

MIRANDA PRODUCTS PRICE LIST

EFFECTIVE FROM 15.09.2026

DPM15092026 VERSION 1



**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 15.09.2026 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:

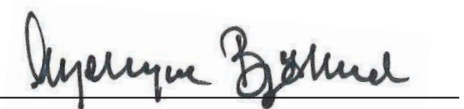
0085130/J

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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Manufacturing and distribution of cutting tools

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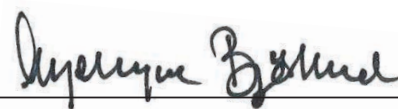
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HSS TOOLBITS SQUARE & ROUND

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	205	*	*	970	*	1,030	10
1/8 x 3	3.18 x 76.20	205	453	638	672	*	701	10
1/8 x 4	3.18 x 101.60	268	816	*	1,230	*	1,280	10
1/8 x 6	3.18 x 152.40	*		*	1,940	*	*	10
5/32 x 3	3.97 x 76.20	205	459	654	687	*	702	10
5/32 x 4	3.97 x 101.60	275	*	1,020	1,070	*	*	10
3/16 x 3	4.76 x 76.20	175	361	474	498	424	516	10
3/16 x 4	4.76 x 101.60	230	*	692	728	630	763	10
3/16 x 6	4.76 x 152.40	356	964	1,480	1,560	1,130	1,560	10
1/4 x 3	6.35 x 76.20	199	459	638	672	542	702	10
1/4 x 4	6.35 x 101.60	234	624	847	891	728	929	10
1/4 x 6	6.35 x 152.40	338	1,020	1,380	1,460	1,200	1,520	10
1/4 x 8	6.35 x 203.20	480	*	*	2,470	1,980	2,600	10
5/16 x 3	7.94 x 76.20	223	602	817	865	711	921	10
5/16 x 4	7.94 x 101.60	287	828	1,120	1,180	974	1,260	10
5/16 x 6	7.94 x 152.40	474	*	1,800	1,900	1,560	2,010	10
5/16 x 8	7.94 x 203.20	602	*	2,550	2,690	2,220	2,870	10
5/16 x 10	7.94 x 254.00	*	*	*	3,360	*	*	10
3/8 x 3	9.53 x 76.20	278	701	970	1,030	819	1,090	10
3/8 x 4	9.53 x 101.60	338	935	1,280	1,360	1,100	1,460	10
3/8 x 6	9.53 x 152.40	525	1,470	2,070	2,170	1,750	2,320	10
3/8 x 8	9.53 x 203.20	711	2,100	2,930	3,080	2,470	3,290	10
3/8 x 10	9.53 x 254.00	916	*	*	4,080	3,280	4,360	10
1/2 x 3	12.70 x 76.20	417	1,100	1,590	1,660	*	1,740	10
1/2 x 4	12.70 x 101.60	525	1,470	2,070	2,170	1,750	2,330	10
1/2 x 6	12.70 x 152.40	800	2,270	3,240	3,420	2,680	3,570	10
1/2 x 8	12.70 x 203.20	1,050	3,180	4,530	4,760	3,740	4,980	10
1/2 x 10	12.70 x 254.00	1,600	4,450	*	6,550	*	6,950	10
9/16 x 4	14.29 x 101.60	*	*	*	*	*	2,870	1
9/16 x 6	14.29 x 152.40	*	*	*	4,050	*	4,320	1
9/16 x 8	14.29 x 203.20	*	*	*	*	*	6,000	1
5/8 x 4	15.88 x 101.60	830	*	3,480	3,670	2,870	3,810	1
5/8 x 6	15.88 x 152.40	1,220	3,660	5,100	5,350	4,300	5,700	1
5/8 x 8	15.88 x 203.20	1,650	5,000	*	7,550	5,900	7,800	1
3/4 x 4	19.05 x 101.60	1,140	*	4,780	5,000	*	5,300	1
3/4 x 6	19.05 x 152.40	1,670	5,050	7,000	7,350	6,000	7,950	1
3/4 x 8	19.05 x 203.20	2,290	*	9,600	10,100	8,000	10,600	1
3/4 x 10	19.05 x 254.00	*	*	*	12,600	*	*	1
1 x 4	25.40 x 101.60	*	*	7,850	*	*	8,800	1
1 x 6	25.40 x 152.40	2,820	8,450	11,800	12,400	9,900	13,100	1
1 x 8	25.40 x 203.20	3,840	*	15,700	16,500	13,300	17,600	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				672	*	701	10
3 x 100	268	*	1,180	1,230	*	*	10
4 x 75	*	*	*	687	*	702	10
4 x 100	275	*	*	1,070	*	*	10
5 x 75	175	*	*	498	*	516	10
5 x 100	230	*	*	728	*	763	10
5 x 150	356	*	1,480	1,560	*	*	10
6 x 75	199	*	638	672	542	702	10
6 x 100	234	624	847	891	*	929	10
6 x 150	338	*	1,380	1,460	*	1,520	10
6 x 200	480	*	*	2,470	*	*	10
8 x 75	223	*	817	865	*	921	10
8 x 100	287	828	*	1,180	974	1,260	10
8 x 150	474	1,330	*	1,900	*	2,010	10
8 x 200	602	1,890	*	2,690	*	*	10
10 x 75	310	*	*	1,110	*	*	10
10 x 100	366	1,020	1,420	1,490	1,200	1,590	10
10 x 150	566	*	2,230	2,340	*	2,490	10
10 x 200	791	*	*	3,300	*	*	10
10 x 250	*	*	*	4,350	*	*	10
12 x 75	417	*	*	1,660	*	*	10
12 x 100	525	1,470	2,070	2,170	1,750	2,330	10
12 x 150	800	2,270	3,240	3,420	2,680	3,570	10
12 x 200	1,050	*	*	4,760	3,740	4,980	10
12 x 250	1,600	*	*	6,550	*	*	10
14 x 100	647	1,900	*	2,690	*	*	1
14 x 150	*	*	3,860	4,050	*	*	1
14 x 200	*	3,990	*	5,600	*	*	1
16 x 100	830	*	*	3,670	2,870	3,810	1
16 x 150	1,220	3,660	5,100	5,350	4,300	5,700	1
16 x 200	1,650	5,000	*	7,550	5,900	*	1
20 x 100	*	*	5,200	5,500	*	5,800	1
20 x 150	1,820	5,500	7,800	8,200	*	8,650	1
20 x 200	*	7,350	*	10,900	8,700	11,600	1
25 x 100		*		8,250	*	*	1
25 x 150	*	8,450	11,800	12,400	*	*	1
25 x 200	*	*	*	16,500	*	17,600	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	*	*	638	672	*	*	10
1/8 x 4	3.18 x 101.60	*	*	*	1,230	*	1,280	10
5/32 x 3	3.97 x 76.20	*	*	*	687	*	*	10
5/32 x 4	3.97 x 101.60	*	*	*	1,070	*	*	10
3/16 x 3	4.76 x 76.20	*	*	474	498	*	516	10
3/16 x 4	4.76 x 101.60	*	*	692	728	*	763	10
3/16 x 6	4.76 x 152.40	*	*	*	1,560	*	*	10
1/4 x 3	6.35 x 76.20	*	*	*	672	*	702	10
1/4 x 4	6.35 x 101.60	*	*	*	891	*	929	10
1/4 x 6	6.35 x 152.40	*	*	1,380	1,460	*	1,520	10
1/4 x 8	6.35 x 203.20	*	*	*	2,470	*	2,600	10
5/16 x 3	7.94 x 76.20	*	*	817	865	*	*	10
5/16 x 4	7.94 x 101.60	*	*	1,120	1,180	*	1,260	10
5/16 x 6	7.94 x 152.40	*	*	*	1,900	*	2,010	10
5/16 x 8	7.94 x 203.20	*	*	*	*	*	*	10
3/8 x 3	9.53 x 76.20	*	*	970	1,030	*	1,090	10
3/8 x 4	9.53 x 101.60	*	935	1,280	1,360	*	*	10
3/8 x 6	9.53 x 152.40	*	*	2,070	2,170	*	2,320	10
3/8 x 8	9.53 x 203.20	*	*	*	3,080	*	*	10
3/8 x 10	9.53 x 254.00	*	*	*	*	*	*	10
1/2 x 3	12.70 x 76.20	*	*	*	1,660	1,300	*	10
1/2 x 4	12.70 x 101.60	*	*	2,070	2,170	*	2,330	10
1/2 x 6	12.70 x 152.40	*	*	3,240	3,420	*	3,570	10
1/2 x 8	12.70 x 203.20	*	*	*	4,760	*	*	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	*	*	*	4,050	*	*	1
9/16 x 8	14.29 x 203.20	*	*	*	*	*	*	1
5/8 x 4	15.88 x 101.60	*	*	3,480	3,670	*	*	1
5/8 x 6	15.88 x 152.40	*	*	5,100	5,350	4,300	5,700	1
5/8 x 8	15.88 x 203.20	*	*	*	7,550	*	*	1
3/4 x 4	19.05 x 101.60	*	*	*	5,000	*	*	1
3/4 x 6	19.05 x 152.40	*	5,050	7,000	7,350	6,000	7,950	1
3/4 x 8	19.05 x 203.20	*	*	*	10,100	8,000	*	1
1 x 4	25.40 x 101.60	*	*	*	*	*	8,800	
1 x 6	25.40 x 152.40	*	*	*	12,400	*	*	1
1 x 8	25.40 x 203.20	*	*	*	16,500	*	*	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 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 T42 RD PRICE (RS)/NO	
3 x 75	*	453	*	672	*	*	10
3 x 100	*	816	*	1,230	*	*	10
4 x 75	*	459	*	687	*	702	10
4 x 100	275	711	1,020	1,070	*	1,090	10
5 x 75	*	361	*	498	*	516	10
5 x 100	*	532	692	728	*	763	10
5 x 150	*	*	*	1,560	*	*	10
6 x 75	*	459	638	672	*	702	10
6 x 100	*	624	847	891	*	929	10
6 x 150	*	*	1,380	1,460	*	1,520	10
6 x 200	*	*	2,340	2,470	*	*	10
8 x 75	*	*	817	865	*	921	10
8 x 100	287	*	1,120	1,180	*	*	10
8 x 150	*	*	1,800	1,900	*	2,010	10
8 x 200	*	*	2,550	2,690	*	*	10
10 x 75	*	*	1,060	1,110	*	1,190	10
10 x 100	366	*	1,420	1,490	*	*	10
10 x 150	*	1,590	2,230	2,340	*	2,490	10
10 x 200	*	*	*	3,300	*	*	10
10 x 250	*	*	*	*	*	*	10
12 x 75	*	*	1,590	1,660	*	1,740	10
12 x 100	*	*	2,070	2,170	*	2,330	10
12 x 150	*	*	*	3,420	2,680	3,570	10
12 x 200	*	*	4,530	4,760	*	*	10
12 x 250	*	*	*	6,550	*	*	10
14 x 100	*	*	*	2,690	*	2,870	1
14 x 150	*	*	*	4,050	*	4,320	1
14 x 200	*	*	*	5,600	*	*	1
16 x 100	*	*	3,480	3,670	*	3,810	1
16 x 150	*	3,660	5,100	5,350	*	5,700	1
16 x 200	*	*	*	7,550	*	7,800	1
20 x 100	*	3,690	*	5,500	*	5,800	1
20 x 150	*	5,500	*	8,200	6,500	8,650	1
20 x 200	*	*	*	10,900	*	*	1
25 x 150	*	*	*	12,400	9,900	*	1
25 x 200	*	*	*	*	*	*	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	1,050	1,940	10
1/8 x 1/2 x 8	3.18 x 12.70 x 203.20		1,820	10
1/8 x 3/4 x 6	3.18 x 19.05 x 152.40	1,400	2,170	10
1/8 x 1 x 6	3.18 x 25.40 x 152.40	1,990	3,120	10
3/16 x 3/8 x 8	4.76 x 9.53 x 203.20	*	1,900	10
3/16 x 1/2 x 8	4.76 x 12.70 x 203.20	*	1,980	10
3/16 x 3/4 x 4	4.76 x 19.05 x 101.60	*	1,820	10
3/16 x 1 x 6	4.76 x 25.40 x 152.40	2,180	3,820	10
1/4 x 3/8 x 8	6.35 x 9.53 x 203.20	1,230	2,420	10
1/4 x 1/2 x 4	6.35 x 12.70 x 101.60	841	1,310	10
1/4 x 1/2 x 6	6.35 x 12.70 x 152.40	1,280	2,020	10
1/4 x 1/2 x 8	6.35 x 12.70 x 203.20	*	2,490	10
1/4 x 5/8 x 6	6.35 x 15.88 x 152.40	1,540	2,480	10
1/4 x 3/4 x 6	6.35 x 19.05 x 152.40	1,820	2,850	10
1/4 x 1 x 6	6.35 x 25.40 x 152.40	2,220	3,480	10
3/8 x 1/2 x 2	9.53 x 12.70 x 50.80	690	*	10
3/8 x 1/2 x 4	9.53 x 12.70 x 101.60	1,260	1,980	10
3/8 x 1/2 x 6	9.53 x 12.70 x 152.40	1,900	3,080	10
3/8 x 1/2 x 8	9.53 x 12.70 x 203.2	*	4,170	10
3/8 x 1/2 x 10	9.53 x 12.70 x 254	*	6,250	10
3/8 x 5/8 x 4	9.53 x 15.88 x 101.60	1,400	2,190	10
3/8 x 5/8 x 6	9.53 x 15.88 x 152.40	2,190	3,420	10
3/8 x 5/8 x 8	9.53 x 15.88 x 203.2	*	4,900	10
3/8 x 3/4 x 6	9.53 x 19.05 x 152.40	2,520	3,940	10
3/8 x 3/4 x 8	9.53 x 19.05 x 203.20	*	5,500	10
3/8 x 7/8 x 6	9.53 x 22.23 x 152.40	*	6,800	10
3/8 x 1 x 6	9.53 x 25.40 x 152.40	4,320	6,800	10
1/2 x 5/8 x 6	12.70 x 15.88 x 152.40	2,700	4,790	1
1/2 x 3/4 x 4	12.70 x 19.05 x 101.60	1,990	*	1
1/2 x 3/4 x 6	12.70 x 19.05 x 152.40	2,990	5,300	1
1/2 x 3/4 x 8	12.70 x 19.05 x 203.20	3,990	*	1
1/2 x 1 x 6	12.70 x 25.40 x 152.40	3,920	6,150	1
5/8 x 3/4 x 6	15.88 x 19.05 x 152.40	4,070	6,950	1
3/4 x 1 x 6	19.05 x 25.40 x 152.40	5,700	11,000	1
3/4" X 1.1/4" X 8"	19.05 x 31.75 x 203.20	*	20,100	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.		NOMINAL SIZE	GRADES		PKT. QTY.
	MARK III	T42				MARK III	T42	
MM	PRICE (RS)/NO	PRICE (RS)/NO			MM	PRICE (RS)/NO	PRICE (RS)/NO	
3 x 6 x 50		495	10		8 X 20 X 200	*	5,550	10
3 x 10 x 150		1,900	10		10 X 16 X 75	*	1,910	10
3 x 12.7 x 150		2,470	10		10 X 16 X 90	*	2,600	10
3 x 20 x 100		1,400	10		10 x 16 x 150	*	3,420	10
3 x 20 x 150	*	2,170	10		10 x 20 x 150	*	3,940	10
3 x 20 x 200	*	3,200	10		10 x 25 x 50	*	1,520	10
3 x 25 x 150	1,990	3,110	10		10 x 25 x 150	*	6,800	10
4 X 12 X 200	*	1,890	10		12 x 20 x 150	2,990	5,300	1
4 X 20 X 200	*	2,900	10		12 x 25 x 150	*	6,150	1
4 X 25 X 150	*	3,910	10		14 x 10 x 100	*	2,190	1
5 x 25 x 150	2,180	3,480	10		16 x 20 x 50	1,700	*	10
5 X 8 X 100	795	*	10		16 x 20 x 60	2,020	*	10
5 X 8 X 125	*	1,870	10		16 x 20 x 150	*	6,950	1
5 X 8 X 150	*	2,420	10		16 x 25 x 150	*	8,950	1
6 x 10 x 200	*	2,420	10		20 x 25 x 150	5,700	*	1
6 x 12 x 100	841	*	10		25 X 10 X 60	*	2,090	10
6 x 12 x 150	1,280	*	10		25 x 25 x 12	*		10
6 x 16 x 150	1,540	*	10		25 X 25 X 16	*	1,400	10
6 x 20 x 150	1,820	*	10		30 X 30 X 16	*	2,980	10
6 x 25 x 150	2,220	3,480	10		30 X 20 X 300	*	34,900	1
8 X 13 X 150	2,650	*	10		30 X 25 X 175	*	20,200	1
8 X 13 X 200	*	5,000	10		35 x 10 x 60	*	3,250	10
8 X 20 X 125	2,110	*	10		40 x 40 x 16	*	3,690	10

- 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	1,100	1,930		10
3/32 x 5/8 x 5	2.38 x 15.88 x 127.00	1,380	2,540		10
1/8 x 3/4 x 6	3.18 x 19.05 x 152.40	1,760	3,120	3,210	10
1/8 x 7/8 x 6	3.18 x 22.23 x 152.40	2,060	3,810		10
3/16 x 1 x 6	4.76 x 25.40 x 152.40	2,550	4,360	4,660	10

- Mark II - M2 (HSS with 0% Cobalt) (62-65 HRC), T42 (HSS with 10% Cobalt) (64-67 HRC)
- S500 - T42 with Cryogenic (Ultra Low) Heat Treatment (65-69 HRC)

HSS TOOLBIT BLANK ZEDD P

PRODUCT DESCRIPTION	PRICE (RS)/NO	PACKING QTY
TOOLBIT BLANK SQ 3/16"X4" ZEDDP	252	10
TOOLBIT BLANK SQ 3/16"X6" ZEDDP	389	10
TOOLBIT BLANK SQ 1/4"X3" ZEDDP	218	10
TOOLBIT BLANK SQ 1/4"X4" ZEDDP	255	10
TOOLBIT BLANK SQ 1/4"X6" ZEDDP	367	10
TOOLBIT BLANK SQ 5/16"X3" ZEDDP	242	10
TOOLBIT BLANK SQ 5/16"X4" ZEDDP	316	10
TOOLBIT BLANK SQ 5/16"X6" ZEDDP	517	10
TOOLBIT BLANK SQ 3/8"X3" ZEDDP	301	10
TOOLBIT BLANK SQ 3/8"X4" ZEDDP	367	10
TOOLBIT BLANK SQ 3/8"X6" ZEDDP	572	10
TOOLBIT BLANK SQ 3/8"X8" ZEDDP	776	10
TOOLBIT BLANK SQ 1/2"X3" ZEDDP	456	10
TOOLBIT BLANK SQ 1/2"X4" ZEDDP	572	10
TOOLBIT BLANK SQ 1/2"X6" ZEDDP	873	10
TOOLBIT BLANK SQ 1/2"X8" ZEDDP	1,140	10
TOOLBIT BLANK SQ 5/8"X4" ZEDDP	909	10
TOOLBIT BLANK SQ 5/8"X6" ZEDDP	*	10
TOOLBIT BLANK SQ 3/4"X6" ZEDDP	1,830	10
TOOLBIT BLANK SQ 1"X6" ZEDDP	*	10
TOOLBIT BLANK SQ 1"X8" ZEDDP	4,190	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	PRODUCT DESCRIPTION	PRICE (RS)/NO
12 x 9 x 20 mm M2 TOL -0.03	209	Parting Blade 2.5 x 20 x 200 mm M42	2,860
4.5 x 3 x 20 mm M2 TOL -0.03	198	Parting Blade 2 x 20 x 200 mm M42	2,730
4 x 3 x 13 mm M2 TOL -0.03	105	Parting Blade 4.5 x 20 x 200 mm M42	5,000
6.5 x 5.5 x 20 mm M2 TOL -0.03	210	Parting Blade 1.5 x 12 x 125 mm T42	3,080
TB BLANK FL 6.38X3.21X20 MM M2 TOL -0.03	210	Parting Blade 1/4" x 1" x 6" S500	5,350
TOOLBIT BLANK SQ 5.1X60 MM WITH 0° BEVEL M2	277	TB BLANK RD 2X60 MM S400	615
TOOLBIT BLANK SQ 2.8X60 MM WITH 0° BEVEL	280	TOOLBIT RD 3X50 MM S400	672
TB BLANK SQ 8X100 MM M2 TOL +0.05	361	TOOLBIT BLANK RD 15X75 MM M42	2,550
TOOLBIT BLANK RD 6.5X90 MM S200	369	TOOLBIT BLANK RD 18X100 MM S400	2,820
TB BLANK SQ 10X100 MM M2 TOL +0.05	459	TOOLBIT BLANK RD 17X100 MM S400	3,700
TOOLBIT BLANK RD 8.5X95 MM S200	533	TOOLBIT BLANK RD 18X150 MM S400	4,180
TOOLBIT RD 4.5x100 mm S100	785	TOOLBIT BLANK RD 17X150 MM S400	5,650
TOOLBIT BLANK RD 10.5X105 MM S200	876	TOOLBIT BLANK RD 15X150 mm S500	5,700
TOOLBIT RD 2.5x100 mm S100	912	TB BLANK SQ 5.5X5.5X125 MM S400	750
TRIMMING BIT SQ 19.05X55 MM M2 - DRG ID	1,075	TB BLANK SQ 6X150 MM S500 +0.03/+0.10	1,780
TRIMMING BIT SQ 19.05X55 MM M2 - DRG OD	1,075	TB BLANK SQ 8X150 MM S500 +0.03/+0.10	2,460
TOOLBIT BLANK FL 25X25X12 MM T42	1,130	TOOLBIT BLANK SQ 7/16"X6" S400	3,200
T.B SQ 3/8"X8" HSS ZEDD TIN COATING	1,113	TB BLANK SQ 10X150 MM S500 +0.03/+0.10	3,460
TRIMMING BIT SQ 19.05X65 MM M2 - DRG ID	1,236	TOOLBIT SQ 12X150 MM S500 +0.03/+0.1 M	3,930
TB BLANK SQ 6.38/6.41 MM X 6" T42	1,763	TB BLANK SQ 1/2"X6" S500 +0.03/+0.10	4,290
TOOLBIT BLANK RD 12.7X200 MM S200	1,866	TB BLANK SQ 14X150 MM S500 TOL+0.03/+0.1	4,320
Parting tool 3.25 x 19 x 160 mm M35	2,027	TB BLANK SQ 16X150 MM S500 TOL+0.03 +0.1	6,550
Parting tool 3.25 x 19 x 170 mm M35	2,100	TB BLANK SQ 20X150 MM S500 TOL+0.03 +0.1	10,000
SP FL 3.5x25.8x160mm M2 (61-63 HRC)	2,303	TB BLANK SQ 22X150 MM S500 TOL+0.03 +0.1	15,700
SP FL 3.5x25.8x240mm M2 (61-63 HRC)	2,834	TOOLBIT BLANK SQ 22X150 MM S500	15,700
TOOLBIT BLANK SQ 1"X6" M2 WITH CRYO	3,132	TB BLANK SQ 1"X6" S500 +0.03/+0.10	15,800
TOOLBIT BLANK RD 10X250MM S400	4,181	TB SQ 25X150 mm S500 TOL +0.03 / +0.1	15,800
Pre-Sealing Punch for Flatening Machine	5,263	TOOLBIT BLANK SQ 1.1/8"X6" S500	20,400
Parting Blade 1.1 x 12 x 200 mm M42	3,230	TB BLANK SQ 32X150 MM S500 +0.03/+0.10	21,300
Parting Blade 1.5 x 12.7 x 200 mm M42	2,830	TOOLBIT BLANK SQ 1.1/2"X6" T42	34,300
Parting Blade 1.5 x 15 x 200 mm M42	3,210	TOOLBIT BLANK SQ 1.1/4"X6" T42	34,300
Parting Blade 1.5 x 20 x 170 mm M42	3,380	TOOLBIT BLANK SQ 1.1/2"X8" S500	43,800
Parting Blade 1.5 x 20 x 200 mm M42	3,210	TB BLANK SQ 36X150 MM S500 +0.03/+0.10	46,700
Parting Blade 1.9 x 20 x 200 mm M42	2,630		

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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			1,200	*	*
0.90			1,270	*	*
1.00		-	710	800	950
1.02		60	710	*	*
1.04		59	710	*	*
1.05			710	*	*
1.07		58	710	*	*
1.09		57	710	*	*
1.10		-	710	800	950
1.18		56	710	*	*
1.19	3/64	-	710	800	950
1.20		-	710	800	950
1.25			710	*	*
1.30		-	710	800	950
1.32		55	710	*	*
1.35			710	*	*
1.40		54	710	800	950
1.45			710	*	*
1.50		-	710	800	950
1.51		53	710	*	*
1.55			710	*	*
1.59	1/16	-	710	800	950
1.60		-	710	800	950
1.61		52	730	*	*
1.63			*	830	
1.65			730	*	*
1.70		51	730	830	1,010
1.75			730	*	*
1.78		50	730	*	*
1.80		-	730	830	1,010
		49	730		
1.85			730	*	*
1.90		-	730	830	1,010
1.93		48	730	830	*
1.95			730	830	*
1.98	5/64	-	730	830	1,010
1.99		47	730	*	*
2.00		-	730	830	1,010
2.06		46	730	*	*
2.08		45	730	830	*
2.10		-	730	830	1,010
2.18		44	730	*	*
2.20		-	730	830	1,010
2.26		43	730	*	*
2.30		-	730	830	1,010
2.35			730	*	*
2.37		42	730	*	*
2.38	3/32	-	730	830	1,010
2.40		-	730	830	1,010

SIZES			PRICE RS./10 NOS.		
MM	INCH	DG	STD. JOBBER DRILLS	GOLD JOBBER DRILLS	SUPER JOBBER DRILLS
			M2	M2	M35
2.44		41	730	830	*
		40	730	*	*
2.45			730	*	*
2.50		-	730	830	1,010
2.53		39	730	*	*
		38	730	*	*
2.55			730	*	1,010
2.60		-	730	830	1,010
2.64		37	730	*	*
2.65			730	*	*
2.70		-	730	830	1,010
2.71		36	730	*	*
2.75			730	*	*
2.78	7/64	-	730	830	1,010
2.79		35	730	*	*
2.80		-	770	830	1,030
2.82		34	770	*	*
2.87		33	770	*	1,030
2.90		-	770	850	1,030
2.93			*	*	1,030
2.95			770	*	*
		32	770	*	1,030
3.00		-	770	850	1,030
		31	900	1,000	*
3.05			*	*	1,210
3.10		-	900	1,000	1,210
	1/8	-	920	1,020	1,210
3.20		-	950	1,020	1,250
3.25			950	*	*
		30	920	1,020	*
3.30		-	950	1,020	1,250
3.40		-	950	1,020	1,250
3.45			950	1,020	1,250
		29	920	*	*
3.50		-	950	1,020	1,250
		28	920	*	*
	9/64		950	1,020	1,250
3.60		-	1,380	1,520	1,860
3.65			1,380	*	*
		27	1,380	*	*
3.70		-	1,380	1,520	1,860
		26	1,380	*	*
3.75			1,380	*	*
3.80			1,380	1,520	1,860
		25	1,380	*	*
3.86		24	1,380	*	*
3.90		-	1,380	1,520	1,860
3.91		23	1,380	*	*
3.95			1,380	*	*

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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	-	1,380	1,520	1,860
		22	1,380	*	*
4.00		-	1,380	1,520	1,860
		21	1,640	1,830	*
4.05			1,640	*	*
		20	1,640	*	*
4.10		-	1,640	1,830	2,230
4.15			1,640	*	*
4.20		-	1,640	1,830	2,230
4.25			1,640	*	*
		19	1,640	*	*
4.30			1,640	1,830	2,230
		18	1,640	*	*
	11/64	-	1,640	1,830	2,230
		17	1,640	*	*
4.40		-	1,640	1,830	2,230
4.50			2,170	2,420	2,940
		15	2,170	*	*
4.60		-	2,170	2,420	2,940
		14	2,170	*	*
4.70		13	2,170	2,420	2,940
4.75			2,170	*	*
	3/16	-	2,170	2,420	2,940
4.80			2,170	2,420	2,940
4.85			2,400	*	*
4.90		-	2,400	2,650	3,230
		10	2,400	*	*
4.95			2,400	*	*
		9	2,400	*	*
5.00		-	2,400	2,650	3,230
		8	2,400	*	*
5.10		-	2,400	2,650	3,230
		7	2,400	*	*
	13/64	-	2,400	2,650	3,230
		6	2,400	*	*
5.20		-	2,400	2,650	3,230
5.22		5	2,570	*	*
5.30		-	2,570	2,860	3,500
5.31		4	2,570	*	*
5.40		-	2,570	2,860	3,500
5.41		3	2,570	*	*
5.45			*	*	3,500
5.50		-	2,570	2,860	3,500
	7/32	-	2,570	2,860	3,500
5.60		-	2,570	2,860	3,500
5.61		2	2,870	*	*
5.70		-	2,870	3,190	3,880
5.79		1	2,870	*	*
5.80		-	2,870	3,190	3,880
5.90		-	2,870	3,190	3,880

SIZES			PRICE RS./10 NOS.		
MM	INCH	DG	STD. JOBBER DRILLS	GOLD JOBBER DRILLS	SUPER JOBBER DRILLS
			M2	M2	M35
	15/64	-	2,870	3,190	3,880
6.00		-	2,870	3,190	3,880
6.04		B	3,140	*	*
6.10		-	3,140	3,500	4,260
6.15		C	3,140	3,500	*
6.20		-	3,140	3,500	4,260
		D	3,140	*	*
6.25			3,140	*	*
6.30		-	3,140	3,500	4,260
	1/4	E	3,140	3,500	4,260
6.40		-	3,140	3,500	4,260
6.50		-	4,010	4,450	5,440
6.60		-	4,010	4,450	5,440
6.63		G	4,010	*	*
6.70		-	4,010	4,450	5,440
6.75	17/64	H	4,010	4,450	5,440
6.80		-	4,010	4,450	5,440
6.90		-	4,390	4,880	5,940
6.95			4,390	*	*
7.00		J	4,390	4,880	5,940
7.10		-	4,390	4,880	5,940
	9/32	K	4,390	4,880	5,940
7.20		-	4,390	4,880	5,940
7.30		-	4,640	5,150	6,290
7.40		-	4,640	5,150	6,290
7.50		-	4,640	5,150	6,290
	19/64	-	5,040	5,590	6,790
7.60		-	5,040	5,590	6,790
7.70		-	5,040	5,590	6,790
7.80		-	5,040	5,590	6,790
7.90		-	5,500	6,110	7,450
	5/16	-	5,500	6,110	7,450
8.00		-	5,500	6,110	7,450
8.03		O	5,500	*	*
8.10		-	5,500	6,110	7,450
8.20		-	5,500	6,110	7,450
8.25			6,540	*	*
8.30		-	6,540	7,260	9,010
	21/64	-	6,540	7,260	9,010
8.40		-	6,540	7,260	9,010
8.50		-	6,540	7,260	9,010
8.60		-	6,540	7,260	9,010
8.70		-	6,540	7,260	9,010
	11/32	-	6,970	7,740	9,590
8.80		-	6,970	7,740	9,590
		S	6,670	*	*
8.90		-	6,970	7,740	9,590
9.00		-	6,970	7,740	9,590
9.10		-	7,210	7,990	9,830
	23/64		7,210	7,990	9,900

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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			7,210	7,990	9,900
9.30			7,210	7,990	9,900
9.34		U	7,210	*	*
9.40			7,210	7,990	9,900
9.50			7,210	7,990	9,900
	3/8		8,190	9,090	11,200
9.60			8,190	9,090	11,200
9.70			8,190	9,090	11,200
9.80			8,190	9,090	11,200
9.90			9,130	10,100	12,500
	25/64		9,130	10,100	12,500
10.00			9,130	10,100	12,500
10.10			9,130	10,100	12,500
10.20			9,130	10,100	12,500
		Y	*	10,800	*
10.30			9,930	11,000	13,600
	13/32		9,930	11,000	13,600
10.40			9,930	11,000	13,600
10.50			9,930	11,000	13,600
10.60			9,930	11,000	13,600
10.70			10,500	11,700	14,300
	27/64		10,500	11,700	14,300
10.80			10,500	11,700	14,300
10.90			10,500	11,700	14,300
11.00			10,500	11,700	14,300
11.10			11,800	13,000	16,000
	7/16		11,800	13,000	16,000
11.20			11,800	13,000	16,000
11.30			11,800	13,000	16,000
11.40			11,800	13,000	16,000
11.50			12,300	13,700	16,900
	29/64		12,300	13,700	16,900
11.60			12,300	13,700	16,900
11.70			12,300	13,700	16,900
11.80			12,300	13,700	16,900
11.90			13,300	14,600	18,000
	15/32		13,300	14,600	17,900
12.00			13,300	14,600	18,000
12.10			13,300	14,600	18,000
12.20			13,300	14,600	18,000
12.30			14,000	15,600	19,100
	31/64		14,000	15,600	19,100
12.40			14,000	15,600	19,100
12.50			14,000	15,600	19,100
12.60			14,000	15,600	19,100
12.70			14,700	16,400	20,100
	1/2		14,700	16,400	*
12.80			14,700	16,400	20,100
12.90			14,700	16,400	20,100
13.00			14,700	16,400	20,100

SIZES			PRICE RS./10 NOS.		
MM	INCH	DG	STD. JOBBER DRILLS	GOLD JOBBER DRILLS	SUPER JOBBER DRILLS
			M2	M2	M35
	33/64		18,300	19,600	24,900
13.10			18,300	19,600	24,900
13.20			18,300	19,600	24,200
13.30			18,300	19,600	24,200
13.40			18,300	19,600	24,200
	17/32		19,500	21,700	26,500
13.50			19,500	21,700	26,700
13.60			19,500	21,700	26,700
13.70			19,500	21,700	26,700
13.80			19,500	21,700	26,700
	35/64		21,200	23,500	28,800
13.90			21,200	23,500	28,800
14.00			21,200	23,500	28,900
14.10			21,100	*	*
14.20			21,100	*	*
14.25			21,100	23,500	28,800
	9/16		21,900	24,700	30,200
14.30			22,200	*	*
14.40			22,200	*	*
14.50			23,600	24,700	32,100
14.60			*	*	*
	37/64		23,600	26,600	32,500
14.70			23,600	*	*
14.75			23,900	26,600	32,400
14.80			23,900	*	*
15.00			23,900	26,600	32,100
	19/32		23,900	26,600	32,500
15.25			23,900	26,600	32,100
15.30			24,000	*	*
15.40			24,800	*	*
	39/64		24,800	*	*
15.50			25,700	28,400	35,200
15.60			25,700	*	*
15.75			25,700	28,400	35,200
15.80			25,700	*	*
	5/8		25,700	28,400	35,200
16.00			25,700	28,400	35,200
16.30			26,300	*	*
16.50			27,100	30,100	37,300
			*	*	*
17.00			27,100	30,100	37,300
	11/16		27,100	30,500	*
17.50			29,600	*	37,300
18.00			29,400	32,500	41,900
18.50			31,100	*	41,900
19.00			31,100	34,500	41,900
19.05	3/4		31,100	34,900	*
19.50			31,300	39,500	42,600
20.00			37,400	39,500	42,600

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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		710	820
	1/16	710	*
1.60		*	820
1.65		*	820
1.90		730	820
	5/64"	730	*
2.00		730	*
2.20		730	*
	3/32"	730	*
2.50		730	*
2.60		730	*
	7/64"	730	820
2.80		730	*
2.90		*	890
3.00		730	*
3.10		730	*
	1/8"	880	960
3.20		920	*
3.30		920	*
3.40		920	*
3.50		920	*
	9/64"	920	1,020
3.70		1,300	*
3.80		1,300	*
	5/32"	1,300	1,460
4.00		1,300	1,460
4.20		1,470	*
	11/64"	1,480	*
4.40		1,880	*
4.50		1,940	*
4.70		1,940	*
	3/16"	1,940	2,090
4.80		1,940	*
4.90		2,090	*
5.00		2,090	2,320
5.10		2,090	*
	13/64"	2,090	2,320
5.20		2,090	*
5.30		2,160	*
5.40		2,160	*
5.50		2,250	*
	7/32"	2,250	*
5.90		2,460	*
	15/64"	2,470	*
6.00		2,550	2,830
6.10		*	3,030
6.20		2,750	3,030
6.30		2,750	*
	1/4"	2,840	3,160
6.40		2,840	*
6.50		3,510	*
	17/64"	3,510	3,890
6.80		3,510	*
7.00		3,850	*

SIZES		PRICE (RS)/10 NOS	
MM	INCH	STD. STUB DRILLS	GOLD STUB DRILLS
7.10		3,850	*
	9/32"	3,850	4,270
7.40		3,850	*
7.50		3,850	4,430
	19/64"	4,230	*
7.60		4,230	*
7.70		4,230	*
7.80		4,230	*
	5/16"	4,820	5,360
8.00		4,820	5,360
8.10		5,950	*
	21/64"	5,950	*
8.50		5,950	*
8.60		6,200	*
	11/32"	6,200	*
8.80		6,200	6,900
9.00		6,200	*
9.10		6,300	*
	23/64"	6,300	*
9.50		6,540	*
	3/8"	6,840	7,580
9.80		6,840	*
9.90		8,050	*
	25/64"	8,370	*
10.00		8,370	8,930
10.10		9,000	*
10.20		9,000	*
	13/32"	9,000	10,500
10.50		9,000	*
	27/64"	9,750	*
10.80		10,100	*
11.00		10,100	*
	7/16"	11,200	11,800
11.50		11,200	*
	29/64"	11,200	*
11.80		11,200	*
	15/32"	11,400	*
12.00		12,000	*
12.10		12,000	*
12.20		12,000	*
12.50		12,500	*
12.70		12,700	14,800
	1/2"	13,300	14,800
13.00		13,300	16,100
	17/32"	15,600	*
13.50		16,500	*
	35/64"	16,500	*
14.00		18,000	*
14.20		19,500	*
	9/16"	20,020	22,400
14.80		21,900	*
	5/8"	22,400	*
18.00		24,920	27,200
20.00		36,100	34,000

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

DESCRIPTION	PRICE (RS)/10 NOS
1/8"	980
3.20 mm	1,030
3.5 mm	1,030
9/64"	1,030
4.20 mm	1,780
5.00 mm	2,590
13/64"	2,590
5.80 mm	3,130

DESCRIPTION	PRICE (RS)/10 NOS
6.20 mm	3,410
6.50 mm	4,540
6.80 mm	4,540
8.50 mm	7,230
10.00 mm	10,100
10.50 mm	11,000

HSS JOBBER DRILL - STEAM TEMPERED

DESCRIPTION	PRICE (RS)/10 NOS
3.50 mm	960
4.20 mm	1,840
4.50 mm	2,300

DESCRIPTION	PRICE (RS)/10 NOS
5.20 mm	2,300
7.00 mm	5,280
8.00 mm	6,910


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HSS JOBBER DRILL SET IS:5101 - 1991

DRILL SET (MM)	REGULAR	GOLD	SUPER	TIN COATED
1.50 TO 6.50 MM (13 Pcs.)	2,490	2,760	*	2,980
1.00 TO 10.00 MM (19 Pcs.)	6,950	*	*	8,300
1.00 TO 13.00 MM (25 Pcs.)	14,600	16,300	21,200	17,600
1.00 - 6.00 51 PCS	10,833	11,300	*	14,100
6.0 - 10.0 x 0.1 mm	*	*	*	28,800

DRILL SET (INCH)	REGULAR	GOLD	SUPER	TIN COATED
1/16 TO 1/4 INCH (13 Pcs.)	2,490	2,760	*	2,980
1/16 TO 3/8 INCH (21 Pcs.)	7,350	8,200	*	8,850
1/16 TO 1/2 INCH (1/32")				*
1/16 TO 1/2 INCH (29 Pcs.)	16,300	*	*	19,500

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HSS JOBBER 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	105	10	3.90 mm	217	10	8.40 mm	898	10
1.20 mm	105	10	4.00 mm	225	10	8.50 mm	898	10
1.30 mm	105	10	4.10 mm	267	10	8.80 mm	1,076	10
1.40 mm	105	10	4.20 mm	267	10	9.00 mm	1,190	10
1.60 mm	105	10	4.30 mm	267	10	9.10 mm	1,190	10
1.70 mm	109	10	4.40 mm	267	10	9.20 mm	1,266	10
1.80 mm	109	10	4.60 mm	317	10	9.25 mm	1,266	10
1.90 mm	109	10	4.70 mm	317	10	9.30 mm	1,266	10
2.00 mm	114	10	4.80 mm	317	10	9.50 mm	1,266	10
2.10 mm	125	10	4.90 mm	352	10	9.60 mm	1,266	10
2.20 mm	125	10	5.00 mm	352	10	10.0 mm	1,350	10
2.30 mm	125	10	5.10 mm	352	10	10.20 mm	1,350	10
2.40 mm	125	10	5.20 mm	352	10	10.50 mm	1,430	10
2.50 mm	125	10	5.30 mm	372	10	11.00 mm	1,480	10
2.60 mm	125	10	5.40 mm	372	10	11.30 mm	1,728	10
2.70 mm	125	10	5.50 mm	372	10	11.50 mm	1,730	10
2.90 mm	127	10	5.60 mm	401	10	12.00 mm	1,810	10
3.00 mm	125	10	5.70 mm	401	10	12.30 mm	2,342	10
3.10 mm	174	10	5.80 mm	401	10	12.40 mm	2,362	10
3.20 mm	174	10	5.90 mm	401	10	12.50 mm	1,810	10
3.30 mm	181	10	6.00 mm	601	10	13.00 mm	1,810	10
3.40 mm	181	10	6.80 mm	601	10	13.20 mm	3,004	1
3.50 mm	181	10	7.10 mm	779	10	13.80 mm	2,260	1
3.60 mm	217	10	8.00 mm	779	10	WG08	338	10
3.70 mm	217	10	8.10 mm	778	10			
3.80 mm	217	10	8.20 mm	789	10			

HSS-E JOBBER DRILLS 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	167	10	6.80 mm	811	10	11.00 mm	1,980	10
3.30 mm	244	10	8.00 mm	1,170	10	12.00 mm	2,450	10
4.00 mm	304	10	8.50 mm	1,170	10	12.50 mm	2,450	10
4.20 mm	360	10	9.50 mm	1,620	10	13.00 mm	2,450	10
5.00 mm	476	10	10.00 mm	1,790	10			
6.00 mm	811	10	10.50 mm	1,900	10			

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HSS PARALLEL SHANK-LONG SERIES, DIN 340

SIZE		PRICE (RS)/NO	SIZE		PRICE (RS)/NO	SIZE		PRICE (RS)/NO
MM	INCH		MM	INCH		MM	INCH	
1.00		373	5.20		608	9.30		1,750
1.10		373	5.30		713	9.40		1,750
1.20		373	5.40		713	9.50		1,750
1.30		373	5.50		713	9.52	3/8	1,750
1.40		373		7/32	713	9.60		1,750
1.50		373	5.60		771	9.70		1,800
1.60		373	5.70		771	9.80		1,800
1.70		373	5.80		771	9.90		1,800
1.80		373	5.90		771		25/64	1,800
1.90		373		15/64	771	10.00		1,950
2.00		373	6.00		771	10.10		1,950
2.10		373	6.10		875	10.20		2,040
2.20		373	6.20		875	10.30		2,040
2.30		479	6.30		875		13/32	2,040
	3/32	*		1/4	875	10.40		2,040
2.40		479	6.40		1,120	10.50		2,100
2.50		479	6.50		1,120	10.60		2,290
2.60		479	6.60		1,360	10.70		2,290
2.70		479	6.70		1,360		27/64	2,290
	7/64	479		17/64	1,360	10.80		2,290
2.80		479	6.80		1,360	10.90		2,290
2.90		479	6.90		1,360	11.00		2,380
3.00		485	7.00		1,360	11.10		2,380
3.10		485	7.10		1,360		7/16	2,380
	1/8	485		9/32"	1,360	11.20		2,380
3.20		485	7.20		1,360	11.50		2,380
3.30		485	7.30		1,360	11.70		2,380
3.40		485	7.40		1,360	11.80		2,380
3.50		485	7.50		1,360	11.90		2,380
	9/64	485		19/64"	1,360	12.00		2,480
3.60		525	7.70		1,360	12.10		2,480
3.70		525	7.80		1,360	12.20		2,480
3.80		525	7.90		1,400	12.40		2,480
3.90		525	7.94	5/16	1,400	12.50		3,000
	5/32	525	8.00		1,400		1/2	3,340
4.00		525	8.10		1,400	12.70		3,340
4.10		525	8.20		1,400	12.80		3,340
4.20		525	8.30		1,400	13.00		3,340
4.30		525		21/64	1,400	13.50		3,340
	11/64	525	8.40		1,400	14.00		3,340
4.40		525	8.50		1,400		9/16	*
4.50		525	8.60		1,540	14.50		3,650
4.60		525	8.70		1,540	14.80		3650
4.70		525		11/32	1,540	15.00		3,650
	3/16	525	8.80		1,550	15.50		*
4.80		525	8.90		1,550		5/8	*
4.90		608	9.00		1,550	16.00		3,720
5.00		608	9.10		1,750	18.00		4,140
5.10		608		23/64	1,750			
	13/64	608	9.20		1,750			

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	OAL MM 200	OAL MM 250	OAL MM 315	OAL MM 400
MM	INCH	FL MM 100	FL MM 150	FL MM 200	FL MM 250	FL MM 350
3.00		1,440	1,940	2,410	*	
	1/8	1,440	1,940	*	*	
3.20		1,460	*	*	*	
3.50		1,460	1,950	*	*	
3.80		1,460	1,950	2,490	*	
4.00		1,460	1,950	2,950	3,880	*
4.20		1,460	1,950	*	*	*
4.50		1,460	2,000	2,960	4,160	*
	3/16	1,460	2,000	*	4,260	*
4.80		*	2,000	*	*	*
5.00		1,460	2,040	3,020	4,260	5,350
5.10		1,580	2,080	*	*	*
5.20		1,630	2,080	3,220	4,260	*
5.50		1,690	2,160	3,220	*	5,600
	7/32	*	*	*	4,260	*
5.80		*	2,160	3,470	4,210	*
6.00		1,690	2,200	3,310	4,380	6,500
6.20			*	3,850	*	*
	1/4		2,660	*	4,960	*
6.50			2,660	3,850	4,960	6,500
6.70			*	4,020	*	*
	17/64		*	*	5,000	*
6.80			2,950	4,240	5,000	*
7.00			2,950	4,240	5,000	7,300
7.50			2,950	4,420	5,100	7,300
7.80			3,030	4,510	5,200	*
	5/16		*	*	5,550	*
8.00			3,090	4,690	5,550	7,500
	21/64		3,120	*	5,550	*
8.50			3,230	4,770	5,550	7,500
	11/32		*	*	5,550	*
9.00			3,240	4,770	5,550	8,000
9.50			3,330	4,780	6,350	8,000
	3/8		3,330	*	*	*
9.70			*	4,780	*	*
9.80			3,530	4,780	6,400	*
10.00			3,530	4,880	6,500	8,300
10.20			3,530	4,880	6,800	*
10.30			3,540	*	*	*
10.50			3,680	5,050	6,800	8,550
10.70			3,900	*	*	*
	27/64		*	*	7,050	*
11.00			3,900	5,100	7,050	9,000
11.10			4,100	*	*	*
11.30			4,100	*	*	*
11.50			4,100	5,350	7,100	9,350
	29/64		*	*	9,250	*
11.70			*	5,400	*	*
11.80			*	5,400	9,250	*
	15/32		*	*	9,250	*
12.00			*	*	9,250	10,200
12.50			5,700	5,700	9,250	10,200
	1/2		*	5,700	9,250	*
12.80			*	*	9,250	*
13.00			*	6,500	9,250	*
14.00			*	6,500	9,250	*

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

SIZES		PRICE (RS)/NO				
		OAL MM 160	OAL MM 200	OAL MM 250	OAL MM 315	OAL MM 400
MM	INCH	OAL MM 100	OAL MM 150	OAL MM 200	OAL MM 250	OAL MM 350
3.00		1,630	*	*	*	
	1/8	*	*	*	*	
3.20		*	*	*	*	
3.50		*	*	*	*	
3.80		*	*	*	*	
4.00		1,630	2,260	3,410	*	*
4.20		*	*	*	*	*
4.50		*	*	*	*	*
	3/16	*	*	*	*	*
4.80		*	*	*	*	*
5.00		1,680	2,350	*	*	*
5.10		*	*	*	*	*
5.20		*	*	*	*	*
5.50		*	*	*	*	*
	7/32	*	*	*	*	*
5.80		*	*	*	*	*
6.00		1,770	2,540	3,830	*	*
6.20		*	*	*	*	*
	1/4	*	*	*	*	*
6.50		*	3,080	4,440	*	*
6.70		*	*	*	*	*
	17/64	*	*	*	*	*
6.80		*	3,230	4,830	*	*
7.00		*	3,230	4,830	5,800	*
7.50		*	*	*	*	*
7.80		*	*	*	*	*
	5/16	*	*	*	*	*
8.00		*	3,600	5,400	6,400	*
	21/64	*	*	*	*	*
8.50		*	3,730	5,500	6,400	*
	11/32	*	*	*	*	*
9.00		*	3,740	*	*	*
9.50		*	*	*	*	*
	3/8		*	*	*	*
9.70			*	*	*	*
9.80			*	*	*	*
10.00			3,910	6,600	*	*
10.20			*	*	*	*
10.30			*	*	*	*
10.50			*	*	7,850	*
10.70			*	*	*	*
	27/64		*	*	*	*
11.00			4,340	*	*	*
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	336	0.80	3.15	*							
1.00	3.15	339	1.00	3.15	*	1.00	4.00	557	BS-1	3/64"	1/8"	339
1.25	3.15	339	1.25	3.15	339	1.25	5.00	601	BS-2	1/16"	3/16"	339
1.60	4.00	339	1.60	4.00	339	1.60	6.30	701	BS-3	3/32"	1/4"	389
2.00	5.00	339	2.00	5.00	339	2.00	8.00	987	BS-4	1/8"	5/16"	606
2.50	6.30	389	2.50	6.30	389	2.50	10.00	1,260	BS-5	3/16"	7/16"	800
3.15	8.00	606	3.15	8.00	606	3.15	11.20	1,690	BS-6	1/4"	5/8"	1,510
4.00	10.00	749	4.00	10.00	749	4.00	14.00	2,260	BS-7	5/16"	3/4"	2,320
5.00	12.50	1,270	5.00	12.50	*	5.00	18.00	3,210				
6.30	16.00	1,510	6.30	16.00	*	6.30	20.00	3,540				
8.00	20.00	*	8.00	20.00	*	8.00	25.00	4,910				

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"	391
BS-2	1/16"	3/16"	391
BS-3	3/32"	1/4"	447
BS-4	1/8"	5/16"	697
BS-5	3/16"	7/16"	1,180
BS-6	1/4"	5/8"	1,730

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 & HSS-E TAPER SHANK DRILLS

IS : 5103 - 1969, DIN 345

SIZE		PRICE (RS)/NO	
MM	INCH	REGULAR (M2)	SUPER (M35)
3.00		626	755
	1/8	626	*
3.20		626	755
3.50		626	755
3.80		*	755
	5/32	671	*
4.00		626	848
4.20		844	999
	11/64	844	*
4.50		844	999
	3/16	844	*
4.80		844	999
5.00		868	999
	13/64	868	*
5.20		868	999
5.50		868	999
	7/32	868	*
5.80		868	999
6.00		962	1,140
6.20		962	1,140
	1/4	962	*
6.50		962	1,140
6.60		976	*
6.70		976	*
6.75		976	*
	17/64	976	*
6.80		976	1,140
7.00		1,040	1,300
	9/32	1,040	*
7.10		1,040	*
7.20		1,040	1,300
7.50		1,040	1,300
7.80		1,040	1,300
	5/16	1,130	*
8.00		1,130	1,300
8.20		1,250	*
	21/64	1,250	*
8.50		1,250	1,700

SIZE		PRICE (RS)/NO	
MM	INCH	REGULAR (M2)	SUPER (M35)
8.60		1,380	*
8.70		1,380	*
	11/32	1,380	*
8.80		1,520	1,740
9.00		1,520	1,870
9.20		1,520	1,870
9.50		1,520	1,870
	3/8	1,520	*
9.60		1,520	*
9.80		1,620	1,870
	25/64	1,620	*
10.00		1,640	1,980
10.20		1,640	1,980
	13/32	1,640	*
10.25		1,640	*
10.30		1,640	*
10.40		2,000	*
10.50		2,000	2,630
10.70		2,030	*
	27/64	2,030	*
10.80		2,030	2,630
11.00		2,030	2,750
	7/16	2,030	*
11.20		2,090	2,750
11.25		2,090	*
11.50		2,090	2,830
11.70		2,090	*
11.80		2,090	2,830
	15/32	2,090	*
12.00		2,120	2,870
12.20		2,120	2,870
12.25		2,120	*
	31/64	2,120	*
12.50		2,120	2,870
12.60		2,120	*
12.70		2,120	2,870
	1/2	2,120	*
12.80		2,940	3,980

SIZE		PRICE (RS)/NO	
MM	INCH	REGULAR (M2)	SUPER (M35)
13.00		2,940	3,980
13.10		3,040	*
13.20		3,040	3,980
13.25		3,040	*
	17/32	3,040	*
13.40		3,040	*
13.50		3,040	4,460
13.60		3,040	*
13.70		3,040	*
13.75		3,040	*
13.80		3,040	4,460
	35/64	3,290	*
14.00		3,290	4,460
14.10		3,290	*
14.20		3,290	*
14.25		3,290	4,780
	9/16	3,290	4,780
14.30		3,290	*
14.40		3,290	*
14.50		3,290	4,980
	37/64	3,290	*
14.75		3,290	4,980
14.80		3,290	*
15.00		3,770	4,980
	19/32	3,770	*
15.10		3,770	*
15.20		3,770	*
15.25		3,770	5,050
15.30		3,770	*
	39/64	3,770	*
15.50		3,770	5,050
15.60		3,770	*
15.75		3,770	5,050
15.80		3,770	*
	5/8	3,770	5,050
16.00		3,820	5,200
16.20		3,820	*
16.25		3,820	5,200

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HSS & HSS-E TAPER SHANK DRILLS

IS : 5103 - 1969, DIN 345

SIZE		PRICE (RS)/NO	
MM	INCH	REGULAR (M2)	SUPER (M35)
	41/64	3,820	*
16.30		3,820	*
16.50		3,820	5,200
	21/32	3,820	*
16.75		3,820	5,200
16.80		3,820	*
17.00		4,080	5,550
	43/64	4,080	*
17.20		4,080	*
17.25		4,080	5,600
	11/16	4,080	*
17.50		4,080	5,600
17.75		4,080	5,600
17.80		4,550	*
	45/64	4,550	*
18.00		4,550	6,150
18.25		4,550	6,150
	23/32	4,550	*
18.50		4,550	6,150
	47/64	4,580	*
18.75		4,580	6,150
19.00		4,580	6,200
	3/4	4,580	6,200
19.20		4,810	*
19.25		4,810	6,200
	49/64	4,810	*
19.50		4,810	6,500
19.75		4,810	6,500
	25/32	4,810	*
20.00		5,200	7,000
	51/64	5,250	7,050
20.25		5,250	*
20.50		5,250	7,050
	13/16	5,250	*
20.70		5,450	*
20.75		5,450	7,400
20.90		5,450	*
21.00		5,450	7,400

SIZE		PRICE (RS)/NO	
MM	INCH	REGULAR (M2)	SUPER (M35)
21.25		5,600	7,600
	27/32	5,600	*
21.50		5,750	7,800
21.75		5,750	7,800
	55/64	5,750	*
22.00		5,850	8,000
	7/8	5,850	8,000
22.25		6,400	8,650
22.50		6,400	8,650
	57/64	6,400	*
22.75		6,550	8,850
23.00		6,550	8,850
	29/32	6,550	*
23.25		6,850	9,300
23.50		7,800	10,500
23.75		7,800	10,500
	15/16	7,800	*
24.00		8,000	10,800
	61/64"	8,150	*
24.25		8,150	11,000
24.50		8,150	11,000
	31/32"	8,150	*
24.75		8,550	*
25.00		8,550	11,500
	63/64	8,550	*
25.25		8,650	*
25.40		8,650	*
	1"	8,650	*
25.50		9,400	12,700
25.75		9,400	12,700
25.80		9,450	*
26.00		9,450	12,800
26.25		10,100	13,800
26.40		10,400	*
26.50		10,400	14,100
26.75		10,700	*
	1.1/16"	10,700	*
27.00		10,700	14,600

SIZE		PRICE (RS)/NO	
MM	INCH	REGULAR (M2)	SUPER (M35)
27.25		10,800	14,600
27.50		10,800	14,600
27.75		10,800	*
	1.3/32"	11,900	*
28.00		11,900	16,100
28.20		11,900	*
28.25		11,900	16,100
28.50		11,900	16,100
	1.1/8	11,900	*
28.75		12,200	16,500
29.00		12,300	16,800
29.25		12,300	16,800
29.50		12,400	16,800
29.75		12,400	*
30.00		12,700	17,200
	1.3/16"	13,377	*
30.25		14,400	19,500
30.50		14,400	19,500
30.75		14,600	19,800
31.00		16,300	22,000
31.25		17,000	*
31.50		17,000	23,000
31.75		17,000	23,000
	1.1/4	17,000	*
31.90		18,600	*
32.00		18,600	25,200
	1-17/64"	18,600	*
32.25		18,600	*
32.50		18,600	25,200
32.75		19,200	*
33.00		19,200	25,900
33.25		19,200	*
	1.5/16"	19,200	*
33.50		19,700	26,800
33.75		20,200	*
34.00		20,200	27,200
34.50		22,000	*
	1.3/8	22,200	*

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HSS & HSS-E TAPER SHANK DRILLS

IS : 5103 - 1969, DIN 345

SIZE		PRICE (RS)/NO	
MM	INCH	REGULAR (M2)	SUPER (M35)
35.00		22,200	30,100
	1.25/64"	22,200	*
35.50		23,600	*
	1.13/32"	23,600	*
36.00		23,900	32,400
	1.27/64"	24,400	*
36.50		24,400	*
	1.7/16"	24,400	*
37.00		25,000	33,900
37.50		26,700	*
	1.31/64"	26,700	*
38.00		27,000	36,600
	1.1/2	27,000	*
	1.33/64	27,800	*
38.50		27,800	*
	1.17/32"	27,800	*
39.00		29,500	40,000
39.50		29,500	*
	1.9/16	29,500	*
40.00		30,300	41,000
	1.37/64"	30,300	*
	1.19/32"	32,000	*
40.50		32,000	*
41.00		32,000	*
	1.5/8	32,000	*
41.50		33,300	*
42.00		33,300	45,000
	1.43/64"	33,300	*
42.50		34,100	*
43.00		35,300	47,900
43.50		35,300	*
44.00		36,600	49,600
	1.47/64"	36,600	*
	1.3/4	36,600	*
44.50		36,600	*
45.00		37,500	50,700
	1.25/32"	37,500	*

SIZE		PRICE (RS)/NO	
MM	INCH	REGULAR (M2)	SUPER (M35)
45.50		39,200	*
	1.51/64"	39,200	*
46.00		39,200	*
46.50		41,200	*
47.00		41,200	*
47.50		42,000	*
	1.7/8	42,000	*
48.00		45,800	*
48.50		46,200	*
49.00		46,200	*
49.50		46,600	*
50.00		46,600	63,200
50.50		49,100	*
	2"	49,100	*
51.00		66,700	90,400
51.50		66,700	*
52.00		66,700	*
	2-1/32"	66,700	*
52.50		86,800	*
53.00		86,800	*
53.50		86,800	*
	2.1/8	86,800	*
54.00		86,800	117,584
54.50		91,200	*
	2-5/32"	91,200	*
55.00		91,200	*
55.50		91,200	*
	2.3/16"	91,200	*
56.00		95,000	*
56.50		95,000	*
57.00		95,000	*
	2.7/32"	95,000	*
	2.1/4"	95,000	*
57.50		103,600	*
58.00		103,600	*
58.50		103,600	*
	2.5/16"	103,600	*

SIZE		PRICE (RS)/NO	
MM	INCH	REGULAR (M2)	SUPER (M35)
59.00		105,700	*
59.50		105,700	*
60.00		105,700	*
	2.3/8"	105,700	*
60.50		112,300	*
61.00		112,300	*
61.50		112,300	*
62.00		112,300	*
62.50		112,300	*
	2.7/16"	112,300	*
63.00		114,200	*
63.50		114,200	*
	2.1/2	114,200	*
64.00		126,200	*
65.00		126,200	170,993
	2.9/16	126,200	*
66.00		127,100	*
	2.5/8	127,100	*
67.00		130,200	*
68.00		139,500	*
	2.11/16"	151,300	*
69.00		151,300	*
	2.3/4	151,300	*
70.00		151,300	*
71.00		163,200	*
	2.13/16"	163,200	*
71.50		163,200	*
72.00		166,400	*
73.00		166,400	*
	2.7/8	166,400	*
74.00		177,200	*
	2.15/16"	177,200	*
75.00		179,400	*
76.00		179,400	*
	3"	179,400	*

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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	5,600	24.50	327	*
5.16	155	*	14.00	223	5,850	25.00	327	17,284
5.56	161	*	14.29	245	*	25.40	327	*
6.00	161	*	14.50	245	*	25.50	335	*
6.35	167	*	15.00	245	7,300	26.00	335	18,000
6.50	167	*	15.50	251	*	26.50	335	*
6.80	174	2,670	15.87	251	*	27.00	343	*
7.00	174	*	16.00	251	7,811	27.50	343	*
7.50	174	*	16.50	257	7,950	28.00	343	*
7.80	181	2,920	17.00	257	8,600	28.50	351	*
7.94	181	*	18.50	269	*	29.00	351	*
8.00	181	2,918	19.00	269	*	29.50	351	*
8.50	181	*	19.05	275	*	30.00	351	*
9.00	188	*	19.50	275	9,400	30.50	360	*
9.50	188	*	20.00	275	9,550	31.00	360	*
9.52	197	*	20.50	282	*	31.50	360	*
9.80	197	3,750	21.00	282	9,850	32.00	397	*
10.00	197	3,750	21.43	289	*	32.50	397	*
10.50	197	3,860	21.50	289	*	33.00	397	*
11.00	206	3,940	21.75	289	*	34.00	406	*
11.11	206	*	22.00	289	11,700	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	16,000	38.10	426	*
13.00	215	5,100	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 235	OAL 250	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
6		2,580	*	*	*	*	*	*	*	*	*	*	*
6.5		2,580	*	*	*	*	*	*	*	*	*	*	*
7		*	*	4,161	*	*	*	*	*	*	*	*	*
	5/16"	3,943	*	*	*	*	*	*	*	*	*	*	*
8		3,940	*	*	4,000	*	*	*	*	*	*	*	*
8.5		3,943	*	4,640	*	*	*	*	*	*	*	*	*
9		3,370	*	4,648	*	6,800	*	*	*	*	*	*	*
9.3		*	*	4,790	*	*	*	*	*	*	*	*	*
9.5		*	*	4,790	*	*	*	*	*	*	*	*	*
10	-	*	*	*	6,604	*	*	*	*	*	*	*	*
10.5	-	3,860	*	5,100	*	*	*	*	*	*	*	*	*
11	-	*	*	5,150	*	*	*	*	*	*	*	*	*
11.5	7/16	*	*	*	*	*	*	*	*	*	*	*	*
11.8		*	*	*	7,300	*	*	*	*	*	*	*	*
12	-	*	*	*	*	*	8,450	*	*	*	*	*	*
12.5	1/2	*	*	5,716	*	*	*	*	*	*	*	*	*
13		*	*	6,800	8,800	10,000	*	*	*	*	*	*	*
13.5		*	4,310		8,800	*	*	11,900	*	*	*	*	*
14		*	*	7,200	9,650	*	*	*	*	*	15,104	*	*
14.5		*	*	7,250	9,804	*	*	12,135	*	*	*	*	*
15		*	*	*	10,048	*	*	12,383	*	*	15,617	20,500	*
15.5		*	*	*	*	*	*	12,572	*	*	15,827	*	*
15.8		*	*	*	10,063	*	*	*	*	*	*	*	*
16		*	*	*	*	*	*	*	*	*	16,155	*	*
16.5		*	*	*	10,063	*	*	12,977	*	*	*	*	*
17		*	*	*	10,650	*	11,600	13,100	*	*	*	*	*
17.5		*	*	*	*	*	*	13,500	*	*	16,873	21,700	*
18		*	*	*	11,073	*	*	*	*	*	17,186	*	*
18.25		*	*	*	11,249	*	*	*	*	*	*	*	*
18.5		*	*	*	11,249	*	*	13,772	*	*	*	*	*
19		*	*	*	*	*	*	14,005	*	*	*	*	*
19.5		*	*	*	*	*	*	*	*	*	*	*	*
20		*	*	*	11,200	*	*	*	*	*	*	23,000	28,140
20.5		*	*	*	*	*	*	14,664	*	*	*	*	*
21		*	*	*	*	*	*	*	*	*	18,887	*	*
21.5		*	*	*	11,913	*	*	*	*	*	19,245	*	*

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HSS TAPER SHANK TWIST DRILLS (EXTRA LONG SERIES)

IS : 7822 - 2005, BS 328

SIZES		PRICE (RS)/NO											
		OAL 200	OAL 235	OAL 250	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
22		*	*	*	12,200	*	*	*	*	*	19,600	*	*
22.5		*	*	*	*	*	*	15,787	*	*	*	*	*
23		*	*	*	*	*	*	*	*	*	*	*	*
23.5		*	*	*	*	*	*	*	*	*	*	*	*
24		*	*	*	*	*	*	17,685	*	*	21,545	*	*
24.5		*	*	*	*	*	*	*	*	*	*	*	*
25		*	*	*	*	*	*	*	*	*	*	28,504	*
25.5		*	*	*	*	*	*	*	*	*	*	*	*
26		*	*	*	*	*	*	*	*	*	24,400	*	*
26.5		*	*	*	*	*	*	*	*	*	*	*	*
27		*	*	*	*	*	*	*	*	*	*	*	*
27.5		*	*	*	*	*	*	*	*	*	*	*	*
28		*	*	*	*	*	*	*	*	*	27,260	*	40,100
28.5		*	*	*	*	*	*	*	*	*	*	*	*
31.5		*	*	*	*	*	*	*	28,700	*	*	*	*
32		*	*	*	*	*	*	*	*	*	*	*	46,827
33		*	*	*	*	*	*	*	*	*	33,747	*	*
34		*	*	*	*	*	*	*	*	*	*	*	*
35		*	*	*	*	*	*	*	*	*	*	*	*
36		*	*	*	*	*	*	*	*	*	*	*	*
37		*	*	*	*	*	*	*	*	*	*	*	*
38		*	*	*	*	*	*	*	*	*	*	*	*
39		*	*	*	*	*	*	*	*	*	*	*	*
40		*	*	*	*	*	*	*	*	*	*	*	*
41		*	*	*	*	*	*	*	*	*	*	*	*
42		*	*	*	*	*	*	*	*	*	*	*	*
43		*	*	*	*	*	*	*	*	*	59,861	*	*
44		*	*	*	*	*	*	*	*	*	*	*	*
45		*	*	*	*	*	*	*	*	*	*	*	*
46		*	*	*	*	*	*	*	*	*	*	*	*
47		*	*	*	*	*	*	*	*	*	*	*	*
48		*	*	*	*	*	*	*	*	*	*	*	*
49		*	*	*	*	*	*	*	*	*	*	*	*
50		*	*	*	*	*	*	*	*	*	*	*	93,669

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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	505	DR-ELS 4.50 X150X225 PL HSS M2	2,327
DR-HINOX STUB 4.0 MM M35 SUPER D-325	182	DR-ELS 6.00 X150X225 PL HSS M2	2,604
DR-HINOX STUB 1/8" M35 SUPER D-325)	119	DR-ELS 9.70 X250X300 PL HSS M2	6,230
DR-LONG 2.80X52X85 GOLD HSS M2	460	DR-ELS DIA 12.0X200X300 MM HSS M2	7,118
DR-LONG 4.20X52X85 GOLD HSS M2	427	DR-ELS 10.00X300X350 HSS M2	7,960
DR-LONG 5.10 GOLD HSS M2	694	DR-ELS 5.0X135X200 HSS M2	1,968
CENTRE DRILL A 2.0X5.0X100MM HSS M2	616	DR-ELS 5.5X135X200 HSS M2	2,081
CD TYPE-A 2.5X6.3X100 MM HSS M2	558	Extra length Drill, HSS Bright 4.80 x 160 mm OAL	1,399
CD TYPE-A 3.15 X 8 X 100 MM HSS M2	1,053	Extra length Drill, HSS Bright 1.80 x 125 mm OAL	492
CD TYPE-A 5.00X12.5X100 MM HSS M2	1,880	Extra length Drill, HSS Bright 5.80 x 160 mm OAL	1,636
Center Drill Form A 1.00 x 4.00 mm HSS Bright	336	DR-ELS 12.00X300X350 HSS M2	9,228
CD TYPE-B 4.00X14.00X100 MM HSS M2	3,367	DR-ELS 10.0X200X300 HSS M2	6,604
CD B55 3/16"X7/16"X85MM M2 (DRG-CT004	1,120	DR 9.0 X 120 X 150 M2 HIGH HELIX PA 130	1,005
CD TYPE-A 3.15X8.0MM HSS M35	887	DR-ELS, HSS STEAM TEMPERED 6.00 x 250 mm OAL	3,314
CD TYPE-R 3.15X8.0 MM HSS M35	827	DR-ELS, HSS STEAM TEMPERED 6.00 x 315 mm OAL	4,380
DR-ELS 8.0X170X250 HSS M2	4,508	DR-ELS, HSS STEAM TEMPERED 13.00 x 250 mm OAL	6,239
DR-ELS 8.0X200X300 HSS M2	5,401	DR-STUB 3.50 HSS STEAM BLUEING M2	94
DR-ELS 11.00 X 120 PL HSS M2	997	DR-STUB 4.20 HSS STEAM BLUEING M2	146
DR-ELS 14.00 X 125 PL HSS M2	2,013	DR-STUB 4.50 HSS STEAM BLUEING M2	191
DR-LS 9.90X100X150 PL HSS M2	1,239	DR-STUB 20.0X67X130 M2 GOLD 1MM FLAT ON	3,276
DR-ELS 8.0X125X160 M2 35°-HELIX-ANGLE	1,115	Stub Drill, Type N HSS ST 16.00 mm	2,085
DR-ELS 7.00X135X200 M2	2,581	Stub Drill, Type N HSS ST 18.00 mm	2,492
DR-ELS 3.00 X 150 X 225 PL HSS M2	2,002	Stub Drill, Type N HSS ST 9/16 Inch	2,002
DR-ELS 4.00 X150X225 PL HSS M2	2,322	Stub Drill, Type N HSS ST 5/8 Inch	2,240

CUSTOMISED TAPER SHANK DRILLS

PRODUCT DESCRIPTION	PRICE (RS)/NO	PRODUCT DESCRIPTION	PRICE (RS)/NO
MM		MM	
DR-LONG 14.60X125X180(OAL) HSS M2	2,418	HSS LS MTS DR 8.00X181 MM ST M35	3,943
DRILL TS 14.00 M2 FLANGE DRILL	3,381	DR-TS LS 11.50 X 135 X 225 PA120°	2,598
DRILL TS 18.00 M2 FLANGE DRILL	4,665	DR-TS ELS 8.50 X 165 X 265(OAL) HSS M2	4,819
DRILL TS 22.00 M2 FLANGE DRILL-DRG-406	6,033	DR-TS ELS 29.50 X 200 X 320 HSS M2	14,401
DRILL TS7/16 M2 FLANGE DRILL	6,033	DR-TS ELS 17.0X315 HSS M35	14,909
DRILL TS 15.50MM2(DRG D-380)FOR CYC IND	2,418	DR TS ELS 6.50 mm x 200 mm M2	2,576
DIN 341 HSS-E Long Length Taper Shank Drill 8.00 mm	3,943		

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**MASONARY DRILLS
(GROUND FLUTED & BRIGHT PLATED)**

SIZE		FLUTE LENGTH	OVER ALL LENGTH	PRICE (RS)/NO
MM	INCH			
3		40	76	77
	1/8	40	76	77
	5/32	45	85	88
4		45	85	88
	3/16	45	90	94
5		45	90	95
	7/32	45	90	118
	15/64	60	110	126
6		60	110	126
	1/4	60	110	126
6.5		60	110	126
7		60	110	236
	5/16	80	120	205
8		80	120	205
9		80	120	240
	3/8	80	120	240
10		80	120	240
	7/16	115	160	333
12		115	160	296
	1/2	115	160	296
13		115	160	296

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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 (M2 & M42) PARALLEL SHANK ENDMILLS, IS 6353 - 1991 & BS - 122 (PART -1) 1953 NON-CENTER CUT ENDMILLS

DIA		4FL CC	4FL CC	6FL CC	6FL CC
MM	INCH	M2	M42	M2	M42
3.00		968	1,550	-	-
	1/8	968	*	-	-
3.50		968	*	-	-
	5/32	968	*	-	-
4.00		968	1,550	-	-
4.50		968	1,550	-	-
	3/16	968	*	-	-
5.00		968	1,550	-	-
5.50		1,080	*	-	-
6.00		1,080	1,730	-	-
	1/4	1,080	1,730	-	-
6.50		1,230	*	-	-
7.00	-	1,230	1,960	-	-
7.50		1,230	*	-	-
	5/16	1,220	1,960	-	-
8.00		1,230	1,960	-	-
8.50		1,230	*	-	-
9.00		1,230	1,960	-	-
9.50		1,230	*	-	-
	3/8	1,220	1,960	-	-
10.00	-	1,230	1,960	-	-
10.50		1,230	*	-	-
11.00		1,230	1,960	-	-
	7/16	1,220	*	-	-
11.50		1,270	*	-	-
12.00		1,270	2,020	-	-
12.50		1,440	*	-	-
	1/2	1,260	2,020	-	-
13.00	-	1,440	2,300	-	-
13.50		1,580	*	-	-
14.00		1,580	2,510	-	-
	9/16	1,570	*	-	-
14.50		1,820	*	-	-
15.00	.	1,820	2,920	1,820	*
15.50		1,830	*	*	*
	5/8	1,830	2,940	*	*
16.00		1,830	2,940	1,830	2,940
16.50		2,000	*	*	*
17.00	-	2,000	3,210	2,000	*
18.00	-	2,230	3,560	2,230	3,560
18.50		2,230	*	*	*

DIA		4FL CC	4FL CC	6FL CC	6FL CC
MM	INCH	M2	M42	M2	M42
19.00		2,230	3,560	2,230	*
	3/4	2,230	3,560	2,230	*
19.50		2,460	*	*	*
20.00		2,460	3,940	2,460	3,940
	13/16	*	*	2,640	*
21.00	-	2,770	*	2,770	4,440
22.00		2,800	4,470	2,800	4,470
	7/8	2,800	*	2,800	4,470
23.00	-	3,030	*	3,030	*
24.00	-	3,030	*	3,030	4,850
25.00		3,250	5,200	3,250	5,200
	1"	3,250	*	3,250	5,200
26.00	-	3,380	*	3,380	5,400
27.00	.	*	*	3,990	*
	1.1/8	*	*	4,650	*
28.00		4,650	*	4,650	7,400
29.00	-	*	*	4,650	*
30.00	-	5,100	*	5,100	8,150
30.50		*	*	5,550	*
	1.1/4	*	*	5,550	*
31.00		*	*	5,550	*
32.00		5,550	*	5,550	8,900
33.00	-	-	-	6,200	*
	1.3/8	-	-	6,750	*
34.00		-	-	6,750	*
35.00	-	-	-	6,750	10,800
36.00	-	-	-	7,350	*
37.00	-	-	-	7,900	*
38.00	-	-	-	8,450	*
39.00	-	-	-	*	*
40.00	-	-	-	9,500	15,200
41.00	1.5/8	-	-	*	*
42.00	-	-	-	10,800	17,300
43.00	-	-	-	*	*
45.00	1.3/4	-	-	12,100	19,400
46.00	-	-	-	*	*
47.00	1.7/8	-	-	*	*
48.00	-	-	-	16,500	21,400
49.00	-	-	-	*	*
50.00	-	-	-	16,500	23,400

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HSS (M2 & M42) PARALLEL SHANK ENDMILLS, IS 6353 - 1991 & BS - 122 (PART -1) 1953 CENTER CUT ENDMILLS

DIA		4FL NCC	4FL NCC	6FL NCC	6FL NCC
MM	INCH	M2	M42	M2	M42
3.00		968	1,550	-	-
	1/8	968	*	-	-
3.50		*	*	-	-
	5/32	*	*	-	-
4.00		968	1,550	-	-
4.50		*	*	-	-
	3/16	*	*	-	-
5.00		968	1,550	-	-
5.50		*	*	-	-
6.00		1,080	1,730	-	-
	1/4	1,080	1,732	-	-
6.50		*	*	-	-
7.00	-	1,220	1,960	-	-
7.50		*	*	-	-
	5/16	*	*	-	-
8.00		1,220	1,960	-	-
8.50		*	*	-	-
9.00		1,220	1,960	-	-
9.50		*	*	-	-
	3/8	1,220	*	-	-
10.00	-	1,220	1,960	-	-
10.50		*	*	-	-
11.00		1,220	1,960	-	-
	7/16	*	*	-	-
11.50		*	*	-	-
12.00		1,260	2,020	-	-
12.50		*	*	-	-
	1/2	*	*	-	-
13.00	-	1,440	*	-	-
13.50		*	*	-	-
14.00		1,570	2,510	-	-
	9/16	*	*	-	-
14.50		*	*	-	-
15.00	.	1,820	2,920	-	-
15.50		*	*	-	-
	5/8	*	*	-	-
16.00		1,830	2,940	-	-
16.50		*	*	-	-
17.00	-	*	*	-	-
18.00	-	2,230	3,560	-	-
18.50		*	*	-	-

DIA		4FL NCC	4FL NCC	6FL NCC	6FL NCC
MM	INCH	M2	M42	M2	M42
19.00		2,230	*	-	-
	3/4	*	*	-	-
19.50		*	*	-	-
20.00		*	*	2,460	3,940
	13/16	-	-	*	*
21.00	-	-	-	*	*
22.00		-	-	2,800	*
	7/8	-	-	*	*
23.00	-	-	-	*	*
24.00	-	-	-	3,030	4,850
25.00		-	-	3,250	5,200
	1"	-	-	*	*
26.00	-	-	-	3,380	5,400
27.00	.	-	-	*	*
	1.1/8	-	-	*	*
28.00		-	-	4,650	*
29.00	-	-	-	*	*
30.00	-	-	-	5,100	*
30.50		-	-	*	*
	1.1/4	-	-	*	*
31.00		-	-	*	*
32.00		-	-	5,550	*
33.00	-	-	-	*	*
	1.3/8	-	-	*	*
34.00		-	-	*	*
35.00	-	-	-	*	*
36.00	-	-	-	7,350	*
37.00	-	-	-	*	*
38.00	-	-	-	*	*
39.00	-	-	-	*	*
40.00	-	-	-	9,500	*
41.00	1.5/8	-	-	*	*
42.00	-	-	-	10,400	*
43.00	-	-	-	*	*
45.00	1.3/4	-	-	12,100	*
46.00	-	-	-	*	*
47.00	1.7/8	-	-	*	*
48.00	-	-	-	14,100	*
49.00	-	-	-	*	*
50.00	-	-	-	15,500	*

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HSS (M2 & M42) PARALLEL SHANK SLOT DRILLS IS 6352 - 1991 & BS-122 (PART -1) 1953

DIA		M2	M42
MM	INCH		
3		1,180	1,890
	1/8	1,180	*
3.5		1,180	*
	5/32	*	1,890
4		1,180	1,890
4.5		1,180	*
	3/16	1,180	1,890
5		1,180	1,890
5.5		1,180	*
6		1,260	2,020
	1/4	1,260	2,020
6.5		1,260	*
7	-	1,260	2,020
7.5		1,260	*
	5/16	1,260	2,020
8		1,260	2,020
8.5		1,260	*
9		1,260	2,020
9.5		1,300	*
	3/8	1,260	2,020
10	-	1,300	2,090
10.5		1,300	*
11		1,300	2,090
	7/16		*
11.5		1,430	*
12		1,430	2,290
12.5		1,740	*
	1/2	1,430	2,290
13	-	1,830	*
13.5		*	*
14		1,830	2,940
	9/16	*	*
14.5		*	*
15	.	2,070	3,310
15.5			
	5/8	2,070	3,310
16		2,070	3,310
16.5		*	*
17	-	2,540	
18	-	2,540	4,060
18.5		*	*

DIA		M2	M42
MM	INCH		
19		2,540	*
	3/4	2,540	4,060
19.5		*	*
20		2,540	4,060
	13/16	*	*
20.5		2,920	
21	-	2,970	
22		2,970	4,740
	7/8	2,970	*
23	-	3,590	*
24	-	3,590	5,600
25		3,590	5,600
	1"	*	*
26	-	4,970	7,950
27	.	*	*
	1.1/8	*	*
28		6,100	9,750
29	-	*	*
30	-	6,100	*
30.5		*	*
	1.1/4	*	*
31		*	*
32		6,100	9,750
33	-	*	*
	1.3/8	*	*
34		*	*
35	-	*	*
36	-	7,900	12,600
37	-	*	*
38	-	*	*
39	-	*	*
40	-	9,100	14,500
41	1.5/8	*	*
42	-	*	*
43	-	*	*
45	1.3/4	*	*
46	-	*	*
47	1.7/8	*	*
48	-	*	*
49	-	*	*
50	-	*	*

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HSS (M2 & M42) 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	1,250	*	-	-	*	*	-	-
4.00	1,250	2,010	-	-	1,250	2,010	-	-
5.00	1,250	*	-	-	1,250	2,010	-	-
6.00	1,410	2,160	-	-	1,410	2,160	-	-
7.00	1,590	*	-	-	*	*	-	-
8.00	1,590	2,540	-	-	1,590	2,540	-	-
9.00	1,590	*	-	-	*	*	-	-
10.00	1,590	2,540	-	-	1,590	2,540	-	-
11.00	1,640	*	-	-	*	*	-	-
12.00	1,640	2,630	-	-	1,640	2,630	-	-
13.00	*	*	-	-	2,050	*	-	-
14.00	2,050	3,260	-	-	*	3,260	-	-
15.00	2,390	*	-	-	2,390	*	-	-
16.00	2,390	3,820	-	-	2,390	3,820	-	-
17.00	2,890	*	-	-	*	*	-	-
18.00	2,890	4,630	-	-	*	4,630	-	-
19.00	3,200	*	-	-	*	*	*	*
20.00	3,200	*	3,200	5,150	*	*	3,200	5,150
21.00	*	-	*	*	-	-	-	*
22.00	*	-	3,640	5,850	-	-	*	5,850
23.00	*	-	4,240	*	-	-	*	*
24.00	*	-	*	*	-	-	*	*
25.00	*	-	4,240	6,800	-	-	*	6,800
26.00	*	-	*	7,050	-	-	*	*
27.00	*	-	*	*	-	-	*	*
28.00	*	-	*	9,650	-	-	*	*
29.00	*	-	*	*	-	-	*	*
30.00	*	-	6,650	10,600	-	-	*	*
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	3,500	2,430
8.00	3,500	2,430
10.00	3,500	3,010
12.00	3,500	3,490
14.00	5,300	6,150
16.00	6,200	6,200
18.00	7,550	7,550
20.00	8,450	8,450
22.00	9,000	9,050
25.00	10,600	10,600
28.00	14,300	15,100
30.00	16,500	16,600

HSS PARALLEL SHANK BALL NOSE ENDMILL IS : 6353 - 1991

SIZE	PRICE (RS)/NO	
MM	STANDARD 4 FL M2	STANDARD 4 FL M42
4.00	1,260	*
5.00	1,260	*
6.00	1,360	*
8.00	1,540	*
10.00	1,540	*
12.00	1,580	*
13.00	*	3,044
14.00	1,970	3,158
16.00	2,290	3,710
18.00	2,770	*
20.00	3,120	*
22.00	*	*
25.00	4,070	*
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	1,944	Endmill 13X12X26X83X4F PLSHK CC M42 TIALN COA	3,478
Endmill 6X6X13X57X4F PLSHK CC M42 TIALN COATE	2,130	Endmill 14X12X26X83X4F PLSHK CC M42 TIALN COA	3,695
Endmill 6.5X10X16X66X4F PLSHK CC M42 TIALN CO	2,685	Endmill 15X12X26X83X4F PLSHK CC M42 TIALN COA	4,100
Endmill 8X10X19X69X4F PLSHK CC M42 TIALN COAT	2,685	Endmill 16X16X32X92X4F PLSHK CC M42 TIALN COA	4,114
Endmill 10X10X22X72X4F PLSHK CC M42 TIALN COA	2,911	Endmill 18X16X32X92X4F PLSHK CC M42 TIALN COA	5,457
Endmill 11X12X22X79X4F PLSHK CC M42 TIALN COA	3,137	Endmill 20X20X38X104X4F PLSHK CC M42 TIALN CO	5,838
Endmill 12X12X26X83X4F PLSHK CC M42 TIALN COA	3,199	Endmill 25X25X45X121X6F PLSHK CC M42 TIALN CO	8,985

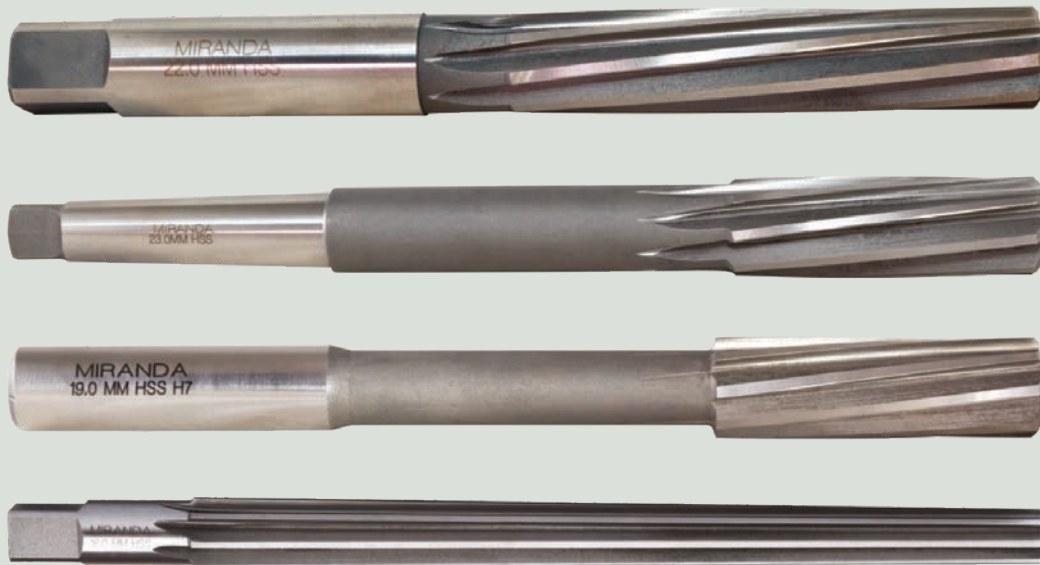
CUSTOMISED ENDMILLS & SLOTDRILLS

PRODUCT DESCRIPTION	PRICE (RS)/NO	PRODUCT DESCRIPTION	PRICE (RS)/NO
Endmill- 1/8"X4X10 X48 X4F PLSHK NCC M2	968	Slot Drill - 20X20X80X220X2F LS NCC M2	3,706
Endmill- 10.4X12X22X79X4F NCC M2	1,225	Slot Drill- 10X10X28X73X2F HSS	4,417
Endmill 3.5(+0.1/-0) MMX4F STDPLSHK NCC M35	1,317	Slot Drill- 16X16X63X180X2F M2	4,803
ENDMILL 12.10 MM X4F LONG PLSHK NCC M2	1,423	T/S ENDMILL 22XMT2X38X123X6F HSS NCC	4,829
Slot Drill - 5X6X13X57X2F BALL NOSE TIN COATED M2	1,674	Endmill 16X16X65X105X5F S/S CC M42 TIN	4,967
Endmill 12X12X50X100X4F BALL NOSE PLSHK M2	2,141	Endmill 20 MM X6F BALL NOSE STDPLSHK CC M42	4,979
Endmill- 3/8" M2/NCC/4F/LONG	2,147	Endmill- 32X25X53X133X6F NCC M2	5,576
Endmill- 8X10X19X69X4F WF NCC M42	2,156	Endmill 20X20X75X125X5F S/S CC M42 TIN	6,809
Endmill- 10X10X22X72X4F WF NCC M42	2,156	Slot Drill- 16X16X63X220X2F PLSHK CC M2	6,887
Endmill-16X16X70X160X4F LS NCC M2	2,624	ROUGHING ENDMILL 16 MM X4F LONGPLSHK M42	8,430
Endmill- 16XMT2X32X124X4F TANG END NCC M2	2,740	Endmill 1"X1"X4"X6.1/2X3F WFSHK BALL NOSE M2	9,136
Endmill- 7/8X3/4X1.5/8X3.5/8X4F P/SNCC M2, 4 Flute	2,794	Endmill 25X25X75X130X5F S/S CC M42 TIN	9,538
Endmill-16X16X80X200X4F LS NCC M2	2,840	ROUGHING ENDMILL CC Coarse 20X20X75X135X4F M42	9,553
Endmill 20 MM X6F BALL NOSE STDPLSHK CC M2	3,082	Endmill 1"X1"X4"X6.1/2X3F WFSHK B/N M42	14,613
Endmill- 20X16X38X104X6F WF M42	3,158	Endmill 50 MM X4F BALL NOSE STDPLSHK CC M2	18,318
Endmill- 18XMT2X32X124X4F TANG END NCC M2	3,336	ROUGHING ENDMILL 25X25X75X130X5F S/S CC M42 COARSE TIN	18,606
Endmill-20X20X70X210X4F LS NCC M2	3,526	SHELL ENDMILL 80X27X45 HSS M2	20,548
Endmill- 20XMT2X38X130X4F TANG END NCC M2	3,696		

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		1,710	2,140	*
	1/8	1,710	*	*
3.50		*	2,140	*
3.80		*	2,140	*
4.00	-	1,710	2,140	1,710
4.20		1,710	*	*
4.70		*	2,140	*
	3/16	1,710	*	1,710
4.50	-	1,710	*	1,710
4.80		1,710	*	*
4.90		*	2,470	*
5.00	-	1,710	2,140	1,710
5.50		1,710	2,140	1,710
	7/32	1,710	*	1,710
5.70		*	2,140	*
5.80		*	2,140	*
5.90		*	2,480	*
6.00	-	1,990	2,480	1,990
6.10		1,990	2,480	*
6.30		1,990	*	*
	1/4	1,990	*	1,990
6.50		1,990	*	1,990
7.00	-	1,990	*	1,990
	9/32	2,260	*	*
7.50		2,260	*	2,260
	5/16	2,260	*	2,260
7.80		*	2,832	*
8.00	-	2,260	2,832	2,260
8.10		*	*	2,280
8.50		2,380	2,970	2,380
	11/32	2,380	*	2,380
9.00	-	2,380	2,970	2,380
9.50		2,580	*	2,580
	3/8	2,580	*	2,580
9.80		*	3,230	*
9.90		*	3,230	*
10.00	-	2,860	3,583	2,860

SIZE		PRICE (RS)/NO		
DIAMETER		HSS HAND REAMER	HSS M42 HAND REAMER	TAPER SHK M/C REAMER
MM	INCH			
10.10		*	*	2,861
	13/32	2,860	*	2,860
10.40		3,080	*	*
10.50		3,210	*	3,210
10.58		3,365	*	*
10.60		*	*	3,240
11.00	-	3,210	4,020	3,210
	7/16	3,210	*	3,210
11.50		3,340	*	3,340
	15/32	3,340	*	3,340
12.00	-	3,340	*	3,340
12.06		*	*	3,340
12.08		*	*	3,340
12.50		3,460	*	3,460
	1/2	3,460	*	3,460
13.00	-	4,210	*	4,210
	17/32	*	*	*
13.50		4,210	*	4,210
14.00	-	4,210	*	4,210
	9/16	4,210	*	4,210
14.50		4,230	*	4,230
15.00	-	4,230	*	4,230
	19/32	4,230	*	*
15.50		4,230	*	4,230
	5/8	4,230	*	4,230
16.00	-	4,230	*	4,230
16.10		4,890	*	*
16.40		*	*	5,030
16.50		4,890	*	4,890
16.80		*	*	4,710
16.85		*	*	4,710
16.90		*	*	4,710
17.00	-	4,890	*	4,890
	11/16	4,890	*	4,890
17.50		5,250	*	5,250
18.00	-	5,250	*	5,250
	23/32	5,550	*	*

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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			
18.30		*	*	5,711
18.50		5,550	*	5,550
19.00	-	5,550	*	5,550
	3/4	5,550	*	5,550
19.50		6,200	*	6,200
19.85		*	*	6,383
20.00	-	6,200	*	6,200
	13/16	6,300	*	*
20.50		6,331	*	*
20.70		*	*	6,750
21.00	-	7,000	*	7,000
21.50		*	*	6,750
22.00	-	7,000	*	7,000
22.02		*	*	6,750
22.10		*	*	6,750
	7/8	7,000	*	7,000
22.50		*	*	7,900
22.60		*	*	7,900
23.00	-	8,200	*	8,200
23.50		*	*	8,750
	15/16	9,050	*	*
24.00	-	9,050	*	9,050
24.10		*	*	8,750
24.50		9,050	*	8,750
24.70		*	*	8,750
25.00	-	9,150	*	9,150
	1	9,300	*	8,900
25.50		11,245	*	*
26.00	-	11,200	*	11,200
26.70		*	*	12,400
	1.1/16	12,400	*	*
27.00	-	12,900	*	12,900
28.00	-	12,900	*	12,900
	1.1/8	12,900	*	*
29.00	-	13,200	*	13,600
30.00	-	14,700	*	14,700
	1.3/16	14,700	*	*
30.70		*	*	15,700
31.00	-	16,300	*	15,700

SIZE		PRICE (RS)/NO		
DIAMETER		HSS HAND REAMER	HSS M42 HAND REAMER	TAPER SHK M/C REAMER
MM	INCH			
	1.1/4	16,300	*	15,700
31.50		*	*	16,262
32.00	-	16,300	*	16,300
33.00	-	18,500	*	17,800
	1.5/16	18,500	*	*
34.00	-	20,700	*	*
	1.3/8	21,800	*	*
34.70		*	*	22,700
35.00	-	21,800	*	22,700
35.70		*	*	22,700
36.00	-	21,800	*	22,700
	1.7/16	22,000	*	*
37.00	-	24,000	*	24,922
37.80		*	*	24,000
38.00	-	24,000	*	24,900
	1.1/2	24,000	*	24,000
39.00	-	26,500	*	*
39.50		*	*	28,900
	1.9/16	28,900	*	*
40.00	-	28,900	*	30,100
40.15		*	*	32,300
40.20		*	*	46,300
41.00	-	29,200	*	*
	1.5/8	29,200	*	*
42.00	-	34,500	*	*
	1.11/16	34,500	*	*
43.00	-	34,500	*	*
44.00	-	34,500	*	*
	1.3/4	34,500	*	*
45.00	-	40,300	*	46,300
46.00	-	40,300	*	*
47.00	-	43,500	*	*
	1.7/8	46,800	*	*
48.00	-	46,800	*	*
49.00	-	46,800	*	*
	1.15/16	46,800	*	*
50.00	-	46,800	*	48,600
	2	46,800	*	*

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

DIAMETER (MM)	PRICE (RS)/NO
5	1,710
6	1,990
8	2,260
10	2,860
12	3,210
14	*
16	4,230
20	6,200
24	8,750
25	9,150
26	*
28	12,400

DIAMETER (MM)	PRICE (RS)/NO
30	*
32	15,700
34	20,000
36	21,800
38	24,000
40	28,900
42	34,500
44	34,500
46	40,300
48	46,800
50	46,800

CUSTOMISED REAMERS

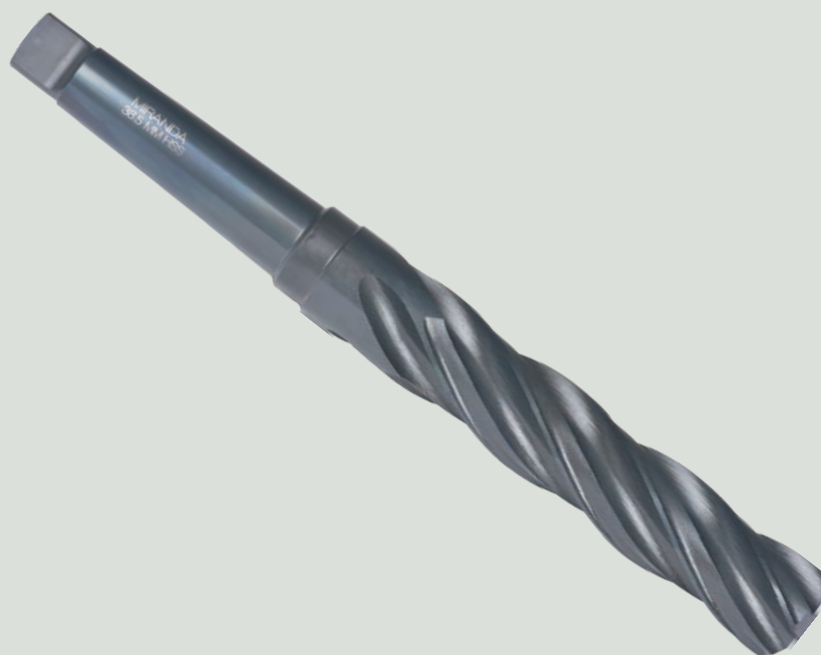
PRODUCT DESCRIPTION	PRICE (RS)/NO
Taper Shank HSS Chucking Reamer 5.00 mm	1,705
Parallel Shank HSS Chucking Reamer 4.00 mm	1,706
Parallel Shank HSS Chucking Reamer 6.00 mm	1,987
Taper Shank HSS Chucking Reamer 8.00 mm	2,260
Parallel Shank Hand Reamer 6.35X6.35X50X100X6F(H7) M35	2,580
Parallel shank Hand Reamer 13/32" x 8 Flute	2,750
Taper Shank HSS Chucking Reamer 10.00 mm	2,861
Parallel Shank HSS Chucking Reamer 10.00 mm	2,861
Taper Shank HSS Chucking Reamer 12.00 mm	3,340
HSS Machine Reamer 11.9x11.94 mm DWG R 047	3,340
HSS Machine Reamer 11.7x11.8 mm DWG R 048	3,340
Parallel Shank HSS-E (M35) Chucking Reamer 6.30 mm	3,678
TAPER SHK M/C REAMER 10.0 MM HSS M42	3,570
BS (DIN 9) Taper Pin Hand Reamer- 5/16" HSS M2 FORM A	4,010
Parallel Shank HSS Chucking Reamer 14.00 mm	4,213
Parallel Shank HSS Chucking Reamer 14.00 mm	4,213
Parallel Shank HSS-E (M35) Chucking Reamer 8.20 mm	4,695
Taper Shank HSS Bridge Reamer 13.50 mm	5,053
Taper Shank HSS Bridge Reamer 13.5XMT2X115X209X5F ST. FLUTE M2	5,053

PRODUCT DESCRIPTION	PRICE (RS)/NO
TAPER SHK M/C REAMER 14.0 MM HSS M42	5,450
TAPER SHK M/C REAMER 16.0 MM HSS M42	5,500
Taper Shank HSS-E Chucking Reamer TiAIN 11.00 mm	5,652
Parallel Shank HSS-E (M35) Chucking Reamer 10.20 mm	6,251
BS (DIN 9) Taper Pin Hand Reamer- 1/2" HSS M2 FORM A	6,050
IS 5881 HSS Taper Pin Hand Reamers Form B 8 flutes	6,700
IS 5445 HSS TS Long Fluted Machine Reamers, (non-standard lengths) 10.05 mm	6,500
IS 5881 (DIN 9) Taper Pin Hand Reamer- HSS M2 FORM A - 14 mm	7,250
Taper Shank HSS Bridge Reamer 17.50 mm	8,600
Taper Shank Machine reamer 1" x 10 Flutes	9,300
Taper Shank HSS Bridge Reamer 22.00 mm	9,504
Taper Shank HSS Bridge Reamer 21.50 mm	10,644
Taper Shank HSS Bridge Reamer 23.50 mm	11,912
Taper Shank HSS Bridge Reamer 25.50 mm	12,606
Taper Shank Machine Reamer - 28.2 MM HSS M2 CORE DIA VARIATION	12,878
Taper Shank Machine Reamer - 25.2XMT3X175X302X10F HSS M2	13,659
IS 5881 (DIN 9) Taper Pin Hand Reamer- HSS M2 FORM A - 30 mm	17,900

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		3,700	5,059
15.00		*	*
15.08	19/32	*	*
15.87	5/8	*	*
16.00		*	*
16.50		4,010	5,450
16.65		3,990	*
16.67	21/32	*	*
17.00		4,010	*
17.46	11/16	*	*
18.00		*	*
18.26	23/32	*	*
18.50		5,300	7,239
18.65		5,300	*
19.00		5,300	*
19.05	3/4	*	*
19.20		5,700	*
19.25		5,700	*
19.84	25/32	*	*
20.00		5,724	*
20.50		5,700	*
20.64	13/64	*	*
20.65		5,700	*
21.00		*	*
21.43	27/32	*	*
22.00		5,900	*
22.22	7/8	*	*
22.50		6,800	9,229
22.65		6,750	*
23.00		6,400	*
23.02	29/32	*	*
23.81	15/16	*	*
24.00		*	*
	31/32	7,700	
25.00		*	*
25.40	1	9,000	*
26.00		*	*
26.19	1.1/32	*	*
26.99	1.1/16	*	*
27.00		10,700	*
27.78	1.3/32	*	*
28.00		11,800	*
28.50		11,800	*

DIA		PRICE (RS)/NO	
MM	INCH	M2	M35
28.57	1.1/8	*	*
28.60		12,318	*
28.65		12,300	*
29.00	1.5/32	12,300	*
29.37		*	*
30.00	1.3/16	13,300	*
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		21,100	*
35.72	1.13/32	*	*
36.00		22,200	*
36.50		23,400	*
36.51	1.7/16	*	*
36.65		23,400	*
37.00		*	*
37.31	1.15/32	*	*
38.00		25,800	*
38.10	1.1/2	*	*
38.50		28,300	*
39.00		28,300	*
39.69	1.9/16	*	*
40.00		*	*
41.00		*	*
41.27	1.5/8	*	*
42.00		32,100	*
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		37,622	*
46.00		37,600	*
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
TSCD 18.53XMT2X135X233X4F HSS M2	5,371
TSCD 19.45XMT2X250X348X4F HSS M2	11,224
TSCD 20.53XMT2X145X243X4F HSS M2	6,072
TSCD 22.53XMT2X150X248X4F HSS M2	6,810
TSCD 31/32"XMT3X160X281X4F HSS M35	12,480
TSCD 28.53XMT3X170X291X4F HSS M2	10,677
TSCD 25.67XMT3X250X371X4F HSS M2	17,936
TSCD 25.70XMT3X250X371X4F HSS M2	17,936

PRODUCT DESCRIPTION	PRICE (RS)/NO
TSCD 32.06XMT4X250X399X4F HSS M2	29,905
TSCD 36XMT4X195X344X4F HSS M2 WITHOUT BT	22,238
TSCD 36.53XMT4X195X344X4F HSS M2	18,305
TSCD 38XMT4X200X349X4F HSS M2 WITHOUT BT	25,807
TSCD 38.46XMT4X250X399X4F HSS M2	46,210
TSCD 38.5XMT4X200X349X4F M2 WITHOUT BT	28,301
TSCD 51.90XMT5X225X412X4F HSS M2	58,023
TSCD 64.50XMT5X245X432X4F HSS M2	105,555

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HSS & TCT- ANNULAR CUTTERS

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.



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

FEATURES & BENEFITS

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

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HSS ANNULAR CUTTER

SIZE	HSS M2		HSS M42
DIA. MM	LENGTH 35 MM	LENGTH 50 MM	LENGTH 50MM
12	2,540	3,280	*
13	*	3,280	*
14	2,540	3,280	4,683
15	*	3,280	*
16	2,590	3,370	4,819
17	*	3,370	*
17.50	*	*	*
18	2,700	3,370	4,819
18.50	*	*	*
19	2,700	3,370	*
20	2,840	3,510	*
21	2,840	3,510	*
21.50	*	*	*
22	3,370	4,000	*
22.50	*	*	*
23	3,370	4,000	*
23.50	*	*	*
24	3,500	4,230	*
25	*	4,230	*
25.50	*	*	*
26	3,710	4,470	6,396
26.50	*	*	*
27	*	4,470	*
28	4,000	4,870	*
29	*	4,870	*
30	4,190	5,100	*
31	*	5,100	*
31.50	*	*	*
32	4,390	5,450	*
33	*	5,450	*
34	*	5,850	*
34.5	*	*	*
35	*	5,850	*
36	*	6,650	*
37	*	6,650	*
38	*	7,000	*
39	*	*	*
40	*	7,700	*

SIZE	HSS M2		HSS M42
DIA. MM	LENGTH 35 MM	LENGTH 50 MM	LENGTH 50MM
41	*	7,700	*
42	*	8,250	*
43	*	*	*
44	*	9,100	*
45	*	9,100	13,034
46	*	9,800	*
47	*	*	*
48	*	*	*
49	*	*	*
50	*	11,700	*
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	*	*	*

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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				
12.00	3,960	5,000	*	*	41.00	5,750	7,900	*	*
13.00	*	5,000	*	*	42.00	7,200	9,650	14,100	17,300
14.00	3,960	5,000	*	10,800	43.00	7,200	9,650	*	*
15.00	3,960	5,000	*	*	44.00	7,200	9,650	*	*
16.00	3,960	5,000	9,000	10,800	45.00	7,200	9,650	*	17,300
17.00	3,960	5,000	*	*	46.00	7,950	10,400	*	*
17.50	*	5,000	9,000	*	47.00	*	10,400	*	*
18.00	3,960	5,000	9,000	10,800	48.00	7,950	10,400	*	19,400
18.50		*			49.00	*	10,400	*	*
19.00	3,960	5,000	*	*	50.00	7,950	10,900	16,700	19,400
20.00	3,960	5,000	9,000	10,800	51.00	*	10,900	*	*
21.00	4,200	5,150	*	*	52.00	*	11,700	16,700	24,600
21.50	*	5,150	9,000	12,200	53.00	*	12,200	*	*
22.00	4,200	5,150	9,000	12,200	54.00	*	12,400	16,700	*
22.50	*	5,150	*	*	55.00	*	12,700	16,700	24,600
23.00	4,200	5,150	*	*	56.00	*	13,300	18,700	27,000
23.50	*	5,150	9,000	12,200	57.00	*	13,700	*	*
24.00	4,200	5,150	10,500	12,200	58.00	*	14,100	18,700	27,000
25.00	4,200	5,150	*	*	59.00	*	14,100	*	*
25.50	*	5,850	10,500	*	60.00	*	14,500	18,700	27,000
26.00	4,310	5,850	10,500	14,200	61.00	*	14,500	*	*
26.50	*	5,850	*	*	62.00	*	16,100	20,600	29,200
27.00	4,310	5,850	*	*	63.00	*	16,100	*	*
28.00	4,310	5,850	10,500	14,200	64.00	*	16,100	20,600	*
29.00	4,310	5,850	*	*	65.00	*	16,300	*	29,200
30.00	4,310	5,850	10,500	14,200	66.00	*	16,800	*	*
31.00	4,310	5,850	*	*	67.00	*	17,300	22,700	30,800
31.50	*	5,850	*	*	68.00	*	17,600	*	*
32.00	5,100	6,950	12,500	17,300	70.00	*	17,600	22,700	30,800
33.00	5,100	6,950	12,500	*	72.00	*	17,700	25,200	*
34.00	5,100	6,950	12,500	*	75.00	*	17,700	25,200	33,200
34.50	*	6,950	*	*	80.00	*	21,000	33,500	33,200
35.00	5,100	6,950	*	*	84.00	*	24,100	*	*
36.00	5,750	6,950	14,100	17,300	85.00	*	24,100	33,500	36,600
37.00	5,750	7,900	*	*	90.00	*	27,800	*	*
38.00	5,750	7,900	*	*	100.00	*	33,900	42,500	44,300
39.00	5,750	7,900	14,100	*	102.00	*	*	*	56,100
40.00	5,750	7,900	14,100	17,300					

EJECTOR PIN

SIZE	PRICE (RS)/NO
6.34 X 73 MM	393.00
6.34 X 98 MM	529.00
7.98 X 105 MM	644.00

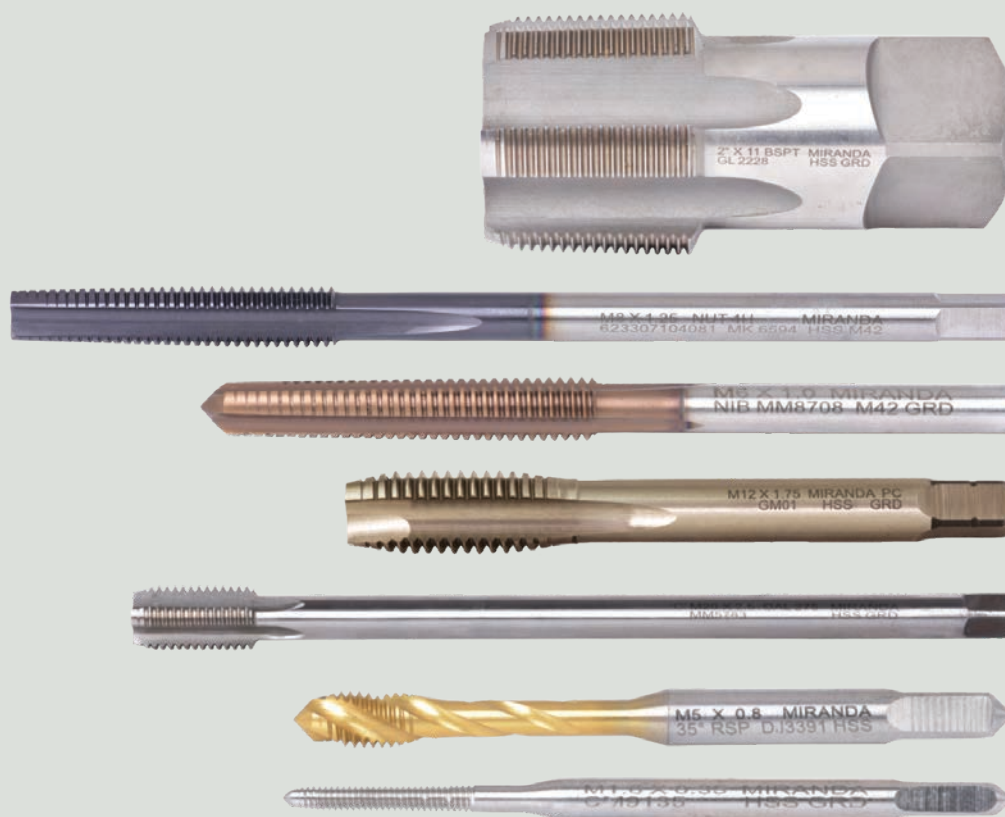
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HSS TAPS

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 STARIGHT FLUTE TAPS (METRIC COARSE)

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
M2.0 x 0.40	853	853	853	2,550					
M2.2 x 0.45	853	853	853	2,550					
M2.3 x 0.40									
M2.5 x 0.45	853	853	853	2,550					
M2.6 x 0.45	853	853	853	2,550					
M3.0 x 0.50	514	514	514	1,550	1,550	1,590	504	720	1,860
M3.5 x 0.60	514	514	514	1,550			580		
M4.0 x 0.70	514	514	514	1,550	1,550	1,610	656	618	1,860
M4.5 x 0.75	549	549	549	1,640					
M5.0 x 0.80	549	549	549	1,640	1,640	1,730	656	656	1,970
M6.0 x 1.00	549	549	549	1,640	1,830	1,730	586	656	1,970
M7.0 x 1.00	661	661	661	1,980					
M8.0 x 1.25	661	661	661	1,980	1,980	2,080	590	812	2,430
M9.0 x 1.25	795	795	795	2,390					
M10 x 1.50	795	795	795	2,390	2,530	2,500	1,110	1,100	3,080
M11 x 1.50	1,460	1,460	1,460		4,400				
M12 x 1.75	1,250	1,250	1,250		3,740	3,930			4,660
M14 x 2.00	1,820	1,820	1,820		5,450	5,700			6,550
M16 x 2.00	1,820	1,820	1,820		5,450	5,700			6,550
M17 x 2.50	2,754								
M18 x 2.50	2,760	2,760	2,760		8,250	8,700			11,600
M19 x 2.50	3,519	3,519							
M20 x 2.50	3,520	3,520	3,520		10,500	11,100			12,200
M21 x 2.50	3,763								
M22 x 2.50	3,760	3,760	3,760		11,300	11,900			15,800
M23 x 3.00	3,964	3,964							
M24 x 3.00	4,200	4,200	4,200		12,600	13,300			16,600
M25 x 3.00					15,376				
M26 x 3.00	6,362				19,085				
M27 x 3.00	6,350	6,350	6,350		19,100				26,700
M28.5 x 3.00	6,469	6,469							
M30 x 3.50	7,100	7,100	7,100		21,300	22,400			29,900

HSS Ground Thread Hand Taps- Coarse Pitch

IS 6175- Part 1, 2 & 3- 1992

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HSS STARIGHT FLUTE TAPS (METRIC COARSE)

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
M33 x 3.50	8,700	8,700	8,700		26,000				
M34 x 3.50					29,521				
M36 x 4.00	12,100	12,100	12,100		36,300				
M39 x 4.00			14,200		42,500				
M42 x 4.50	16,500	16,500	16,500		49,600	52,000			
M45 x 4.50			22,300		66,800				
M48 x 5.00	23,700	23,700	23,700		71,200	74,700			
M52 x 5.00					89,400				
M56 x 5.50	42,400	42,400	42,400		127,200				
M60 x 5.50	44,700		44,700		134,100				
M64 x 6.00	*	*	*		141,000				
M68 x 6.00	*	*	*		175,900				
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 (RETAPPING & 6G) METRIC COARSE

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			514				566	529
M3.5 x 0.60								
M4.0 x 0.70	513	514			514		573	529
M4.5 x 0.75								
M5.0 x 0.80	549	549			549		610	564
M6.0 x 1.00	549		549	549			610	564
M7.0 x 1.00								
M8.0 x 1.25	661	661		661		661	661	661
M9.0 x 1.25								
M10 x 1.50	795	795			795	795	795	796

HSS Ground Thread Hand Taps- Coarse Pitch

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HSS TAPS SPPT, SPIRAL FLUTE (METRIC COARSE), IS 6175

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	646	749	643	720	643	889	703	812		
M3.5 x 0.60	646									
M4.0 x 0.70	646	749	643	749	646	756	703	805	771	
M4.5 x 0.75										
M5.0 x 0.80	679	790	679	790	679	788	736	844		
M6.0 x 1.00	679	790	679	790	679	790	749	859		908
M7.0 x 1.00										
M8.0 x 1.25-P2	788	932	788	939	788	983	831	979	831	
M9.0 x 1.25										
M10 x 1.50-P2	983	1,220	984	1,110	984	1,380	1,040	1,510		1,526
M8.0 x 1.25-P3	896						1,030			
M10 x 1.50-P3	1,040						1,170	1,510		
M11 x 1.50										
M12 x 1.75	1,510	1,810					1,660	1,960		
M14 x 2.00	2,200	2,510					2,520			
M16 x 2.00	2,200	2,580					2,520	2,930		
M17 x 2.50										
M18 x 2.50	3,310						3,670			
M19 x 2.50										
M20 x 2.50	2,680	4,800					4,900	6,850		
M21 x 2.50										
M22 x 2.50	4,520						5,100	1,820		
M23 x 3.00										
M24 x 3.00	5,050	7,050					5,500	7,750		
M25 x 3.00										
M26 x 3.00										
M27 x 3.00	7,650	8,900					8,200	8,950		
M28.5 x 3.00										
M30 x 3.50	8,550	9,200					9,150			
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							29,700			

HSS Ground Thread Hand Taps- Coarse Pitch

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M35 AND M42 HSS TAPS (METRIC COARSE)

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	691	691	691	2,080	2,390	795	2,390	867			
M4.0 x 0.70	692	688	688	2,080	2,400	796	2,390		971		
M5.0 x 0.80	739	739	739	2,220	2,540	849	2,540	916	1,025		
M6.0 x 1.00	739	739	739	2,220	2,540	849	2,540		1,025	1,012	1,119
M8.0 x 1.25	887	887	887	2,670	3,120	1,020	3,240	1,058	1,209		1,275
M10 x 1.50	1,080	1,080	1,080	3,220	2,980	1,230	3,700		1,560	1,410	1,641
M12 x 1.75	*	1,685	*	5,050						2,239	
M14 x 2.00	*	*	*	7,350							3,787
M16 x 2.00	*	*	*	7,350			8,464			3,404	3,787
M18 x 2.50	*	*	*	11,000							
M20 x 2.50	*	*	*	14,200			16,351				7,148
M22 x 2.50	*	5,086	*	15,300							
M24 x 3.00	*	*	*	17,000			19,510				
M27 x 3.00	*	*	*	25,800							
M30 x 3.50	*	*	9,607	28,800							

HSS LONG SHANK MACHINE TAPS

SIZE	STRAIGHT FLUTE			TYPE B	SPIRAL FLUTE	M35 BOTTOMING 6G
	TAPER	BOTTOM	BOTTOM TIN			
	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO			
M3.0 x 0.50	1,130	1,130		1,340		
M3.5 x 0.60						
M4.0 x 0.70	1,130	1,130		1,340		
M4.5 x 0.75						
M5.0 x 0.80	812	812	826	989		1,090
M6.0 x 1.00	867	867	917	1,060	1,090	1,170
M7.0 x 1.00		867				
M8.0 x 1.25	943	943	1,090	1,160	1,190	1,270
M9.0 x 1.25						
M10 x 1.50	1,210	1,210	1,440	1,440	1,470	1,630
M12 x 1.75	1,720	1,720	1,950	2,040	2,450	2,320
M14 x 2.00	2,490	2,490	2,870	2,950	3,240	
M16 x 2.00	2,490	2,490	2,870	2,950	3,240	
M18 x 2.50		3,660		4,310		
M20 x 2.50	4,510	4,510	5,200	5,300	5,500	
M22 x 2.50		5,050			5,500	
M24 x 3.00		5,450				
M25 x 3.00						
M27 x 3.00		7,850				
M30 x 3.50		9,050				
M33 x 3.50		10,600				

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LEFT HAND TAPS (METRIC COARSE)

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		1,930		
M3.5 x 0.60				3,008
M4.0 x 0.70		1,930		3,008
M4.5 x 0.75				
M5.0 x 0.80		2,060	3,508	3,753
M6.0 x 1.00	687	2,060		3,753
M8.0 x 1.25		2,470	4,218	
M10 x 1.50		2,990		
M12 x 1.75	1,563	4,690		
M14 x 2.00		2,280		
M16 x 2.00		6,850		
M18 x 2.50		10,300		
M20 x 2.50		13,100		
M22 x 2.50		14,100		
M24 x 3.00	5,233	15,700		
M25 x 3.00				
M27 x 3.00	7,967	23,900		
M30 x 3.50		26,700		

HSS STRAIGHT FLUTE TAPS (METRIC FINE)

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	*	*	739	*	*	*	*	
M3.5 x 0.35	*	*	*	*	*	*	*	
M4.0 x 0.50	766	766	766	1,540	2,300			
M4.5 x 0.50	*	*	713	*	*	*	*	
M5.0 x 0.50	766	766	766	1,540	2,300	2,020		
M5.5 x 0.50	*	*	*	*	2,300	*		
M6.0 x 0.50	*	*	*	1,640	*	*		
M6.0 x 0.75	766	766	766	1,540	2,300	2,020		
M7.0 x 0.75	864	864	864	1,730	2,590	*		
M8.0 x 0.75	864	864	864	1,730	2,590	2,330		
M8.0 x 1.00	864	864	864	1,730	2,590	2,110		
M9.0 x 1.00	968	968	968	1,940	2,900	*		
M10 x 0.50	*	*	*	2,200	*	*		
M10 x 0.75	879	879	879	1,760	2,640	*		
M10 x 1.00	879	879	879	1,760	2,640	2,370		1,201
M10 x 1.25	879	879	879	1,760	2,640	2,370		
M11 x 0.75	*	*	*		4,400	*		1,201
M11 x 1.00	*	*	*	2,940		*		
M12 x 0.75	*	*	*	2,940		*		
M12 x 1.00	1,460	1,460	1,460	2,940	4,400	3,960		
M12 x 1.25	1,460	1,460	1,460	2,940	4,400	3,965		

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HSS STARIGHT FLUTE TAPS (METRIC FINE)

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
M12 x 1.50	1,460	1,460	1,460	2,940	4,400	3,959		1,875
M14 x 1.00	1,890	1,890	1,890	3,770	5,650	*		
M14 x 1.25	1,930	1,930	1,930	3,850	5,800	*		
M14 x 1.50	1,820	1,820	1,820	3,660	5,450	4,934		2,508
M15 x 0.75					6,212			
M15 x 1.00	*	*	*	*	5,650	*		
M16 x 0.75				3,766				
M16 x 1.00	1,890	1,890	1,890	3,760	5,650	5,100		
M16 x 1.25		1,880	1,880	3,760	5,650			
M16 x 1.50	1,830	1,830	1,830	3,660	5,500	4,940		
M17 x 1.00	*	*	3,430	*	10,300	*		
M18 x 0.75					11,342			
M18 x 1.00	*	3,430	3,430	6,900	*	9,300	10,659	
M18 x 1.25					11,342			
M18 x 1.50	3,140	3,140	3,140	6,250	*	*	9,726	
M18 x 2.00	3,430	3,430	3,430	6,900	10,300	*		
M19 x 1.00			3,968					
M20 x 1.00	*	3,960	3,960	7,950	*	10,700		
M20 x 1.50	3,960	3,960	3,960	7,950	11,900	10,700	12,302	5,227
M20 x 2.00	3,950	3,950	3,950	7,900	11,900	10,700		
M22 x 1.00	*	*	4,340	9,350	*	11,700		
M22 x 1.50	*	4,090	4,090	8,150	12,300	*		
M22 x 2.00	4,650	4,650	4,650	9,350	*	*		
M24 x 1.00	*	*	4,740	9,500	*	12,800		
M24 x 1.50	4,740	4,740	4,740	9,500	*	12,800	14,683	
M24 x 2.00	*	4,750	4,730	9,500	*	12,800	14,683	
M24 x 2.50				9,454				
M25 x 1.00	*	*	*	11,100	*	*		
M25 x 1.50	5,050	5,050	5,050	10,100	*	*	15,710	
M25 x 2.00	*	5,100	5,000	10,000	*	*		
M26 x 1.50	5,300	5,300	5,300	10,500	*	*		
M26 x 2.00	*	*	*	*	*	*		
M27 x 1.00	*	*	*	15,600	*	19,100		
M27 x 1.50	*	*	7,050	14,100	*	19,100		
M27 x 2.00	*	*	7,050	14,100	*	*		
M27 x 2.50				14,120				
M28 x 1.00	*	*	*	15,600	*	*		
M28 x 1.50	*	7,200	7,100	14,200	*	*		
M28 x 2.00	*	*	*	14,200	*	*	21,957	
M30 x 1.00	*	*	*	17,500	*	*		
M30 x 1.50	7,950	7,950	7,950	15,900	*	*		
M30 x 2.00	*	7,950	7,950	15,900	*	*	24,635	

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HSS STARIGHT FLUTE TAPS (METRIC FINE)

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
M30 x 3.00	*	*	7,950	15,900	*	*		
M32 x 1.00				18,621				
M32 x 1.50	*	*	8,500	17,000	*	*		
M32 x 2.00	8,500	*	8,500	17,000	*	*		
M33 x 1.50	*	*	9,700	19,400	*	*		
M33 x 2.00	*	*	9,700	19,400	*	*		
M33 x 3.00	*	*	*	19,400	*	*		
M35 x 1.50	*	*	*	27,000	*	*		
M35 x 2.00				26,993				
M35 x 3.00	13,498	13,498		26,995				
M36 x 1.00				29,683				
M36 x 1.50	*	*	13,500	27,000	*	*	41,831	
M36 x 2.00	*	*	13,500	27,000	*	*		
M36 x 3.00	*	*	13,500	27,000	*	*		17,541
M38 x 1.00				36,993			52,128	
M38 x 1.50	*	*	*	33,600	*	*	52,128	
M38 x 2.00				33,630				
M39 x 1.50	*	*	16,900	33,600	*	*		
M39 x 2.00	*	*	*	33,600	*	*		
M39 x 3.00	*	*	16,900	33,600	*	*		
M40 x 1.00					56,063			
M40 x 1.50	*	*	18,700	35,300	*	*		
M40 x 2.00	*	*	*	37,400	*	*	57,935	
M42 x 1.50	*	*	18,700	37,400	*	*		
M42 x 2.00	*	*	*	37,400	*	*		
M42 x 3.00	18,700	*	*	37,400	*	*		
M42 x 4.00	*	*	16,500	*	*	*		
M44 x 1.00							80,311	
M45 x 1.50	*	*	*	51,800	*	*		
M45 x 2.00	*	*	*	51,800	*	*		
M45 x 3.00	*	*	*	51,800	*	*		
M48 x 1.50	*	*	*	50,400	*	*		
M48 x 2.00	*	*	*	50,400	*	*		
M48 x 3.00	*	*	25,100	50,400	*	*		
M48 x 4.00	*	*	*	50,400	*	*		
M50 x 1.50	*	*	*	59,500	*	*		
M50 x 2.00	*	*	*	59,500	*	*		
M50 x 3.00	*	*	*	59,500	*	*		
M51 x 3.00				67,080				
M52 x 1.50	*	*	*	67,100	*	*		
M52 x 2.00	*	*	*	67,100	*	*	103,974	
M52 x 3.00	*	*	*	67,100	*	*		
M52 x 4.00	*	*	*	67,100	*	*		

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HSS STRAIGHT FLUTE TAPS (METRIC FINE)

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
M56 x 2.00	*	*	*	87,600	*	*	136,350	
M56 x 3.00	*	*	*	87,600	*	*		
M56 x 4.00	*	*	*	*	131,300	*		
M60 x 2.00							151,365	
M63 X 1.5				104,041				
M63 x 3.00				105,918				
M64 x 4.00	*	*	*	105,900	*	*		
M72 x 6.00	*	*	*	*	*	*		
M75 x 1.50	*	*	*	192,500	*	*		
M76 x 6.00	*	*	*	*	288,700	*		
M80 x 2.00	*	*	*	244,100	*	*	*	
M80 x 3.00	*	*	*	*	353,800	*	*	
M80 x 6.00	*	*	*	*	348,700	*	*	
M82 x 2.00	*	*	*	301,500	*	*	*	
M85 x 2.00	*	*	*	301,500	*	*	*	
M90 x 2.00	*	*	*	415,700	*	*	*	
M95 x 2.00	*	*	*	473,800	*	*	*	
M100 x 2.00	*	*	*	585,400	*	*	*	
M110 X 2.0				609,349				
M120 X 2.0				670,285				

LEFT HAND HSS STRAIGHT FLUTE TAPS (METRIC FINE)

SIZE			
	BOTTOM	S02	M35 SPIRAL FLUTE TIN COATED
	PRICE(RS)/NO	PRICE(RS)/SET	PRICE(RS)/NO
M10 x 1.25		2,202	
M12 x 1.25	1,830		
M12 x 1.50			3,670
M14 x 1.50	2,280		
M16 x 1.50	2,290		3,930
M16 x 1.50	2,290	4,572	
M18 x 1.50	3,920		4,390
M20 x 1.50	4,960		
M24 x 1.50	5,950		

HSS 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	*	*	1,040	*
M10 x 1.00	*	*	1,300	*
M10 x 1.25	*	*	1,300	*
M12 x 1.25	*	*	1,880	*
M12 x 1.50	*	*	1,880	*
M14 x 1.50	*	*	2,320	*
M16 x 1.50	*	*	2,320	*
M18 x 1.50	*	*	3,910	*
M20 x 1.50	*	*	5,100	*
M24 x 1.50	*	*	5,950	*
M24 x 1.50	*	*	5,950	*
M36 x 3.00	*	*	17,400	*

HSS 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	*	*	*	1,600	*	*	*
1/8 " x 40	535	535	535	1,610	*	*	758
5/32 " x 32	535	535	535	1,600	*	*	*
3/16 " x 24	535	535	535	1,610	*	673	*
7/32 " x 24	*	*	*	1,620	*	*	*
1/4 " x 20	561	561	561	1,690	1,750	684	799
9/32 " x 26	*	*	*	1,890	*	*	*
5/16 " x 18	629	629	629	1,890	*	673	840
3/8 " x 16	766	766	766	2,300	2,420	943	1,030
7/16 " x 14	*	988	988	2,960	*	988	*
1/2 " x 12	1,250	1,250	1,250	3,760	3,940	1,250	1,650
9/16 " x 12	*	*	1,820	5,450	*	*	*
5/8 " x 11	1,820	1,820	1,820	5,450	5,650	2,200	2,540
11/16 " x 11	*	*	*	8,000	*	*	*
3/4 " x 10	2,780	2,780	2,780	8,300	8,750	*	*
13/16 " x 10	*	*	*	7,900	*	*	*
7/8 " x 9	3,840	3,840	3,840	11,600	*	*	*
15/16 " x 9	*	*	*	13,300	*	*	*
1 " x 8	4,810	4,810	4,810	14,400	15,200	*	*
1.1/8 " x 7	*	*	6,450	19,400	*	*	*
1.1/4 " x 7	*	*	7,800	23,300	*	*	*
1.3/8 " x 6	*	*	*	30,100	*	*	*
1.1/2 " x 6	*	*	12,100	36,300	38,100	*	*
1.5/8 " x 5	*	*	*	42,300	*	*	*
1.3/4 " x 5	*	*	*	49,500	*	*	*
1.7/8 " x 4.5	*	*	*	59,900	*	*	*
2 " x 4.5	*	*	*	78,100	*	*	*
2.1/4 " x 4	*	*	*	107,600	*	*	*
2.1/2 " x 4	45,569	*	*	136,700	*	*	*
2.3/4 " x 3.5	*	*	*	220,400	*	*	*
3 " x 3.5	*	*	*	231,300	*	*	*

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HSS TAPS (BSF)

SIZE	S03	BOTTOM
	PRICE (RS)/NO	PRICE (RS)/NO
3/16 " x 32	1,610	535
7/32 " x 28	1,620	*
1/4 " x 26	1,690	558
9/32 " x 26	*	*
5/16 " x 22	1,890	630
3/8 " x 20	2,300	765
7/16 " x 18	2,960	988
1/2 " x 16	3,760	1,250
9/16 " x 16	5,450	*
5/8 " x 14	5,450	1,820
11/16 " x 14	8,000	*
3/4 " x 12	8,300	2,780
13/16 " x 12	*	*
7/8 " x 11	11,600	*
-	-	-
1 " x 10	14,400	4,810
1.1/8 " x 9	19,400	*
1.1/4 " x 9	23,300	*
1.3/8 " x 8	30,100	*
1.1/2 " x 8	36,300	12,100
1.5/8 " x 8	42,300	*
1.3/4 " x 7	49,500	*
-	-	-
2 " x 7	78,100	*
2.1/4 " x 6	107,600	*
2.1/2 " x 6	136,700	*
2.3/4 " x 6	220,400	*

HSS TAPS (BA)

SIZE	S03
	PRICE (RS)/NO
0 x 25.4	1,980
1 x 28.2	1,980
2 x 31.4	1,760
3 x 34.8	1,760
4 x 38.5	1,750
5 x 43	1,760
6 x 47.9	1,930
8 x 59.1	3,250
10 x 72.6	3,849

HSS TAPS (UNC)

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	2,650	*	*	884	*
No.4 x 40	1,800	*	*	602	*
No.5 x 40	1,800	*	*	602	
No.6 x 32	1,800	*	*	602	
No.8 x 32	1,800	*	*	602	
No.10 x 24	1,800	*	*	602	
No.12 x 24	2,230	*	743	743	
1/8"X40	1,602	*	*	*	
3/16"X24	1,602	535	*	535	
1/4 " x 20	1,660	557	557	557	956
5/16 " x 18	1,890	630	*	630	1,080
3/8 " x 16	2,300	766	766	766	1,350
7/16 " x 14	2,960	*	*	988	*
1/2 " x 13	3,760	1,250	1,250	1,250	2,040
9/16 " x 12	5,450	*	*	1,820	*
5/8 " x 11	5,450	1,820	1,820	1,820	2,921
11/16"X11	7,622	*	*	*	*
3/4 " x 10	8,300	*	*	2,780	*
7/8 " x 9	11,600	*	3,840	3,840	*
1 " x 8	14,400	4,810	4,810	4,810	
1.1/8 " x 7	19,400	*	6,450	6,450	
1.1/4 " x 7	23,300	*	7,800	7,800	
1.3/8 " x 6	30,100	*	*	10,000	
1.1/2 " x 6	36,300	*	*	12,100	
1.5/8 " x 6	42,300	*	*	*	
1.3/4 " x 5	49,500	*	*	*	
1.7/8"X5	59,876	*	*	*	
2 " x 4.5	78,100	*	*	26,100	
2.1/4 " x 4.5	107,600	*	*	*	
2.1/2 " x 4	136,700	*	*	45,600	
2.3/4 " x 4	220,400	*	*	*	
3 " x 4	231,300	*	*	*	

BS 949

HSS TAPS (UNF)

SIZE	S03	TAPER	PLUG	BOTTOM
	PRICE (RS)/SET	PRICE (RS)/NO	PRICE (RS)/NO	PRICE (RS)/NO
NO.0X80	3,765			
No.6 x 40	1,800	*	*	602
No.8 x 40	*	*	*	*
No.10 x 32	1,800	*	*	602
No.12 x 32	*	*	*	*
1/8"X44	1,602	*	*	*
3/16"X32	1,607	*	*	*
1/4 inch x 28	1,660	557	557	557
5/16 inch x 24	1,890	*	630	630
3/8 inch x 24	2,300	766	766	766
7/16 inch x 20	2,960	988	988	988
1/2 inch x 20	3,760	1,250	1,250	1,250
9/16 inch x 18	5,450	*	*	1,820
5/8 inch x 18	5,450	1,820	1,820	1,820
3/4 inch x 16	8,300	2,780	2,780	2,780
7/8 inch x 14	11,600	3,840	*	3,840
1 inch x 12	14,400	4,810	*	4,810
1.1/8 inch x 12	19,400	6,450	*	6,450
1.1/4 inch x 12	23,300	7,800	*	*
1.3/8 inch x 12	30,100	*	*	10,000
1.1/2 inch x 12	36,300	*	*	*
1.5/8 inch x 12	42,300	*	*	*

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								828
1/8 " x 28	828	828	1,650	828	2,420	1,210	1,210	2,420
1/4 " x 19	1,290	1,290	2,580	1,290	2,580	2,110	2,110	4,210
3/8 " x 19	1,940	1,940	3,880	1,940	5,400	2,700	2,700	5,400
1/2 " x 14	2,830	2,830	5,650	2,830	8,100	4,050	4,050	8,100
5/8 " x 14	*	3,210	6,400	4,590	9,150	4,590	4,590	9,150
3/4 " x 14	4,230	4,230	8,450	6,000	12,000	6,000	6,000	12,000
7/8 " x 14	5,350	5,350	10,700	7,650	*	-	-	-
1 " x 11	6,700	6,700	13,400	6,700	13,400	*	9,350	18,700
1.1/4 " x 11	10,300	10,300	20,600	*	*	-	-	-
1.1/2 " x 11	*	12,800	25,700	*	25,700	*	16,300	32,600
1.3/4 " x 11	*	16,100	32,100	*	40,800	*	*	40,800
2 " x 11	*	23,400	46,900	29,900	59,800	*	*	59,800
2.1/4 " x 11	*	*	80,000					
2.1/2 " x 11	*	*	114,200					
2.3/4 " x 11	*	*	119,600					
3 " x 11	*	*	144,600					
3.1/2 " x 11	*	*	190,100					

BS 949

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HSS TAPS (NPT)

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	*	*	1,650		
1/8 " x 27	1,240	1,240	2,470	3,340	4,126
1/4 " x 18	*	2,160	4,320	5,850	6,629
3/8 " x 18	2,750	2,750	5,500	7,400	
1/2 " x 14	4,130	4,130	8,250	11,100	11,950
5/8"X14			9,299		
3/4 " x 14	6,150	6,150	12,300	16,500	17,324
7/8" x 14			15,551		
1 " x 11.5	*	9,550	19,100	25,900	26,610
1.1/4 " x 11.5	*	13,700	27,300	36,900	
1.1/2 " x 11.5	*	17,000	33,900	45,800	
2 " x 11.5	30,600	30,600	61,300	*	*
2.1/2" x 8	*	*	72,300	*	*
3 " x 8	*	*	227,100	*	*
3.1/2 " x 8	*	*	303,200	*	*

HSS UN TAPS

SIZE	S03	BOTTOM	S02
	PRICE (RS/SET)	PRICE (RS/NO)	PRICE (RS/SET)
1" x 12			10,741
1" x 14	16,100	*	*
1.1/16 " x 12	*	7,450	*
1.1/8" x 8	19,400	6,450	12,900
1.1/4" x 8	23,300	7,800	15,600
1.5/16 " x 12	*	12,300	*
1.3/8" x 8	30,100	*	20,000
1.1/2" x 8	36,300	12,100	*
1.5/8" x 8	*	*	28,200
1.3/4" x 8	*	*	33,100

SIZE	S03	BOTTOM	S02
	PRICE (RS/SET)	PRICE (RS/NO)	PRICE (RS/SET)
1.3/4" x 12	*	*	33,100
1.7/8" x 8	*	19,900	40,000
1.7/8" x 12	*	*	40,000
2 " x 8	*	26,100	52,000
2 " x 12	*	*	52,000
2.1/4 " x 8	*	*	71,700
2.1/4 " x 12	*	*	71,700
2.1/2 " x 8	*	*	91,200
2.1/2 " x 12	*	45,600	91,200

BS 949

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

SIZE	PRICE (RS/NO)
M6 x 1.00 mm	1,690
M8 x 1.25 mm	2,310
M6X1.0 NIB TAP 3FL M42 T/L 26.5MM	1,690
M8X1.25 NIB TAP 5FL M42 7H	2,310

HSS HELICOIL TAPS - METRIC COARSE

SIZE	TAPER	PLUG	BOTTOM	S03
	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/NO	PRICE(RS)/SET
M3 x 0.50	513	513	513	
M4 x 0.70	546	546	546	1,630
M5 x 0.80	654	654	654	1,960
M6 x 1.00	654	654	654	1,960
M7x 1.00	*	*	742	*
M8 x 1.25	796	796	796	2,390
M10 x 1.50	1,250	1,250	1,250	3,740
M12 x 1.75	1,820	1,820	1,820	5,450
M14 x 2.00	*	*	2,760	*
M16 x 2.00	*	2,760	2,760	8,250
M20 x 2.50	3,760	3,760	3,760	11,300
M24 x 3.00	*	*	*	*

DIN STANDARD TAPS

STANDARD	SIZE	BOTTOM TIN	SPPT M35	SPPT M35 TIN
		PRICE (RS)	PRICE (RS)	PRICE (RS)
DIN 371	M4.0 x 0.70		1,001	
	M5.0 x 0.80			1,165
	M6.0 x 1.00	785		1,165
	M8.0 x 1.25	966		
	M10 x 1.50	1,220		
DIN 376	M12 x 1.75	1,840		
	M14 x 2.00	2,610		
	M16 x 2.00	2,610		
	M18 x 2.50	3,910		
	M20 x 2.50	4,820		
	M24 x 3.00	5,700		

CUSTOMISED HSS TAPS

LEFT HAND TAPS

PRODUCT DESCRIPTION	PRICE (RS)/NO
M3.5X0.6 LH S03 4H	1,925
M6X1.0 BOTTOM LH	687
M16X2.0 BOTTOM LH	2,275
M20X1.5 BOTTOM LH	4,959
3/8"X16 BSW S03 LH	2,878
3/4"X14 BSP S02 LH	10,557
2"X11 BSP S02(LH)	58,614
M4X0.7 BTM LH	642
M5X0.8,BTM,LH	687
M14X1.50 BOT LH	2,284
M16X1.5 BOTTOM LH 5H6H TIN	2,828
M18X1.5 LH BTM	3,920
M24X1.5 LH BTM	5,921
M24X2.0 SET LH	11,816
M14X1.5 TYPE 'C' LH	2,908
M16X1.5 TYPE "C" 3FL LH	2,908
M18X1.50 TYPE "C" LH	4,894
M20X1.5 TYPE "C" 3FL LH	6,387
M24X1.5 TYPE "C" 3FL LH	7,397
M20X1.5 SPPT T/L 90 OAL 190 LH 7H BT	8,522
M38X1.5 SECOND T/L 90 OAL 190MM LH 7HTIN	22,268
M27X3.0 SECOND OAL 180MM LH 7H	9,872
M24X3.0 SPL TAP BTM LH OAL 180 MM TIN	7,297
M27X3.0 SPL TAP BTM LH OAL 180 MM TIN	11,252
M38X1.5 SPPT T/L 90 OAL 190 LH 7H TIN	23,158
M18X1.5 SPPT T/L 90 OAL 190 LH 7H TIN	6,413

LEFT HAND TAPS

PRODUCT DESCRIPTION	PRICE (RS)/NO
M20X1.5 SPPT T/L 90 OAL 190 LH 7H TIN	7,754
M22X1.5 SPPT T/L 90 OAL 190 LH 7H TIN	8,777
M24X1.5 SPPT T/L 90 OAL 190 LH 7H TIN	9,465
M30X1.5 SPPT T/L 90 OAL 190 7H LH TIN	15,463
M33X1.5 SPPT T/L 90 OAL 190 LH 7H TIN	21,824
M40X1.5 SPPT T/L 50 OAL 190 LH 7H TIN	26,363
M38X1.5 SPPT T/L 40 OAL 190MM 7H LH TIN	21,540
1 1/8"X7 UNC SEC TH/L 75 LH A/P DRG	9,729
1 1/4"X7 UNC SECOND LH	9,728
M12X1.75 BTM LH	1,560
M16X2.0 BTM LH	2,275
M18X1.5 BOTTOM 6G LH	3,921
M12X1.5 S02 LH	3,670
M3.5X0.6 4H LH SERIAL S03 M35	2,456
M10X1.25 LH TYPE "C" 6G	2,086
M24X3.0 SPPT SPRL15DEG M35 LH6G OL160 BT	10,372
M27X3.0 SPPT SPRL15DEG M35 LH6G OL170 BT	15,391
M30X3.5 SPPT SPRL15DEG M35 LH6G OL180 BT	15,344
M27X2.0 SPPT SPRL15DEG M35 LH6G OL160 BT	15,936
M36X3.0 SPPT SPRL15DEG M35 LH6G OL200 BT	31,262
M18X1.5 SPIRAL T/L 29MM OAL 104MM LH	6,909
M3.5X0.6 4H (LH) NUT TAP M35	1,671
M8X1.25 3FL S03 LH M42 4H6H T/L 30 OAL 6	3,758
M20X1.5 LH S02 M42	14,287
M32X2.0 LH S02 M42	30,474

CUSTOMISED HSS TAPS

UNC TAPS

PRODUCT DESCRIPTION	PRICE (RS)/NO
5/16"X18 UNC BOTTOM GH1 CI	630
1/4"X20 UNC SECOND TIN	688
3/8"X16 UNC BOTTOM 3FL 2BX (MF311088022)	765
3/8"X16 UNC BOTTOM GH1 CI	765
1/4"X20 UNC SPIRAL 3FL	799
N010X24 UNC SECOND M35	812
5/16"X18 UNC SECOND TIN	816
N012X24 UNC SECOND TIN	919
3/8"x16 UNC BTM CI M35	1,065
1/2"X12 UNC TAPER	1,255
1/2"X13 UNC BOTTOM GH1 CI	1,255
1/2"X13 UNC BTM TIN	1,561
3/8"x16 UNC BTM CI OAL 100MM M35	1,632
1/2"x13 UNC TOLERANCE +0.015 OVER SIZE	1,898
5/8"X11 UNC BOTTOM 3B TIN	2,185

UNC TAPS

PRODUCT DESCRIPTION	PRICE (RS)/NO
1/2"X13 UNC 4FL BTM #11.489(2B) +0.4	2,294
5/8"X11 UNC TOLERANCE +0.015 OVER SIZE	2,673
3/4"X10 UNC BOTTOM GH1 CI	2,775
5/8"X11 UNC 4FL BTM # 11.438(2B) +0.4	3,326
3/4"X10 UNC BTM T/L 50MM & OAL 150MM BT	3,567
1/2"X13 UNC SERIAL S03	3,954
3/4"X10 UNC 4FL BTM 2BX M35 TIN	4,734
3/4"X10 UNC TOLERANCE +0.015 OVER SIZE	5,115
7/8"x9 UNC T/L 70MM BTM TIN	5,537
7/8"X11 UNC SPIRAL TIN	5,726
5/8"X11 UNC SERIAL S03	5,760
3/4"x10 UNC 35 DEG SPIRAL M35 1B	5,946
1 1/8"X7 UNC SEC TH/L 75 A/P DRG	7,784
3/4"x10 UNC SERIAL S03	8,742
1 7/8"X8 UNC S02	39,902

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CUSTOMISED HSS TAPS

UNF TAPS		UNF TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO	PRODUCT DESCRIPTION	PRICE (RS)/NO
N010X32 UNF SECOND	602	3/8"X24 UNF SECOND M35 TIN	1,321
1/4"X28 UNF BOTTOM TIN	663	7/16"X20 UNF BTM M35 TIN	1,756
3/8"X24 UNF BTM	766	7/16"X20 UNF 3FL SPIRAL M35 TIN	2,149
1/4"X28 UNF BTM M35 TIN CI	930	3/4"X20 UNF, BTM	3,051
3/8"X24 UNF SPIRAL 3FL	1,030	7/16"X20 UNF M35 ALCRONA DRG.NO.Ch01	4,874
7/16"X20 UNF SECOND RETAPPING	1,084	3/4"X16 UNF SPPT 6FL FULL HSSE TIN	5,729
N010X32 UNF SLOW SPIRAL M35 TIN CI	1,176	1 1/8"X12 UNF BOTTOM TIN	7,120
7/16"X20 UNF BTM CI TIN	1,297	1 5/8"X12 UNF BTM TIN	15,254

CUSTOMISED HSS TAPS

HELICOIL		HELICOIL	
PRODUCT DESCRIPTION	PRICE (RS)/NO	PRODUCT DESCRIPTION	PRICE (RS)/NO
M8X1.0 ROUGHER HELICOIL	838	M10X1.0 HELICOIL FINISHER	1,374
M10X1.25 SECOND HELICOIL	1,333	M12X1.5 BOTTOM HELICOIL	2,039
M10X1.25 BOTTOM HELICOIL	1,333	M10X1.25 HELICOIL S03 M42 T/L 20 OAL76MM	6,180
M10X1.0 HELICOIL ROUGHER	1,374		

CUSTOMISED HSS TAPS

BSW		BSW	
PRODUCT DESCRIPTION	PRICE (RS)/NO	PRODUCT DESCRIPTION	PRICE (RS)/NO
1/4"x20 BSW TYPE"C"	789	7/16" X 14 BSW SPIRAL M35	1,842
5/16"X18 BSW TYPE"C"	807	1/2"X12 BSW SPIRAL 3FL M35 TIN	2,374
3/8"X16 BSW TYPE "C"	1,000	5/8"X11BSW SPIRAL 3FL TIN	2,921
3/16"X24 BSW SPIRAL M35 TIN 6HX	1,102	3/4"X10 BSW SPIRAL 3FL	3,696
1/4"X20 BSW SPIRAL M35 TIN 6HX	1,200	1"X14 BSW SPIRAL	6,100

CUSTOMISED HSS TAPS

BSP		BSP	
PRODUCT DESCRIPTION	PRICE (RS)/NO	PRODUCT DESCRIPTION	PRICE (RS)/NO
1/4"X19 BSP TAPER	1,289	1/2"X14 BSP OAL250 DRG NO S23J08004	4,271
1/4"X19 BSP TYPE "C" DIN 5156	1,594	3/4"X14 BSPT BOTTOM T/L 30MM	6,000
1/4"X19 BSP OAL 200 A/P DRG NO.S23J08002	1,675	3/4"X14 BSP 5FL SPPT M35 TIN	8,136
1/4"X19 BSPT BTM T/L 19 OAL 67MM	2,313	1"x11 BSP TYPE"C" OAL 160MM	7,327
3/8"X19 BSP BTM RG	1,937	1"X11BSP,OAL250 A/P DRG NO.S23J08006	10,011
1/2"X14 BSP TAPER RG	2,828	1 1/4"X11 BSP TYPE"C" OAL 160MM	11,301

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CUSTOMISED HSS TAPS

TYPE B TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M6X1.0 TYPE "B" TIN	1,208
M6X1.0 TYPE "B" 6G TIN	1,229
M8X1.25 TYPE "B" 6G TIN	1,411
M6X1.0 TYPE "B" M35	1,426
M8X1.25 TYPE "B" 3FL M35 TIN	1,217
M10X1.25 LS TYPE "B" 3FL	1,453

TYPE B TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M10X1.5 TYPE "B" 6G TIN	1,786
M10X1.25 LS TYPE "B" M35 TIN	2,297
M12X1.75 TYPE "B" 4FL	2,030
M48X5.0 TYPE "B"	34,523
M48X5.0 TYPE "B" M35 OAL 300MM	53,599

CUSTOMISED HSS TAPS

TYPE C TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M5X0.8 TYPE "C" 6G	812
M5X0.8 TYPE "C" BLUE TEMP.	817
M6X1.0 TYPE "C" 6G	867
M6X1.0 TYPE "C" FEMALE CENTRE	867
M6X1.0 TYPE "C" BLUE TEMPERING	884
M6X1.0 TYPE "C" 6G TIN	917
M8X1.25 TYPE "C" RETAPPING	943
M8X1.25 TYPE "C" 6G	943
M8X1.25 TYPE "C" 6G RETAPPING TIN	1,102
M8X1.25 TYPE "C" M35	1,598
M10X1.25 TYPE "C" 4H 3FL	1,117
M10.3X1.5 TYPE "C" OAL 125MM	1,279
M10X1.25 TYPE "C" BT	1,313
M10X1.25 TYPE "C" 6G M35	1,761
M10X1.5 TYPE "A" OAL 150MM 6H	1,450
M10X1.5 TYPE "C" OAL 150MM 6H	1,450
M10X1.5 SPIRAL TYPE "C" M35	1,996
M12.3X1.75 TYPE "C" OAL 125MM	1,816

TYPE C TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M12X1.25 TYPE "C" 4FL 6HX SG	1,879
M12X1.5 TYPE "C" 4FL CI	2,066
M12X1.25 LS TYPE "C" 4FL	2,153
M12X1.25 L.S. TYPE "C" -L.H.	2,346
M14X1.5 TYPE "C" 4FL CI	2,558
M14X1.5 LS TYPE "C" 4FL	2,598
M14X1.5 TYPE "C" 6HX TIN	2,720
M16X2.0 TYPE "C" 3FL 6HX (MF311088038)	2,491
M20X2.5 TYPE "C" OAL 275MM 6H	5,406
M20X1.5 TYPE "C" 4FL CI	5,619
M30X2.0 TYPE "C" 7H M42	11,710
M33X1.5 TYPE "C" 5H6H	11,143
M42X3.0 LS S02 (TYPE "A" & TYPE "C") TIN	50,885
M48X3.0 LS S02 (TYPE "A" & TYPE "C")	63,297
M48 X 5.00 TYPE "C"	28,769
M48X5.0 TYPE "A" M35 OAL 300MM	46,608
M48X5.0 TYPE "C" M35 OAL 300MM	46,608
M52X4 SPIRAL TYPE "C" TIN	43,521

CUSTOMISED HSS TAPS

SECOND TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M4X0.7 P-3 SECOND M42	889
M5X0.8 P-3 SECOND M42	952
M6X1.0 LS SECOND 6H	929
M6X1.0 P-3 SECOND M42	952
N04 BA SECOND	586
5/16"X22 BSF SECOND	630
M8X1.25 SECOND MALE TIN	661
M8X1.25 SECOND RETAPPING BT 4H	661
M8X1.25 SECOND MALE RETAPPING BT	661
M8x1.25 SECOND MC1 HSSE	888
M8X1.0 SECOND BT	699
M8X1.25 LS SECOND	943

SECOND TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
3/8"X20 BSF SECOND	766
M10X1.25 SECOND BT	736
M12X1.25 SECOND 4H	1,468
M16X2.0 SECOND TIN 6H	2,364
M16X1.5 SECOND TIN 6H	2,375
M16X1.5 SECOND (M/D 16.12 TO 16.15)	2,798
M16X2.0 M42 SECOND	2,821
M20X1.5 SECOND 6G	3,544
M22X2.5 SECOND M35 7H	4,542
M27X3.0 SECOND OAL 180MM 7H	8,225
1 1/2"X8 BSF SECOND	12,068
M38X1.5 SECOND T/L 90 OAL 190MM 7H TIN	18,226

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CUSTOMISED HSS TAPS

SPPT TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M2.5X0.45 SPPT 3FL	1,000
M3.5X0.6 SPPT DIN371 6GX F/C TIN M35	1,153
M4X0.7 SPPT 3FLT 6GX M35 TIN	1,095
M5X0.8 SPPT 4H	679
M5X0.8 SPPT 3FL M42	942
M5X0.80 SPPT 6G M35 TIN	1,009
M5X0.8 SPPT 3FL M42 TIN	1,042
M5X0.8 SPPT 3FL 7G TIN M35	1,155
M5X0.5 6H+0.040 SPPT M35 TIN	1,330
M6X1.0 SPPT 3FL 4H	679
M6X1.0 SPPT 3FL 7G TIN M35	1,155
M6X1.0 SPPT M35 6GX TIN P-3	1,200
M8X1.25 SPPT 3FL F/C	788
M8X1.25 SPPT 3FL MALE	788
M8X1.0 SPPT TIN MALE CENTRE	1,114
M8X1.25 SPPT 6G 3FL TIN M35	1,209
M8X1.0 SPPT 6G M35 TIN P-3	1,557
N06 BA SPPT M35	967
M10X1.5 SPPT 3FL F/C	984
M10X1.0 SPPT 3FL	1,079
M10X1.25 SPPT 3FL	1,079
M10X1.5 SPPT 3FL 6G TIN MALE	1,390
M10X1.25 SPPT MALE CENTRE 3FL TIN	1,460
M12X1.25 SPPT 3FL	1,660
M12X1.5 SPPT 3FL	1,660
M12X1.25 SPPT TIN	1,904
M12X1.75 MALE CENTRE SPPT 3FL	1,506
M12X1.25 4FL SPPT 7G M35 TIN	2,772
M12X1.5 T/L 18MM SPPT 6HX M42	2,936

SPPT TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M12X1.5 SPPT 6G MA2 HSSE	2,989
M16X1.5 SPPT 3FL	2,246
M16X1.5 SPPT M35 6G TIN	3,453
M18X1.5 SPPT T/L 90 OAL 190 7H TIN	5,117
M18X1.5 SPPT M35 DIN374 TIN	5,284
M20X2.5 SPPT 4FL	4,216
M20X2.5 SPPT 4FL M35 TIN	5,886
M20X1.5 SPPT T/L 90 OAL 190 7H TIN	6,061
M20X2.5 SPPT M42	6,536
M20X1.5 SPPT M35 TIN	6,658
M20X1.5 SPPT T/L 90 OAL 190 7H BT	7,039
M20X1.5 LS 'B' SPPT 4FLT TIN M35	8,688
M22X1.5 SPPT T/L 90 OAL 190 7H TIN	7,167
M20X1.5 SPPT 6FL FULL HSSE TIN	7,481
M24X1.5 SPPT T/L 90 OAL 190 7H TIN	7,681
M24X2.0 SPPT 4FL 4H	4,516
M24X3.0 SPPT SPRL15DEG M35 6G OL160 BT	8,442
M24X1.5 SPPT 6FL FULL HSSE TIN	8,856
M27X3.0 SPPT SPRL15DEG M35 6G OL170 BT	12,514
M30X3.5 SPPT SPRL15DEG M35 6G OL180 BT	12,472
M30X1.5 SPPT OAL 190 (Zero B/Taper) TIN	13,808
M30X1.5 SPPT OAL 190 TIN 7H RH	13,808
M30X1.5 SPPT T/L 90 OAL 190MM 7H BT	14,243
M30X3.0 SPPT SPRL15DEG M35 6G OL180 BT	14,520
M36X3.0 SPPT SPRL15DEG M35 6G OL200 BT	25,384
M38X1.5 SPPT T/L 40 OAL 190MM 7H TIN	18,014
M38X1.5 SPPT T/L 90 OAL 190 7H TIN	18,955
M40X1.5 SPPT T/L 50 OAL 190 7H TIN	21,090
M40X2.0 SPPT 6FL M35 TIN FULL HSSE	34,789

CUSTOMISED HSS TAPS

NUT TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M5X0.8 NUT TAP 3FL M35	1,527
M4X0.7 NUT TAP 3FL M42	1,752
M30X3.5 NUT TAP OAL 210MM T/L 90 M35 TIN	22,888
M33X3.5 NUT TAP OAL 210MM T/L 90 M35 TIN	25,164

NUT TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M42X4.5 NUT TAP OAL 210MM T/L 90 M35 TIN	30,313
M45X4.5 NUT TAP OAL 210MM T/L 90 M35 TIN	36,254
M52X5.0 NUT TAP OAL 210MM T/L 90 M35 TIN	68,051

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CUSTOMISED HSS TAPS

SPIRAL FLUTE TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M6X1.0 DIN371 SPIRAL M35 TIN	1,217
M8X1.25 DIN376 15°SLOW SPIRAL M35 TIALN	1,959
M9X1.25 SPIRAL M35 TIALN	1,374
M10X1.25 SPIRAL 3FL 6G	1,201
M10X1.25 SPIRAL 6G TIN	1,796
M10X1.25 SPIRAL 6GX M35 TIN	1,816
M12X1.75 LS SPIRAL TIN	2,561
M12X1.0 SPIRAL 3FL TIN M35	3,027
M12X1.25 4FL SPIRAL M35 TIN	3,733
Miranda Standard HSS-E (8%Co) MF Spiral Flute Tap for General Purpose, TiCN Coated, M12 x 1.25 mm	5,050
Miranda Standard HSS-E (5%Co)M12X1.5 15DEG SPRL OAL115MM, TiN Coated M12 x 1.50 mm	3,330
Miranda Standard HSS-E (8%Co) MF Spiral Flute Tap for General Purpose, TiCN Coated, M14 x 1.50 mm	6,050
9/16"X20 UNEF SPIRAL BTM TIN M35	3,864
5/8"X20 UNEF SPIRAL BTM TIN M35	3,864
M16X1.5 SLOW SPIRAL M35 TIN	3,310

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	5,050
M18X1.5 4FL SPIRAL TIN M35	6,074
IS 6175-P3 HSS-E (5%Co) MF 35° Spiral Flute Tap, TiN Coated, M18 x 1.50 mm	6,100
M18X1.5 3FL SLOW SPIRAL M35 TIN	6,689
M18X1.50 L.S SLOW SPIRAL 3FL M35 TIN	7,725
M24X3.0 DIN376 45°SPIRAL 6HX TiCN	9,391
Miranda Std. HSS-E (5%Co) MF Slow Spiral M27X2.0 SPPT SPRL15DEG M35 6G OL160 , ST, M27 x 2.00 mm	12,900
Miranda Std. HSS-E (5%Co) MF Slow Spiral M30X3.0 SPPT SPRL15 DEG 6G OL180, LH ST, M30 x 3.00 mm	17,900
M30X3.5 SPIRAL T/L 45MM OAL 140MM M35	10,524
1 1/4"X8 UN SPIRAL	10,506
M36X4.0 SPIRAL T/L 45MM OAL 140MM M35	16,944
IS 6175-P3 HSS-E (5%Co) MF 35° Spiral Flute Tap, TiN Coated, M38 x 1.50 mm	31,200
2"x8 UN SPIRAL	35,139

CUSTOMISED HSS TAPS

SET OF THREE	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M3X0.6 S03 M42 SIM CLASS II	2,620
M3X0.5 S03 SQ.LENGTH 25.00MM	2,803
M4X0.75 S03 M42 SIM CLASS II	2,620
M4X0.7 S03 SQ.LENGTH 24.00MM	2,803
M5 x 0.80 mm IS 6175-P2 HSS-E (5%Co), 4H Tol. TiN Coated	2,240
M5X0.8 4H S03 M42	2,383
M5X0.8 S03 SQ.LENGTH 28.00MM	2,997
M6X1.0 S03 F/C	1,645

SET OF THREE	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M6X1.0 S03 M42 SIM CLASS II	2,620
M6X1.0 S03 SQ.LENGTH 31.00MM	2,997
M8X1.25 S03 SIM CLASS II	1,980
M8X1.25 3FL S03 M42 4H6H T/L 30 OAL 66MM	3,265
M12X1.75 S03 M35 4H TIN	6,205
M16X1.5 SERIAL S03	6,540
M30X3.0 LS SERIAL S03 TIN	15,238

CUSTOMISED HSS TAPS

SET OF TWO (S02)	
PRODUCT DESCRIPTION	PRICE (RS)/NO
1/4"X26 BSF S02	1,110
1/4"X18 NPSF S02	4,011
M8X1.0 S02 M35 4H TIN	2,598
M10X1.0 S02 M35 4H TIN	3,004
M10X1.25 S02 M35 4H TIN	3,004
M12X1.25 S02 M35 TIN	4,207

SET OF TWO (S02)	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M12X1.25 S02 M35 4H TIN	4,730
M16X1.0 SERIAL S02	3,956
M24X1.0 SERIAL S02	9,949
1"X14 NPT S02	19,130
1 3/8"x8 UN S02 TIN	21,416
M38X1.5 6G S02 M42	57,343

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CUSTOMISED HSS TAPS

BOTTOM TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M2.5X0.45 BTM M35 TIN	1,278
M4X0.7 BTM 4H	514
M5X0.8 BTM 6G BT(AL)	546
M6X1.0 BTM 6G BT(AL)	546
M6X1.0 BOTTOM FEMALE CENTRE	549
M6X1.0 BTM 25°LEAD ANGLE	550
M6X1.0 BOTTOM BLUE TEMP.	561
M6X1.0 BTM 6G M35	739
M6X1.0 BTM CI M35 6G	799
M6X1.0 SPL BTM M35 AS PER DRG.	877
M8X1.25 BTM MALE	661
M8X1.25 BTM 25°LEAD ANGLE	661
M8X1.25 BTM CI BT P-3	736
M8X1.25 BOTTOM 3FL TIN	962
M8X1.25 BOTTOM DIN371 M35	1,025
M8X1.0 BOTTOM P-3 M35	1,165
M8X1.25 BTM P-3 CI M35 TIN RAKE ANGLE 3°	1,213
M10X1.25 BOTTOM BT	826
M10X1.25 BTM 6G	879
M10X1.0 BOTTOM TIN	1,004
M10X1.5 BTM 6G M35	1,077
M10X1.25 BTM TIN	1,114
M10X1.0 BTM M35 BT	1,201
M10X1.0 BTM 6G M35 CI TIALN	1,795
M10X1.5 BTM OAL 190MM 6G RETAPPING TIN	2,082
M12X1.75 BOTTOM IS6175-1992 PART3 HSS	1,248
M12X1.75 BTM 7H	1,248
M12X1.75 BTM TIN	1,557
M12X1.25 BTM M35	1,982
M12X1.75 BTM DIN 376 M35 TIALN OAL 105MM	2,150
M14X1.5 BTM AL	2,194
M14X1.5 BTM 6HX M35 TIALN	2,331
M14X1.5 BTM OAL 135MM 6HX TIN	2,991
M16X2 BTM 7H	1,819

BOTTOM TAPS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M16X1.5 BOTTOM 5H6H TIN	2,205
M16X2.0 BTM TIN	2,373
M16X2 BTM M35	2,457
M16X2.0 BTM M35 7G	2,458
M16X1.5 BTM M35	2,467
M16X1.5 BTM CI M35 6G	2,648
M16X1.5 BTM M35 TIN	2,854
M18X1.5 BOTTOM 6G	3,138
M18X1.5 BOTTOM 5H6H TIN	3,138
M18X1.5 BTM TIN 6H	3,681
M18X1.5 BTM M35	4,234
M25X3.0 BTM	5,125
M20X1.5 BOTTOM 6HX SG	3,968
M20X2.5 BOTTOM 7H	3,518
M20X1.5 BTM 6HX T/L 29MM OAL104MM	5,511
M20X1.5 BOTTOMING TIN M35	5,897
M20X1.5 T/L 25MM OAL 125MM BTM M35	6,151
M24X3.0 SPL TAP BTM OAL180 ASPER DRG TIN	6,085
M24X1.5 BTM M35 ALCRONA COATING	7,880
M32X1.5 BTM	8,464
M27X3.0 SPL TAP BTM OAL180 ASPER DRG TIN	9,375
M34X1.5 BOTTOM 4FL	13,494
M36X1.5 BTM	13,493
NO2 BA BTM	586
NO4 BA BTM	586
1/8"X27 NPSF BTM	1,176
1/8"X27 NPTF BTM	1,296
1/8"x27 NPTF BOTTOM OAL 115MM	1,522
1/4"X18 NPTF BTM OAL 115MM	2,764
3/8"X18 NPTF BTM	3,180
3/4"X16 BSCY BTM	4,672
1"X14 UNS BOTTOM	4,806
3/4"x16 BSCY BOTTOM TIN M35	6,569

CUSTOMISED HSS TAPS

OTHERS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M4X0.7 TAPER TIN	432
M3X0.5 INTERMEDIATE	537
M4X0.7 ROUGHER	537
VG5 SHANK 5.4MM PITCH 36 WITH RECESS	546
M5X0.8 SERIAL ROUGHER	576
0.210"X36 NS OAL 66 MM	591
0.212X36 NS T/L30MM OAL 66MM W/O RECESS	591
M8X1.25 INTER	661
M8X1.25 ROUGHER	661
M8X1.25 FINISHER	691
VG 8 SHANK 6.3MM 32 PITCH	691
M4X0.7 SERIAL INTERMEDIATE M42	818
M3.5X0.6 SERIAL INTERMEDIATE M42	818
M10X1.5 ROUGHER	834
M12X1.75 3FL TAPER	1,248

OTHERS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
M12X1.75 FINISHER	1,313
M2.5X0.45 ROUGHER M42	1,322
M2.5X0.45 SERIAL INTERMEDIATE M42	1,366
M2X0.4 ROUGHER M42	1,391
M12X1.25 TAPER RETAPPING	1,468
M8X1.25 DIN371 M42 6HX TIALN CI	1,837
M12X1.75 T/L 29 OAL 89MM M35 TIALN	1,885
M12X1.5 SEC MC2 HSSE (M/D 12.12 to 12.15	2,261
M20X2.5 FINISHER	3,694
1"X14 WITHWORTH 1:8 TAPER M35	4,585
1"X14 WITHWORTH 3:25 TAPER M35	6,224
M30X3.5 INTERMEDIATE	7,473
M30X3.5 ROUGHER	7,473
M30X3.5 FINISHER	7,473
M30X1.5 SEC 6FLT/L 75 OAL170 7HTIN RH	12,319

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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HIGH PERFORMANCE TAPS - MIRANDA EDGE PLATINUM CUT

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	905	1,040	1,090	1,040	1,190	1,240	754	866	906	793	754	866	906
M4 x 0.7	905	1,040	1,090	1,040	1,190	1,240	754	866	906	793	754	866	906
M5 x 0.8	947	1,090	1,130	1,090	1,250	1,300	793	912	952	793	793	912	952
M6 x 1.0	947	1,090	1,130	1,090	1,250	1,300	793	912	952	793	793	912	952
M8 x 1.0	*	*	*	1,350	1,552	*	*	*	*	*	*	*	*
M8 x 1.25	1,060	1,220	1,270	1,220	1,400	1,460	888	1,020	1,070	*	888	1,020	1,070
M10 x 1.0	*	*	*	*	*	*	*	*	*	*	*	*	*
M10 x 1.25	1,527	1,757	*	*	2,013	*	1,275	1,468	*	*	1,275	*	*
M10 x 1.5	1,310	1,520	1,590	1,510	1,730	1,810	1,100	1,260	1,310	*	1,100	1,260	1,540
M12 x 1.0	*	*	*	*	*	*	*	*	*	*	*	*	*
M12 x 1.25	*	*	*	*	*	*	*	*	*	*	*	*	*
M12 x 1.50	2,365	2,717	*	2,706	3,114	*	1,968	*	*	*	1,968	2,261	*
M12 x 1.75	2,020	2,330	2,430	2,320	2,670	2,790	1,691	1,940	2,060	*	1,700	1,940	2,030
M14 x 2.0	2,440	2,800	2,920	2,790	3,200	3,340	*	2,320	2,470	*	2,480	2,360	*
M16 x 2.0	2,800	3,210	3,360	4,380	3,690	3,850	*	2,840	2,840	*	2,850	2,720	*
M18 x 2.5	3,520	3,950	4,230	3,960	4,640	4,910	*	3,350	3,570	*	3,580	3,350	*
M20 x 2.5	3,700	4,280	4,510	4,420	5,050	5,400	*	3,600	3,760	*	3,770	3,600	*
M24 x 3.0	*	*	*	*	8,100	*	*	*	*	*	*	*	*

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	*	878	*	*	*	*	*	878	*	*	*	*
1212	100	*	954	*	*	*	954	*	954	*	*	*	*
1616	110	*	1,280	*	*	*	1,280	*	1,280	*	*	*	*
2020	125	*	2,060	2,060	*	*	2,060	*	2,060	*	*	*	*
2525	140	*	3,080	3,080	*	*	3,080	*	3,080	*	*	*	3,080
3232	170	*	5,000	*	*	*	*	*	5,000	*	*	*	*
4040	200	*	*	*	*	*	*	*	*	*	*	*	*
5050	240	*	*	*	*	*	*	*	*	*	*	*	*
1610	110	*	*	*	*	*	*	*	*	*	*	*	*
2012	125	*	1,420	*	*	*	*	*	*	*	*	*	*
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	*	954	954	*	*	954	*	954	*	*	*	954
1212	100	*	1,050	*	*	*	1,050	*	1,050	*	*	1,050	1,050
1616	110	1,450	1,450	1,450	*	1,450	1,450	*	1,450	1,450	*	*	1,450
2020	125	2,010	2,010	2,010	*	2,010	2,010	*	2,010	2,010	*	2,010	2,010
2516	140	*	2,060	*	*	*	*	*	2,060	*	*	*	*
2525	140	3,020	3,020	3,020	3,020	3,020	3,020	*	3,020	3,020	*	*	3,020
3220	170	*	#REF!	*	*	*	3,260	*	*	*	*	*	3,260
3232	170	*	5,200	5,200	*	*	5,200	*	5,200	5,200	*	*	5,200
4025	200	*	*	*	*	*	5,850	*	*	*	*	*	*
4040	200	*	10,100	*	*	10,100	*	*	*	*	*	*	*

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	954	954	954	*	*	954	954	954	954	*	*	*
1212	100	1,050	1,050	1,050	*	*	1,050	1,050	1,050	1,050	*	*	1,050
1610	110	1,130	1,130	1,130	*	*	*	1,130	1,130	1,130	*	*	*
1616	110	1,450	1,450	*	*	*	1,450	1,450	1,450	*	*	*	1,450
2012	125	1,530	1,530	1,530	*	*	1,530	1,530	1,530	1,530	*	*	1,530
2020	125	2,010	2,010	2,010	*	*	2,010	2,010	2,010	2,010	*	2,010	2,010
2516	140	2,060	2,060	2,060	*	*	*	2,060	2,060	2,060	*	*	*
2525	140	3,020	3,020	*	*	*	3,020	3,020	3,020	*	3,020	*	3,020
3220	170	3,260	3,260	3,260	*	*	*	3,260	3,260	3,260	*	*	*
3232	170	5,200	5,200	*	*	5,200	*	5,200	5,200	*	*	*	*
4040	200	*	*	5,850	*	*	*	*	*	*	*	*	*
5050	240	*	10,100	*	*	*	*	*	*	*	*	*	10,100

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TUNGSTEN CARBIDE TIPPED TOOLS

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	954	954	954	*	*	954	954	954	954	*	*	954
1212	100	1,050	1,050	1,050	*	*	1,050	1,050	1,050	1,050	*	*	1,050
1610	110	1,130	*	1,130	*	*	*	1,130		1,130	*	*	*
1616	110	1,450	1,450		*	*	1,450	1,450	1,450	1,450	*	1,450	1,450
2012	125	1,540	1,540	1,540	*	*	*	1,540	1,540	1,540	*	*	*
2020	125	2,010	2,010		*	*	2,010	2,010	2,010	2,010	*	*	2,010
2516	140	2,060	2,060	2,060	*	*	*	2,060		*	*	*	2,060
2525	140	3,020	3,020	*	*	*	3,020	3,020	3,020	*	*	*	3,020
3220	170	3,260	3,260	3,260	*	*	*	3,260	3,260	3,260	*	*	*
3232	170	5,200	5,200	*	*	*	5,200	5,200	5,200	*	*	*	*
4025	200	*	*	5,850	*	*	5,850	*	*	*	*	*	5,850
4040	200	*	*	*	*	*	*	*	*	*	*	*	*
5050	240	*	*	*	*	*	*	*	*	*	*	*	*
1/2"	100	*	*	*	*	*	1,050	*	*	*	*	*	*
5/8"	110	*	*	*	*	*	2,010	*	*	*	*	*	*
3/4"	125	*	*	*	*	*	1,450	*	*	*	*	*	*

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	*	854	854	*	*	*	*	*	*	*	*	*
0808	80	*	958	854	*	*	958	*	958	*	*	*	*
1010	90	954	954	954	*	*	954	954	954	954	*	*	954
1212	100	1,050	1,050	1,050	*	1,050	1,050	1,050	1,050	1,050	*	1,050	1,050
1610	110	1,130	1,130	1,130	*	*	*	1,130	1,130	1,130	*	*	*
1616	110	1,450	1,450	1,450	*	1,450	1,450	1,450	1,450	1,450	*	*	1,450
2012	125	1,540	1,540	1,540	*	*	*	1,540	1,540	1,540	*	*	*
2020	125	2,010	2,010	2,010	2,010	2,010	2,010	2,010	2,010	2,010	2,010	2,010	2,010
2516	140	2,060	2,060	2,060	*	*	2,060	2,060	2,060	2,060	*	*	*
2525	140	3,020	3,020	3,020	3,020	3,020	3,020	3,020	3,020	3,020	3,020	3,020	3,020
3220	170	3,870	3,870	3,870	*	*	3,870	3,870	3,870	3,870	*	*	3,870
3232	170	5,200	5,200	5,200	5,200	*	5,200	5,200	5,200	5,200	*	*	5,200
4025	200	*	5,900	*	*	*	5,900	*	5,900	*	*	*	5,900
4040	200	*	10,100	*	*	*	10,127	*	*	*	*	*	10,127
5050	240	*	*	*	*	*	*	*	21,500	*	*	*	*

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	954	954	954	*	*	954	954	*	954	*	*	*
1010	90	*	1,140	*	*	*	1,140	*	1,140	*	*	*	1,140
1208	100	1,130	1,130	1,130	1,130	*	1,130	1,130	1,130	1,130	*	*	1,130
1212	100	*	1,300	1,300	*	*	1,300	*	1,300	*	*	*	1,300
1610	110	1,200	1,200	1,200	1,200	*	1,200	1,200	1,200	1,200	*	*	1,200
1616	110	*	1,440	1,440	*	*	1,440	*	1,440	*	*	*	1,440
2012	125	1,340	1,340	1,340	1,340	*	1,340	1,340	1,340	1,340	*	*	1,340
2020	125	*	1,590	1,590	*	*	1,590	*	1,590	*	*	*	1,590
2516	140	1,760	1,760	1,760	1,760	*	1,760	1,760	1,760	1,760	*	*	1,760
2525	140	*	2,130	2,130	*	*	2,130	*	2,130	2,130	*	*	2,130
3220	170	2,830	2,830	2,830	*	*	2,830	2,830	2,830	2,830	*	*	2,830
3232	170	*	3,380	*	*	*	*	*	3,380	*	*	*	*
4025	200	4,690	4,690	4,690	*	4,690	4,690	*	4,690	4,690	*	*	4,690
5032	240	*	*	*	*	*	*	*	*	*	*	*	*

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TUNGSTEN CARBIDE TIPPED TOOLS

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	*	1,760	1,760	*	*	1,760	*	1,760	*	*	*	*
	1010	150	*	1,890	1,890	*	*	1,890	*	1,890	*	*	*	1,890
	1212	180	*	2,060	2,060	2,060	*	2,060	*	2,060	*	*	*	2,060
	1616	210	*	2,470	*	*	2,470	2,470	*	2,470	2,470	*	*	2,470
	2020	250	*	3,020	3,020	*	*	3,020	*	3,020	*	*	*	3,020
	2525	300	*	5,650	5,650	*	*	5,650	*	5,650	5,650	*	*	5,650
	3232	355	7,350	7,350	*	*	*	7,350	*	7,350	*	*	*	7,350
	4040	400	*	10,700	*	*	*	*	*	*	*	*	*	*
	5050	450	*	*	*	*	*	*	*	*	*	*	*	*

ISO 8 (131) 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	*	1,630	*	*	*	1,630	*	1,630	*	*	*	1,630
	0010	150	*	1,760	*	*	*	1,760	*	1,760	*	*	*	1,760
	0012	180	*	1,890	*	*	*	1,890	*	1,890	*	*	*	1,890
	0016	210	*	2,160	*	*	*	2,160	*	2,160	*	*	*	2,160
	0020	250	*	2,640	*	*	*	2,640	*	2,640	*	*	*	2,640
	0025	300	*	5,000	*	*	*	5,000	*	5,000	*	*	*	*
	0032	355	*	6,400	*	*	*	*	*	*	*	*	*	*

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		*	1,760	*	*	*	*	*	*	*	*	*	*
	0808	125	1,760	1,760	1,760	1,760	*	1,760	*	1,760	1,760	*	*	1,760
	1010	150	1,890	1,890	1,890	*	*	1,890	*	1,890	1,890	*	*	1,890
	1212	180	2,060	2,060	2,060	2,060	*	2,060	*	2,060	2,060	*	*	2,060
	1414	180	*	2,470	*	*	*	*	*	*	*	*	*	*
	1616	210	2,470	2,470	2,470	2,470	*	2,470	*	2,470	2,470	*	*	2,470
	2020	250	3,020	3,020	3,020	3,020	*	3,020	*	3,020	3,020	*	*	3,020
	2525	300	5,650	5,650	5,650	5,650	*	5,650	*	5,650	5,650	*	*	5,650
	3232	355	7,350	7,350	*	7,350	*	7,350	*	7,350	7,350	*	*	*
	4040	400	*	10,700	*	*	*	*	*	*	*	*	*	*

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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	1,630	1,630	1,630	*	*	1,630	*	1,630	*	*	*	*
	0010	150	1,760	1,760	1,760	*	*	1,760	*	1,760	*	*	*	*
	0012	180	1,890	1,890	1,890	*	*	1,890	*	1,890	*	*	*	*
	0016	210	2,160	2,160	2,160	*	*	2,160	*	2,160	*	*	*	*
	0020	250	2,640	2,640	2,640	*	*	2,640	*	*	*	*	*	*
	0025	300	5,000	5,000	5,000	*	*	5,000	*	*	*	*	*	*
	0032	355	6,400	6,400	6,400	*	*	6,400	*	*	*	*	*	*

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	*	1,050	*	*	*	1,050	*	1,050	*	*	*	*
	1212	100	*	1,110	1,110	*	*	1,110	*	1,110	*	*	*	1,110
	1616	110	*	1,540	1,540	*	1,540	1,540	*	1,540	*	*	*	1,540
	2012		*	1,470	*	*	*	*	*	*	*	*	*	*
	2020	125	*	2,290	2,290	*	*	2,290	*	2,290	*	*	*	2,290
	2516		*	*	*	*	2,010	2,010	*	2,010	*	*	*	*
	2525	140	*	3,310	*	*	*	*	*	3,310	*	*	*	3,310
	3220		*	*	*	*	*	*	*	2,800	*	*	*	*
	3232	170	*	6,400	*	*	*	*	*	6,400	*	*	*	*
	4025		*	*	*	*	*	*	*	7,261	*	*	*	*

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		864				864		864				
	1212	100		954				954		954				954
	1616	110		1,270				1,270		1,270				1,270
	2012			1,650										
	2020	125		1,890				1,890		1,890				1,890
	2516			2,360				2,360		2,360				
	2525	140		2,920				2,920		2,920				2,920
	3232	170		5,050						5,050				

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		1,100										
	1010	50		1,100				1,100		1,100			1,100	1,100
	1212	60		1,260	1,260			1,260		1,260				1,260
	1616	90		1,760	1,760			1,760						1,760
	2020	120		2,800						2,800				
	2525	175		3,690										
	3/8"	50						1,100						
	1/2"	60						1,260						
	5/8"	90						1,760						
	3/4"	120						2,800						
	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								954				
	0010	50												
	0012	60						1,110						1,110
	0016	90												1,450
	0020	120								2,600				
	0025	175												
	3/8"	50												
	1/2"	60												
	5/8"	90												
	3/4"	120												2,600
	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		1,100						1,100				
	1212	60		1,260						1,260				1,260
	1616	90		1,760						1,760				
	2020	120		2,800						2,800				2,800
	2525	175		3,690						3,360				
	3/8"	50												
	1/2"	60												
	5/8"	90		1,760										
	3/4"	120		2,800										
	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		954					954					
	0010	50		954					954					
	0012	60		1,110					1,110					
	0016	90		1,450					1,450			1,450		
	0020	120										2,600		
	0025	175		3,370										

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		1,100										
	1010	50		1,100						1,100				
	1212	60		1,260				1,260						
	1616	90		1,760				1,760					1,760	
	2020	120		2,799						2,799				
	2525	175						3,690					3,690	

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								954				
	0010	50								954				
	0012	60												
	0016	90												1,450
	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		1,800	1,800			1,800		1,800				1,800
	1212	100		2,060	2,060			2,060		2,060				2,060
	1616	110		2,300	2,300			2,300		2,300				2,300
	2020	125		2,980	2,980	2,980		2,980		2,980				2,980
	2525	140		4,070	4,070			4,070						
	3232	170		5,800	5,800									
	4040	315		9,600										

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			1,260						1,260			
	1212	100			1,340									
	1610				1,540						1,540			
	1616	110			1,740									
	2012				1,790									
	2020	125			2,360									
	2516													
	2525	140			3,510						3,510			
	3232	170			4,650						4,650			

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		1,260	1,260			1,260		1,260	1,260			
	1212	100		1,340	1,340			1,340		1,340	1,340			1,333
	1610				1,540						1,540			
	1616	110		1,740	1,740			1,740		1,740	1,740			1,740
	2012				1,790						1,790			
	2020	125		2,360	2,360			2,360		2,360	2,360			2,360
	2516				2,130						2,130			
	2525	140		3,510	3,510			3,510		3,510	3,510			
	3232	170		4,650	4,650									

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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		2,080	2,080			2,080		2,080	2,082			2,082
	1212	100		2,350	2,350			2,350		2,350				2,355
	1616	110		2,550	2,550	2,550		2,550		2,550				2,555
	2020	125		3,130	3,130	3,130		3,130		3,130				
	2525	140		4,100	4,100	4,100		4,100		4,100				
	3232	170		6,200	6,200			6,200						

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		1,480				1,480						
	1212	100						1,750		1,750				
	1616	110		1,860	1,860			1,860		1,860				
	2020	125		2,070	2,070	2,070				2,070				
	2525	140		3,450				3,450		3,450				

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		954				954
	1212	100		1,050			1,050	1,050
	1616	110		1,470	1,470			1,470
	2012			1,400				
	2020	125		2,290	2,290			2,290
	2525	140		3,310		3,310		3,310
	3220			2,660				2,660
	3232	170		6,150			6,150	6,150
	4040	200					11,371	

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		954				954
	1212	100		1,170	1,170			1,170
	1616	110		1,280				1,280
	2012	125						
	2020	125		1,760				1,760
	2516	140		1,760				1,760
	2525	140			2,510			2,510
	3220	170		2,630				2,630
	3232	170		6,200				6,200

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		954				
	1212	100	1,180	1,180				1,180
	1610	110						
	1616	110	1,750	1,750				1,750
	2012	125						
	2020	125		2,630	2,630			2,630
	2516	140						
	2525	140		4,280	4,280			4,280
	3220	170						
	3232	170						8,450

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	1,170	1,170	1,170			1,170
	1212	100	1,340	1,340	1,340		1,340	1,340
	1610	110	1,140	1,140	1,140			
	1616	110	2,010	2,010	2,010			2,010
	2012	125	1,460	1,460	1,460			
	2020	125	2,940	2,940	2,940	2,940	2,940	2,940
	2516	140	2,200	2,200	2,200			
	2525	140	4,900	4,900	4,900	4,900	4,900	4,900
	3220	170	3,610		3,610			
	3232	170	10,700	10,700	10,700			10,700
	4025	200						
	4040	200	20,500	20,500	20,500			20,500
	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	954	CTT AS PER ISO 2 NO.111 16X16X135 RH P40	1,590
CTT ISO 6 NO.117 12X12 LH GR.K20 C TIP	1,050	CTT AS PER ISO 6 NO.117 16X16X135 LH P40	1,590
CTT ISO 6 NO.117 12X12 RH GR.K20 C TIP	1,050	CTT AS PER ISO 6 NO.117 16X16X135 RH P40	1,590
CTT AS PER ISO NO.165 10 X10ST GR.K20	1,260	CTT AS PER ISO NO.141 16X16X60 LH P40	1,690
CTT AS PER ISO NO.165 10 X10ST GR.P30	1,260	CTT AS PER ISO NO.165 16 X16ST GR.K20	1,740
CTT AS PER ISO NO.165 12 X12ST GR.K20	1,340	CTT AS PER ISO NO.165 16 X16ST GR.P30	1,740
CTT AS PER ISO NO.165 12 X12ST GR.P30	1,340	CTT TO IND2 12X12 RH P30 STD 60DEG	1,750
CTT AS PER ISO NO.165 12 X12ST GR.P40	1,340	CTT AS PER ISO NO.122 (IND - 1) 20 X20 RH P30	1,760
CTT AS PER ISO 2 NO.111 16X16 RH THM	1,451	CTT AS PER ISO 7 NO.150 20X16 LH GR.K20	1,760
CTT ISO 6 NO.117 16X16 LH GR.K20 C TIP	1,450	CTT AS PER ISO 2 NO.111 16X16X160 RH K10	1,820
CTT ISO 6 NO.117 16X16 RH GR.K20 C TIP	1,450	CTT AS PER ISO 7 NO.150 25X16X165 LH P40	1,940
CTT ISO 6 NO.117 16X16 LH GR.P30 C TIP	1,450	CTT AS PER ISO 7 NO.150 25X16X165 RH P40	1,940
CTT ISO 6 NO.117 16X16 RH GR.P30 C TIP	1,450	CTT ISO 6 NO.117 20X20 RH GR.K20 C TIP	2,010
CTT ISO 6 NO.117 16X16 RH GR.P40 C TIP	1,450	CTT ISO 6 NO.117 20X20 RH GR.P30 C TIP	2,010
CTT AS PER ISO NO.165 16 X10ST GR.P30	1,540	CTT IND2 20X20 60DEG RH K20	2,070
CTT AS PER ISO 2 NO.111 16X16X135 LH P40	1,590	CTT IND-2 RH 2020 60DEGP 30	2,070

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CUSTOMISED CTT

PRODUCT DESCRIPTION	PRICE (RS/NO)	PRODUCT DESCRIPTION	PRICE (RS/NO)
CTT AS PER IND-2 20X20 RH GR.P10	2,070	CTT AS PER ISO 2 NO.111 25X25X160 RH K10	3,340
CTT AS PER ISO NO.166 10X10 RH 55° P40	2,080	CTT AS PER ISO 6 NO.117 25X25X160 LH K10	3,340
CTT AS PER ISO 7 NO.150 25X16X160 RH K10	2,090	CTT AS PER ISO 6 NO.117 25X25X160 RH K10	3,340
CTT AS PER ISO NO.122 20X20X200 LH P30	2,180	CTT AS PER ISO 2 NO.111 25X25X165 LH P4	3,390
CTT AS PER ISO 6 NO.117 20X20X200 LH GR. P30	2,270	CTT AS PER ISO 2 NO.111 25X25X165 RH P40	3,390
CTT AS PER ISO 6 NO.117 20X20X10" length LH K20	2,290	CTT AS PER ISO 6 NO.117 25X25X165 LH P40	3,390
CTT AS PER ISO 6 NO.117 20X20X10"Length RH K20	2,290	CTT AS PER ISO 6 NO.117 25X25X165 RH P40	3,390
CTT AS PER ISO NO.166 12X12 RH 55° GR.P4	2,350	CTT AS PER ISO NO.165 25 X25ST GR.K20	3,510
CTT AS PER ISO NO.165 20 X20ST GR.K20	2,360	CTT AS PER ISO NO.165 25 X25ST GR.P30	3,510
CTT AS PER ISO NO.165 20 X20ST GR.P30	2,360	CTT AS PER ISO NO.166 25X25 RH 55° P40	4,100
CTT AS PER ISO NO.165 20 X20ST GR.P40	2,360	CTT AS PER ISO NO.166 25X25X180 RH P30	4,300
CTT AS PER ISO NO.122 (IND1) 25X25 80DEG P30	2,510	CTT AS PER ISO NO.165 32 X32ST GR.P30	4,650
CTT AS PER ISO NO.166 16X16 RH 55° P40	2,550	CTT ISO 6 NO.117 32X32 RH GR.K20 C TIP	5,200
CTT AS PER ISO 6 NO.117 25X25 RH THM	3,021	CTT AS PER ISO 163 25X25X165 ST K10	5,250
CTT AS PER ISO 1 NO.110 25X25 RH GR.P10	3,080	CTT AS PER ISO NO.166 32X32X200 RH K20	6,400
CTT AS PER ISO NO.166 20X20 RH 55° P40	3,130	CTT AS PER ISO 9 NO.135 32X32X160 LH K20	7,350
CTT ISO 2 NO.111 25X25X170 RH P30	3,200	CTT AS PER ISO NO.163 50X50X200 ST K20	20,800

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.

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	1,090	1,120	1,200
	MAM2	6MM X 11MM X 38MM X 3SHK	1,430	1,470	1,570
	AM1	6MM X 19MM X 60MM X 6SHK	1,690	1,640	1,860
	AM2	10MM X 20MM X 70MM X 6SHK	1,690	1,750	1,860
	AM3	12MM X 25MM X 75MM X 6SHK	2,330	2,400	2,560
	AM4	10MM X 12MM X 60MM X 6SHK	1,770	1,820	1,940
	AM5	16MM X 13MM X 63MM X 6SHK	2,540	2,620	2,860
	AM6	16MM X 16MM X 66MM X 6SHK	2,540	2,620	2,860
CYLINDRICAL RADIUS END 	MBM1	3MM X 16MM X 38MM X 3SHK	1,090	1,120	1,200
	MBM2	6MM X 13MM X 38MM X 3SHK	1,430	1,470	1,570
	BM1	6MM X 20MM X 50MM X 6SHK	1,720	1,770	1,880
	BM2	8MM X 20MM X 70MM X 6SHK	1,660	1,770	1,880
	BM3	10MM X 20MM X 70MM X 6SHK	2,070	2,130	2,280
	BM4	12MM X 20MM X 70MM X 6SHK	2,670	2,750	2,990
	BM5	16MM X 25MM X 75MM X 6SHK	4,080	4,610	4,580
	BM6	12MM X 25MM X 75MM X 6SHK	3,710	3,820	4,160
CYLINDRICAL 	MCM1	3MM X 16MM X 38MM X 3SHK	1,090	1,120	1,200
	MCM2	6MM X 6MM X 38MM X 3SHK	1,230	1,270	1,350
	MCM3	6MM X 13MM X 38MM X 3SHK	1,430	1,470	1,570
	CM1	4MM X 15MM X 50MM X 6SHK	1,430	1,470	1,570
	CM2	6MM X 20MM X 60MM X 6SHK	1,640	1,690	1,800
	CM3	8MM X 20MM X 70MM X 6SHK	1,860	1,930	2,050
	CM4	10MM X 20MM X 70MM X 6SHK	2,050	2,240	2,260
	CM5	12MM X 20MM X 70MM X 6SHK	2,570	2,970	2,880
	CM6	16MM X 25MM X 75MM X 6SHK	4,140	4,260	4,620
	CM7	12MM X 16MM X 65MM X 6SHK	2,520	2,600	2,880
	CM8	12MM X 25MM X 75MM X 6SHK	4,080	4,210	4,580
FLAME 	FM1	6MM X 15MM X 50MM X 6SHK	1,640	*	1,800
	FM2	8MM X 20MM X 70MM X 6SHK	1,690	*	1,860
	FM3	10MM X 25MM X 65MM X 6SHK	3,340	*	3,740
	FM4	12MM X 32MM X 82MM X 6SHK	4,030	*	4,540
CONE RADIUS 	MKM1	3MM X 8MM X 38MM X 3SHK	1,090	*	1,200
	MKM2	6MM X 12MM X 38MM X 3SHK	1,430	*	1,570
	KM1	10MM X 20MM X 65MM X 6SHK	1,610	*	1,770
	KM2	12MM X 20MM X 70MM X 6SHK	2,670	*	2,990
	KM3	16MM X 33MM X 75MM X 6SHK	3,690	*	4,130

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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	1,090	1,120	1,200
	MOM2	6MM X 10MM X 38MM X 3SHK	1,430	1,470	1,570
	OM1	8MM X 14MM X 60MM X 6SHK	1,830	1,880	2,010
	OM2	12MM X 20MM X 70MM X 6SHK	2,670	2,750	2,990
	OM3	16MM X 25MM X 75MM X 6SHK	4,130	4,460	4,610
	OM4	6MM X 10MM X 60MM X 6SHK	1,830	1,880	2,010
RIM 	RM1	10MM X 2MM X 50MM X 6SHK	1,610	*	1,770
	RM2	20MM X 6MM X 60MM X 6SHK	3,000	*	3,310
	RM3	12MM X 10MM X 60MM X 6SHK	2,670	*	2,940
BALL 	MSM1	4MM X 3MM X 38MM X 3SHK	1,270	*	1,390
	MSM2	5MM X 4MM X 38MM X 3SHK	1,320	*	1,450
	SM1	6MM X 5MM X 50MM X 6SHK	1,570	*	1,730
	SM2	8MM X 7MM X 50MM X 6SHK	1,660	1,760	1,830
	SM3	10MM X 9MM X 60MM X 6SHK	1,660	*	1,830
	SM4	12MM X 11MM X 60MM X 6SHK	2,080	*	2,290
	SM5	16MM X 14MM X 65MM X 6SHK	2,820	*	3,170
TREE POINTED END 	MTM1	3MM X 13MM X 38MM X 3SHK	1,090	1,120	1,200
	MTM2	3MM X 16MM X 38MM X 3SHK	1,090	1,120	1,200
	MTM3	6MM X 13MM X 38MM X 3SHK	1,430	1,470	1,570
	TM1	6MM X 20MM X 70MM X 6SHK	1,730	1,780	1,900
	TM2	10MM X 20MM X 70MM X 6SHK	2,070	2,130	2,280
	TM3	12MM X 25MM X 75MM X 6SHK	2,490	2,620	2,740
	TM4	16MM X 30MM X 80MM X 8SHK	3,690	3,800	4,130
TREE RADIUS END 	TBM1	6MM X 20MM X 70MM X 6SHK	1,730	*	1,900
	TBM2	10MM X 20MM X 70MM X 6SHK	2,070	*	2,280
	TBM3	12MM X 25MM X 75MM X 6SHK	2,620	*	2,940
INVERTED CONE 	MIM1	3MM X 8MM X 38MM X 3SHK	1,090	*	1,200
	MIM2	6MM X 8MM X 38MM X 3SHK	1,230	*	*
SET OF 5 PIECES		AM3,BM4,CM5,TM3,SM4	*	*	13,200

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CUSTOMISED TCRB

Product Description	PRICE (RS/NO)
Rotary Burr Tree Pointed End MTM1 Long-3x13x75x3 S	1,400
Rotary Burr Cylindrical Radius 4X18X51X4 STD.CUT	1,230
Rotary Burr Cylindrical Std. MCM1 DOUBLE CUT 3X14X38X3 (TIN)	1,322
Rotary Burr Cylindrical Radius 5X19X50X5 STD.CUT	1,412
Rotary Burr Tree Radius End MTB2 DOUBLE CUT 5X12.7X38X5 (TIN)	1,493
Rotary Burr Tree Pointed End TM1X125 LONG STD	1,510
Rotary Burr Cylindrical Radius CYLINDRICAL RADIUS END BM2 -K20 STD	1,658
ROTARY BURR Standard Cut Uncoated Ball SM2(8X 60) - Special	1,659
Rotary Burr Cone Radius KM1-10X20X65X6-18T	1,685
Rotary Burr Cylindrical Radius MBM2 DOUBLE CUT 5X12.7X38X4 (TIN)	1,735
Rotary Burr Cylindrical Std. MCM3 DOUBLE CUT 5X12.7X38X3 (TIN)	1,735
Rotary Burr Cylindrical Radius BM2 - 8 X 20 X 125 X 6 SPL . CUT	1,823
Rotary Burr Conical AM1 DOUBLE CUT (TIN)	1,863
Rotary Burr Cylindrical Radius CYLINDRICAL RADIUS BM2 DIAMOND CUT	1,934
ROTARY BURR Standard Cut Uncoated CONICAL AM3-12.7 20TEETH - Special	2,330
Rotary Burr Tree Pointed End TM3-K20/20T STD. C	2,482
Rotary Burr Tree Pointed End TM2X125 LONG STD.	2,528
ROTARY BURR Standard Cut Uncoated Cone Radius KM2 - Special	2,671
Rotary Burr Cylindrical Radius BM3 LONG 10 MM X 20 MM X 200 MM X 6	2,693
Rotary Burr Tree Radius End TBM3 DOUBLE CUT 12.7X25X69X6 (TIN)	3,232
Rotary Burr Cylindrical Radius BM4 LONG 12MM X 20MM X 200MM X 6SHK	3,952
ROTARY BURR Standard Cut Uncoated Ball BALL 30X28X70X8SH - Special	33,000

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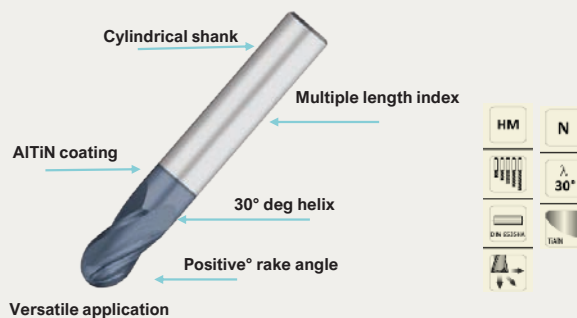
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Solid Carbide Endmill Maxx series

Maxx series for Hardness < 45HRc

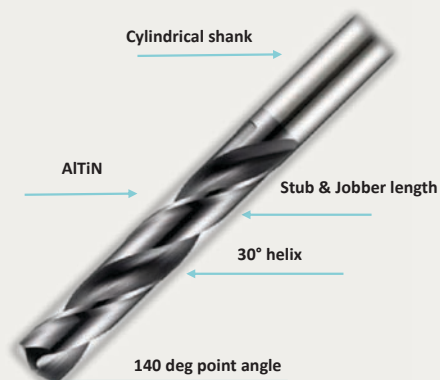
Maxx Series Up to 45HRc General purpose PMK

- EM 0.5 to 25mm Maxx EM (2FL & 4FL) Std , long , Ex long
- Ball EM 1.0 to 20mm Maxx series (2FL & 4FL, Std, Long & ex long
- 4FL & 2FL for various milling operation
- Optimised flute design for easy chip evacuation
- AlTiN coating for heat stability and oxidation resistance
- Suitable for dry machining in ISO P and K
- Material Group PMK Versatile



Solid Carbide Drills

- Wide range diameters in Jobber & Stub series range - 1.0 mm to 20.0 mm
- Coating upgraded from TiAlN to AlTiN, and the higher Al content increased wear resistance at elevated temperatures.
- Point angle 140 deg, lower cutting forces
- Suitable to use at higher cutting speeds
- Self-centering geometry for improved hole position in CNC and conventional machines
- High-quality, precise holes at high speeds and feeds
- Long tool life due to reinforced core design.
- Shank DIN 338 & DIN1897
- Material group (WMG) PMK Versatile application



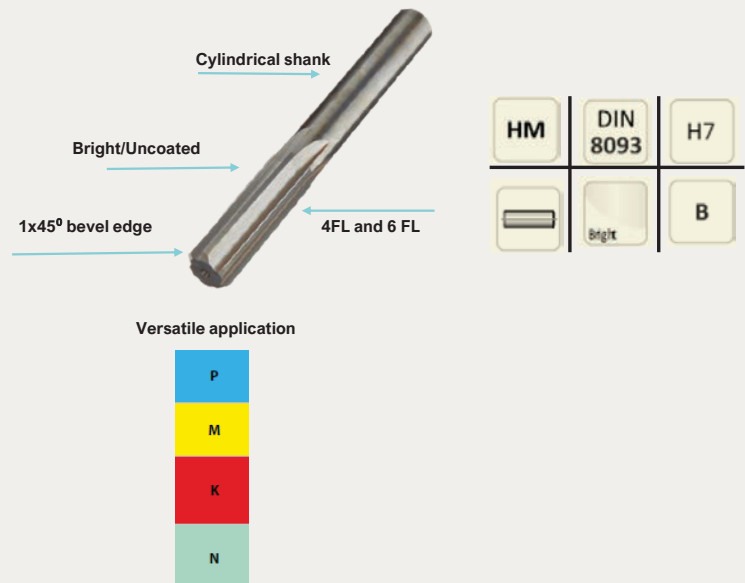
		DC h7
HM	DIN 338	4xD
		2.5xD

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

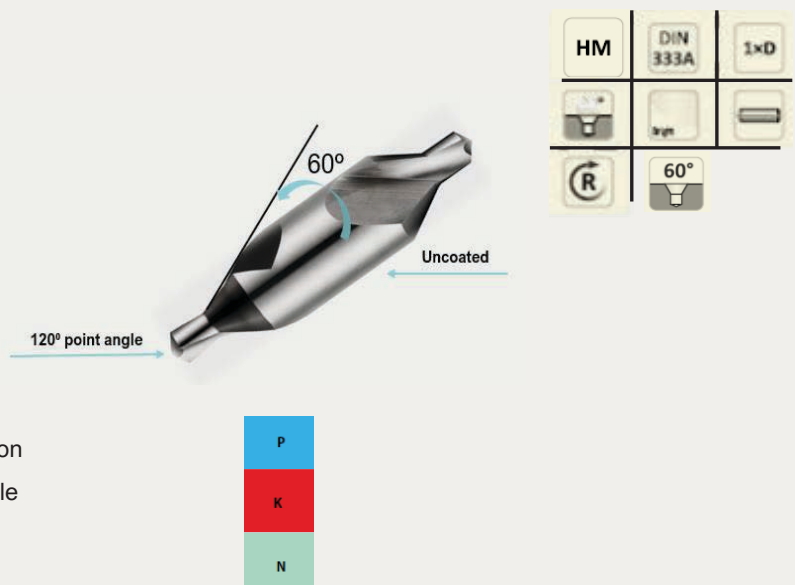


Solid Carbide Centre drills

- DIN333 Type A - (Dia 2 mm to 8 mm)
- BS328 Type A - (BS1 to BS6)

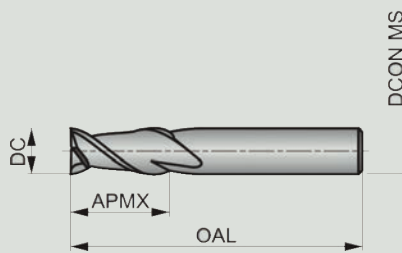
Feature & benefits

- 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



2 FLUTE SOLID CARBIDE END MILL

2-flute with variety of length design square type with 35° helix & 10° rake design for milling standard slots. AlTiN coating improves performance in wide range of applications with h10 tolerance.

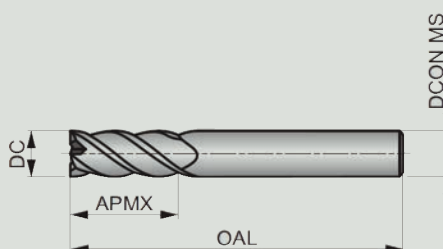


DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
0.50	4	1.00	50	4,020
0.60	4	1.20	50	4,020
0.70	4	1.40	50	4,020
0.80	4	1.60	50	4,020
0.90	4	1.80	50	4,020
1.00	3	3.00	38	2,400
1.00	4	3.00	50	2,400
1.50	3	6.00	38	2,400
1.50	4	4.00	50	2,400
2.00	3	9.00	38	2,400
2.00	4	6.00	50	2,400
2.50	3	9.00	38	2,400
3.00	3	12.00	38	2,400

DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
3.50	4	14.00	50	2,970
4.00	4	14.00	50	2,970
4.50	5	16.00	50	3,740
5.00	5	20.00	50	3,740
5.50	6	20.00	50	3,900
6.00	6	20.00	60	3,900
8.00	8	20.00	60	4,320
10.00	10	25.00	75	8,200
12.00	12	25.00	75	9,500
14.00	14	25.00	75	16,700
16.00	16	32.00	89	18,100
20.00	20	38.00	100	38,400

4 FLUTE SOLID CARBIDE END MILL STANDARD

4-flute standard length design square type with 35° helix & 10° rake designed for multi applications. AlTiN coating improves performance in wide range of applications with h10 tolerance.



DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
1.00	3	3.00	38	2,400
1.50	3	6.00	38	2,400
2.00	3	9.00	38	2,400
2.50	3	9.00	38	2,400

DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
3.00	3	12.00	38	2,400
3.00	6	20.00	60	2,400
3.50	4	14.00	50	2,970
4.00	4	14.00	50	2,970

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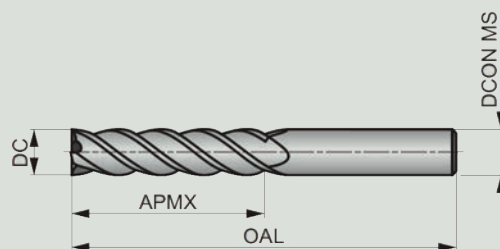
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DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
4.50	5	16.00	50	3,740
5.00	5	20.00	50	3,740
5.50	6	20.00	50	3,900
6.00	6	20.00	60	3,900
7.00	7	20.00	60	4,320
7.00	8	30.00	83	4,530
8.00	8	20.00	60	4,530
9.00	9	25.00	75	8,200
9.00	10	35.00	89	8,600
10.00	10	25.00	75	8,600
10.50	12	25.00	75	9,500
11.00	12	25.00	75	9,500
11.50	12	25.00	75	9,500
12.00	12	25.00	75	9,500

DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
12.50	13	25.00	75	16,700
13.00	14	25.00	75	16,700
14.00	14	25.00	75	16,700
15.00	16	32.00	89	18,100
16.00	16	32.00	100	22,800
17.00	17	38.00	102	32,100
18.00	18	38.00	100	32,100
18.00	20	38.00	100	32,100
19.00	20	38.00	102	38,400
20.00	20	38.00	100	38,400
22.00	22	40.00	100	51,100
24.00	24	40.00	100	64,900
25.00	25	40.00	100	64,900

4 FLUTE SOLID CARBIDE END MILL LONG

4-flute long length design square type with 35° helix & 10° rake designed for multi applications. AlTiN coating improves performance in wide range of applications with h10 tolerance.

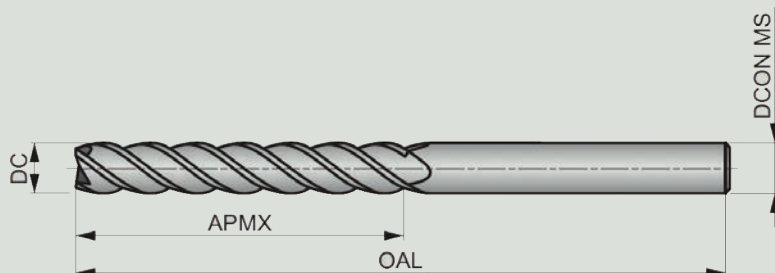


DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
1.00	4	3.00	50	2,260
3.00	3	20.00	60	4,320
4.00	4	20.00	75	4,870
5.00	5	25.00	75	5,400

DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
6.00	6	30.00	75	5,650
8.00	8	40.00	100	6,300
10.00	10	40.00	100	9,900
12.00	12	50.00	100	14,300

4 FLUTE SOLID CARBIDE END MILL EXTRA LONG

4-flute extra long length design square type with 35° helix & 10° rake designed for multi applications. AlTiN coating improves performance in wide range of applications with h10 tolerance.

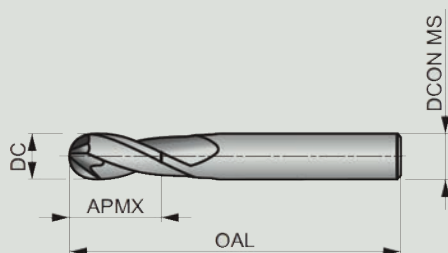


DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
3.00	3	20.00	75	4,750
4.00	4	40.00	100	6,250
5.00	5	40.00	100	6,250
6.00	6	40.00	150	6,600
8.00	8	70.00	150	15,100
10.00	10	75.00	150	22,700

DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
12.00	12	75.00	150	27,800
14.00	14	75.00	150	35,800
16.00	16	75.00	150	41,800
18.00	18	75.00	150	52,400
20.00	20	100.00	150	69,500

2 FLUTE SOLID CARBIDE BALL NOSE END MILL STANDARD

2-flute standard length design ball nose with 30° helix & 10° rake designed for contouring applications. AlTiN coating improves performance in wide range of applications with h10 tolerance.



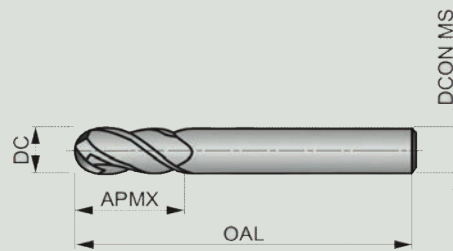
DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
1.00	3	9.00	38	3,030
1.50	3	9.00	38	3,030
2.00	3	9.00	38	3,030
2.50	3	9.00	38	3,030
3.00	3	9.00	38	3,030
4.00	4	14.00	50	3,570
5.00	5	16.00	50	4,490

DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
6.00	6	20.00	60	4,680
8.00	8	20.00	60	5,300
10.00	10	25.00	75	9,800
12.00	12	25.00	75	11,400
16.00	16	40.00	100	21,700
20.00	20	40.00	100	46,100

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4 FLUTE SOLID CARBIDE BALL NOSE END MILL STANDARD

4-flute standard length design ball nose with 30° helix & 10° rake designed for contouring applications. AlTiN coating improves performance in wide range of applications with h10 tolerance.

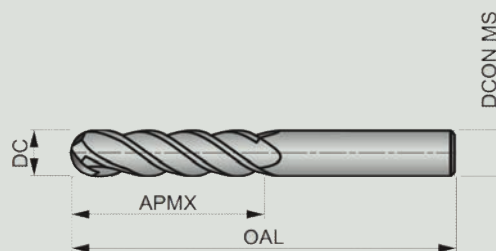


DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
1.00	3	3.00	38	3,030
1.50	3	5.00	38	3,030
2.00	3	7.00	38	3,030
2.50	3	7.00	38	3,030
3.00	3	9.00	38	3,030
4.00	4	14.00	50	3,570
5.00	5	16.00	50	4,490
6.00	6	20.00	60	4,680
7.00	7	20.00	60	5,300

DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
8.00	8	20.00	60	5,300
9.00	10	25.00	70	9,800
10.00	10	25.00	75	9,800
12.00	12	25.00	75	11,400
14.00	14	25.00	75	20,100
16.00	16	32.00	89	21,700
18.00	18	38.00	102	32,000
20.00	20	38.00	102	46,100

4 FLUTE SOLID CARBIDE BALL NOSE END MILL LONG

4-flute long length design ball nose with 30° helix & 10° rake designed for contouring applications. AlTiN coating improves performance in wide range of applications with h10 tolerance.



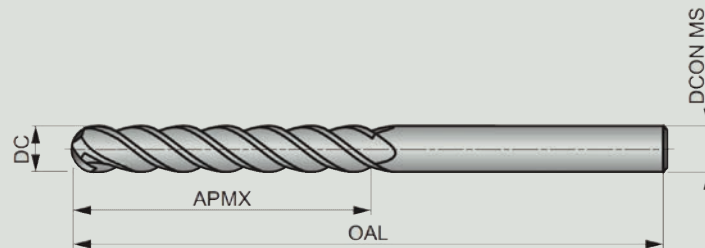
DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
3.00	3	20.00	75	5,200
4.00	4	20.00	75	5,900
5.00	6	30.00	75	6,500
6.00	6	30.00	75	6,850
8.00	8	29.00	100	7,500

DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
10.00	10	40.00	100	12,000
12.00	12	50.00	100	17,100
16.00	16	50.00	100	50,100
20.00	20	75.00	150	83,400

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4 FLUTE SOLID CARBIDE BALL NOSE END MILL EXTRA LONG

4-flute extra long length design ball nose with 30° helix & 10° rake designed for contouring applications. AlTiN coating improves performance in wide range of applications with h10 tolerance.



DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
3.00	3	20.00	60	5,200
6.00	6	50.00	100	7,200
8.00	8	40.00	100	15,200
10.00	10	75.00	150	27,200

DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
12.00	12	75.00	150	33,400
14.00	14	75.00	150	33,400
16.00	16	75.00	150	34,400
18.00	18	75.00	150	59,500

CUSTOMISED SOLID CARBIDE ENDMILLS

PRODUCT DESCRIPTION	PRICE (RS)/NO
HP SCEM 7X12X50X8 CR.1.5-AITiN COATED	5,737
SCEM 12X25X75X12 CR.0.40 4FL AITiN	12,046
SCEM 4X25X74X4 CR.1.0 4FL AITiN	6,438
SCEM 8X16X100X8 CR0.5 4F-60 HRC	15,455
SCEM 10X20X100X10 CR0.5 4F-60 HRC	18,743
SCEM 12X25X100X12 CR0.5 4F-60 HRC	22,813
SCEM 5.0X16X50X5SHKX4FL B/N SS-HARDCUT	4,490
SCEM 6.0X20X60X6SHK 4FL B/N SS-HARDCUT	5,126
SCEM 1.0X3XD4X50 4F For TITANIUM	3,270
SCEM 3.0X8X50X4 4F AITiN	2,603
SCEM 8 X 25 X 75 X 8SHK X 4FL AITiN	5,678
SCEM 16X50X100X16SHKX4FL AITiN	22,800
SCEM 25X75X150X25 6FL AITiN	91,669
SCEM 6X75X150X6 4FL AITiN	12,493
SCEM 6x75x125 4FL AITiN	11,284
SCEM 6x75x150 4FL AITiN	13,247
SCEM LONG 4X4X20X60 4 F AITiN	4,871
SCEM LONG 5X6X25X75 4 F AITiN	5,431
SCEM 12X12X75X150 4FL 55 HRC	38,158

PRODUCT DESCRIPTION	PRICE (RS)/NO
SC BALL NOSE LONG 8X8X50X100 4 F AITiN	9,354
SC BALL NOSE LONG 10X10X50X100 4 F TiAl	12,530
SCEM 3 X 12 X 38 X 3SHK X 2FL B/N AITiN	2,697
SCEM 4.0X14X50X4SHKX4FL B/N SS-HARDCUT	3,571
SCEM 3 X 20 X 60 X 3SHK X 4FL B/N AITiN	5,177
SCEM 8 X 20 X 64 X 8SHK X 4FL B/N AITiN	5,545
SCEM 6.7X20X60X8 SHK 4FL AITiN	4,429
SCEM 7.5X20X8X64 4FL AITiN	4,530
SCEM 9.5X25X10X75 4FL AITiN	8,600
SCEM 9.5 X 20 X 75 X 10SHK 4FL AITiN	8,167
SCEM 15 X 40 X 100 X 15SHK X 4FL AITiN	34,247
SCEM LONG 8X8X50X100 4 F AITiN	7,561
SCEM 2.5X8X50X4 4F AITiN	2,603
SCEM LONG 10X10X50X100 4 F AITiN	11,930
SCEM 16X16X32X89 4F AITiN	18,100
MXS SCEM 6.5X20X64X6.5 AITiN	4,320
MXS SCEM 8.5X20X64X8.5 AITiN	6,842
MXS SCEM 11X25X75X11.0 4FL AITiN	9,500

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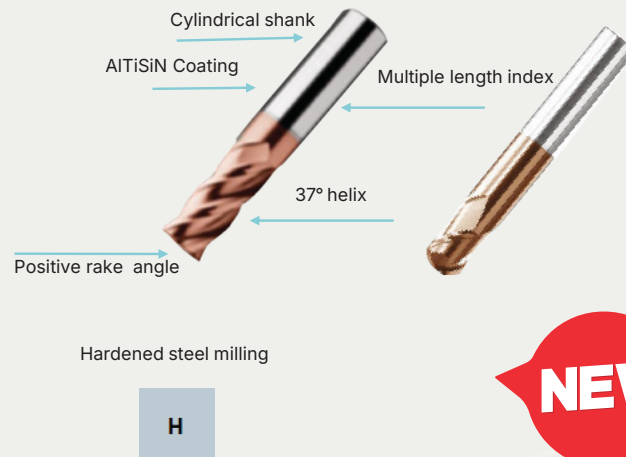
* Please contact our team for prices

PREMIUM MAXX PRO SOLID CARBIDE ENDMILLS

Maxx Pro Series

Maxx Pro series 45-60HRC

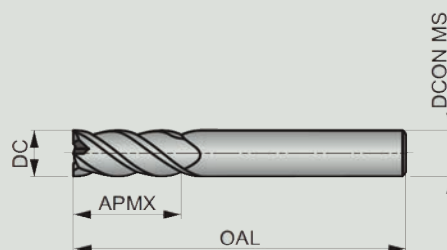
- End Mill 1.0 to 16mm Maxx Pro EM 4FL Std & long
- Ball End Mill 1.0 to 16 mm Maxx Pro (2FL & 4FL, Std, Long & ex long)
- AlTiSiN coating for extreme hardness and wear resistance
- Suitable for dry milling
- Variable flute indexing for improving wall finish
- Optimised geometry for plunging and interpolation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



NEW

4 FLUTE SC SQ. END MILL MAXX PRO - STANDARD LENGTH (45 TO 60 HRC)

4-flute standard length design square type endmill with unequal helix & 6° rake designed for contouring applications. AlTiSiN coating increases tool life when machining hardened materials from 45 to 60 HRC.



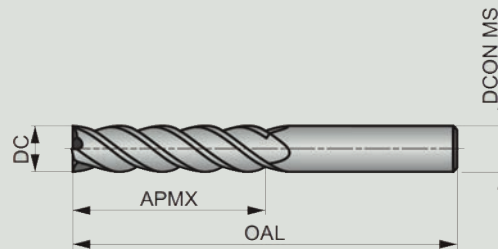
DIA (MM)	SH.DIA	FL	OAL	PRICE (RS)/NO	DIA (MM)	SH.DIA	FL	OAL	PRICE (RS)/NO
1.00	4	3.00	50	3,570	5.00	6	13.00	50	5,400
1.50	4	4.00	50	3,570	6.00	6	15.00	55	5,850
2.00	4	6.00	50	5,400	8.00	8	20.00	60	7,800
2.50	4	6.00	50	5,400	10.00	10	25.00	75	12,200
3.00	4	8.00	50	5,400	12.00	12	28.00	85	16,100
4.00	4	11.00	50	5,400	16.00	16	32.00	100	22,800

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4 FLUTE SC SQ. END MILL MAXX PRO - LONG LENGTH (45 TO 60 HRC)

4-flute long length design square type endmill with unequal helix & 6° rake designed for contouring applications. AlTiSiN coating increases tool life when machining hardened materials from 45 to 60 HRC.

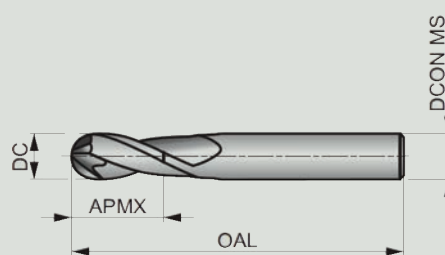


DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
4.00	4	11.00	75	7,900
5.00	6	13.00	75	7,900
6.00	6	15.00	75	8,200
8.00	8	20.00	100	14,000

DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
10.00	10	25.00	100	16,100
12.00	12	30.00	100	22,900
16.00	16	50.00	150	49,800

2 FLUTE SC BALL NOSE MAXX PRO - STANDARD LENGTH (45 TO 60 HRC)

2-flute standard length design ball nose with unequal helix & 6° rake designed for contouring applications. AlTiSiN coating increases tool life when machining hardened materials from 45 to 60 HRC.



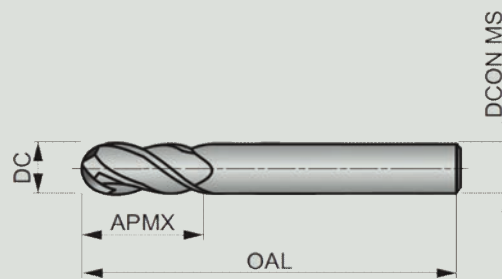
DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
2.00	4	8.00	50	4,890
3.00	4	6.00	50	4,890
4.00	4	8.00	50	4,890
5.00	6	10.00	50	10,000

DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
6.00	6	12.00	50	10,000
8.00	8	16.00	60	12,800
10.00	10	20.00	75	18,900
12.00	12	25.00	75	25,400

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4 FLUTE SC BALL NOSE MAXX PRO - STANDARD LENGTH (45 TO 60 HRC)

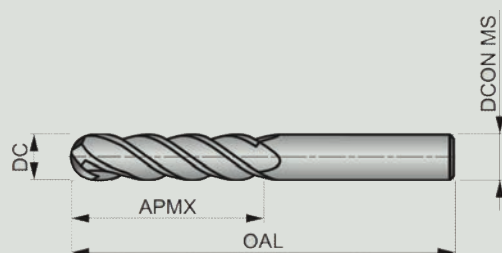
4-flute standard length design ball nose with unequal helix & 6° rake designed for contouring applications. AlTiSiN coating increases tool life when machining hardened materials from 45 to 60 HRC.



DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)	DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
1.00	4	2.00	50	5,150	5.00	6	10.00	50	6,450
1.50	4	3.00	50	5,150	6.00	6	12.00	50	6,450
2.00	4	4.00	50	5,150	8.00	8	16.00	60	9,400
2.50	4	5.00	50	5,150	8.00	8	16.00	75	10,900
3.00	4	6.00	50	5,150	10.00	10	20.00	75	13,800
4.00	4	8.00	50	5,150	12.00	12	25.00	75	18,500

4 FLUTE SC BALL NOSE MAXX PRO - LONG LENGTH (45 TO 60 HRC)

4-flute long design ball nose with unequal helix & 6° rake designed for contouring applications. AlTiSiN coating increases tool life when machining hardened materials from 45 to 60 HRC.

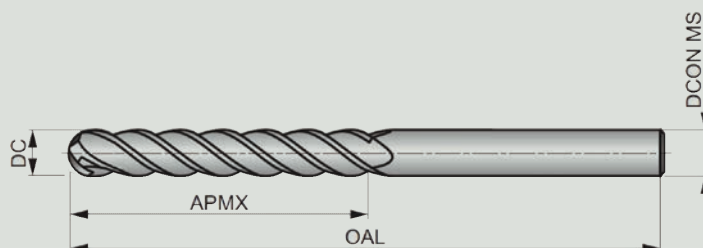


DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)	DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
4.00	4	10.00	75	8,150	10.00	10	20.00	100	19,000
5.00	6	10.00	75	8,600	12.00	12	25.00	100	23,300
6.00	6	12.00	75	8,600	16.00	16	40.00	150	58,600
8.00	8	16.00	100	12,800					

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4 FLUTE SC BALL NOSE MAXX PRO - EXTRA LONG LENGTH (45 TO 60 HRC)

4-flute extra long design ball nose with unequal helix & 6° rake designed for contouring applications. AlTiSiN coating increases tool life when machining hardened materials from 45 to 60 HRC.



DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
4.00	4	8.00	100	8,300
6.00	6	12.00	100	9,400
6.00	6	30.00	150	14,100

DC (MM)	DCON MS (MM)	APMX (MM)	OAL (MM)	PRICE (RS/NO)
8.00	8	16.00	150	17,000
10.00	10	40.00	150	23,200
12.00	12	40.00	150	29,100

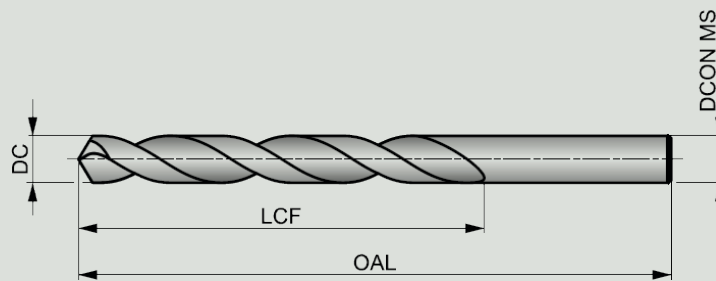
CUSTOMISED MAXX PRO SOLID CARBIDE ENDMILLS (UPTO 55 HRC)

PRODUCT DESCRIPTION	PRICE (RS)/NO
Maxxpro EM 4x6x10x55 4F-55 HRC	8,709
Maxxpro EM 8x8x20x65 4F-55 HRC	11,227
Maxxpro EM 10x10x25x75 4F-55 HRC	16,733
Maxxpro Long EM 4x4x11x100 4F-55 HRC	8,025
Maxxpro Long EM 6x6x15x100 4F-55 HRC	9,111

PRODUCT DESCRIPTION	PRICE (RS)/NO
Maxxpro Long EM 6x6x40x150 4F-55 HRC	13,670
Maxxpro Long EM 8x8x20x75 4F-55 HRC	12,900
Maxxpro Long EM 8x8x40x150 4F-55 HRC	15,461
Maxxpro Long EM 10x10x50x150 4F-55 HRC	18,333
Maxxpro Long EM 14x14x50x150 4F-55 HRC	74,244

SOLID CARBIDE JOBBER DRILL

Miranda Maxx Solid Carbide Jobber Drills are designed to deliver exceptional performance in high-speed machining applications. Featuring a 140° point angle, these drills ensure superior centering and reduced thrust force, making them ideal for wide drilling application. AlTiN coating enhances thermal stability, wear resistance and extending tool life.



DC (MM)	DCON MS (MM)	LCF (MM)	OAL (MM)	LS (MM)	PRICE (RS/NO)
1.00	1.00	12.0	32.0	20.0	2,270
1.10	1.10	14.0	36.0	22.0	2,430
1.20	1.20	16.0	38.0	22.0	2,430
1.30	1.30	16.0	38.0	22.0	2,430
1.40	1.40	18.0	40.0	22.0	2,430
1.50	1.50	18.0	40.0	22.0	2,430
1.60	1.60	20.0	43.0	23.0	2,780
1.70	1.70	20.0	43.0	23.0	2,780
1.80	1.80	22.0	46.0	24.0	2,780
1.90	1.90	22.0	46.0	24.0	2,780
2.00	2.00	24.0	49.0	25.0	2,780
2.10	2.10	24.0	49.0	25.0	2,780
2.20	2.20	27.0	53.0	26.0	2,780
2.30	2.30	27.0	53.0	26.0	2,780
2.40	2.40	30.0	57.0	27.0	2,780
2.50	2.50	30.0	57.0	27.0	2,780
2.60	2.60	30.0	57.0	27.0	3,100
2.70	2.70	33.0	61.0	28.0	3,100
2.80	2.80	33.0	61.0	28.0	3,100
2.90	2.90	33.0	61.0	28.0	3,100
3.00	3.00	33.0	61.0	28.0	3,100
3.10	3.10	36.0	65.0	29.0	3,380
3.20	3.20	36.0	65.0	29.0	3,380
3.30	3.30	36.0	65.0	29.0	3,380

DC (MM)	DCON MS (MM)	LCF (MM)	OAL (MM)	LS (MM)	PRICE (RS/NO)
3.40	3.40	39.0	70.0	31.0	3,380
3.50	3.50	39.0	70.0	31.0	3,380
3.60	3.60	39.0	70.0	31.0	4,160
3.70	3.70	39.0	70.0	31.0	4,160
3.80	3.80	43.0	75.0	32.0	4,160
3.90	3.90	43.0	75.0	32.0	4,160
4.00	4.00	43.0	75.0	32.0	4,160
4.10	4.10	43.0	75.0	32.0	4,460
4.20	4.20	43.0	75.0	32.0	4,460
4.30	4.30	24.0	58.0	34.0	4,460
4.40	4.40	47.0	80.0	33.0	4,460
4.50	4.50	47.0	80.0	33.0	4,460
4.60	4.60	47.0	80.0	33.0	5,100
4.70	4.70	47.0	80.0	33.0	5,100
4.80	4.80	47.0	80.0	33.0	5,100
4.90	4.90	52.0	86.0	34.0	5,100
5.00	5.00	52.0	86.0	34.0	5,100
5.10	5.10	52.0	86.0	34.0	5,900
5.20	5.20	52.0	86.0	34.0	5,900
5.30	5.30	52.0	86.0	34.0	5,900
5.40	5.40	57.0	93.0	36.0	5,900
5.50	5.50	57.0	93.0	36.0	5,900
5.60	5.60	57.0	93.0	36.0	6,150
5.70	5.70	57.0	93.0	36.0	6,150

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DC (MM)	DCON MS (MM)	LCF (MM)	OAL (MM)	LS (MM)	PRICE (RS/NO)
5.80	5.80	57.0	93.0	36.0	6,150
5.90	5.90	57.0	93.0	36.0	6,150
6.00	6.00	57.0	93.0	36.0	6,150
6.10	6.10	63.0	101.0	38.0	6,900
6.20	6.20	63.0	101.0	38.0	6,900
6.30	6.30	63.0	101.0	38.0	6,900
6.40	6.40	63.0	101.0	38.0	6,900
6.50	6.50	63.0	101.0	38.0	6,900
6.60	6.60	63.0	101.0	38.0	7,600
6.70	6.70	69.0	109.0	40.0	7,600
6.80	6.80	69.0	109.0	40.0	7,600
6.90	6.90	69.0	109.0	40.0	7,600
7.00	7.00	69.0	109.0	40.0	7,600
7.10	7.10	69.0	109.0	40.0	8,300
7.20	7.20	69.0	109.0	40.0	8,300
7.30	7.30	69.0	109.0	40.0	8,300
7.40	7.40	69.0	109.0	40.0	8,300
7.50	7.50	69.0	109.0	40.0	8,300
7.60	7.60	75.0	117.0	42.0	9,300
7.70	7.70	75.0	117.0	42.0	9,300
7.80	7.80	75.0	117.0	42.0	9,300
7.90	7.90	75.0	117.0	42.0	9,300
8.00	8.00	75.0	117.0	42.0	9,300
8.10	8.10	75.0	117.0	42.0	10,200
8.20	8.20	75.0	117.0	42.0	10,200
8.30	8.30	75.0	117.0	42.0	10,200
8.40	8.40	75.0	117.0	42.0	10,200
8.50	8.50	75.0	117.0	42.0	10,200
8.60	8.60	81.0	125.0	44.0	11,600
8.70	8.70	81.0	125.0	44.0	11,600
8.80	8.80	81.0	125.0	44.0	11,600
8.90	8.90	81.0	125.0	44.0	11,600
9.00	9.00	81.0	125.0	44.0	11,600
9.10	9.10	81.0	125.0	44.0	13,200
9.20	9.20	81.0	125.0	44.0	13,200
9.30	9.30	81.0	125.0	44.0	13,200
9.40	9.40	81.0	125.0	44.0	13,500
9.50	9.50	81.0	125.0	44.0	13,500
9.60	9.60	87.0	133.0	46.0	15,200
9.70	9.70	87.0	133.0	46.0	15,200
9.80	9.80	87.0	133.0	46.0	15,200

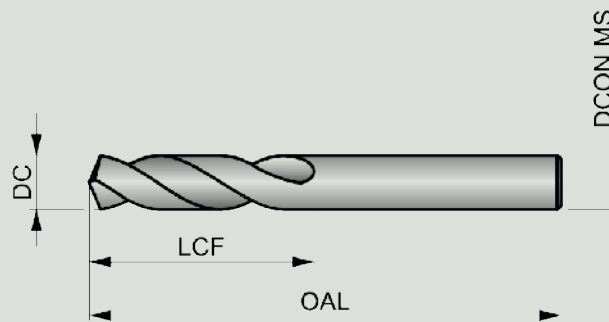
DC (MM)	DCON MS (MM)	LCF (MM)	OAL (MM)	LS (MM)	PRICE (RS/NO)
9.90	9.90	87.0	133.0	46.0	16,100
10.00	10.00	87.0	133.0	46.0	16,100
10.10	10.10	87.0	133.0	46.0	17,000
10.20	10.20	87.0	133.0	46.0	17,000
10.30	10.30	87.0	133.0	46.0	17,000
10.40	10.40	87.0	133.0	46.0	17,000
10.50	10.50	87.0	133.0	46.0	17,000
10.60	10.60	87.0	133.0	46.0	20,200
10.70	10.70	94.0	142.0	48.0	20,200
10.80	10.80	94.0	142.0	48.0	20,200
10.90	10.90	94.0	142.0	48.0	20,900
11.00	11.00	94.0	142.0	48.0	20,900
11.20	11.20	94.0	142.0	48.0	23,100
11.50	11.50	94.0	142.0	48.0	23,100
11.70	11.70	101.0	151.0	50.0	23,100
11.80	11.80	94.0	142.0	48.0	23,100
12.00	12.00	101.0	151.0	50.0	23,100
12.20	12.20	101.0	151.0	50.0	28,900
12.50	12.50	101.0	151.0	50.0	28,900
12.70	12.70	101.0	151.0	50.0	28,900
12.80	12.80	101.0	151.0	50.0	28,900
13.00	13.00	101.0	151.0	50.0	28,900
13.20	13.20	108.0	160.0	52.0	36,100
13.50	13.50	108.0	160.0	52.0	36,100
13.80	13.80	108.0	160.0	52.0	36,100
14.00	14.00	108.0	160.0	52.0	36,100
14.50	14.50	114.0	169.0	55.0	40,800
14.80	14.80	114.0	169.0	55.0	43,800
15.00	15.00	120.0	178.0	58.0	43,800
15.50	15.50	120.0	178.0	58.0	53,600
15.80	15.80	120.0	178.0	58.0	53,600
16.00	16.00	120.0	178.0	58.0	53,600
16.50	16.50	125.0	184.0	59.0	68,100
17.00	17.00	125.0	184.0	59.0	70,600
17.50	17.50	130.0	191.0	61.0	73,400
18.00	18.00	130.0	191.0	61.0	73,400
18.50	18.50	135.0	198.0	63.0	91,800
19.00	19.00	135.0	198.0	63.0	91,800
19.50	19.50	140.0	205.0	65.0	96,800
20.00	20.00	140.0	205.0	65.0	96,800

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SOLID CARBIDE STUB DRILL

Miranda Maxx Solid Carbide Stub Drills are engineered for outstanding performance in high-speed machining environments. With a 140° point angle, they offer excellent centering capability and reduced cutting forces, making them suitable for a wide range of drilling operations. AlTiN coating enhances thermal stability, wear resistance and extending tool life.



DC (MM)	DCON MS (MM)	LCF (MM)	OAL (MM)	LS (MM)	PRICE (RS/NO)
1.00	1.00	6.0	26.0	20.0	2,080
1.10	1.10	7.0	28.0	21.0	2,390
1.20	1.20	8.0	30.0	22.0	2,390
1.30	1.30	8.0	30.0	22.0	2,390
1.40	1.40	9.0	32.0	23.0	2,390
1.50	1.50	9.0	32.0	23.0	2,390
1.60	1.60	10.0	34.0	24.0	2,390
1.70	1.70	11.0	36.0	25.0	2,500
1.90	1.90	12.0	38.0	26.0	2,500
2.00	2.00	12.0	38.0	26.0	2,550
2.10	2.10	12.0	38.0	26.0	2,550
2.20	2.20	13.0	40.0	27.0	2,550
2.30	2.30	13.0	40.0	27.0	2,550
2.40	2.40	14.0	43.0	29.0	2,550
2.50	2.50	14.0	43.0	29.0	2,550
2.60	2.60	14.0	43.0	29.0	2,550
2.70	2.70	16.0	46.0	30.0	2,550
2.80	2.80	16.0	46.0	30.0	2,580
2.90	2.90	16.0	46.0	30.0	2,580
3.00	3.00	16.0	46.0	30.0	2,850

DC (MM)	DCON MS (MM)	LCF (MM)	OAL (MM)	LS (MM)	PRICE (RS/NO)
3.10	3.10	18.0	49.0	31.0	2,940
3.20	3.20	18.0	49.0	31.0	2,940
3.30	3.30	18.0	49.0	31.0	2,940
3.40	3.40	20.0	52.0	32.0	2,940
3.50	3.50	20.0	52.0	32.0	2,940
3.60	3.60	20.0	52.0	32.0	3,090
3.70	3.70	20.0	52.0	32.0	3,090
3.80	3.80	22.0	55.0	33.0	3,090
3.90	3.90	22.0	55.0	33.0	3,090
4.00	4.00	22.0	55.0	33.0	3,620
4.10	4.10	22.0	55.0	33.0	3,620
4.20	4.20	22.0	55.0	33.0	4,040
4.30	4.30	24.0	58.0	34.0	4,040
4.40	4.40	24.0	58.0	34.0	4,040
4.50	4.50	24.0	58.0	34.0	4,040
4.60	4.60	24.0	58.0	34.0	4,040
4.70	4.70	24.0	58.0	34.0	4,040
4.80	4.80	26.0	62.0	36.0	4,450
4.90	4.90	26.0	62.0	36.0	4,450
5.00	5.00	26.0	62.0	36.0	4,450

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DC (MM)	DCON MS (MM)	LCF (MM)	OAL (MM)	LS (MM)	PRICE (RS/NO)
5.10	5.10	26.0	62.0	36.0	5,250
5.20	5.20	26.0	62.0	36.0	5,250
5.30	5.30	26.0	62.0	36.0	5,250
5.40	5.40	28.0	66.0	38.0	5,250
5.50	5.50	28.0	66.0	38.0	5,250
5.60	5.60	28.0	66.0	38.0	5,350
5.70	5.70	28.0	66.0	38.0	5,350
5.80	5.80	28.0	66.0	38.0	5,350
5.90	5.90	28.0	66.0	38.0	5,350
6.00	6.00	28.0	66.0	38.0	5,350
6.10	6.10	31.0	70.0	39.0	5,750
6.20	6.20	31.0	70.0	39.0	5,750
6.30	6.30	31.0	70.0	39.0	5,750
6.40	6.40	31.0	70.0	39.0	5,750
6.50	6.50	31.0	70.0	39.0	5,750
6.60	6.60	31.0	70.0	39.0	7,800
6.70	6.70	31.0	70.0	39.0	7,800
6.80	6.80	34.0	74.0	40.0	7,800
6.90	6.90	34.0	74.0	40.0	7,800
7.00	7.00	34.0	74.0	40.0	7,800
7.10	7.10	34.0	74.0	40.0	8,500
7.20	7.20	34.0	74.0	40.0	8,500
7.30	7.30	34.0	74.0	40.0	8,500
7.40	7.40	34.0	74.0	40.0	8,500
7.50	7.50	34.0	74.0	40.0	8,500
7.70	7.70	37.0	79.0	42.0	9,600
7.80	7.80	37.0	79.0	42.0	9,600
7.90	7.90	37.0	79.0	42.0	9,600
8.00	8.00	37.0	79.0	42.0	9,600
8.10	8.10	37.0	79.0	42.0	10,500
8.20	8.20	37.0	79.0	42.0	10,500
8.30	8.30	37.0	79.0	42.0	10,500
8.40	8.40	37.0	79.0	42.0	10,500
8.50	8.50	37.0	79.0	42.0	10,500
8.70	8.70	40.0	84.0	44.0	12,000
8.80	8.80	40.0	84.0	44.0	12,000
9.00	9.00	40.0	84.0	44.0	12,000

DC (MM)	DCON MS (MM)	LCF (MM)	OAL (MM)	LS (MM)	PRICE (RS/NO)
9.20	9.20	40.0	84.0	44.0	13,700
9.30	9.30	40.0	84.0	44.0	13,700
9.50	9.50	40.0	84.0	44.0	13,700
9.80	9.80	43.0	89.0	46.0	15,300
10.00	10.00	43.0	89.0	46.0	15,300
10.20	10.20	43.0	89.0	46.0	17,500
10.30	10.30	43.0	89.0	46.0	17,500
10.40	10.40	43.0	89.0	46.0	17,500
10.50	10.50	43.0	89.0	46.0	17,500
10.70	10.70	47.0	95.0	48.0	20,800
10.80	10.80	47.0	95.0	48.0	20,800
11.00	11.00	47.0	95.0	48.0	20,800
11.20	11.20	47.0	95.0	48.0	23,800
11.50	11.50	47.0	95.0	48.0	26,700
11.70	11.70	51.0	102.0	51.0	26,700
11.80	11.80	47.0	95.0	48.0	26,700
12.00	12.00	51.0	102.0	51.0	26,700
12.50	12.50	51.0	102.0	51.0	26,700
13.00	13.00	51.0	102.0	51.0	26,700
13.20	13.20	51.0	102.0	51.0	31,700
13.50	13.50	51.0	102.0	51.0	31,700
13.80	13.80	54.0	107.0	53.0	35,700
14.00	14.00	54.0	107.0	53.0	35,700
14.20	14.20	56.0	111.0	55.0	35,700
14.50	14.50	56.0	111.0	55.0	38,900
15.00	15.00	56.0	111.0	55.0	38,900
15.20	15.20	56.0	111.0	55.0	38,900
15.50	15.50	56.0	111.0	55.0	38,900
16.00	16.00	58.0	115.0	57.0	38,900
16.50	16.50	60.0	119.0	59.0	38,900
17.00	17.00	60.0	119.0	59.0	51,500
18.00	18.00	62.0	123.0	61.0	62,300
18.50	18.50	64.0	127.0	63.0	78,000
19.00	19.00	64.0	127.0	63.0	78,000
19.50	19.50	66.0	131.0	65.0	82,200
20.00	20.00	66.0	131.0	65.0	82,200

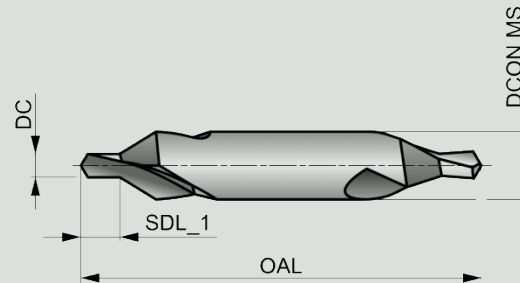
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SOLID CARBIDE CENTRE DRILL 60° COUNTERSINK, BRIGHT

Designed for accurately initiating a centered hole at the end of a shaft, this tool ensures secure workpiece holding prior to machining. Engineered for versatility, it is suitable for a wide range of materials and features dual drilling ends to enhance productivity. The DIN33A integrated 60° countersink supports precise alignment. Compatible with all CNC machines.

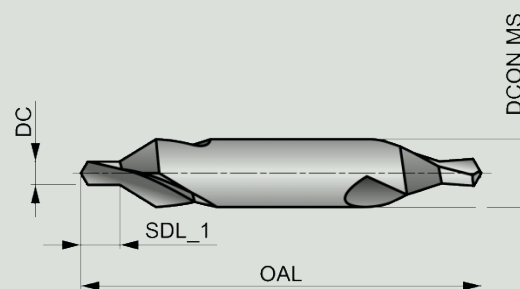
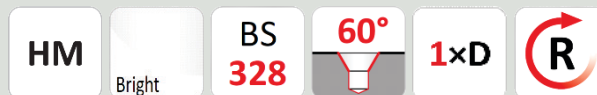


DC (MM)	BODY (MM)	OAL (MM)	SDL_1 (MM)	PRICE (RS/NO)
2.00	5.0	40.0	3.30 - 2.50	7,450
2.50	6.3	45.0	4.10 - 3.10	10,100
3.15	8.0	50.0	4.90 - 3.90	12,000

DC (MM)	BODY (MM)	OAL (MM)	SDL_1 (MM)	PRICE (RS/NO)
3.30	8.0	50.0	-	12,000
4.00	10.0	56.0	6.20 - 5.00	15,900
5.00	12.5	63.0	7.50 - 6.30	24,700

SOLID CARBIDE CENTRE DRILL 60° COUNTERSINK, BRIGHT BS TYPE

Designed for accurately initiating a centered hole at the end of a shaft, this tool ensures secure workpiece holding prior to machining. Engineered for versatility, it is suitable for a wide range of materials and features dual drilling ends to enhance productivity. The BS328 integrated 60° countersink supports precise alignment. Compatible with all CNC



DC (GAUGE)	DC (INCH)	BODY (Inch)	OAL (Inch)	SDL_1 (Inch)	PRICE (RS/NO)
BS2	1/16	3/16	1.3/4	3/32 - 5/64	7,450
BS3	3/32	1/4	2	5/32 - 1/8	10,100
BS4	1/8	5/16	2.1/4	3/16 - 5/32	12,000
BS5	3/16	7/16	2.1/2	9/32 - 1/4	22,800
BS6	1/4	5/8	3	3/8 - 5/16	33,700

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SOLID CARBIDE REAMER, H7 ACCURACY, BRIGHT FINISH

Straight flute reamer engineered to deliver hole finishes within H7 tolerance limits. Optimized for high performance and extended tool life across a variety of materials, it enhances hole roundness, dimensional accuracy, and surface finish. Features a 1.0 mm × 45° bevel edge for smooth entry and reduced cutting forces. Ideal for CNC machining applications, offering consistent and reliable results.

HM

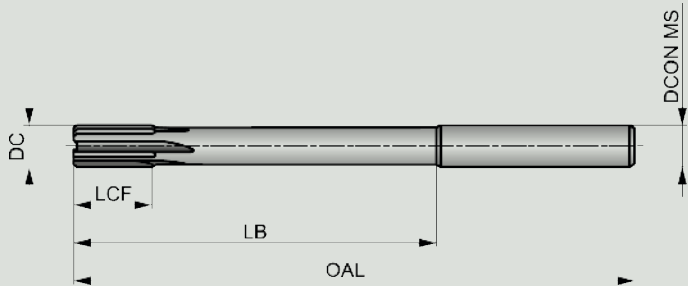
Bright

MFS



A

H7



DC (MM)	LCF (MM)	OAL (MM)	LS (MM)	DCON MS (MM)	NO OF FLUTES	PRICE (RS/NO)
3.00	16.0	57.0	41.0	3.00	4.0	5,100
4.00	19.0	63.0	44.0	4.00	4.0	6,000
5.00	25.0	75.0	50.0	5.00	4.0	7,200
6.00	25.0	75.0	50.0	6.00	4.0	8,700
8.00	28.0	82.0	54.0	8.00	6.0	13,300
10.00	31.0	89.0	58.0	10.00	6.0	17,100
11.00	50.0	100.0	50.0	11.00	6.0	17,700
12.00	40.0	100.0	60.0	12.00	6.0	21,000
13.00	48.0	100.0	52.0	14.00	6.0	34,800

CUSTOMISED SOLID CARBIDE DRILLS	
PRODUCT DESCRIPTION	PRICE (RS)/NO
SCDR 3.0 X 40 X 75 X 3.0 TIALN	5,105
SCDR 6X85X195X6 TIALN	14,817
SCDR 4.2X80X120X5.0 COATED THROUGH COOLA	16,925
SCDR 5.0X110X160X5.0 COATED THROUGH COOL	18,807
SCDR 5.0X80X120X5.0 COATED THROUGH COOLA	16,925
SCDR 6.8X110X160X8.0 TIALN THROUGH COOLA	26,689

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

NOTES

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