,530				

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METRIC FINE TAPS

SIZE	STRAIGHT FLUTE							
	TAPER	SECOND	BOTTOM	S02	S03	M35 S02	M42 S02	SPIRAL FLUTE
	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/SET	PRICE(RS)/SET	PRICE(RS)/SET	PRICE(RS)/SET	PRICE(RS)/NO
M52 x 1.50	*	*	*	57,532	*	*		
M52 x 2.00	*	*	*	57,532	*	*	89,172	
M52 x 3.00	*	*	*	57,532	*	*		
M52 x 4.00	*	*	*	57,532	*	*		
M56 x 2.00	*	*	*	75,064	*	*	58,469	
M56 x 3.00	*	*	*	75,064	*	*		
M56 x 4.00	*	*	*	*	1,12,599	*		
M60 x 2.00							1,29,815	
M63 X 1.5				89,229				
M63 x 3.00				90,839				
M64 x 4.00	*	*	*	90,838	*	*		
M72 x 6.00	*	*	*	*	*	*		
M75 x 1.50	*	*	*	1,65,088	*	*		
M76 x 6.00	*	*	*	*	2,47,639	*		
M80 x 2.00	*	*	*	2,09,387	*	*	*	
M80 x 3.00	*	*	*	*	3,03,462	*	*	
M80 x 6.00	*	*	*	*	2,99,124	*	*	
M82 x 2.00	*	*	*	2,58,589	*	*	*	
M85 x 2.00	*	*	*	2,58,589	*	*	*	
M90 x 2.00	*	*	*	3,56,508	*	*	*	
M95 x 2.00	*	*	*	4,06,347	*	*	*	
M100 x 2.00	*	*	*	5,02,123	*	*	*	
M110 X 2.0				5,22,598				
M120 X 2.0				5,74,858				

METRIC FINE LEFT HAND TAPS

SIZE	STRAIGHT FLUTE				
	TAPER	SECOND	BOTTOM	S02	M35 SPIRAL FLUTE TIN COATED
	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/SET	PRICE(RS)/NO
M10 x 1.25	*	*	*	1,888	*
M12 x 1.25	*	*	1,575	*	*
M12 x 1.50	*	*	*	*	3,147
M14 x 1.50	*	*	1,959	*	*
M16 x 1.50	*	*	1,962	*	3,376
M16 x 1.50	*	*	1,962	3,921	*
M18 x 1.50	*	*	3,363	*	3,768
M20 x 1.50	*	*	4,255	*	*
M24 x 1.50	*	*	5,078	*	*

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MACHINE TAPS METRIC FINE

SIZE	STRAIGHT FLUTE			
	TAPER	SECOND	BOTTOM	SPIRAL POINT
	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO
M8 x 1.00	*	*	894	*
M10 x 1.00	*	*	1,119	*
M10 x 1.25	*	*	1,119	*
M12 x 1.25	*	*	1,612	*
M12 x 1.50	*	*	1,612	*
M14 x 1.50	*	*	1,993	*
M16 x 1.50	*	*	1,993	*
M18 x 1.50	*	*	3,357	*
M20 x 1.50	*	*	4,381	*
M24 x 1.50	*	*	5,075	*
M24 x 1.50	*	*	5,076	*
M36 x 3.00	*	*	14,937	*

HSS HAND TAPS - BSW

SIZE	TAPER	PLUG	BOTTOM	S03	SERIAL S03	SPIRAL POINT	SPIRAL FLUTE
	PRICE (RS)/NO	PRICE (RS)/NO	PRICE (RS)/NO	PRICE (RS)/NO	PRICE (RS)/NO	PRICE (RS)/NO	PRICE (RS)/NO
1/16 " x 40	*	*	*	1,374	*	*	*
1/8 " x 40	459	459	459	1,378	*	*	650
5/32 " x 32	459	459	459	1,374	*	*	*
3/16 " x 24	459	459	459	1,378	*	577	*
7/32 " x 24	*	*	*	1,391	*	*	*
1/4 " x 20	481	481	481	1,443	1,499	586	685
9/32 " x 26	*	*	*	1,619	*	*	*
5/16 " x 18	539	539	539	1,616	*	577	720
3/8 " x 16	657	657	657	1,971	2,074	809	884
7/16 " x 14	*	847	847	2,540	*	847	*
1/2 " x 12	1,076	1,076	1,076	3,229	3,384	1,076	1,420
9/16 " x 12	*	*	1,568	4,703	*	*	*
5/8 " x 11	1,568	1,568	1,568	4,703	4,855	1,891	2,185
11/16 " x 11	*	*	*	6,869	*	*	*
3/4 " x 10	2,380	2,380	2,380	7,141	7,497	*	*
13/16 " x 10	*	*	*	6,775	*	*	*
7/8 " x 9	3,290	3,290	3,290	9,869	*	*	*
15/16 " x 9	*	*	*	11,336	*	*	*
1 " x 8	4,123	4,123	4,123	12,369	12,986	*	*
1.1/8 " x 7	*	*	5,538	16,615	*	*	*
1.1/4 " x 7	*	*	6,677	20,032	*	*	*
1.3/8 " x 6	*	*	*	25,839	*	*	*
1.1/2 " x 6	*	*	10,352	31,055	32,606	*	*
1.5/8 " x 5	*	*	*	36,310	*	*	*
1.3/4 " x 5	*	*	*	42,484	*	*	*
1.7/8 " x 4.5	*	*	*	51,352	*	*	*
2 " x 4.5	*	*	*	66,964	*	*	*
2.1/4 " x 4	*	*	*	92,243	*	*	*
2.1/2 " x 4	39,082	*	*	1,17,252	*	*	*
2.3/4 " x 3.5	*	*	*	1,88,972	*	*	*
3 " x 3.5	*	*	*	1,98,366	*	*	*

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HSS HAND TAPS - BSF

SIZE	S03	BOTTOM
	PRICE (RS)/NO	PRICE (RS)/NO
3/16 " x 32	1,378	459
7/32 " x 28	1,391	*
1/4 " x 26	1,443	478
9/32 " x 26	*	*
5/16 " x 22	1,616	540
3/8 " x 20	1,971	656
7/16 " x 18	2,540	847
1/2 " x 16	3,229	1,076
9/16 " x 16	4,703	*
5/8 " x 14	4,703	1,568
11/16 " x 14	6,865	*
3/4 " x 12	7,141	2,380
13/16 " x 12	*	*
7/8 " x 11	9,869	*
1 " x 10	12,369	4,123
1.1/8 " x 9	16,615	*
1.1/4 " x 9	20,032	*
1.3/8 " x 8	25,839	*
1.1/2 " x 8	31,055	10,350
1.5/8 " x 8	36,310	*
1.3/4 " x 7	42,484	*
2 " x 7	66,964	*
2.1/4 " x 6	92,243	*
2.1/2 " x 6	1,17,252	*
2.3/4 " x 6	1,88,972	*

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HSS UNC TAPS

SIZE	S03	TAPER	PLUG	BOTTOM	TIN COATED SPIRAL FLUTE
	PRICE (RS)/SET	PRICE (RS)/NO	PRICE (RS)/NO	PRICE (RS)/NO	PRICE (RS)/NO
No.2 x 56	2,274	*	*	*	*
No.4 x 40	1,548	*	*	*	*
No.5 x 40	1,547	*	*	758	
No.6 x 32	1,548	*	*	516	
No.8 x 32	1,548	*	*	516	
No.10 x 24	1,547	*	*	516	
No.12 x 24	1,908	*	637	516	
1/8"X40	1,374	*	*	*	
3/16"X24	1,374	459	*	459	
1/4 " x 20	1,431	477	477	516	820
5/16 " x 18	1,619	540	*	637	926
3/8 " x 16	1,971	657	657	477	1,151
7/16 " x 14	2,540	*	*	540	*
1/2 " x 13	3,229	1,076	1,076	657	1,748
9/16 " x 12	4,703	*	*	847	*
5/8 " x 11	4,703	1,568	1,568	1,076	2,505
11/16"X11	6,537	*	*	*	*
3/4 " x 10	7,141	*	*	1,568	*
7/8 " x 9	9,869	*	3,290	1,568	*
1 " x 8	12,369	4,123	4,123	2,380	
1.1/8 " x 7	16,615	*	5,538	3,290	
1.1/4 " x 7	20,026	*	6,673	4,123	
1.3/8 " x 6	25,839	*	*	5,538	
1.1/2 " x 6	31,055	*	*	6,675	
1.5/8 " x 6	36,311	*	*	8,613	
1.3/4 " x 5	42,484	*	*	10,352	
1.7/8"X5	51,352	*	*	*	
2 " x 4.5	66,964	*	*	*	
2.1/4 " x 4.5	92,243	*	*	*	
2.1/2 " x 4	1,17,252	*	*	22,321	
2.3/4 " x 4	1,88,972	*	*	*	
3 " x 4	1,98,366	*	*	39,082	

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HSS UNF TAPS

SIZE	S03	TAPER	PLUG	BOTTOM
	PRICE (RS)/SET	PRICE (RS)/NO	PRICE (RS)/NO	PRICE (RS)/NO
NO.0X80	3,229			
No.6 x 40	1,547	*	*	516
No.8 x 40	*	*	*	*
No.10 x 32	1,547	*	*	516
No.12 x 32	*	*	*	*
1/8"X44	1,374	*	*	*
3/16"X32	1,378	*	*	*
1/4 inch x 28	1,431	477	477	477
5/16 inch x 24	1,619	*	540	540
3/8 inch x 24	1,971	657	657	657
7/16 inch x 20	2,540	847	847	847
1/2 inch x 20	3,229	1,076	1,076	1,076
9/16 inch x 18	4,703	*	*	1,568
5/8 inch x 18	4,703	1,568	1,568	1,568
3/4 inch x 16	7,141	2,380	2,380	2,380
7/8 inch x 14	9,869	3,290	*	3,290
1 inch x 12	12,368	4,123	*	4,123
1.1/8 inch x 12	16,615	5,537	*	5,538
1.1/4 inch x 12	20,025	6,675	*	*
1.3/8 inch x 12	25,839	*	*	8,613
1.1/2 inch x 12	31,055	*	*	*
1.5/8 inch x 12	36,310	*	*	*

HSS PIPE TAPS

HSS BSP(P) G				HSS BSPT RP		HSS BSPT RC		
SIZE	TAPER	BOTTOM	S02	BOTTOM	S02	TAPER	BOTTOM	S02
	PRICE(RS)/NO	PRICE(RS)/NO	PRICE (RS)/SET	PRICE(RS)/NO	PRICE (RS)/SET	PRICE(RS)/NO	PRICE(RS)/NO	PRICE (RS)/SET
1/16" x 28	*	*	*	*	*	*	*	710
1/8 " x 28	710	710	1,419	710	2,070	1,035	1,035	2,070
1/4 " x 19	1,105	1,105	2,210	1,105	2,210	1,805	1,805	3,609
3/8 " x 19	1,661	1,661	3,323	1,660	4,637	2,319	2,319	4,637
1/2 " x 14	2,425	2,425	4,849	2,425	6,942	3,471	3,471	6,942
5/8 " x 14	*	2,750	5,500	3,937	7,874	3,937	3,937	7,874
3/4 " x 14	3,623	3,623	7,245	5,146	10,292	5,146	5,146	10,292
7/8 " x 14	4,599	4,599	9,198	6,533	*	*	*	*
1 " x 11	5,713	5,713	11,427	5,713	11,427	*	8,001	16,006
1.1/4 " x 11	8,812	8,812	17,623	*	*	-	-	-
1.1/2 " x 11	*	11,016	22,032	*	22,032	*	14,009	28,014
1.3/4 " x 11	*	13,777	27,555	*	35,039	*	*	35,039
2 " x 11	*	20,106	40,211	25,650	51,300	*	*	51,300
2.1/4 " x 11	*	*	68,594	*	*	*	*	*
2.1/2 " x 11	*	*	97,869	*	*	*	*	*
2.3/4 " x 11	*	*	1,02,553	*	*	*	*	*
3 " x 11	*	*	1,24,014	*	*	*	*	*
3.1/2 " x 11	*	*	1,62,981	*	*	*	*	*

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HSS NPT TAPS

SIZE	TAPER	BOTTOM	S02	S02 M35	S02 M35 TIN
	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/SET	PRICE(RS)/SET	PRICE(RS)/SET
1/16 " x 27	*	*	1,414		
1/8 " x 27	1,061	1,061	2,122	2,863	3,538
1/4 " x 18	*	1,856	3,712	5,014	5,685
3/8 " x 18	2,359	2,359	4,716	6,367	
1/2 " x 14	3,546	3,546	7,093	9,576	10,249
5/8"X14			7975		
3/4 " x 14	5,253	5,253	10,506	14,187	14,857
7/8"X14			13337		
1 " x 11.5	*	8,202	16,406	22,149	22,822
1.1/4 " x 11.5	*	11,713	23,426	31,624	
1.1/2 " x 11.5	*	14,532	29,065	39,235	
2 " x 11.5	26,265	26,265	52,530	*	*
2.1/2 " x 8	*	*	62,006	*	*
3 " x 8	*	*	1,94,703	*	*
3.1/2 " x 8	*	*	2,59,964	*	*

HSS UN TAPS

SIZE	S03	BOTTOM	S02
	PRICE (RS/SET)	PRICE (RS/NO)	PRICE (RS/SET)
1" x 12			8246
1" x 14	13,827	*	*
1.1/16 " x 12	*	6,392	*
1.1/8" x 8	16,615	5,538	11,076
1.1/4" x 8	20,025	6,673	13,351
1.5/16 " x 12	*	10,552	*
1.3/8" x 8	25,839	*	17,225
1.1/2" x 8	31,053	10,350	*
1.5/8" x 8	*	*	24,207
1.3/4" x 8	*	*	28,324

SIZE	S03	BOTTOM	S02
	PRICE (RS/SET)	PRICE (RS/NO)	PRICE (RS/SET)
1.3/4" x 12	*	*	28,324
1.7/8" x 8	*	17,118	34,235
1.7/8" x 12	*	*	34,235
2 " x 8	*	22,321	44,643
2 " x 12	*	*	44,643
2.1/4 " x 8	*	*	61,496
2.1/4 " x 12	*	*	61,496
2.1/2 " x 8	*	*	78,168
2.1/2 " x 12	*	39,082	78,168

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HSS-E (8%CO) NIB TAPS WITH ALCRN COATING TO MIRANDA STANDARD

SIZE	PRICE (RS/NO)
M6 x 1.00 mm	1,485
M8 x 1.25 mm	2,041
M6X1.0 NIB TAP 3FL M42 T/L 26.5MM	1,485
M8X1.25 NIB TAP 5FL M42 7H	2,041

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HSS GROUND THREAD HAND TAPS-COARSE PITCH - HELICOIL

SIZE	TAPER	PLUG	BOTTOM	S03
	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/SET
M3 x 0.50	440	440	440	*
M4 x 0.70	468	468	468	1,402
M5 x 0.80	561	561	561	1,683
M6 x 1.00	561	561	561	1,683
M7x 1.00	*	*	636	*
M8 x 1.25	683	683	683	2,048
M10 x 1.50	1,070	1,070	1,070	3,211
M12 x 1.75	1,560	1,560	1,560	4,683
M14 x 2.00	*	*	2,361	*
M16 x 2.00	*	2,361	2,361	7,083
M20 x 2.50	3,231	3,231	3,231	9,693
M24 x 3.00	*	*	*	*

CUSTOMISED HSS TAPS

LEFT HAND TAPS		LEFT HAND TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO	PRODUCT DESCRIPTION	PRICE (RS)/NO
M3.5X0.6 LH S03 4H	1,651	M20X1.5 SPPT T/L 90 OAL 190 LH 7H TIN	6,650
M6X1.0 BOTTOM LH	589	M22X1.5 SPPT T/L 90 OAL 190 LH 7H TIN	7,527
M16X2.0 BOTTOM LH	1,951	M24X1.5 SPPT T/L 90 OAL 190 LH 7H TIN	8,117
M20X1.5 BOTTOM LH	4,253	M30X1.5 SPPT T/L 90 OAL 190 7H LH TIN	13,262
3/8"X16 BSW S03 LH	2,468	M33X1.5 SPPT T/L 90 OAL 190 LH 7H TIN	18,717
3/4"X14 BSP S02 LH	9,054	M40X1.5 SPPT T/L 50 OAL 190 LH 7H TIN	22,610
2"X11 BSP S02(LH)	50,269	M38X1.5 SPPT T/L 40 OAL 190MM 7H LH TIN	18,474
M4X0.7 BTM LH	551	1 1/8"X7 UNC SECTH/L 75 LH A/P DRG	8,344
M5X0.8,BTM,LH	589	1 1/4"X7 UNC SECOND LH	8,343
M14X1.50 BOT LH	1,959	M12X1.75 BTM LH	1,338
M16X1.5 BOTTOM LH 5H6H TIN	2,425	M16X2.0 BTM LH	1,951
M18X1.5 LH BTM	3,362	M18X1.5 BOTTOM 6G LH	3,363
M24X1.5 LH BTM	5,078	M12X1.5 S02 LH	2,809
M24X2.0 SET LH	10,134	M3.5X0.6 4H LH SERIAL S03 M35	2,106
M14X1.5 TYPE 'C' LH	2,494	M10X1.25 LH TYPE"C" 6G	1,789
M16X1.5 TYPE"C" 3FL LH	2,494	M24X3.0 SPPT SPRL15DEG M35 LH6G OL160 BT	8,895
M18X1.50 TYPE "C" LH	4,197	M27X3.0 SPPT SPRL15DEG M35 LH6G OL170 BT	13,200
M20X1.5 TYPE"C" 3FL LH	5,477	M30X3.5 SPPT SPRL15DEG M35 LH6G OL180 BT	13,159
M24X1.5 TYPE"C" 3FL LH	6,344	M27X2.0 SPPT SPRL15DEG M35 LH6G OL160 BT	13,667
M20X1.5 SPPT T/L 90 OAL 190 LH 7H BT	7,309	M36X3.0 SPPT SPRL15DEG M35 LH6G OL200 BT	26,811
M38X1.5 SECOND T/L 90 OAL 190MM LH 7HTIN	19,098	M18X1.5 SPIRAL T/L 29MM OAL 104MM LH	5,925
M27X3.0 SECOND OAL 180MM LH 7H	8,466	M3.5X0.6 4H (LH) NUT TAP M35	1,433
M24X3.0 SPL TAP BTM LH OAL 180 MM TIN	6,258	M8X1.25 3FL S03 LH M42 4H6H T/L 30 OAL 6	3,223
M27X3.0 SPL TAP BTM LH OAL 180 MM TIN	9,650	M20X1.5 LH S02 M42	12,253
M38X1.5 SPPT T/L 90 OAL 190 LH 7H TIN	19,861	M32X2.0 LH S02 M42	26,135
M18X1.5 SPPT T/L 90 OAL 190 LH 7H TIN	5,500		

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CUSTOMISED HSS TAPS

UNC TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
5/16"X18 UNC BOTTOM GH1 CI	540
1/4"X20 UNC SECOND TIN	590
3/8"X16 UNC BOTTOM 3FL 2BX (MF311088022)	656
3/8"X16 UNC BOTTOM GH1 CI	656
1/4"X20 UNC SPIRAL 3FL	685
N010X24 UNC SECOND M35	696
5/16"X18 UNC SECOND TIN	700
N012X24 UNC SECOND TIN	788
3/8"x16 UNC BTM CI M35	914
1/2"X12 UNC TAPER	1,076
1/2"X13 UNC BOTTOM GH1 CI	1,076
1/2"X13 UNC BTM TIN	1,339
3/8"x16 UNC BTM CI OAL 100MM M35	1,400
1/2"x13 UNC TOLERANCE +0.015 OVER SIZE	1,514
5/8"X11 UNC BOTTOM 3B TIN	1,874

UNC TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
1/2"X13 UNC 4FL BTM #11.489(2B) +0.4	1,967
5/8"X11 UNC TOLERANCE +0.015 OVER SIZE	2,132
3/4"X10 UNC BOTTOM GH1 CI	2,380
5/8"X11 UNC 4FL BTM # 11.438(2B) +0.4	2,853
3/4"X10 UNC BTM T/L 50MM & OAL 150MM BT	3,059
1/2"X13 UNC SERIAL S03	3,391
3/4"X10 UNC 4FL BTM 2BX M35 TIN	4,060
3/4"X10 UNC TOLERANCE +0.015 OVER SIZE	4,079
7/8"x9 UNC T/L 70MM BTM TIN	4,749
7/8"X11 UNC SPIRAL TIN	4,911
5/8"X11 UNC SERIAL S03	4,940
3/4"x10 UNC 35 DEG SPIRAL M35 1B	5,099
1 1/8"X7 UNC SEC TH/L 75 A/P DRG	6,675
3/4"x10 UNC SERIAL S03	7,497
1 7/8"X8 UNC S02	34,221

CUSTOMISED HSS TAPS

UNF TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
N010X32 UNF SECOND	516
1/4"X28 UNF BOTTOM TIN	568
3/8"X24 UNF BTM	657
1/4"X28 UNF BTM M35 TIN CI	797
3/8"X24 UNF SPIRAL 3FL	884
7/16"X20 UNF SECOND RETAPPING	930
N010X32 UNF SLOW SPIRAL M35 TIN CI	1,008
7/16"X20 UNF BTM CI TIN	1,113

UNF TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
3/8"X24 UNF SECOND M35 TIN	1,133
7/16"X20 UNF BTM M35 TIN	1,506
7/16"X20 UNF 3FL SPIRAL M35 TIN	1,843
3/4"X20 UNF, BTM	2,616
7/16"X20 UNF M35 ALCRONA DRG.NO.Ch01	4,180
3/4"X16 UNF SPPT 6FL FULL HSSE TIN	4,914
1 1/8"X12 UNF BOTTOM TIN	6,106
1 5/8"X12 UNF BTM TIN	13,083

CUSTOMISED HSS TAPS

HELICOIL	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M8X1.0 ROUGHER HELICOIL	719
M10X1.25 SECOND HELICOIL	1,144
M10X1.25 BOTTOM HELICOIL	1,144
M10X1.0 HELICOIL ROUGHER	1,178

HELICOIL	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M10X1.0 HELICOIL FINISHER	1,178
M12X1.5 BOTTOM HELICOIL	1,749
M10X1.25 HELICOIL S03 M42 T/L 20 OAL76MM	5,300

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CUSTOMISED HSS TAPS

BSW	
PRODUCT DESCRIPTION	PRICE (RS)/NO
1/4"x20 BSW TYPE"C"	676
5/16"x18 BSW TYPE"C"	692
3/8"x16 BSW TYPE "C"	857
3/16"x24 BSW SPIRAL M35 TIN 6HX	945
1/4"x20 BSW SPIRAL M35 TIN 6HX	1,029

BSW	
PRODUCT DESCRIPTION	PRICE (RS)/NO
7/16" X 14 BSW SPIRAL M35	1,580
1/2"x12 BSW SPIRAL 3FL M35 TIN	2,036
5/8"x11BSW SPIRAL 3FL TIN	2,505
3/4"x10 BSW SPIRAL 3FL	3,170
1"x14 BSW SPIRAL	5,232

CUSTOMISED HSS TAPS

BSP	
PRODUCT DESCRIPTION	PRICE (RS)/NO
1/4"x19 BSP TAPER	1,105
1/4"x19 BSP TYPE "C" DIN 5156	1,367
1/4"x19 BSP OAL 200 A/P DRG NO.S23J08002	1,436
1/4"x19 BSPT BTM T/L 19 OAL 67MM	1,984
3/8"x19 BSP BTM RG	1,661
1/2"x14 BSP TAPER RG	2,425

BSP	
PRODUCT DESCRIPTION	PRICE (RS)/NO
1/2"x14 BSP OAL250 DRG NO S23J08004	3,663
3/4"x14 BSPT BOTTOM T/L 30MM	5,145
3/4"x14 BSP 5FL SPPT M35 TIN	6,977
1"x11 BSP TYPE"C" OAL 160MM	6,284
1"x11BSP,OAL250 A/P DRG NO.S23J08006	8,585
1 1/4"x11 BSP TYPE"C" OAL 160MM	9,692

CUSTOMISED HSS TAPS

TYPE B TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M6X1.0 TYPE "B" TIN	1,036
M6X1.0 TYPE"B" 6G TIN	1,054
M8X1.25 TYPE"B" 6G TIN	1,210
M6X1.0 TYPE "B" M35	1,223
M8X1.25 TYPE"B" 3FL M35 TIN	1,044
M10X1.25 LS TYPE "B" 3FL	1,246

TYPE B TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M10X1.5 TYPE"B" 6G TIN	1,532
M10X1.25 LS TYPE"B" M35 TIN	1,970
M12X1.75 TYPE 'B' 4FL	1,741
M48X5.0 TYPE"B"	29,608
M48X5.0 TYPE"B" M35 OAL 300MM	45,968

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CUSTOMISED HSS TAPS

TYPE C TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M5X0.8 TYPE "C" 6G	696
M5X0.8 TYPE 'C' BLUE TEMP.	701
M6X1.0 TYPE 'C' 6G	744
M6X1.0 TYPE "C" FEMALE CENTRE	744
M6X1.0 TYPE "C" BLUE TEMPERING	758
M6X1.0 TYPE 'C' 6G TIN	786
M8X1.25 TYPE "C" RETAPPING	809
M8X1.25 TYPE 'C' 6G	809
M8X1.25 TYPE "C" 6G RETAPPING TIN	945
M8X1.25 TYPE "C" M35	1,371
M10X1.25 TYPE "C" 4H 3FL	958
M10.3X1.5 TYPE "C" OAL 125MM	1,097
M10X1.25 TYPE "C" BT	1,126
M10X1.25 TYPE "C" 6G M35	1,510
M10X1.5 TYPE "A" OAL 150MM 6H	1,244
M10X1.5 TYPE "C" OAL 150MM 6H	1,244
M10X1.5 SPIRAL TYPE "C" M35	1,712
M12.3X1.75 TYPE "C" OAL 125MM	1,557

TYPE C TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M12X1.25 TYPE "C" 4FL 6HX SG	1,612
M12X1.5 TYPE "C" 4FL CI	1,772
M12X1.25 LS TYPE "C" 4FL	1,846
M12X1.25 L.S. TYPE 'C'-L.H.	2,012
M14X1.5 TYPE "C" 4FL CI	2,194
M14X1.5 LS TYPE "C" 4FL	2,228
M14X1.5 TYPE "C" 6HX TIN	2,333
M16X2.0 TYPE "C" 3FL 6HX (MF311088038)	2,136
M20X2.5 TYPE "C" OAL 275MM 6H	4,636
M20X1.5 TYPE "C" 4FL CI	4,819
M30X2.0 TYPE "C" 7H M42	10,043
M33X1.5 TYPE "C" 5H6H	9,556
M42X3.0 LS S02 (TYPE A & TYPE C) TIN	43,641
M48X3.0 LS S02 (TYPE "A" & TYPE "C")	54,285
M48 X 5.00 TYPE "C"	24,674
M48X5.0 TYPE "A" M35 OAL 300MM	39,973
M48X5.0 TYPE "C" M35 OAL 300MM	39,973
M52X4 SPIRAL TYPE "C" TIN	37,325

CUSTOMISED HSS TAPS

SECOND TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M4X0.7 P-3 SECOND M42	763
M5X0.8 P-3 SECOND M42	816
M6X1.0 LS SECOND 6H	796
M6X1.0 P-3 SECOND M42	816
N04 BA SECOND	503
5/16"X22 BSF SECOND	540
M8X1.25 SECOND MALE TIN	567
M8X1.25 SECOND RETAPPING BT 4H	567
M8X1.25 SECOND MALE RETAPPING BT	567
M8x1.25 SECOND MC1 HSSE	762
M8X1.0 SECOND BT	599
M8X1.25 LS SECOND	809
3/8"X20 BSF SECOND	657

SECOND TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M10X1.25 SECOND BT	631
M10X1.25 SECOND 4H BT	754
M12X1.25 SECOND 4H	1,259
M16X2.0 SECOND TIN 6H	2,027
M16X1.5 SECOND TIN 6H	2,037
M16X1.5 SECOND (M/D 16.12 TO 16.15)	2,400
M16X2.0 M42 SECOND	2,419
M20X1.5 SECOND 6G	3,039
M22X2.5 SECOND M35 7H	3,895
M27X3.0 SECOND OAL 180MM 7H	7,054
1 1/2"X8 BSF SECOND	10,350
M38X1.5 SECOND T/L 90 OAL 190MM 7H TIN	15,631

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CUSTOMISED HSS TAPS

SPPT TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M2.5X0.45 SPPT 3FL	857
M3.5X0.6 SPPT DIN371 6GX F/C TIN M35	989
M4X0.7 SPPT 3FLT 6GX M35 TIN	939
M5X0.8 SPPT 4H	583
M5X0.8 SPPT 3FL M42	808
M5X0.80 SPPT 6G M35 TIN	865
M5X0.8 SPPT 3FL M42 TIN	894
M5X0.8 SPPT 3FL 7G TIN M35	991
M5X0.5 6H+0.040 SPPT M35 TIN	1,141
M6X1.0 SPPT 3FL 4H	583
M6X1.0 SPPT 3FL 7G TIN M35	991
M6X1.0 SPPT M35 6GX TIN P-3	1,029
M8X1.25 SPPT 3FL F/C	675
M8X1.25 SPPT 3FL MALE	675
M8X1.0 SPPT TIN MALE CENTRE	955
M8X1.25 SPPT 6G 3FL TIN M35	1,037
M8X1.0 SPPT 6G M35 TIN P-3	1,335
N06 BA SPPT M35	829
M10X1.5 SPPT 3FL F/C	844
M10X1.0 SPPT 3FL	925
M10X1.25 SPPT 3FL	925
M10X1.5 SPPT 3FL 6G TIN MALE	1,192
M10X1.25 SPPT MALE CENTRE 3FL TIN	1,252
M12X1.25 SPPT 3FL	1,424
M12X1.5 SPPT 3FL	1,424
M12X1.25 SPPT TIN	1,633
M12X1.75 MALE CENTRE SPPT 3FL	1,292
M12X1.25 4FL SPPT 7G M35 TIN	2,377
M12X1.5 T/L 18MM SPPT 6HX M42	2,518

SPPT TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M12X1.5 SPPT 6G MA2 HSSE	2,564
M16X1.5 SPPT 3FL	1,926
M16X1.5 SPPT M35 6G TIN	2,962
M18X1.5 SPPT T/L 90 OAL 190 7H TIN	4,388
M18X1.5 SPPT M35 DIN374 TIN	4,532
M20X2.5 SPPT 4FL	3,615
M20X2.5 SPPT 4FL M35 TIN	5,048
M20X1.5 SPPT T/L 90 OAL 190 7H TIN	5,198
M20X2.5 SPPT M42	5,605
M20X1.5 SPPT M35 TIN	5,710
M20X1.5 SPPT T/L 90 OAL 190 7H BT	6,037
M20X1.5 LS 'B' SPPT 4FLT TIN M35	7,451
M22X1.5 SPPT T/L 90 OAL 190 7H TIN	6,146
M20X1.5 SPPT 6FL FULL HSSE TIN	6,416
M24X1.5 SPPT T/L 90 OAL 190 7H TIN	6,587
M24X2.0 SPPT 4FL 4H	3,873
M24X3.0 SPPT SPRL15DEG M35 6G OL160 BT	7,240
M24X1.5 SPPT 6FL FULL HSSE TIN	7,595
M27X3.0 SPPT SPRL15DEG M35 6G OL170 BT	10,733
M30X3.5 SPPT SPRL15DEG M35 6G OL180 BT	10,696
M30X1.5 SPPT OAL 190 (Zero B/Taper) TIN	11,842
M30X1.5 SPPT OAL 190 TIN 7H RH	11,842
M30X1.5 SPPT T/L 90 OAL 190MM 7H BT	12,215
M30X3.0 SPPT SPRL15DEG M35 6G OL180 BT	12,453
M36X3.0 SPPT SPRL15DEG M35 6G OL200 BT	21,770
M38X1.5 SPPT T/L 40 OAL 190MM 7H TIN	15,449
M38X1.5 SPPT T/L 90 OAL 190 7H TIN	16,256
M40X1.5 SPPT T/L 50 OAL 190 7H TIN	18,087
M40X2.0 SPPT 6FL M35 TIN FULL HSSE	29,836

CUSTOMISED HSS TAPS

NUT TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M5X0.8 NUT TAP 3FL M35	1,310
M4X0.7 NUT TAP 3FL M42	1,503
M30X3.5 NUT TAP OAL 210MM T/L 90 M35 TIN	19,629
M33X3.5 NUT TAP OAL 210MM T/L 90 M35 TIN	21,582

NUT TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M42X4.5 NUT TAP OAL 210MM T/L 90 M35 TIN	25,997
M45X4.5 NUT TAP OAL 210MM T/L 90 M35 TIN	31,093
M52X5.0 NUT TAP OAL 210MM T/L 90 M35 TIN	58,363

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CUSTOMISED HSS TAPS

SPIRAL FLUTE TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M6X1.0 DIN371 SPIRAL M35 TIN	1,044
M8X1.25 DIN376 15°SLOW SPIRAL M35 TIALN	1,680
M9X1.25 SPIRAL M35 TIALN	1,178
M10X1.25 SPIRAL 3FL 6G	992
M10X1.25 SPIRAL 6G TIN	1,540
M10X1.25 SPIRAL 6GX M35 TIN	1,557
M12X1.75 LS SPIRAL TIN	2,196
M12X1.0 SPIRAL 3FL TIN M35	2,596
M12X1.25 4FL SPIRAL M35 TIN	3,202
Miranda Standard HSS-E (8%Co) MF Spiral Flute Tap for General Purpose, TiCN Coated, M12 x 1.25 mm	4,341
Miranda Standard HSS-E (5%Co)M12X1.5 15DEG SPRL OAL115MM, TiN Coated M12 x 1.50 mm	2,853
Miranda Standard HSS-E (8%Co) MF Spiral Flute Tap for General Purpose, TiCN Coated, M14 x 1.50 mm	5,193
9/16"X20 UNEF SPIRAL BTM TIN M35	3,314
5/8"X20 UNEF SPIRAL BTM TIN M35	3,314
M16X1.5 SLOW SPIRAL M35 TIN	2,839

SPIRAL FLUTE TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
Miranda Standard HSS-E (5%Co) MF Slow Spiral Flute Tap120 MM LA 22°, TiN Coated, M18 x 1.50 mm	4,337
M18X1.5 4FL SPIRAL TIN M35	5,209
IS 6175-P3 HSS-E (5%Co) MF 35° Spiral Flute Tap, TiN Coated, M18 x 1.50 mm	5,209
M18X1.5 3FL SLOW SPIRAL M35 TIN	5,736
M18X1.50 L.S SLOW SPIRAL 3FL M35 TIN	6,625
M24X3.0 DIN376 45°SPIRAL 6HX TiCN	8,054
Miranda Std. HSS-E (5%Co) MF Slow Spiral M27X2.0 SPPT SPRL15DEG M35 6G OL160 , ST, M27 x 2.00 mm	11,111
Miranda Std. HSS-E (5%Co) MF Slow Spiral M30X3.0 SPPT SPRL15 DEG 6G OL180, LH ST, M30 x 3.00 mm	15,324
M30X3.5 SPIRAL T/L 45MM OAL 140MM M35	9,025
1 1/4"X8 UN SPIRAL	9,010
M36X4.0 SPIRAL T/L 45MM OAL 140MM M35	14,532
IS 6175-P3 HSS-E (5%Co) MF 35° Spiral Flute Tap, TiN Coated, M38 x 1.50 mm	26,732
2"x8 UN SPIRAL	30,136

CUSTOMISED HSS TAPS

SET OF THREE	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M3X0.6 S03 M42 SIM CLASS II	2,247
M3X0.5 S03 SQ.LENGTH 25.00MM	2,404
M4X0.75 S03 M42 SIM CLASS II	2,247
M4X0.7 S03 SQ.LENGTH 24.00MM	2,404
M5X0.8 4H S03 M42	2,044
M5X0.8 S03 SQ.LENGTH 28.00MM	2,570
M6X1.0 S03 F/C	1,411

SET OF THREE	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M6X1.0 S03 M42 SIM CLASS II	2,247
M8X1.25 S03 SIM CLASS II	1,698
M6X1.0 S03 SQ.LENGTH 31.00MM	2,570
M8X1.25 3FL S03 M42 4H6H T/L 30 OAL 66MM	2,800
M12X1.75 S03 M35 4H TIN	5,322
M16X1.5 SERIAL S03	5,609
M30X3.0 LS SERIAL S03 TIN	13,068

CUSTOMISED HSS TAPS

SET OF TWO (S02)	
PRODUCT DESCRIPTION	PRICE (RS)/NO
1/4"X26 BSF S02	952
1/4"X18 NPSF S02	3,440
M8X1.0 S02 M35 4H TIN	2,228
M10X1.0 S02 M35 4H TIN	2,576
M10X1.25 S02 M35 4H TIN	2,576
M12X1.25 S02 M35 TIN	3,608

SET OF TWO (S02)	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M12X1.25 S02 M35 4H TIN	4,056
M16X1.0 SERIAL S02	3,393
M24X1.0 SERIAL S02	8,533
1"X14 NPT S02	16,406
1 3/8"x8 UN S02 TIN	18,367
M38X1.5 6G S02 M42	49,179

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CUSTOMISED HSS TAPS

BOTTOM TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M2.5X0.45 BTM M35 TIN	1,096
M4X0.7 BTM 4H	441
M5X0.8 BTM 6G BT(AL)	468
M6X1.0 BTM 6G BT(AL)	468
M6X1.0 BOTTOM FEMALE CENTRE	471
M6X1.0 BTM 25°LEAD ANGLE	472
M6X1.0 BOTTOM BLUE TEMP.	481
M6X1.0 BTM 6G M35	634
M6X1.0 BTM CI M35 6G	685
M6X1.0 SPL BTM M35 AS PER DRG.	752
M8X1.25 BTM MALE	567
M8X1.25 BTM 25°LEAD ANGLE	567
M8X1.25 BTM CI BT P-3	631
M8X1.25 BOTTOM 3FL TIN	825
M8X1.25 BOTTOM DIN371 M35	879
M8X1.0 BOTTOM P-3 M35	999
M8X1.25 BTM P-3 CI M35 TIN RAKE ANGLE 3°	1,040
M10X1.25 BOTTOM BT	708
M10X1.25 BTM 6G	754
M10X1.0 BOTTOM TIN	861
M10X1.5 BTM 6G M35	924
M10X1.25 BTM TIN	955
M10X1.0 BTM M35 BT	1,030
M10X1.0 BTM 6G M35 CI TIALN	1,539
M10X1.5 BTM OAL 190MM 6G RETAPPING TIN	1,785
M12X1.75 BOTTOM IS6175-1992 PART3 HSS	1,070
M12X1.75 BTM 7H	1,070
M12X1.75 BTM TIN	1,335
M12X1.25 BTM M35	1,700
M12X1.75 BTM DIN 376 M35 TIALN OAL 105MM	1,844
M14X1.5 BTM AL	1,882
M14X1.5 BTM 6HX M35 TIALN	1,999
M14X1.5 BTM OAL 135MM 6HX TIN	2,565
M16X2 BTM 7H	1,560

BOTTOM TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M16X1.5 BOTTOM 5H6H TIN	1,891
M16X2.0 BTM TIN	2,035
M16X2 BTM M35	2,107
M16X2.0 BTM M35 7G	2,108
M16X1.5 BTM M35	2,115
M16X1.5 BTM CI M35 6G	2,271
M16X1.5 BTM M35 TIN	2,447
M18X1.5 BOTTOM 6G	2,691
M18X1.5 BOTTOM 5H6H TIN	3,156
M18X1.5 BTM TIN 6H	3,157
M18X1.5 BTM M35	3,631
M25X3.0 BTM	4,395
M20X1.5 BOTTOM 6HX 5G	3,403
M20X2.5 BOTTOM 7H	3,017
M20X1.5 BTM 6HX T/L 29MM OAL104MM	4,726
M20X1.5 BOTTOMING TIN M35	5,057
M20X1.5 T/L 25MM OAL 125MM BTM M35	5,275
M24X3.0 SPL TAP BTM OAL180 ASPER DRG TIN	5,219
M24X1.5 BTM M35 ALCRONA COATING	6,758
M32X1.5 BTM	7,259
M27X3.0 SPL TAP BTM OAL180 ASPER DRG TIN	8,040
M34X1.5 BOTTOM 4FL	11,573
M36X1.5 BTM	11,572
NO2 BA BTM	503
NO4 BA BTM	503
1/8"x27 NPSF BTM	1,008
1/8"x27 NPTF BTM	1,112
1/8"x27 NPTF BOTTOM OAL 115MM	1,305
1/4"x18 NPTF BTM OAL 115MM	2,371
3/8"x18 NPTF BTM	2,727
3/4"x16 BSCY BTM	4,007
1"x14 UNS BOTTOM	4,122
3/4"x16 BSCY BOTTOM TIN M35	5,634

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CUSTOMISED HSS TAPS

OTHERS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M4X0.7 TAPER TIN	371
M3X0.5 INTERMEDIATE	461
M4X0.7 ROUGHER	461
VG5 SHANK 5.4MM PITCH 36 WITH RECESS	468
M5X0.8 SERIAL ROUGHER	494
0.210"X36 NS OAL 66 MM	507
0.212X36 NS T/L30MM OAL 66MM W/O RECESS	507
M8X1.25 INTER	567
M8X1.25 ROUGHER	567
M8X1.25 FINISHER	593
VG 8 SHANK 6.3MM 32 PITCH	593
M4X0.7 SERIAL INTERMEDIATE M42	702
M3.5X0.6 SERIAL INTERMEDIATE M42	702
M10X1.5 ROUGHER	715
M12X1.75 3FL TAPER	1,070

OTHERS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M12X1.75 FINISHER	1,126
M2.5X0.45 ROUGHER M42	1,134
M2.5X0.45 SERIAL INTERMEDIATE M42	1,172
M2X0.4 ROUGHER M42	1,193
M12X1.25 TAPER RETAPPING	1,259
M8X1.25 DIN371 M42 6HX TIALN CI	1,575
M12X1.75 T/L 29 OAL 89MM M35 TIALN	1,616
M12X1.5 SEC MC2 HSSE (M/D 12.12 to 12.15	1,939
M20X2.5 FINISHER	3,168
1"X14 WITHWORTH 1:8 TAPER M35	3,932
1"X14 WITHWORTH 3:25 TAPER M35	5,338
M30X3.5 INTERMEDIATE	6,409
M30X3.5 ROUGHER	6,409
M30X3.5 FINISHER	6,409
M30X1.5 SEC 6FLT/L 75 OAL170 7HTIN RH	10,565

HIGH PERFORMANCE DIN STANDARD TAPS

STANDARD, DIN 371			
SIZE	BOTTOM TIN	SPPT M35	SPPT M35 TIN
	PRICE (RS)/NO	PRICE (RS)/NO	PRICE (RS)/NO
M4.0 x 0.70		858	
M5.0 x 0.80			999
M6.0 x 1.00	674		999
M8.0 x 1.25	828		
M10 x 1.50	1,048		

STANDARD, DIN 376			
SIZE	BOTTOM TIN	SPPT M35	SPPT M35 TIN
	PRICE (RS)/NO	PRICE (RS)/NO	PRICE (RS)/NO
M12 x 1.75	1,580		
M14 x 2.00	2,238		
M16 x 2.00	2,238		
M18 x 2.50	3,355		
M20 x 2.50	4,140		
M24 x 3.00	4,901		

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HSS HIGH PERFORMANCE PLATINUM CUT (EDGE) TAPS

INTRODUCTION

HIGH PERFORMANCE PLATINUM CUT EDGE are most productive tap design for continuous production on machines. Made from a premium cobalt substrate to improve performance and tool life, designed for medium to high strength steel, Carbon steel, alloy steel, forged components



- Flute types : Straight flute, Spiral point, Spiral flute
- Available in Metric coarse and fine
- DC Range : M3-M20
- Uncoated, TIN coated, TiAlN Coated
- IS 6175, Bs949

FEATURES & BENEFITS

- ▶ High performance new innovative design for excellent chip evacuation
Increased static and dynamic strength of thread
- ▶ Excellent thread surface quality
- ▶ Newly developed Surface treatment to withstand the high stress and high heat associated

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MIRANDA EDGE - PLATINUMCUT TAPS

SIZE	SPPT			SPIRAL FLUTE			STRAIGHT FLUTE BTM			CAST IRON SECOND	CAST IRON BOTTOM		
	UNCOATED	TIN	TIALN	UNCOATED	TIN	TIALN	UNCOATED	TIN	TIALN	UNCOATED	UNCOATED	TIN	TIALN
	MA1	MA2	MA3	MB1	MB2	MB3	MC1 PRICE	MC2 PRICE	MC3 PRICE	CI MC1 PRICE	CI MC1 PRICE	CI MC2 PRICE	CI MC3 PRICE
M3 x 0.5	776	892	932	891	1022	1067	646	743	777	680	646	743	777
M4 x 0.7	776	892	932	891	1022	1067	646	743	777	680	646	743	777
M5 x 0.8	812	934	976	932	1070	1118	680	782	816	680	680	782	816
M6 x 1.0	812	934	976	932	1070	1118	680	782	816	680	680	782	816
M8 x 1.0	*	*	*	1158	1331	*	*	*	*	*	*	*	*
M8 x 1.25	913	1048	1095	1044	1199	1251	762	874	914	*	762	874	914
M10 x 1.0	*	*	*	*	*	*	*	*	*	*	*	*	*
M10 x 1.25	1310	1507	*	*	1726	*	1094	1259	*	*	1094	*	*
M10 x 1.5	1127	1296	1367	1292	1484	1551	941	1084	1131	*	941	1084	1314
M12 x 1.0	*	*	*	*	*	*	*	*	*	*	*	*	*
M12 x 1.25	*	*	*	*	*	*	*	*	*	*	*	*	*
M12 x 1.50	2028	2330	*	2321	2671	*	1688	*	*	*	1688	1939	*
M12 x 1.75	1740	1999	2086	1991	2291	2390	1450	1667	1765	*	1450	1667	1741
M14 x 2.0	2088	2399	2503	2390	2749	2868	*	1991	2121	*	2128	2030	*
M16 x 2.0	2401	2759	2879	3751	3161	3298	*	2435	2436	*	2448	2335	*
M18 x 2.5	3018	3394	3627	3399	3986	4213	*	2872	3068	*	3077	2872	*
M20 x 2.5	3175	3677	3863	3791	4347	4635	*	3088	3226	*	3237	3088	*
M24 x 3.0	*	*	*	*	6949	*	*	*	*	*	*	*	*

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	-

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TUNGSTEN CARBIDE TIPPED TOOLS

INTRODUCTION

Miranda Carbide tipped tools are ready to use tools for various machining applications in tough and unstable conditions. Specially designed shank and unique process of brazing gives optimum performance and higher tool life



- Available in various grades in P and K series of carbide grade suiting to various application

FEATURES & BENEFITS

- ▶ Specially designed with ready to use for cutting on heavy machine
- ▶ Capability to absorb shock, best to use in interrupted cutting.
- ▶ Unique shank design helps proper mounting of tools

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TUNGSTEN CARBIDE TIPPED TOOLS

ISO 1 (110) BAR TURNING TOOLS



SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
		P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
1010	90	*	433	*	*	*	*	*	433	*	*	*	*
1212	100	*	470	*	*	*	470	*	470	*	*	*	*
1616	110	*	634	*	*	*	634	*	634	*	*	*	*
2020	125	*	1,012	1,012	*	*	1,012	*	1,012	*	*	*	*
2525	140	*	1,518	1,518	*	*	1,518	*	1,518	*	*	*	1,518
3232	170	*	2,477	*	*	*	*	*	2,477	*	*	*	*
4040	200	*	*	*	*	*	*	*	*	*	*	*	*
5050	240	*	*	*	*	*	*	*	*	*	*	*	*
1610	110	*	*	*	*	*	*	*	*	*	*	*	*
2012	125	*	699	*	*	*	*	*	*	*	*	*	*
2516	140	*	*	*	*	*	*	*	*	*	*	*	*
3220	170	*	*	*	*	*	*	*	*	*	*	*	*
4025	200	*	*	*	*	*	*	*	*	*	*	*	*
5032	240	*	*	*	*	*	*	*	*	*	*	*	*
6040	280	*	*	*	*	*	*	*	*	*	*	*	*

ISO 2 (111) CRANKED TURNING & FACING TOOLS



SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
		P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
1010	90		470	470			470		470				470
1212	100		517				517		517			517	517
1616	110	716	716	716		716	716		716	716			716
2020	125	991	991	991		991	991		991	991		991	991
2516	140		1,012						1,012				
2525	140	1,489	1,489	1,489	1,489	1,489	1,489		1,489	1,489			1,489
3220	170		1,610				1,610						1,489
3232	170		2,564	2,564			2,564		2,564	2,564			2,564
4025	200						2,882						
4040	200		4,992			4,992							

ISO 3 (123) CRANKED FINISHING TOOLS



SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
		P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
1010	90		470				470		470				
1212	100		517				517		517				517
1610	110		557						557				
1616	110		716				716		716				716
2012	125		754				754		754				754
2020	125		991				991		991				991
2516	140		1,013						1,013				
2525	140		1,489				1,489		1,489				1,489
3220	170		1,610						1,610				
3232	170		2,564						2,564				
4040	200												
5050	240												

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TUNGSTEN CARBIDE TIPPED TOOLS

ISO 3 (123) CRANKED FINISHING TOOLS



SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
		P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
1010	90	470	470	470			470	470	470	470			
1212	100	517	517	517			517	517	517	517			517
1610	110	557	557	557				557	557	557			
1616	110	716	716				716	716	716				716
2012	125	754	754	754			754	754	754	754			754
2020	125	991	991	991			991	991	991	991		991	991
2516	140	1,013	1,013	1,013				1,013	1,013	1,013			
2525	140	1,489	1,489				1,489	1,489	1,489		1,489		1,489
3220	170	1,610	1,610	1,610				1,610	1,610	1,610			
3232	170	2,564	2,564			2,564		2,564	2,564				
4025	200			2,882									
4040	200		4,992										4,992

ISO 5 (126) CRANKED FACING TOOLS



SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
		P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
1010	90	470	470	470			470	470	470	470			470
1212	100	517	517	517			517	517	517	517			517
1610	110	557		557				557		557			
1616	110	716	716				716	716	716	716		716	716
2012	125	755	755	755				755	755	755			
2020	125	991	991				991	991	991	991			991
2516	140	1,013	1,013	1,013				1,013					1,013
2525	140	1,489	1,489				1,489	1,489	1,489				1,489
3220	170	1,610	1,610	1,610				1,610	1,610	1,610			
3232	170	2,565	2,565				2,565	2,565	2,565				
4025	200			2,885			2,885						2,885
4040	200												
5050	240												
1/2"	100						517						
5/8"	110						991						
3/4"	125						717						

ISO 6 (117) CRANKED KNIFE TOOLS



SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
		P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
0606	70		421	421									
0808	80		472	421			472		472				
1010	90	470	470	470			470	470	470	470			470
1212	100	517	517	517		517	517	517	517	517		517	517
1610	110	557	557	557				557	557	557			
1616	110	716	716	716		716	716	716	716	716			716
2012	125	755	755	755				755	755	755			
2020	125	991	991	991	991	991	991	991	991	991	991	991	991
2516	140	1,013	1,013	1,013			1,013	1,013	1,013	1,013			
2525	140	1,489	1,489	1,489	1,489	1,489	1,489	1,489	1,489	1,489	1,489	1,489	1,489
3220	170	1,905	1,905	1,905			1,905	1,905	1,905	1,905			1,905
3232	170	2,565	2,565	2,565	2,565		2,565	2,565	2,565	2,565			2,565
4025	200		2,893				2,893		2,893				2,893
4040	200		4,992				4,992						4,992
5050	240								10,592				

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TUNGSTEN CARBIDE TIPPED TOOLS

ISO 7 (150) PARTING OFF TOOLS	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
	1006	90	470	470	470			470	470		470			
	1010	90		564				563		563				563
	1208	100	557	557	557	557		557	557	557	557			557
	1212	100		640	640			640		640				640
	1610	110	592	592	592	592		592	592	592	592			592
	1616	110		710	710			710		710				710
	2012	125	656	656	656	656		656	656	656	656			656
	2020	125		784	784			784		784				784
	2516	140	869	869	869	869		869	869	869	869			869
	2525	140		1,050	1,050			1,050		1,050	1,050			1,050
	3220	170	1,396	1,396	1,396			1,396	1,396	1,396	1,396			1,396
	3232	170		1,668						1,668				
	4025	200	2,307	2,307	2,307		2,307	2,307		2,307	2,307			2,307
	5032	240												

ISO 8 (130) BORING TOOLS (SQUARE)	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
	0808	125		866	866			866		866				
	1010	150		929	929			929		929				929
	1212	180		1,013	1,013	1,013		1,013		1,013				1,013
	1616	210		1,217			1,217	1,217		1,217	1,217			1,217
	2020	250		1,489	1,489			1,489		1,489				1,489
	2525	300		2,783	2,783			2,783		2,783	2,783			2,783
	3232	355	3,618	3,618				3,618		3,618				3,618
	4040	400		5,254										
	5050	450												

ISO 8 (130) BORING TOOLS (ROUND)	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
	0008	125		804				804		804				804
	0010	150		866				866		866				866
	0012	180		929				929		929				929
	0016	210		1,067				1,067		1,067				1,067
	0020	250		1,303				1,303		1,303				1,303
	0025	300		2,478				2,478		2,478				
	0032	355		3,154										

ISO 9 (135) BORING TOOLS (SQUARE)	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
	0606			866										
	0808	125	866	866	866	866		866		866	866			866
	1010	150	929	929	929			929		929	929			929
	1212	180	1,013	1,013	1,013	1,013		1,013		1,013	1,013			1,013
	1414	180		1,217										
	1616	210	1,217	1,217	1,217	1,217		1,217		1,217	1,217			1,217
	2020	250	1,489	1,489	1,489	1,489		1,489		1,489	1,489			1,489
	2525	300	2,783	2,783	2,783	2,783		2,783		2,783	2,783			2,783
	3232	355	3,618	3,618		3,618		3,618		3,618	3,618			
	4040	400		5,254										

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TUNGSTEN CARBIDE TIPPED TOOLS

ISO 9 (136) BORING TOOLS (ROUND)	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
	0008	125	804	804	804			804		804				
	0010	150	866	866	866			866		866				
	0012	180	929	929	929			929		929				
	0016	210	1,067	1,067	1,067			1,067		1,067				
	0020	250	1,303	1,303	1,303			1,303						
	0025	300	2,477	2,477	2,477			2,477						
	0032	355	3,154	3,154	3,154			3,154						
115 - CRANKED ROUND NOSE TURNING TOOLS.	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
	1010	90		517				517		517				
	1212	100		551	551			551		551				551
	1616	110		755	755		755	755		755				755
	2012			727										
	2020	125		1,127	1,127			1,127		1,127				1,127
	2516						991	991		991				
	2525	140		1,627						1,627				1,627
	3220									1,378				
	3232	170		3,154						3,154				
	4025									2,747				
116 BAR TURNING TOOLS	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
	1010	90		425				425		425				
	1212	100		470				470		470				470
	1616	110		628				628		628				628
	2012			816										
	2020	125		929				929		929				929
	2516			1,165				1,165		1,165				
	2525	140		1,437				1,437		1,437				1,437
	3232	170		2,484						2,484				
140 (60°) BORING TOOLS (SQUARE)	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
	0808	24		542										
	1010	50		542				542		542			542	542
	1212	60		621	621			621		621				621
	1616	90		869	869			869						869
	2020	120		1,380						1,380				
	2525	175		1,819										
	3/8"	50						542						
	1/2"	60						622						
	5/8"	90						869						
	3/4"	120						1,380						
	1"	175												

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TUNGSTEN CARBIDE TIPPED TOOLS

140 (60°) BORING TOOLS (ROUND)	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
	0008	24								470				
	0010	50												
	0012	60						551						551
	0016	90												716
	0020	120								1,281				
	0025	175												
	3/8"	50												
	1/2"	60												
	5/8"	90												
	3/4"	120												1,281
	1"	175												

141 (90°) BORING TOOLS (SQUARE)	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
	0808	24												
	1010	50		542						542				
	1212	60		621						621				621
	1616	90		869						869				
	2020	120		1,380						1,380				1,380
	2525	175		1,819						1,654				
	3/8"	50												
	1/2"	60												
	5/8"	90		869										
	3/4"	120		1,380										
	1"	175												

141 (90°) BORING TOOLS (ROUND)	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
	0008	24		470					470					
	0010	50		470					470					
	0012	60		551					551					
	0016	90		716					716			716		
	0020	120										1,281		
	0025	175		1,662										

142 (45°) BORING TOOLS (SQUARE)	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
	0808	24		542										
	1010	50		542						542				
	1212	60		621				621						
	1616	90		869				869					869	
	2020	120		1,380						1,380				
	2525	175						1,819					1,819	

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TUNGSTEN CARBIDE TIPPED TOOLS

142 (45°) BORING TOOLS (ROUND)	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
	0008	24								470				
	0010	50								470				
	0012	60												
	0016	90												716
	0020	120												
	0025	175												

156 CRANKED INTERNAL RECESSING TOOLS	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
	1010	90		889	889			889		889				889
	1212	100		1,013	1,013			1,013		1,013				1,013
	1616	110		1,135	1,135			1,135		1,135				1,135
	2020	125		1,466	1,466	1,466		1,466		1,466				1,466
	2525	140		2,008	2,008			2,008						
	3232	170		2,858	2,858									
	4040	315		4,739										

165 STRAIGHT THREADING TOOLS (55°)	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
	1010	90			621						621			
	1212	100			657									
	1610				760						760			
	1616	110			856									
	2012				881									
	2020	125			1,165									
	2516													
	2525	140			1,732						1,732			
	3232	170			2,292						2,292			

165 STRAIGHT THREADING TOOLS (60°)	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
	1010	90		621	621			621		621	621			
	1212	100		657	657			657		657	657			657
	1610				760						760			
	1616	110		856	856			856		856	856			856
	2012				881						786			
	2020	125		1,165	1,165			1,165		1,165	1,165			1,166
	2516				1,050						1,050			
	2525	140		1,732	1,732			1,732		1,732	1,732			
	3232	170		2,292	2,292									

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TUNGSTEN CARBIDE TIPPED TOOLS

166 INTERNAL THREADING TOOLS (60°)	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
	1010	90		1,026	1,026			1,026		1,026	1,026			1,026
	1212	100		1,161	1,161			1,161		1,161				1,161
	1616	110		1,259	1,259	1,259		1,259		1,259				1,259
	2020	125		1,544	1,544	1,544		1,544		1,544				
	2525	140		2,022	2,022	2,022		2,022		2,022				
	3232	170		3,050	3,050			3,050						

IND-2 EXTERNAL THREADING TOOLS	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO						LEFT HAND (LH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20	P20	P30	P40	K05	K10	K20
	1010	90		729				729						
	1212	100						861		861				
	1616	110		915	915			915		915				
	2020	125		1,016	1,016	1,016				1,016				
	2525	140		1,698				1,698		1,698				

TUNGSTEN CARBIDE TIPPED TOOLS NEUTRAL SHAPE

113 STRAIGHT ROUND NOSE TURNING TOOL	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20
	1010	90		470				470
	1212	100		517			517	517
	1616	110		727	727			727
	2012			688				
	2020	125		1,127	1,127			1,127
	2525	140		1,627		1,627		1,627
	3220			1,309				1,309
	3232	170		3,022			3,022	3,022
	4040	200					5,605	

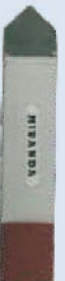
122 POINTED TURNING TOOLS	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20
	1010	90		470				470
	1212	100		575	575			575
	1616	110		634				634
	2012	125						
	2020	125		869				869
	2516	140		869				869
	2525	140			1,237			1,237
	3220	170		1,294				1,294
	3232	170		3,068				3,068

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TUNGSTEN CARBIDE TIPPED TOOLS NEUTRAL SHAPE

ISO 4 (127) RECESSING TOOLS 	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20
	1010	90		470				579
	1212	100	579	579				
	1610	110						
	1616	110	861	861				861
	2012	125						
	2020	125		1,294	1,294			1,294
	2516	140						
	2525	140		2,110	2,110			2,110
	3220	170						
	3232	170						4,164

163 STRAIGHT TURNING & GROOVING TOOLS 	SHANK SIZE H X B (mm)	L (mm)	RIGHT HAND (RH), PRICE (RS)/NO					
			P20	P30	P40	K05	K10	K20
	1010	90	575	575	575			575
	1212	100	656	656	656		656	656
	1610	110	563	563	563			
	1616	110	991	991	991			991
	2012	125	718	718	718			
	2020	125	1,445	1,445	1,445	1,445	1,445	1,445
	2516	140	1,087	1,087	1,087			
	2525	140	2,413	2,413	2,413	2,413	2,413	2,413
	3220	170	1,780		1,780			
	3232	170	5,255	5,255	5,255			5,255
	4025	200						
	4040	200	10,089	10,089	10,089			10,089
	5032	240						

CUSTOMISED CTT

PRODUCT DESCRIPTION	PRICE (RS/NO)	PRODUCT DESCRIPTION	PRICE (RS/NO)
CTT ISO 6 NO.117 10X10 LH GR.K20 C TIP	470	CTT AS PER ISO 2 NO.111 16X16X135 RH P40	783
CTT ISO 6 NO.117 12X12 LH GR.K20 C TIP	517	CTT AS PER ISO 6 NO.117 16X16X135 LH P40	783
CTT ISO 6 NO.117 12X12 RH GR.K20 C TIP	517	CTT AS PER ISO 6 NO.117 16X16X135 RH P40	783
CTT AS PER ISO NO.165 10 X10ST GR.K20	621	CTT AS PER ISO NO.141 16X16X60 LH P40	833
CTT AS PER ISO NO.165 10 X10ST GR.P30	621	CTT AS PER ISO NO.165 16 X16ST GR.K20	856
CTT AS PER ISO NO.165 12 X12ST GR.K20	657	CTT AS PER ISO NO.165 16 X16ST GR.P30	856
CTT AS PER ISO NO.165 12 X12ST GR.P30	657	CTT TO IND2 12X12 RH P30 STD 60DEG	861
CTT AS PER ISO NO.165 12 X12ST GR.P40	657	CTT AS PER ISO NO.122 (IND - 1) 20 X20 RH P30	869
CTT AS PER ISO 2 NO.111 16X16 RH THM	716	CTT AS PER ISO 7 NO.150 20X16 LH GR.K20	869
CTT ISO 6 NO.117 16X16 LH GR.K20 C TIP	716	CTT AS PER ISO 2 NO.111 16X16X160 RH K10	899
CTT ISO 6 NO.117 16X16 RH GR.K20 C TIP	716	CTT AS PER ISO 7 NO.150 25X16X165 LH P40	957
CTT ISO 6 NO.117 16X16 LH GR.P30 C TIP	716	CTT AS PER ISO 7 NO.150 25X16X165 RH P40	957
CTT ISO 6 NO.117 16X16 RH GR.P30 C TIP	716	CTT ISO 6 NO.117 20X20 RH GR.K20 C TIP	991
CTT ISO 6 NO.117 16X16 RH GR.P40 C TIP	716	CTT ISO 6 NO.117 20X20 RH GR.P30 C TIP	991
CTT AS PER ISO NO.165 16 X10ST GR.P30	760	CTT IND2 20X20 60DEG RH K20	1,016
CTT AS PER ISO 2 NO.111 16X16X135 LH P40	783	CTT IND-2 RH 2020 60DEGP 30	1,016

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CUSTOMISED CTT

PRODUCT DESCRIPTION	PRICE (RS/NO)
CTT AS PER IND-2 20X20 RH GR.P10	1,016
CTT AS PER ISO NO.166 10X10 RH 55° P40	1,026
CTT AS PER ISO 7 NO.150 25X16X160 RH K10	1,030
CTT AS PER ISO NO.122 20X20X200 LH P30	1,076
CTT AS PER ISO 6 NO.117 20X20X200 LH GR. P30	1,120
CTT AS PER ISO 6 NO.117 20X20X10" length LH K20	1,127
CTT AS PER ISO 6 NO.117 20X20X10"Length RH K20	1,127
CTT AS PER ISO NO.166 12X12 RH 55° GR.P4	1,161
CTT AS PER ISO NO.165 20 X20ST GR.K20	1,165
CTT AS PER ISO NO.165 20 X20ST GR.P30	1,165
CTT AS PER ISO NO.165 20 X20ST GR.P40	1,165
CTT AS PER ISO NO.122 (IND1) 25X25 80DEG P30	1,237
CTT AS PER ISO NO.166 16X16 RH 55° P40	1,259
CTT AS PER ISO 6 NO.117 25X25 RH THM	1,489
CTT AS PER ISO 1 NO.110 25X25 RH GR.P10	1,518
CTT AS PER ISO NO.166 20X20 RH 55° P40	1,544
CTT ISO 2 NO.111 25X25X170 RH P30	1,579

PRODUCT DESCRIPTION	PRICE (RS/NO)
CTT AS PER ISO 2 NO.111 25X25X160 RH K10	1,644
CTT AS PER ISO 6 NO.117 25X25X160 LH K10	1,644
CTT AS PER ISO 6 NO.117 25X25X160 RH K10	1,644
CTT AS PER ISO 2 NO.111 25X25X165 LH P4	1,670
CTT AS PER ISO 2 NO.111 25X25X165 RH P40	1,670
CTT AS PER ISO 6 NO.117 25X25X165 LH P40	1,670
CTT AS PER ISO 6 NO.117 25X25X165 RH P40	1,670
CTT AS PER ISO NO.165 25 X25ST GR.K20	1,732
CTT AS PER ISO NO.165 25 X25ST GR.P30	1,732
CTT AS PER ISO NO.166 25X25 RH 55° P40	2,022
CTT AS PER ISO NO.166 25X25X180 RH P30	2,124
CTT AS PER ISO NO.165 32 X32ST GR.P30	2,292
CTT ISO 6 NO.117 32X32 RH GR.K20 C TIP	2,565
CTT AS PER ISO 163 25X25X165 ST K10	2,583
CTT AS PER ISO NO.166 32X32X200 RH K20	3,156
CTT AS PER ISO 9 NO.135 32X32X160 LH K20	3,618
CTT AS PER ISO NO.163 50X50X200 ST K20	10,263

MATERIAL TO BE MACHINED

IDENTIFICATION COLOUR	DESIGNATION	MATERIAL TO BE MACHINED
	P20	tip grade suitable for materials forming long chips at finishing to medium cutting conditions primary for carbon steel alloy steel and malleable cast iron in continuous cut. Suitable for Turning and milling applications.
	P30	tip grade Suitable for materials forming long chips at medium to low cutting conditions primary for carbon steel alloy steel and malleable cast iron under unfavourable conditions such as heat erogenous materials changing hardness or chip section. Suitable for Turning, milling and planning applications, intermittent turning or subjec to vibrations.
	P40	tip grade suitable for materials forming large chip section with possibility of using large rake angle for maching under unfavourable conditions Steel, steel casting with sand inclusions or shrinkage cavities Machining Conditions Turning, Planning & Shapping-Low cutting speed, , such as heat erogenous materials, changing hardness or chip sections, intermillent turning or subject to vibrations; and work on automatic machines.
	K05	Tip grade is suitable for finishing to general machining of most workpiece materials at higher speeds. Excellent for machining most steels, stainless steels, cast irons, non-ferrous materials and super alloys under stable conditions. Tough substrate and improved adhesion of thick coating show superior wear resistance.
	K10	Tip grade suitable for Grey cast iron of hardness more than 220 HB, Malleable cast iron forming short chips, Tempered steel, Cast Aluminium and Aluminium alloys containing silicon, copper alloys, plastics, glass, hard rubber, hard carboard, porcelain, stone. Machining Conditions Turning, Milling, Boring, Scraping
	K20	Tip grade suitable for Grey cast iron of hardness up to 220 HB, Non-ferrous metals, such as Copper, Brass, . Wrought Aluminium, Laminated wood of abrasive type . Machining Conditions Turning, Milling, planning, requiring high toughness.

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TUNGSTEN CARBIDE ROTARY BURRS (TCRB)

INTRODUCTION

Miranda Tungsten Carbide Burrs are designed for removing burrs created post machining and for removal of extra material of virtually any strength; the superior performance reflects due to premium grade of carbide & specially design geometry.



FEATURES & BENEFITS

- ▶ Provides smooth operating behaviour
- ▶ Prevents chatter marks on account of better chip evacuation
- ▶ lowest runout
- ▶ Better chip evacuation
- ▶ Available in Uncoated and TiN Coated



- Shank Dia : 3 mm & 6 mm
- Various shapes like conical, cylindrical, cone, flame, oval, RIM, ball , tree etc are available to cater wide range of application

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TUNGSTEN CARBIDE ROTARY BURRS

SHAPE	MIRANDA CODE	DESCRIPTION	PRICE (RS)/NO		
		HEAD DIA X HEAD LENGTH X OAL LENGTH X SHANK DIA	STANDARD CUT	DOUBLE CUT	STANDARD CUT TIN COATED
CONICAL 	MAM1	3MM X 11MM X 38MM X 3SHK	558	575	615
	MAM2	6MM X 11MM X 38MM X 3SHK	731	753	806
	AM1	6MM X 19MM X 60MM X 6SHK	867	837	953
	AM2	10MM X 20MM X 70MM X 6SHK	867	893	953
	AM3	12MM X 25MM X 75MM X 6SHK	1191	1227	1309
	AM4	10MM X 12MM X 60MM X 6SHK	903	930	991
	AM5	16MM X 13MM X 63MM X 6SHK	1300	1339	1464
	AM6	16MM X 16MM X 66MM X 6SHK	1300	1339	1464
CYLINDRICAL RADIUS END 	MBM1	3MM X 16MM X 38MM X 3SHK	558	575	615
	MBM2	6MM X 13MM X 38MM X 3SHK	731	753	806
	BM1	6MM X 20MM X 50MM X 6SHK	877	903	962
	BM2	8MM X 20MM X 70MM X 6SHK	847	872	933
	BM3	10MM X 20MM X 70MM X 6SHK	1058	1090	1164
	BM4	12MM X 20MM X 70MM X 6SHK	1365	1406	1530
	BM5	16MM X 25MM X 75MM X 6SHK	2088	2354	2337
	BM6	12MM X 25MM X 75MM X 6SHK	1895	1952	1530
CYLINDRICAL 	MCM1	3MM X 16MM X 38MM X 3SHK	558	575	615
	MCM2	6MM X 6MM X 38MM X 3SHK	627	646	695
	MCM3	6MM X 13MM X 38MM X 3SHK	731	753	785
	CM1	4MM X 15MM X 50MM X 6SHK	731	753	832
	CM2	6MM X 20MM X 60MM X 6SHK	839	864	924
	CM3	8MM X 20MM X 70MM X 6SHK	953	982	1048
	CM4	10MM X 20MM X 70MM X 6SHK	1048	1146	1154
	CM5	12MM X 20MM X 70MM X 6SHK	1318	1518	1665
	CM6	16MM X 25MM X 75MM X 6SHK	2113	2176	2364
	CM7	12MM X 16MM X 65MM X 6SHK	1287	1326	1473
	CM8	12MM X 25MM X 75MM X 6SHK	2088	2151	2570
	FM1	6MM X 15MM X 50MM X 6SHK	839	*	858
	FM2	8MM X 20MM X 70MM X 6SHK	867	*	953
	FM3	10MM X 25MM X 65MM X 6SHK	1711	*	1914
	FM4	12MM X 32MM X 82MM X 6SHK	2055	*	2320
FLAME 	MKM1	3MM X 8MM X 38MM X 3SHK	558	*	725
	MKM2	6MM X 12MM X 38MM X 3SHK	731	*	806
	KM1	10MM X 20MM X 65MM X 6SHK	820	*	903
	KM2	12MM X 20MM X 70MM X 6SHK	1365	*	1530
	KM3	16MM X 33MM X 75MM X 6SHK	1885	*	1714
CONE RADIUS 					

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TUNGSTEN CARBIDE ROTARY BURRS

SHAPE	MIRANDA CODE	DESCRIPTION	PRICE (RS)/NO		
		HEAD DIA X HEAD LENGTH X OAL LENGTH X SHANK DIA	STANDARD CUT	DOUBLE CUT	STANDARD CUT TIN COATED
OVAL 	MOM1	3MM X 8MM X 38MM X 3SHK	558	575	615
	MOM2	6MM X 10MM X 38MM X 3SHK	731	753	806
	OM1	8MM X 14MM X 60MM X 6SHK	933	961	1030
	OM2	12MM X 20MM X 70MM X 6SHK	1365	1406	1530
	OM3	16MM X 25MM X 75MM X 6SHK	2106	3146	1729
	OM4	6MM X 10MM X 60MM X 6SHK	933	961	927
RIM 	RM1	10MM X 2MM X 50MM X 6SHK	820	*	1281
	RM2	20MM X 6MM X 60MM X 6SHK	1538	*	1940
	RM3	12MM X 10MM X 60MM X 6SHK	1365	*	1439
BALL 	MSM1	4MM X 3MM X 38MM X 3SHK	647	*	615
	MSM2	5MM X 4MM X 38MM X 3SHK	675	*	806
	SM1	6MM X 5MM X 50MM X 6SHK	806	*	1015
	SM2	8MM X 7MM X 50MM X 6SHK	848	1379	1140
	SM3	10MM X 9MM X 60MM X 6SHK	848	*	1281
	SM4	12MM X 11MM X 60MM X 6SHK	1065	*	1439
	SM5	16MM X 14MM X 65MM X 6SHK	1441	*	1617
TREE POINTED END 	MTM1	3MM X 13MM X 38MM X 3SHK	558	575	615
	MTM2	3MM X 16MM X 38MM X 3SHK	558	575	615
	MTM3	6MM X 13MM X 38MM X 3SHK	731	753	695
	TM1	6MM X 20MM X 70MM X 6SHK	883	909	1024
	TM2	10MM X 20MM X 70MM X 6SHK	1058	1618	1164
	TM3	12MM X 25MM X 75MM X 6SHK	1268	1941	1397
	TM4	16MM X 30MM X 80MM X 8SHK	1885	1942	1579
TREE RADIUS END 	TBM1	6MM X 20MM X 70MM X 6SHK	885	*	1024
	TBM2	10MM X 20MM X 70MM X 6SHK	1058	*	1164
	TBM3	12MM X 25MM X 75MM X 6SHK	1337	*	1502
INVERTED CONE	MIM1	3MM X 8MM X 38MM X 3SHK	558	*	615
	MIM2	6MM X 8MM X 38MM X 3SHK	627	*	695
SET OF 5 PIECES		AM3,BM4,CM5,TM3,SM4	*	*	6752

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CUSTOMISED TCRB

Product Description	PRICE (RS/NO)
Rotary Burr Tree Pointed End MTM1 Long-3x13x75x3 S	619
Rotary Burr Cylindrical Radius 4X18X51X4 STD.CUT	629
Rotary Burr Cylindrical Std. MCM1 DOUBLE CUT 3X14X38X3 (TIN)	676
Rotary Burr Cylindrical Radius 5X19X50X5 STD.CUT	722
Rotary Burr Tree Radius End MTB2 DOUBLE CUT 5X12.7X38X5 (TIN)	763
Rotary Burr Tree Pointed End TM1X125 LONG STD	772
Rotary Burr Cylindrical Radius CYLINDRICAL RADIUS END BM2 -K20 STD	847
ROTARY BURR Standard Cut Uncoated Ball SM2(8X 60) - Special	848
Rotary Burr Cone Radius KM1-10X20X65X6-18T	861
Rotary Burr Cylindrical Radius MBM2 DOUBLE CUT 5X12.7X38X4 (TIN)	887
Rotary Burr Cylindrical Std. MCM3 DOUBLE CUT 5X12.7X38X3 (TIN)	887
Rotary Burr Cylindrical Radius BM2 - 8 X 20 X 125 X 6 SPL . CUT	932
Rotary Burr Conical AM1 DOUBLE CUT (TIN)	953
Rotary Burr Cylindrical Radius CYLINDRICAL RADIUS BM2 DIAMOND CUT	989
ROTARY BURR Standard Cut Uncoated CONICAL AM3-12.7 20TEETH - Special	1,191
Rotary Burr Tree Pointed End TM3-K20/20T STD. C	1,268
Rotary Burr Tree Pointed End TM2X125 LONG STD.	1,292
ROTARY BURR Standard Cut Uncoated Cone Radius KM2 - Special	1,365
Rotary Burr Cylindrical Radius BM3 LONG 10 MM X 20 MM X 200 MM X 6	1,376
Rotary Burr Tree Pointed End TM3-K20/20T STD. C	1,379
Rotary Burr Tree Radius End TBM3 DOUBLE CUT 12.7X25X69X6 (TIN)	1,652
Rotary Burr Cylindrical Radius BM4 LONG 12MM X 20MM X 200MM X 6SHK	2,020
ROTARY BURR Standard Cut Uncoated Ball BALL 30X28X70X8SH - Special	16,869

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SOLID CARBIDE TOOLS



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SC ENDMILL 2 FLUTE - ALTIN COATED				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
0.5	1.0	4	50	2,043
0.6	1.2	4	50	2,043
0.7	1.4	4	50	2,043
0.8	1.6	4	50	2,043
0.9	1.8	4	50	2,043
1.0	3.0	3	38	1,222
1.0	4.0	3	50	1,142
1.5	4.0	4	50	1,142
1.5	3.0	6	38	1,222
2.0	3.0	9	38	1,222
2.0	4.0	6	38	1,142
2.5	3.0	9	38	1,222
3.0	3.0	12	38	1,151

SC ENDMILL 2 FLUTE - ALTIN COATED				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
3.5	4.0	14	50	1,512
4.0	4.0	14	50	1,512
4.5	5.0	16	50	1,899
5.0	5.0	20	50	1,899
5.5	6.0	20	50	1,982
6.0	6.0	20	60	1,982
8.0	8.0	20	60	2,194
10.0	10.0	25	75	4,175
12.0	12.0	25	75	4,842
14.0	14.0	25	75	8,503
16.0	16.0	32	89	9,189
20.0	20.0	38	100	19,528

SC ENDMILL 4 FLUTE - ALTIN COATED				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
1.0	3.0	3	38	1,222
1.5	3.0	6	38	1,222
2.0	3.0	9	38	1,222
2.5	3.0	9	38	1,222
3.0	3.0	12	38	1,151
3.0	4.0	8	50	1,324
3.5	4.0	14	50	1,512
4.0	4.0	14	50	1,512
4.5	5.0	16	50	1,899
5.0	5.0	20	50	1,899
5.5	6.0	20	50	1,982
6.0	6.0	20	60	1,982
6.5	6.5	20	64	1,835
6.7	8.0	20	60	2,254
7.0	7.0	20	60	2,194
7.5	8.0	20	64	2,200
8.0	8.0	20	60	2,194
8.0	8.0	25	75	2,889
8.5	8.5	20	64	3,481
9.0	9.0	25	75	4,175
9.5	10.0	20	75	4,155

SC ENDMILL 4 FLUTE - ALTIN COATED				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
9.5	10.0	25	75	4,175
10.0	10.0	25	75	4,175
10.5	12.0	25	75	4,842
11.0	11.0	25	75	4,175
11.0	12.0	25	75	5,220
11.5	12.0	25	75	4,844
12.0	12.0	25	75	4,842
12.5	13.0	25	75	8,503
13.0	14.0	25	75	8,503
14.0	14.0	25	75	8,503
15.0	16.0	32	89	9,189
15.0	15.0	40	100	17,423
16.0	16.0	32	89	9,189
16.0	16.0	40	100	11,576
17.0	17.0	38	102	13,560
18.0	18.0	38	100	13,560
19.0	20.0	38	102	19,528
20.0	20.0	38	100	19,528
22.0	22.0	40	100	25,998
24.0	24.0	40	100	33,026
25.0	25.0	40	100	33,025

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SC ENDMILL LONG LENGTH 4 FLUTE ALTIN COATED				
EM	SH.DIA	FL	OAL	PRICE (RS)/NO
1.0	4.0	3	50	1,151
2.5	4.0	8	50	1,324
3	3	20	60	2,196
4	4	20	60	2,478
4	4	20	75	2,478
5	5	25	75	2,762
5	6	25	75	2,762

SC ENDMILL LONG LENGTH 4 FLUTE ALTIN COATED				
EM	SH.DIA	FL	OAL	PRICE (RS)/NO
6	6	30	75	2,882
8	8	40	100	3,207
8	8	50	100	3,847
10	10	40	100	5,058
10	10	50	100	6,069
12	12	50	100	7,250
16	16	50	100	10,242

SC ENDMILL- EXTRA LONG LENGTH 4 FLUTE - ALTIN COATED				
EM	SH.DIA	FL	OAL	PRICE (RS)/NO
3	3	20	75	2,416
4	4	40	100	3,192
5	5	40	100	3,192
6	6	40	100	3,374
6	6	75	125	5,741
6	6	75	150	6,312
8	8	75	150	7,685
10	10	75	150	11,547

SC ENDMILL- EXTRA LONG LENGTH 4 FLUTE - ALTIN COATED				
EM	SH.DIA	FL	OAL	PRICE (RS)/NO
12	12	75	150	14,164
14	14	75	150	18,190
16	16	75	150	21,249
18	18	75	150	26,660
20	20	75	150	35,344
SC ENDMILL- EXTRA LONG LENGTH 6 FLUTE - ALTIN COATED				
25	25	75	150	46,637

SC BALL NOSE-ENDMILL 2 FLUTE - ALTIN COATED				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
1.0	3.0	3	38	1,543
1.5	3.0	5	38	1,543
2.0	3.0	7	38	1,583
2.5	3.0	7	38	1,543
3.0	3.0	9	38	1,390
3.0	3.0	12	38	1,373
4.0	4.0	14	50	1,814

SC BALL NOSE-ENDMILL 2 FLUTE - ALTIN COATED				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
5.0	5.0	16	50	2,284
6.0	6.0	20	60	2,382
8.0	8.0	20	60	2,685
10.0	10.0	25	75	5,004
12.0	12.0	25	75	5,818
16.0	16.0	32	89	11,047
20.0	20.0	38	102	23,435

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SC BALL NOSE-ENDMILL 4 FLUTE - ALTIN COATED				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
1.0	3.0	3	38	1,543
1.5	3.0	5	38	1,543
2.0	3.0	7	38	1,543
2.5	3.0	7	38	1,543
3.0	3.0	9	38	1,390
3.0	3.0	12	38	1,373
4.0	4.0	14	50	1,814
5.0	5.0	16	50	2,284
6.0	6.0	20	60	2,382
7.0	7.0	20	60	2,683

SC BALL NOSE-ENDMILL 4 FLUTE - ALTIN COATED				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
8.0	8.0	20	60	2,685
8.0	8.0	20	64	2,820
9.0	10.0	25	70	4,991
10.0	10.0	25	75	5,004
12.0	12.0	25	75	5,818
14.0	14.0	25	75	10,201
16.0	16.0	32	89	11,047
18.0	18.0	38	102	16,271
20.0	20.0	38	102	23,435

SC BALL NOSE LONG LENGTH -ENDMILL 4 FLUTE - ALTIN COATED				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
3	3	20	60	2,633
3	3	20	75	2,633
4	4	20	75	2,978
5	6	25	75	3,311
6	6	30	75	3,462
8	8	40	100	3,808

SC BALL NOSE LONG LENGTH -ENDMILL 4 FLUTE - ALTIN COATED				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
8	8	50	100	4,759
10	10	40	100	6,074
10	10	50	100	6,374
12	12	50	100	8,688
16	16	75	150	25,502
20	20	75	150	42,414

SC BALL NOSE EXTRA LONG LENGTH - ENDMILL 4 FLUTE - ALTIN COATED				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
6	6	50	100	3,668
8	8	40	150	7,737
10	10	75	150	13,859
12	12	75	150	16,999
18	18	75	150	30,292

SC BALL NOSE -ENDMILL 4 FLUTE - HARDCUT				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
4.0	4.0	14	50	1,817
5.0	5.0	16	50	2,284
6.0	6.0	20	60	2,607

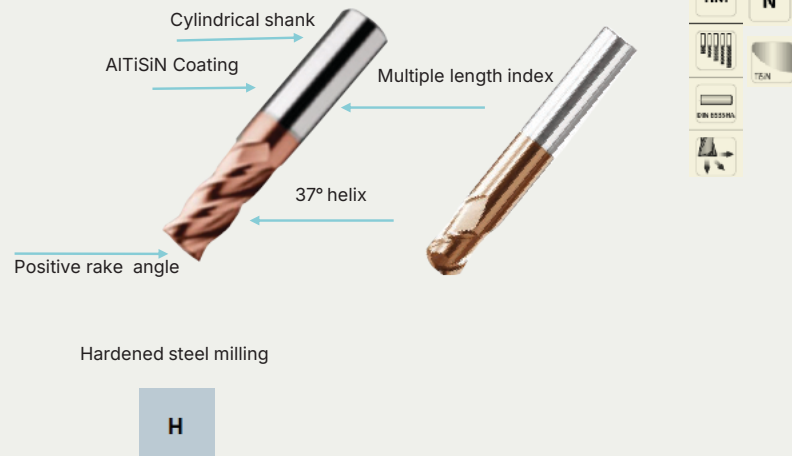
End Mill with corner Radius & Special on request

Maxx Pro Series

Maxx Pro series 45-60HRC

Maxx Pro Series <45 to 60HRC

- End Mill 1.0 to 16mm Maxx Pro EM 4FL Std & long
- Ball End Mill 1.0 to 16 mm Maxx Pro (2FL & 4FL, Std, Long & ex long)
- AlTiSiN coating for extreme hardness and wear resistance
- Suitable for dry milling
- Variable flute indexing for improving wall finish
- Optimised geometry for plunging and interpolation
- Material (WMG) H



MAXXPRO STANDARD ENDMILL

MAXXPRO STANDARD ENDMILL 4F, 45-60 HRC

DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
1.00 mm	4	3	50	1,979
1.50 mm	4	4	50	1,979
2.00 mm	4	6	50	2,997
2.50 mm	6	6	50	1,979
3.00 mm	4	8	50	2,997
4.00 mm	4	11	50	2,997

MAXXPRO STANDARD ENDMILL 4F, 45-60 HRC

DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
5.00 mm	6	13	50	2,710
6.00 mm	6	15	55	4,834
8.00 mm	8	20	60	4,340
10.00 mm	10	25	75	6,774
12.00 mm	12	28	85	12,947
16.00 mm	16	32	100	12,618

MAXXPRO LONG ENDMILL 4F, 45-60 HRC

DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
4.00 mm	4	11	75	4,360
4.00 mm	4	11	100	4,453
5.00 mm	6	13	75	4,371
6.00 mm	6	15	75	4,554
6.00 mm	6	15	100	5,056

MAXXPRO LONG ENDMILL 4F, 45-60 HRC

DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
8.00 mm	8	20	75	6,804
8.00 mm	8	20	100	7,725
10.00 mm	10	25	100	8,897
12.00 mm	12	30	100	12,717
16.00 mm	16	50	150	41,206

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MAXXPRO STANDARD ENDMILL

MAXXPRO LONG REACH ENDMILL 4F, 45-60 HRC

DIA	SH.DIA	FL	OAL	C
6.00 mm	6	40	150	7,587
8.00 mm	8	40	150	8,581

MAXXPRO LONG REACH ENDMILL 4F, 45-60 HRC

DIA	SH.DIA	FL	OAL	C
10.00 mm	10	50	150	10,174
14.00 mm	14	50	150	41,206

MAXXPRO BALL NOSE ENDMILL 2F 45-60 HRC

DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
2.00 mm	4	8	50	2,716
3.00 mm	4	6	50	3,802
5.00 mm	6	10	50	5,548
6.00 mm	6	12	50	5,548

MAXXPRO BALL NOSE ENDMILL 2F 45-60 HRC

DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
8.00 mm	8	16	60	7,107
10.00 mm	10	20	75	10,516
12.00 mm	12	25	75	13,568

MAXXPRO BALL NOSE ENDMILL 4F, 45-60 HRC

DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
4.00 mm	4	10	75	4,510
5.00 mm	6	10	75	4,772
6.00 mm	6	12	75	4,772
8.00 mm	8	16	100	7,130
10.00 mm	10	20	100	10,538
12.00 mm	12	25	100	12,932
16.00 mm	16	40	150	32,538
1.00 mm	4	2	50	2,853
1.50 mm	4	3	50	2,853
2.00 mm	4	4	50	2,853

MAXXPRO BALL NOSE ENDMILL 4F, 45-60 HRC

DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
2.50 mm	4	5	50	2,853
3.00 mm	4	6	50	2,853
4.00 mm	4	8	50	2,853
5.00 mm	6	10	50	3,580
6.00 mm	6	12	50	3,580
8.00 mm	8	16	60	5,214
8.00 mm	8	16	75	6,059
10.00 mm	10	20	75	7,647
12.00 mm	12	25	75	10,261

MAXXPRO BALL NOSE LONG REACH ENDMILL 4F, 45-60 HRC

DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
4.00 mm	4	8	100	4,617
6.00 mm	6	12	100	5,216
6.00 mm	6	30	150	7,825
8.00 mm	8	16	150	9,423

MAXXPRO BALL NOSE LONG REACH ENDMILL 4F, 45-60 HRC

DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
10.00 mm	10	40	150	12,873
12.00 mm	12	40	150	16,149
12.00 mm	12	75	150	19,413

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SOLID CARBIDE JOBBER DRILL -ALTIN COATED				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
1.0	1.0	12	32	1,051
1.2	1.2	14	36	1,128
1.3	1.3	16	38	1,128
1.4	1.4	16	38	1,128
1.5	1.5	18	40	1,128
1.6	1.6	20	43	1,291
1.7	1.7	20	43	1,291
1.8	1.8	22	46	1,240
1.9	1.9	22	46	1,291
2.0	2.0	24	49	1,291
2.2	2.2	27	53	1,291
2.3	2.3	27	53	1,291
2.4	2.4	30	57	1,291
2.5	2.5	30	57	1,291
2.6	2.6	30	57	1,445
2.7	2.7	33	61	1,445
2.8	2.8	33	61	1,445
2.9	2.9	33	61	1,445
3.0	3.0	33	61	1,445
3.1	3.1	36	65	1,570
3.2	3.2	36	65	1,572
3.3	3.3	36	65	1,572
3.4	3.4	39	70	1,570
3.5	3.5	39	70	1,572
3.6	3.6	39	70	1,934
3.7	3.7	39	70	1,934
3.8	3.8	43	75	1,934
3.9	3.9	43	75	1,934
4.0	4.0	43	75	1,934
4.1	4.1	43	75	2,072
4.2	4.2	43	75	2,072
4.3	4.3	24	58	2,072
4.4	4.4	47	80	2,072

SOLID CARBIDE JOBBER DRILL -ALTIN COATED				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
4.5	4.5	47	80	2,072
4.6	4.6	47	80	2,372
4.7	4.7	47	80	2,372
4.8	4.8	47	80	2,372
4.9	4.9	52	86	2,372
5.0	5.0	52	86	2,372
5.1	5.1	52	86	2,747
5.2	5.2	52	86	2,747
5.3	5.3	52	86	2,747
5.4	5.4	57	93	2,747
5.5	5.5	57	93	2,747
5.6	5.6	57	93	2,857
5.7	5.7	57	93	2,857
5.8	5.8	57	93	2,857
5.9	5.9	57	93	2,857
6.0	6.0	57	93	2,857
6.1	6.1	63	101	3,217
6.2	6.2	63	101	3,217
6.3	6.3	63	101	3,217
6.4	6.4	63	101	3,217
6.5	6.5	63	101	3,217
6.6	6.6	63	101	3,522
6.7	6.7	69	109	3,522
6.8	6.8	69	109	3,522
6.9	6.9	69	109	3,522
7.0	7.0	69	109	3,522
7.1	7.1	69	109	3,845
7.2	7.2	69	109	3,845
7.3	7.3	69	109	3,845
7.4	7.4	69	109	3,845
7.5	7.5	69	109	3,845
7.6	7.6	75	117	4,336
7.7	7.7	75	117	4,336

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SOLID CARBIDE JOBBER DRILL -ALTIN COATED				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
7.8	7.8	75	117	4,336
7.9	7.9	75	117	4,336
8.0	8.0	75	117	4,336
8.1	8.1	75	117	4,749
8.2	8.2	75	117	4,750
8.3	8.3	75	117	4,750
8.4	8.4	75	117	4,749
8.5	8.5	75	117	4,750
8.6	8.6	81	125	5,354
8.7	8.7	81	125	5,389
8.8	8.8	81	125	5,389
8.9	8.9	81	125	5,354
9.0	9.0	81	125	5,389
9.1	9.1	81	125	7,063
9.2	9.2	81	125	6,153
9.3	9.3	81	125	6,153
9.4	9.4	81	125	6,153
9.5	9.5	81	125	6,153
9.6	9.6	87	133	7,063
9.7	9.7	87	133	7,063
9.8	9.8	87	133	7,063
9.9	9.9	87	133	7,467
10.0	10.0	87	133	7,063
10.1	10.1	87	133	9,722
10.2	10.2	87	133	7,892
10.3	10.3	87	133	7,892
10.4	10.4	87	133	7,892
10.5	10.5	87	133	7,892
10.6	10.6	87	133	9,722
10.7	10.7	94	142	9,393
10.8	10.8	94	142	9,393
10.9	10.9	94	142	9,722
11.0	11.0	94	142	9,393

SOLID CARBIDE JOBBER DRILL -ALTIN COATED				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
11.2	11.2	94	142	10,738
11.5	11.5	94	142	10,738
11.7	11.7	101	151	10,738
11.8	11.8	94	142	10,738
12.0	12.0	101	151	10,738
12.2	12.2	101	151	13,418
12.5	12.5	101	151	13,418
12.7	12.7	101	151	13,418
12.8	12.8	101	151	13,418
13.0	13.0	101	151	13,418
13.2	13.2	108	160	16,752
13.5	13.5	108	160	16,752
13.8	13.8	108	160	16,752
14.0	14.0	108	160	16,752
14.5	14.5	114	169	18,973
14.8	14.8	114	169	20,354
15	15.0	120	178	20,353
15.5	15.5	120	178	24,872
15.8	15.8	120	178	24,872
16.0	16.0	120	178	24,872
16.5	16.5	125	184	31,621
17.0	17.0	125	184	32,820
17.5	17.5	130	191	34,059
18.0	18.0	130	191	34,057
18.5	18.5	135	198	42,605
19.0	19.0	135	198	42,616
19.5	19.5	140	205	44,962
20.0	20.0	140	205	44,962

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SOLID CARBIDE STUB DRILL - ALTIN COATED				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
1.0	1.0	6	26	965
1.1	1.1	7	28	1,110
1.2	1.2	8	30	1,110
1.3	1.3	8	30	1,110
1.4	1.4	9	32	1,110
1.5	1.5	9	32	1,037
1.6	1.6	10	34	1,110
1.7	1.7	11	36	1,162
1.9	1.9	11	36	1,162
2.0	2.0	12	38	1,186
2.1	2.1	12	38	1,186
2.2	2.2	13	40	1,186
2.3	2.3	13	40	1,186
2.4	2.4	14	43	1,186
2.5	2.5	14	43	1,186
2.6	2.6	14	43	1,327
2.7	2.7	16	46	1,327
2.8	2.8	16	46	1,195
2.9	2.9	16	46	1,195
3	3.0	16	46	1,327
3.1	3.1	18	49	1,369
3.2	3.2	18	49	1,369
3.3	3.3	18	49	1,369
3.4	3.4	20	52	1,369
3.5	3.5	20	52	1,369
3.6	3.6	20	52	1,437
3.7	3.7	20	52	1,437
3.8	3.8	22	55	1,437
3.9	3.9	22	55	1,302
4	4.0	22	55	1,685
4.1	4.1	22	55	1,302
4.2	4.2	22	55	1,802
4.3	4.3	24	58	1,877
4.4	4.4	24	58	1,877
4.5	4.5	24	58	1,802
4.6	4.6	24	58	1,877
4.7	4.7	24	58	1,877
4.8	4.8	26	62	2,065
4.9	4.9	26	62	1,877
5	5.0	26	62	2,065
5.1	5.1	26	62	2,443

SOLID CARBIDE STUB DRILL - ALTIN COATED				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
5.2	5.2	26	62	2,390
5.3	5.3	26	62	2,443
5.4	5.4	28	66	2,390
5.5	5.5	28	66	2,390
5.6	5.6	28	66	3,059
5.7	5.7	28	66	3,059
5.8	5.8	28	66	3,059
5.9	5.9	28	66	3,059
6	6.0	28	66	2,487
6.1	6.1	31	70	2,671
6.2	6.2	31	70	2,671
6.3	6.3	31	70	2,671
6.4	6.4	31	70	2,671
6.5	6.5	31	70	2,671
6.6	6.6	31	70	3,772
6.7	6.7	31	70	3,772
6.8	6.8	34	74	2,923
6.9	6.9	34	74	3,772
7	7.0	34	74	2,923
7.1	7.1	34	74	4,117
7.2	7.2	34	74	4,117
7.3	7.3	34	74	4,117
7.4	7.4	34	74	4,117
7.5	7.5	34	74	3,192
7.7	7.7	37	79	4,643
7.8	7.8	37	79	4,643
7.9	7.9	37	79	4,643
8	8.0	37	79	3,598
8.1	8.1	37	79	5,085
8.2	8.2	37	79	5,085
8.3	8.3	37	79	5,085
8.4	8.4	37	79	5,085
8.5	8.5	37	79	3,943
8.7	8.7	40	84	5,791
8.8	8.8	40	84	5,791
9	9.0	40	84	4,222
9.2	9.2	40	84	6,588
9.3	9.3	40	84	6,588
9.5	9.5	40	84	4,822
9.8	9.8	43	89	7,384

- Price are subject to revision without any notice

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SOLID CARBIDE STUB DRILL - ALTIN COATED				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
10	10.0	43	89	5,533
10.2	10.2	43	89	8,450
10.3	10.3	43	89	8,450
10.4	10.4	43	89	8,450
10.5	10.5	43	89	6,184
10.7	10.7	47	95	10,058
10.8	10.8	47	95	10,058
11	11.0	47	95	8,121
11.2	11.2	47	95	11,497
11.5	11.5	47	95	12,877
11.7	11.7	47	95	8,288
11.8	11.8	47	95	12,877
12	12.0	51	102	8,121
12.5	12.5	51	102	12,150
13	13.0	51	102	12,150
13.2	13.2	51	102	14,768

SOLID CARBIDE STUB DRILL - ALTIN COATED				
DIA	SH.DIA	FL	OAL	PRICE (RS)/NO
13.5	13.5	51	102	12,150
13.8	13.8	54	107	16,540
14	14.0	54	107	12,150
14.2	14.2	56	111	16,752
14.5	14.5	56	111	18,048
15	15.0	56	111	16,712
15.2	15.2	58	115	18,048
15.5	15.5	58	115	17,725
16	16.0	58	115	18,048
16.5	16.5	60	119	17,547
17	17.0	60	119	23,920
18	18.0	62	123	36,400
18.5	18.5	64	127	45,619
19	19.0	64	127	47,008
19.5	19.5	66	131	48,143
20	20.0	66	131	49,608

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SPECIALS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
SCDR 3.0 X 40 X 75 X 3.0 TIALN	2,371
SCDR 6X85X195X6 TIALN	6,883
SCDR 4.2X80X120X5.0 COATED THROUGH COOLANT	7,861
SCDR 5.0X110X160X5.0 COATED THROUGH COOLANT	8,736
SCDR 5.0X80X120X5.0 COATED THROUGH COOLANT	7,861
SCDR 6.8X110X160X8.0 TIALN THROUGH COOLANT	12,398

DIN STANDARD SOLID CARBIDE CENTRE DRILL, BRIGHT FINISH		
TYPE 'A'		
PILOT DIA MM	BODY DIA MM	PRICE (RS)/NO
2.00	5.00	3462
2.50	6.30	4696
3.15	8.00	5563
3.30	8.00	5563
4.00	10.00	7359
5.00	12.50	11481
6.30	16.00	*
8.00	20.00	*

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SIZE BS NO	PILOT DIA INCH	BODY DIA INCH	PRICE (RS)/NO
BS-1	3/64"	1/8"	*
BS-2	1/16"	3/16"	3462
BS-3	3/32"	1/4"	4696
BS-4	1/8"	5/16"	5563
BS-5	3/16"	7/16"	10554
BS-6	1/4"	5/8"	15675

SOLID CARBIDE UN-COATED HIGH PERFORMANCE REAMER WITH H7 TOLERANCE

PRODUCT DESCRIPTION	PRICE (RS)/NO
SC 4 flute reamer Size : 3 mm	2,367.00
SC 4 flute reamer Size : 4 mm	2,770.00
SC 4 flute reamer Size : 5 mm	3,328.00
SC 4 flute reamer Size : 6 mm	4,027.00
SC 6 flute reamer Size : 8 mm	6,199.00
SC 6 flute reamer Size : 10.00 mm	7,981.00
SC 6 flute reamer Size : 11.00 mm	8,216.00
SC 6 flute reamer Size : 12.00 mm	9,781.00
SC 6 flute reamer Size : 13.00 mm	16,202.00
SC REAMER 6H7X50X150X6SH 6FL	5,179
SC REAMER 8H7X50X150X8SH 6FL	8,216
SC REAMER 12H7X50X150X12SH 6FL	14,352

CUSTOMISED SOLID CARBIDE ENDMILLS

PRODUCT DESCRIPTION	PRICE (RS)/NO
HP SCEM 7X12X50X8 CR.1.5-TIALN COATED	2,918
SCEM 12X25X75X12 CR.0.40 4FL TIALN	6,129
SCEM 4X25X74X4 CR.1.0 4FL TIALN	3,275
SCEM 8X16X100X8 CR0.5 4F-60 HRC	7,862
SCEM 10X20X100X10 CR0.5 4F-60 HRC	9,535
SCEM 12X25X100X12 CR0.5 4F-60 HRC	11,606
SCEM 6X75X150X6 4FL TIALN	6,355
Maxxpro EM 4x6x10x55 4F-65 HRC	4,834
Maxxpro EM 8x8x20x65 4F-65 HRC	6,231
Maxxpro EM 10x10x25x75 4F-65 HRC	9,286
SCEM 1.0X3XD4X50 4F For TITANIUM	1,663

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Applications Range

Side Milling	Face Milling	Slot Milling	Plunge Milling	Ramping
				
The radial depth of cut should be less than .25 of the diameter of the end mill.	The radial depth of cut should be no more than .9 of the diameter, axial depth of cut less than .1 of the diameter.	Machining of a slot for keyways. The radial depth of cut is equal to the diameter on the end mill.	It is possible to drill the workpiece with an end mill only with the cutting center. In this operation the feed has to be halved.	Both axial and radial entering into the workpiece.

Maxx series cutting parameters

Maxx Series

- Optimise the cutting parameters based on the material and setup for best performance
- Control the runout for the best tool life
- Prefer dry milling for ISO and P and K



SC Endmill - Maxx series		
WMG	VC m/min	Feed/tooth mm
P	50-120	0.01-0.06
M	30-40	0.007-0.036
K	70-180	0.05-0.1

Maxx Pro series cutting parameters

Maxx Pro Series

- Optimise the cutting parameters based on the material hardness and setup for best performance
- Control the runout for the best tool life
- Prefer dry milling for ISO H

SC Endmill - Maxx Pro series		
WMG	VC m/min	Feed/tooth mm
H	40-100	0.005-0.04



Solid carbide drill Cutting parameters range

SC drills Non through coolant

- Parameters from the below range can be optimised for a given application.
- For the best results, runout should be controlled under 20 microns

SC drill Jobber/Stub		
WMG	VC m/min	Feed/rev
P	40-100	0.1-0.28
M	30-40	0.05-0.15
K	50-120	0.1-0.3

Solid carbide reamer Cutting parameters range

SC reamer Non through coolant

- Parameters from the below range can be optimised for a given application.
- For the best results, keep a controlled stock for reamer.

SC reamer		
WMG	VC m/min	Feed/rev
P	10-20	0.04-0.28
M	7-15	0.04-0.13
K	10-20	0.1-0.3
N	30-60	0.05-0.3

Solid Carbide Drills

- Jobber - SCDJAXLA
- Stub - SCDSAXLA

Features & Benefits

- Diameter range - 1.0 mm to 20.0 mm
- Point angle 140 deg, lower cutting forces
- AlTiN Coating for improved wear resistance
- Self-centering reinforced geometry for conventional and CNC machine applications.
- High-quality, precise holes at high speeds and feeds.
- Long tool life due to reinforced core design.
- Shank DIN 338 & DIN1897



 λ 20-35°	 R	DC h7
HM	DIN 338	4xD
		2.5xD



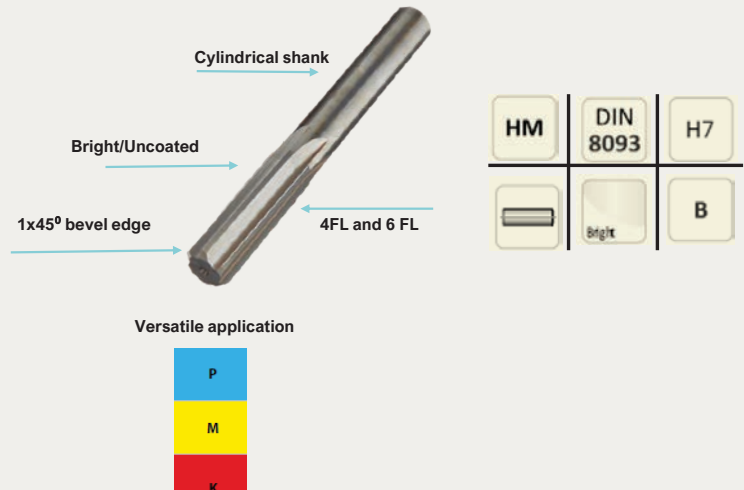
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Solid Carbide Reamers

- 4 Flute type - SCREAHU4 (3.0 mm to 6.0 mm)
- 6 Flute type - SCREAHU6 (8.0 mm to 13.0 mm)

Feature & benefits

- Bevel angle 45 Deg *1 mm for better surface finish
- Bright for the sharpest edges
- Straight flute machine reamer
- HA shank
- Material group (WMG) PMKN Versatile application
- Non-through coolant



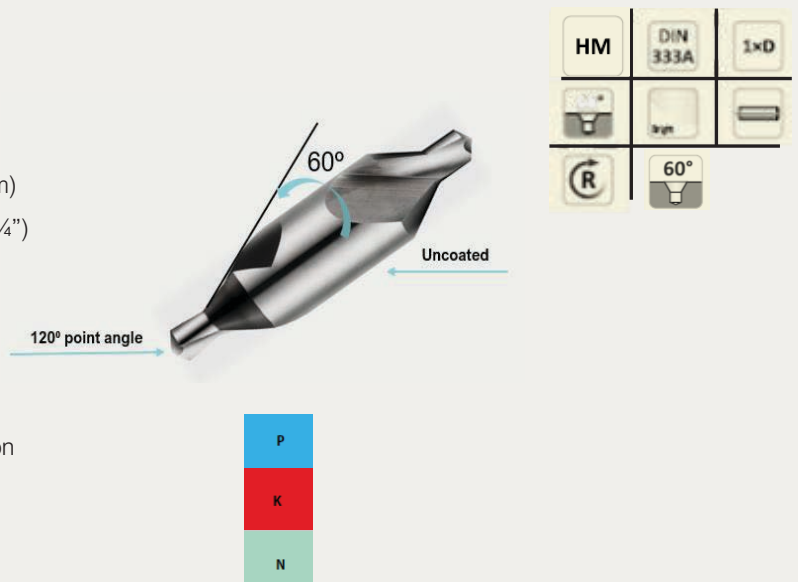
Solid Carbide Centre drills

Centre drill

- DIN333 Type A - SCDCAHUC (Dia. 2mm to D5mm)
- BS328 Type A - SCDCAHUD (BS2 1/16" to BS6 1/4")

Feature & benefits

- Solid carbide for the best productivity
- Bright coated for the sharpest cutting edges
- Suitable for PKN work materials - Versatile application
- Type A 60 deg countersink with 120 deg point angle
- 2 edges per tool – economic and precise holes



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NOTES

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NOTES

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