



# PRICE LIST **0825**



# PRECISION THAT **DRIVES** **PERFORMANCE**



**Price List**  
**Effective : 1<sup>st</sup> August 2025**

**TERMS AND CONDITIONS**

**Prices :**

- This supersedes all our previous price lists.
- Prices given in this pricelist are base prices. Taxes are extra as applicable.
- Price given here are for standard products.
- For unlisted intermediate sizes, the higher price of the nearest listed size will apply.
- The prices are for delivery on F.O.R Destination
- The prices are based on the present input costs and are subject to revision without prior notice.
- The dealers / stockiest are free to sell the goods at prices lower than the prices indicated in this price list.

**Minimum Order Quantities (MOQ) :**

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

**Delivery :**

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

- \* FMI (Fast Moving Items) – within 6 weeks for MOQ Quantities from the date of Firm Order
- SFMI (Semi-fast Moving Items) – within 8 weeks for MOQ Quantities from the date of Firm Order
- OTHER Items – within 12 weeks for MOQ Quantities from the date of Firm Order

**Other Instructions :**

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

<b>Quick Spiral and Slow Spiral Drills</b>			
<b>Series</b>	<b>Size</b>	<b>Standard</b>	<b>Surcharge (extra) on listed price indicated in this Price List</b>
<b>Parallel Shank Twist Drills</b>			
<b>Jobber Series</b>	1.0mm - 3.17mm (1/8")	IS 5101 - 2002 ISO 235 - 1980 BS 328 (PART 1) - 1993 DIN 338 - 1984	50%
	Above 3.17mm (1/8")	IS 5101 - 1991 BS 328 (PART 1) - 1986 ISO 235 - 1980 BS 328 (PART 1) - 1986 DIN 338 - 1984	25%
<b>Stub Series</b>	1.0mm - 3.17mm (1/8")	IS 5100 - 2002 ISO 235 - 1980 BS 328 (PART 1) - 1993 DIN 1897 - 1984	50%
	Above 3.17mm (1/8")	IS 5100 - 1969 ISO 235 - 1980 BS 328 (PART 1) - 1993 DIN 1897 - 1984	25%

<b>Long Series</b>	1.0mm - 3.17mm (1/8")	IS 5102 - 2002 ISO 494 - 1975 BS 328 (PART 1) - 1993 DIN 340 - 1978	50%
	Above 3.17mm (1/8")	IS 5102 - 2002 ISO 494 - 1975 BS 328 (PART 1) - 1993 DIN 340 - 1978	25%

### Taper Shank Twist Drills

<b>All Series of Taper Shank</b>	3.0mm - 102.0mm (4")	IS 5103 - 2002 ISO 235/1 - 1980 BS 328 (PART 1) - 1993 DIN 345 - 1978	25%
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### Extra Long Series

<b>Parallel Shank</b>	3.0mm - 12.50mm (1/2")	IS 7823 - 2005 ISO 3292 - 1995 IS 7822 - 2005 ISO 3291 - 19795	25%
<b>Taper Shank</b>	3.0mm - 102.0mm (4")		
<b>Taper Shank Twist Drills</b>	3.0mm - 102.0mm (4")	IS 5103 - 2002 ISO 235/1 - 1980 BS 328 (PART 1) - 1993 DIN 345 - 1978	25%
<b>Taper Shank Core Shank Core Drills</b>	7.0mm - 76.2mm	IS 5103 - 2002 ISO 235/1 - 1980 BS 328 (PART 1) - 1993 DIN 345 - 1978	25%
<b>Over Size Shank Taper Shank Drills</b>	Any Size	IS 5103 - 2002 ISO 235/1 - 1980 BS 328 (PART 1) - 1993 DIN 345 - 1978	25%

### Milling Cutter :

- 1) For Convex cutters, Concave Cutter, Single Corner Rounding Cutters, we will manufacture to current IS - IS 6323-2002, IS 6322 - 2002 and IS 6314 - 2002.
- 2) Slotting Cutter to BSS. Cutters of width 3/4" and above will be supplied with LH Helix as Standard.
- 3) Convex Cutters, Concave Cutters, Single Corner Rounding Cutters, Cutters will be radially Machine Turned Relieved.

## **End Mills :**

### **Parallel Shank End Mills :**

- 1) Type 'N' RH Helical Flutes for RH Cutting will be supplied as Standard
- 2) Long Series End Mills can be supplied at 30% Surcharge over the Standard Price with  
MOQ Up to 13mm - 100 Nos. Each  
14mm to 16mm - 50 Nos. Each  
17mm to 22mm - 25 Nos. Each  
Above 22mm - 10 Nos. Each

### **Taper Shank End Mills :**

- 1) Tanged TS End Mills in Tool Type 'N' with LH Helical Flutes for RH Cutting will be supplied as Standard
- 2) TS End Mills with Tapped End from 6.0mm dia. can be manufactured and supplied as per IS 6354 - 1991

## **Slot Drills :**

### **Parallel Shank Slot Drills :**

- 1) Metric Sizes Type 'A' Flat Face of Short Series with RH Helical Flutes for RH Cutting..
- 2) Prices and MOQ for Standard series can be furnished on request.
- 3) Metric Sizes RH Cutting RH Helical Flutes will be supplied as Standard.

### **Taper Shank Slot Drills :**

- 1) Metric Sizes with Tapped End from 7.0mm dia. can be manufactured and supplied as per IS 6388 - 1991.
- 2) RH Cutting RH Helical Flutes will be supplied as Standard.

## **Taps :**

### **Hand Taps - MCP**

A Set consists of Taper, Second and Bottoming.  
Part 2 Design will be supplied from M3 to M10 and Part 3 design will be supplied above M10.

### **Hand Taps - MFP**

A Set consists of Taper and Bottoming.  
Part 2 Design will be supplied from 3mm to 10mm and Part 3 design will be supplied above 10mm.

### **Long Shank Machine Taps**

- Type-A - 5 Deg. Taper Angle with Long Taper Lead
- Type-B - 10 Deg. Taper Lead Angle with Spiral Point
- Type-C - 20 Deg. Taper Angle with Short Taper Lead
- Type-D - 10 Deg. Taper Angle without Spiral Point

### **BS CONDUIT & BSCY**

A Set consists of 3 Taps (Taper, Second & Bottoming)

The following Items of Taps can also be supplied at price indicated (MOQ as per the standard given in this Price List)

- a) LH Taps – Surcharge 25% extra on the Listed Price
- b) Part 3 Design taps (up to and Including 10mm) - Surcharge 15% Extra on the Listed Price
- c) Serial Taps - No Surcharge

### **BSP (P), NPS, NPSF, BSPT, NPT & NPTF**

A Set consists of 2 Taps (Taper & Bottoming)



**Birla Precision Technologies Limited (BPTL)** stands as one of India's most trusted tooling solution providers, with a legacy dating back to 1937, when its division Indian Tool Manufacturer's (ITM) pioneered the manufacture of High-Speed Steel (HSS) Cutting Tools in the country.

Over the decades, BPTL has grown into a multi-division enterprise, offering a comprehensive portfolio of tooling solutions:

**Indian Tool Manufacturer's (ITM)** – A leader in HSS cutting tools, with three state-of-the-art plants at Nashik, Aurangabad, and Chalisgaon. ITM manufactures both standard and customized tools in grades like M2, M35, M42, and T42, marketed under the iconic “Dagger” brand, supported by a robust nationwide network.

**Birla Durotool** – Specializes in power tool accessories and engineering files, serving industries, tradesmen, and DIY users with products designed for durability, precision, and consistent performance.

**Carbomach** – Dedicated to producing high-quality carbide drills & end mills, ensuring dependable input materials for precision cutting tools in domestic and global markets.

**Tool Holder Division** –Established in 1986, BPT is India's first tool holder manufacturer, producing AT3 tool holders, collets, work holding, and production boosters. As the only domestic producer of several products, it serves as a true import substitute and a Make in India pioneer. BPT caters to leading customers in India and exports extensively to the USA, Germany, APAC, and China.

Precision Components division manufactures engine components, shafts, spools etc. for various automotive and Hydraulic clients abroad as well as domestic market.

All BPTL plants are ISO 9001:2015 certified by TÜV-RW, upholding the highest standards of manufacturing excellence.

With a pan-India network of distributors, dealers, branch offices, and service engineers, BPTL delivers more than just tools—it delivers trust, performance, and precision.

Birla Precision Technologies Limited continues to innovate, expanding its reach as a complete tooling solutions provider for industries in India and worldwide.



**NASHIK PLANT**



**AURANGABAD PLANT**



**CHALISGAON PLANT**



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<ul style="list-style-type: none"><li>• <b>Parallel Shank Twist Drills – M2 Stub Series</b> Parallel Shank Twist Drills - Long Series M2 Ground Drills M2 Ground Drills TIN Coated M2 ForgeLine Drills M2 Hathyar Drills Parallel Shank Twist Drills - M2 Stub Series</li></ul>	08 to 10
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## HSS TWIST DRILLS



**ITM** offer a extensive range of standard and special twist drills in different grades of HSS, available in various diameters.

**RANGE :**

**Type :** Parallel Shank Stub Series, Jobber Series, Long Series, Taper Shank Drills, Core Drills, Extra Long Drills with Parallel & Taper Shank, Combined Drills and Countersinks (Center Drills), Taper Pin Drills, Shell Drills, Special Drills etc.

**Size :** Parallel Shank Twist Drills : **3mm - 31.5mm, 3/64" - 1.15/64"**  
Taper Shank Drills : **3.0mm - 102mm : 1/8" - 4"**  
MAL - **2000mm**

**Material :** HSS - M2

**Note :** Drills can be supplied as per specific Customers needs on request as follows :

- Intermediate Diameters.
- Non Standard and Special Drills.
- In different grades of HSS like M35, M42 etc.
- Various surface coating like TiN, TiAlN etc.
- Special geometry to suit various applications.

## PANTHER PRODUCTS



• Quicker • Sharper • More Powerful



**DRILLS** Panther series Drills are made-out of finest HSS Presmium Materials and manufactured from latest CNC Machines, having special point geometry to produce better finish and accurate holes. These drills designed especially to machine difficult to cut material like Stainless steels, Nickel chromium steel and Forged steel etc.

**Advantages :**

- Best Suitable for tougher material.
- Unique point geometry to reduce thrust forced during drilling.
- Special surface treatment for maximum wear resistance.
- Longer Tool Life.

**TAPS**

Panther series Taps are made-out of premium grades of HSS Materials. These taps are produced from our latest CNC Machines, having unique geometries to suit different work materials. Panther series consists of Spiral Flute, Spiral Point, Roll Form and Cast Iron Taps. We can supply these taps with TiN, TiCN and Ti(Al)N coating to enhance performance of taps.

- **Spiral Flute Taps :** Best suitable for Blind Hole applications, spiral flutes eliminate the chip clogging.
- **Spiral Point Taps :** Best suitable for through hole applications, spiral point works as a chip breaker, to push chip towards forward direction.
- **Roll Form Taps :** Roll form tapping operation is a chip less operation, Form threads are produced by displacement of material. Best suitable for soft materials like Aluminum, Copper and Brass etc.
- **Cast Iron Taps :** Best suitable for blind and through application of Cast Iron materials.

## NINJA PRODUCTS



### TAPS

After successful launch of Panther Taps, we at Indian Tool Manufacturers (ITM) - A division of Birla Precision Technologies Ltd., are proud to announce launch of our "NINJA Taps", a new series of superior quality Taps. These Taps are made out of premium quality of HSS grade of Materials.

ITM NINJA Taps meets the customer needs of precise thread quality and improved productivity. The range of these products consists of SPPT Taps, Spiral Taps, St. Flute Taps and Roll Form Taps.

- Spiral Point Taps : (Size Range **M3 - M16**)
- Spiral Flute Taps : (Size Range **M3 - M16**)
- St. Flute Taps : (Size Range **M3 - M16**)
- Roll Form Taps : (Size Range **M6 - M16**)

### DRILLS

NINJA Series of Drills are made out of highest quality of HSS grade of Materials. These drills are manufactured on our latest CNC Machines, with special geometry to give better performance. These Drills can be used for Stainless Steel, Nickel Chromium Steel and Forged Steels etc.

### Size Range :

Ninja Series Drills are manufactured; as per IS:5101 and BS:328.

Metric Size : **3.0mm to 13.0mm**

Inch Series : **1/8" to 1/2"**

### Applications :

Ninja series drills are best suitable for drilling on; Stainless Steels, Forged Steels, Nickel Chromium Steels and Tougher Machining Applications.

## HSS SCREWING TAPS



Available in a wide range of sizes, types and combinations.

### RANGE :

**Type :** Hand and Short Machine Taps, Long Shank Machine Taps, Nut Taps, Pipe Taps, BSW, UNC, NC, NE, NGT and special Taps.

**Size :** **3mm - 100mm : 1/8 - 4"**

**Material :** HSS - M2

**Note :** Taps can be supplied as per Customers needs on request as follows :

- Serial or Non Serial.
- Individual Pieces or in Sets.
- Different type of Flute like Straight, Helical, Spiral, Spiral Point & Fluteless.
- In different grades of HSS like M35, M42 etc.
- Special Taps as per Customer's Drawing.

## HSS REAMERS



Available in a wide range of diameters and manufactures to suit specific reaming operations to provide perfect accuracy and optimum surface Finish.

**RANGE :**

**Type :** Parallel hand reamers, Long fluted machine reamers, Chucking reamers with parallel shank or Taper shank, Bridge reamers, Taper pin reamers, Socket reamers, Machine jig reamers, Center reamers, Shell reamers etc.

**Size :** 3.0mm - 76.2mm : 1/8" - 3"

**Material :** HSS - M2

**Note :** Reamers can also be supplied as per specific Customers need as follows :

- Non standard and special as per Customers drawing.
- Intermediate diameters.
- In different grades of HSS like M35, M42 etc.
- Various surface coating like TiN, TiAlN etc.

## HSS MILLING CUTTERS



Available in a wide range of diameters and types suitable for various types of milling operations.

**RANGE :**

**Type :** Cylindrical cutters, Side & Face cutters, Shell end mills, Single and Double angle cutters, Face cutters, Slotting cutters, Keyway milling cutters, Hollow mill, Convex and Concave milling cutters, Single and Double corner rounding cutters, Parallel and Taper shank slot drills, End mills, "T" Slot cutters, Counter bores, Counter sinks, Woodruff key slot cutters with parallel shank and cutters as per special design.

**Size :** Shank Type cutters : 3mm - 63mm : 1/8" - 2.1/2"  
Bore Type cutter : 40mm - 250mm : 1.1/2" - 10"

**Material :** HSS - M2

**Note :** Milling cutters can also be supplied as per specific Customers needs as follows :

- Non standard and special as per Customers drawing.
- Intermediate diameters.
- In different grades of HSS like M35, M42 etc.

## MASONRY DRILLS



**ITM's :** Carbide Tipped Masonry Drills are manufactured from Alloy Steel, have Ground Flutes, are in Bright Finish and combined with ITM's unique brazing and treatment process results in with standing shock and outstanding resistance to wear during its use.

**RANGE :**

**Type :** ITM Masonry Drills are available in two categories Standard and Delux.

**Size :** 3.0mm - 13mm : 1/8" - 1/2" in all three categories

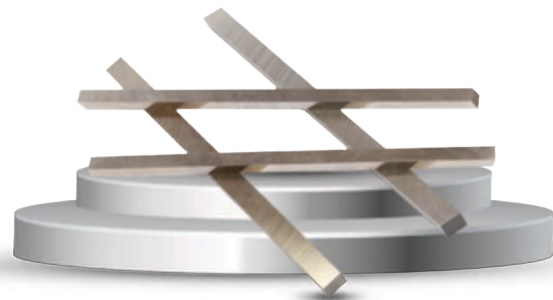
**Standard Masonry Drills :**

Suitable for all general purpose. Available in 10 pcs packing.

**Deluxe Masonry Drills :**

Specially developed for use on tougher material like Stonework. Concrete and Marble etc.

## HSS TOOL BITS



Backed by the high quality of High Speed Steel material ITM manufactures a comprehensive range of HSS Tool Bits, Dagger Tool bits ensure maximum red hardness for greater endurance.

Rigorous and regular metallurgical tests are undertaken to analyze the quality as well as the composition of the raw materials used. These include determination of carbide size, decarb, segregation, grain size, response to heat treatment etc., thus guaranteeing smooth, trouble free performance.

**RANGE :**

**Size :** Square tool size 5mm - 25mm : 3/16" - 1"

**Material :** HSS - M2 & T42.

**Note :**

- Cryogenic treatment for special applications on request.
- All square tool bite are supplied with the bevel angle of 150.



**HATHYAR - TOOL BITS**

ITM Hathyar Square Tool Bits are manufactured out of finest grades of HSS materials. All Tool Bits made with 150 bevel angle. This will give advantage to make easy end grinding preparation for end user.

**HATHYAR - 600** - Suitable for free cutting materials.

**HATHYAR - 900** - Suitable for difficult to cut materials.

**HATHYAR - 1000** - Suitable for Harder Alloy steels and stainless steels.

## CARBIDE TIPPED DRILLS



Carbide Tipped Drills are made out of highest quality of "Carbide Tips". These CT drills are manufactured on our latest CNC Machines with special geometry to give better performance. The Carbide Tipped are brazed by special process to ensure the better fitment to ensure faster, effective, correct drilling of hole sizes with highest finish.

**Application :**

- These drills are used at Brake Lines, Foundry Industry, Composite materials and general Applications.

**Size Range :**

**Metric : 4mm - 13mm**  
**Inch : 11/64" - 1/2"**

## ENGINEERING FILES



Dagger Brand Files are made from the finest file steel material on State-of-the-Art Production Line. Files are manufactured on unique hydro pneumatically controlled machines resulting in uniform Teeth geometry and consistent desired finish cutting quality with.

**RANGE :**

**Type :** Machine Files, Saw Files, Rasps, Special Files & Mill Files

**Size Range : 100mm to 350mm : 4" to 14"**

**Cuts :** Single Cut, Double Cut, Bastard Cut, 2nd Cut, Smooth Cut & Rasp Cut.

**Shapes :** Rectangle, Square, Round, Triangle, Half Round

Files are available in 10pcs packing up to 250mm & 5pcs packing for above 250mm.

**LABLE COLOURS**

<b>Bastard Cut</b>	<b>: GREEN</b>	
<b>2nd Cut</b>	<b>: YELLOW</b>	
<b>Smooth Cut</b>	<b>: RED</b>	

## FORGELINE DRILLS



### APPLICATION :

**Best Suitable For Forged Steel & Cast Iron**

### KEY FEATURES :

- Robust design with high-precision grinding for exceptional accuracy.
- Developed and tested to ensure optimum productivity.
- High-speed drilling with fewer tool changes
- Special geometry ensures smooth chip flow, excellent heat dissipation, enhanced wear resistance and improved toughness.
- Supplied in both Non-Cobalt and Cobalt (on demand) grades of HSS to suit diverse applications needs.
- Offered in both Jobber and Stub series.

### SIZE RANGE :

**Metric : 3.0 - 13.0mm**  
**Imperial : 1/8" - 1/2"**

## ANNULAR CUTTERS



### TUNGSTEN CARBIDE TIPPED (TCT) :

TCT Annular Cutters are new series of product from ITM's product range. These cutters are manufactured on latest CNC Machines to get highest quality of Cutters. These cutters are used with Special Carbide Tips to give accurate hole finish.

### Advantages :

- No Pre Drilling & Step Drilling Required
- Burr Free Holes
- Required Less Thrust
- Less energy Peripheral Cutting
- Hole Finish Precise and Accurate

### HSS ANNULAR CUTTER :

HSS Annular Cutters are new series of product from ITM's product range. These cutters are manufactured on latest CNC Machines to get highest quality of Cutters. These cutter having special geometry to produce accurate hole finish.

### Advantages :

- Increased Cutting Speed
- Minimize Tool Wear
- Better Alignment of Hole Axis
- Reduced Tooth Load
- Extended Tool Life

### Application : TCT & HSS Annular Cutter

These cutters are widely used at Fabrication Industries, Tower Manufacturers, Railway Wagons etc.

### Size Range : TCT & HSS Annular Cutter :

**Metric : Dia 12mm to 50mm**  
**DOC 50mm (Depth of Cut - DOC)**

**BPT**  
PRECISION  
**BIRLA**  
PRECISION

DAGGER DRILLER BRAND®



SINCE 1937

**DRILLS**



[www.birlaprecision.com](http://www.birlaprecision.com)

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

SIZE			PRICE PER 10 PCS (RS.)						
MM	INCH	DG	HSS M2	HSS M2 TIN	PANTHER	NINJA	FORGELINE	HATHYAR	MOQ
0.30			1865	2170	-	-	-	-	200
0.40			1617	1922	-	-	-	-	200
0.50			1174	1479	-	-	-	-	200
0.60			1174	1479	-	-	-	-	200
0.70			1174	1479	-	-	-	-	200
0.80			983	1288	-	-	-	-	200
0.90			937	1243	-	-	-	-	200
1.00			598	904	-	-	-	460	200
1.02		60	598	904	-	-	-	-	200
1.04		59	598	904	-	-	-	-	200
1.07		58	598	904	-	-	-	-	200
1.09		57	598	904	-	-	-	-	200
1.10			598	904	-	-	-	460	200
1.18		56	598	904	-	-	-	-	200
1.19	3/64★		598	904	-	-	-	460	200
1.20			598	904	-	-	-	460	200
1.30			598	904	-	-	-	460	200
1.32		55	598	904	-	-	-	-	200
1.40		54	598	904	-	-	-	460	200
1.50			598	904	-	-	-	460	200
1.51		53	598	904	-	-	-	-	200
1.59	1/16★		598	904	-	-	-	490	200
1.60			598	904	-	-	-	490	200
1.61		52	644	949	-	-	-	-	200
1.70		51	644	949	-	-	-	490	200
1.78		50★	644	949	-	-	-	-	200
1.80			644	949	-	-	-	490	200
1.85		49	644	949	-	-	-	-	200
1.90			644	949	-	-	-	490	200
1.93		48★	644	949	-	-	-	-	200
1.98	5/64★		644	949	-	-	-	490	200
1.99		47★	644	949	-	-	-	-	200
2.00			644	949	-	-	-	490	200
2.06		46	644	949	-	-	-	-	200
2.08		45	644	949	-	-	-	-	200
2.10			644	949	-	-	-	490	200
2.18		44	644	949	-	-	-	-	200
2.20			644	949	-	-	-	490	200
2.26		43★	644	949	-	-	-	-	200
2.30			644	949	-	-	-	520	200
2.37		42	644	1027	-	-	-	-	200
2.38	3/32★		644	1027	-	-	-	520	200
2.40			644	1027	-	-	-	520	200
2.44		41	644	1027	-	-	-	-	200
2.49		40	644	1027	-	-	-	-	200
2.50			644	1027	-	-	-	520	200

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

SIZE			PRICE PER 10 PCS (RS.)						
MM	INCH	DG	HSS M2	HSS M2 TIN	PANTHER	NINJA	FORGELINE	HATHYAR	MOQ
2.53		39	644	1027	-	-	-	-	200
2.58		38	644	1027	-	-	-	-	200
2.60			644	1027	-	-	-	550	200
2.64		37	644	1027	-	-	-	-	200
2.70			644	1027	-	-	-	550	200
2.71		36	644	1027	-	-	-	-	200
2.78	7/64★		644	1027	-	-	-	550	200
2.79		35	707	1091	-	-	-	-	200
2.80			707	1091	-	-	-	550	200
2.82		34	707	1091	-	-	-	-	200
2.87		33	707	1091	-	-	-	-	200
2.90			707	1091	-	-	-	550	200
2.95		32	707	1091	-	-	-	-	200
3.00			707	1091	885	1272	655	540	200
3.05		31★	842	1226	-	-	-	-	200
3.10			842	1226	1053	1517	780	640	200
3.17	1/8★		842	1226	1053	1517	780	640	200
3.20			872	1255	1092	1568	807	710	200
3.26		30★	872	1255	-	-	-	-	200
3.30			872	1255	1092	1568	807	710	200
3.40			872	1255	1092	1568	807	710	200
3.45		29	872	1255	-	-	-	-	200
3.50			872	1255	1092	1568	807	710	200
3.57	9/64★	28	872	1255	1092	1568	807	750	200
3.60			1231	1615	1540	2219	1140	890	200
3.66		27	1231	1615	-	-	-	-	200
3.70			1231	1615	1540	2219	1140	960	200
3.73		26	1231	1667	-	-	-	-	200
3.80		25	1231	1667	1540	2219	1140	960	200
3.86		24	1231	1667	-	-	-	-	200
3.90			1231	1667	1540	2219	1140	960	200
3.91		23	1231	1667	-	-	-	-	200
3.97	5/32★		1231	1667	1540	2219	1140	940	200
3.99		22	1231	1667	-	-	-	-	200
4.00			1231	1667	1540	2219	1140	940	200
4.04		21	1495	1931	-	-	-	-	200
4.09		20	1495	1931	-	-	-	-	200
4.10			1495	1931	1870	2690	1384	1140	200
4.20			1495	1931	1870	2690	1384	1140	200
4.22		19★	1495	1931	-	-	-	-	200
4.30		18	1495	1931	1870	2690	1384	1140	200
4.37	11/64★		1495	1931	1870	3533	1384	1160	200
4.39		17	1495	1931	-	-	-	-	200
4.40			1495	1931	1870	2690	1384	1160	200
4.50		16	1963	2400	2455	3533	1818	1410	200
4.57		15	1963	2400	-	-	-	-	200

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

SIZE			PRICE PER 10 PCS (RS.)						
MM	INCH	DG	HSS M2	HSS M2 TIN	PANTHER	NINJA	FORGELINE	HATHYAR	MOQ
4.60			1963	2400	2455	3533	1818	1410	200
4.62		14	1963	2400	-	-	-	-	200
4.70		13	1963	2400	-	-	1818	1410	200
4.76	3/16★		1963	2400	2455	3533	1818	1410	200
4.80		12	1963	2400	2455	3533	1818	1460	200
4.85		11	2131	2567	-	-	-	-	200
4.90			2131	2567	-	-	1973	1520	200
4.92		10	2131	2567	-	-	-	-	200
4.98		9	2131	2567	-	-	-	-	200
5.00			2131	2567	2665	3836	1973	1530	200
5.06		8	2131	2567	-	-	-	-	100
5.10			2131	2567	2665	3836	1973	1530	100
5.11		7	2131	2567	-	-	-	-	100
5.16	13/64★		2131	2567	2665	3836	1973	1530	100
5.18		6	2131	2567	-	-	-	-	100
5.20			2131	2567	2665	3836	1973	1530	100
5.22		5	2299	2735	-	-	-	-	100
5.30			2299	2735	2874	4139	2129	1750	100
5.31		4	2299	2735	-	-	-	-	100
5.40			2299	2735	2874	4139	2129	1750	100
5.41		3	2299	2735	-	-	-	-	100
5.50			2299	2735	2874	4139	2129	1750	100
5.56	7/32★		2299	2735	2874	4139	2129	1880	100
5.60			2299	2735	2874	4139	2129	1750	100
5.61		2	2587	3023	-	-	-	-	100
5.70			2587	3023	-	-	2395	1940	100
5.79		1	2587	3023	-	-	-	-	100
5.80			2587	3023	3234	4657	2395	1940	100
5.90			2587	3023	-	-	2395	1940	100
5.94		A	2587	3023	-	-	-	-	100
5.95	15/64★		2587	3023	-	-	2395	1940	100
6.00			2587	3284	3234	4657	2395	1940	100
6.04		B	2817	3514	-	-	-	-	100
6.10			2817	3514	3521	5072	2608	2150	100
6.15		C	2817	3514	-	-	-	-	100
6.20			2817	3514	3521	5072	2608	2150	100
6.25		D	2817	3514	-	-	-	-	100
6.30			2817	3514	3521	5072	2608	2180	100
6.35	1/4★	E	2817	3514	3521	5072	2608	2180	100
6.40			2766	3464	-	-	2608	2180	100
6.50			3528	4226	4408	6350	3267	2740	100
6.53		F★	3528	4226	-	-	-	-	100
6.60			3528	4226	4408	6350	3267	2740	100
6.63		G	3528	4226	-	-	-	-	100
6.70			3528	4226	4408	6350	3267	2740	100
6.75	17/64★	H	3528	4226	4408	6350	3267	2740	100

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

SIZE			PRICE PER 10 PCS (RS.)						
MM	INCH	DG	HSS M2	HSS M2 TIN	PANTHER	NINJA	FORGELINE	HATHYAR	MOQ
6.80			3528	4226	4408	6350	3267	2740	100
6.90		I	3862	4560	-	-	3576	2970	100
7.00			3862	4560	4826	6950	3576	2970	100
7.03		J	3862	4560	-	-	-	-	100
7.10			3862	4560	-	-	3576	3150	100
7.14	9/32★	K	3862	4560	4826	6950	3576	3250	100
7.20			3862	4560	4826	6950	3576	3210	100
7.30			4075	4773	-	-	3773	3210	100
7.37		L	4075	4773	-	-	-	-	100
7.40			4075	4773	5094	7335	3773	3210	100
7.49		M	4075	4773	-	-	-	-	100
7.50			4075	4773	5094	7335	3773	3210	100
7.54	19/64★		4411	5457	-	-	4084	3575	100
7.60			4411	5457	5515	7940	4084	3670	100
7.67		N	4411	5457	-	-	-	-	100
7.70			4411	5457	-	-	4084	3600	100
7.80			4411	5457	5515	7940	4084	3600	100
7.90			4411	5457	-	-	4084	3600	100
7.94	5/16★		4844	5891	6052	8718	4485	3810	100
8.00			4844	5891	6052	8718	4485	4300	100
8.03		O	4844	5891	-	-	-	-	100
8.10			4844	6152	6052	8718	4485	4300	100
8.20		P	4844	6152	6052	8718	4485	4300	100
8.30			5870	7178	7336	10565	5435	4480	100
8.33	21/64★		5870	7178	7336	10565	5435	4480	100
8.40			5870	7178	-	-	5435	4690	100
8.43		Q	5870	7178	-	-	-	-	100
8.50			5870	7178	7336	10565	5435	4690	100
8.60			5870	7484	7336	10565	5435	4690	100
8.61		R	5870	7484	-	-	-	-	100
8.70			5870	7484	7336	10565	5435	4690	100
8.73	11/32★		6183	7797	-	-	5725	5050	100
8.80			6183	7797	7729	11127	5725	4940	100
8.84		S	6183	7797	-	-	-	-	100
8.90			6183	7797	-	-	5725	4940	100
9.00			6183	8058	7729	11127	5725	4940	100
9.09		T	6451	8326	-	-	-	-	100
9.10			6451	8326	-	-	5973	5550	100
9.13	23/64★		6451	8326	-	-	5973	550	100
9.20			6451	8326	-	-	5973	5550	100
9.30			6451	8326	8060	11611	5973	5550	100
9.34		U★	6451	8326	-	-	-	-	100
9.40			6451	8326	8060	11611	5973	5550	100
9.50			6451	8326	8060	11611	5973	5550	100
9.52	3/8★		7312	9187	9140	13160	6770	5860	100
9.58		V	7312	9187	-	-	-	-	100

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

SIZE			PRICE PER 10 PCS (RS.)						
MM	INCH	DG	HSS M2	HSS M2 TIN	PANTHER	NINJA	FORGELINE	HATHYAR	MOQ
9.60			7312	9187	-	-	6770	6400	100
9.70			7312	9187	9140	13160	6770	6400	100
9.80		W	7312	9187	9140	13160	6770	6400	100
9.90			8185	10061	-	-	7579	6420	100
9.92	25/64★		8185	10061	-	-	7579	6420	100
10.00			8185	10366	10230	14732	7579	6420	100
10.08		X	8185	10366	-	-	-	-	100
10.10			8185	10366	-	-	7579	7200	100
10.20			8185	10366	10230	14732	7579	7200	100
10.26		Y	8869	11050	-	-	-	-	100
10.30			8869	11050	11089	15963	8212	7300	100
10.32	13/32★		8869	11050	11089	15963	8212	7300	100
10.40			8869	11050	11089	15963	8212	7300	100
10.49		Z	8869	11050	-	-	-	-	100
10.50			8869	11050	11089	15963	8212	7350	100
10.60			8869	11050	-	-	8212	7800	50
10.70			9391	11571	11738	16903	8695	8100	50
10.72	27/64★		9391	11571	-	-	8695	8100	50
10.80			9391	11571	-	-	8695	8100	50
10.90			9391	11571	-	-	8695	8100	50
11.00			9391	11571	11738	16903	8695	8100	50
11.10			10481	13098	-	-	9705	9100	50
11.11	7/16★		10481	13098	13102	18868	9705	9050	50
11.20			10481	13098	-	-	9705	9100	50
11.30			10481	13098	-	-	9705	9100	50
11.40			10481	13098	-	-	9705	9100	50
11.50			11056	13673	13819	19899	10237	9100	50
11.51	29/64★		11056	13673	-	-	10237	9100	50
11.60			11056	13673	-	-	10237	9750	50
11.70			11056	13673	-	-	10237	9750	50
11.80			11056	13673	13819	19899	10237	9750	50
11.90			11808	14425	-	-	10933	10200	50
11.91	15/32★		11808	14425	-	-	10933	10300	50
12.00			11808	14425	14759	21251	10933	10200	50
12.10			11808	14861	-	-	-	10400	50
12.20			11808	14861	-	-	-	10400	50
12.30	31/64★		12524	15576	-	-	11596	10900	50
12.40			12524	15576	-	-	11596	10900	50
12.50			12524	15576	15655	22542	11596	10900	50
12.60			12524	15576	-	-	11596	10900	50
12.70	1/2★		13222	16275	16526	23801	12243	11600	50
12.80			13337	16390	16671	24007	12349	11600	50
12.90			13337	16390	-	-	12349	11600	50
13.00			13337	16390	16671	24007	12349	11600	50
13.10	33/64★		16590	20166	-	-	-	-	20
13.20			16590	20166	-	-	-	-	20

## HSS PARALLEL SHANK (JOBBER SERIES) TWIST DRILLS - IS : 5101

SIZE			PRICE PER 10 PCS (RS.)						
MM	INCH	DG	HSS M2	HSS M2 TIN	PANTHER	NINJA	FORGELINE	HATHYAR	MOQ
13.30			16590	20166	-	-	-	-	20
13.40			16590	20166	-	-	-	-	20
13.49	17/32★		17661	21237	-	-	-	-	20
13.50			17661	21237	-	-	-	-	20
13.60			17661	21237	-	-	-	-	20
13.70			17661	21237	-	-	-	-	20
13.80			17661	21237	-	-	-	-	20
13.89	35/64		19161	22737	-	-	-	-	20
13.90			19161	22737	-	-	-	-	20
14.00			19161	22737	-	-	-	-	20
14.25			19161	23086	-	-	-	-	20
14.29	9/16★		20104	24029	-	-	-	-	20
14.50			20104	24029	-	-	-	-	20
14.68	37/64		21663	25588	-	-	-	-	20
14.75			21663	25588	-	-	-	-	20
15.00			21663	25588	-	-	-	-	20
15.08	19/32		21663	26024	-	-	-	-	20
15.25			21663	26024	-	-	-	-	20
15.48	39/64		23472	27833	-	-	-	-	20
15.50			23472	27833	-	-	-	-	20
15.75			23472	27833	-	-	-	-	20
15.87	5/8★		23472	27833	-	-	-	-	20
16.00			23472	27833	-	-	-	-	20
17.00			24828	30062	-	-	-	-	20
17.46	11/16		24828	30062	-	-	-	-	20
18.00			26866	32100	-	-	-	-	20
19.00			28415	34085	-	-	-	-	20
19.05	3/4		28415	34085	-	-	-	-	20
20.00			33943	39613	-	-	-	-	20
21.00			33943	39613	-	-	-	-	20
22.00			38062	43732	-	-	-	-	20
22.22	7/8		38062	43732	-	-	-	-	20

ITEMS MARKED ★ (ONLY IN RH) ARE EX-STOCK ITEMS. ALL REMAINING ITEMS (RH & LH) WILL ATTRACT MINIMUM ORDER VALUE OF RS. 50,000/- NETT MOQ OR 50 NOS. PER SIZE WHICHEVER IS HIGHER.

**IMPORTANT NOTES :**

1. All sizes to be ordered in multiples of 10 only.
2. For non listed intermediate sizes, the higher price of the nearest listed size (INCH or MM) will be applicable.
3. (a) Quick Spiral or Slow Spiral Drills :
  - Sizes up to (3.17mm) 1/8" **50 % extra**
  - Sizes over (3.17mm) 1/8" **25 % extra**
- (b) Jobbers with Tenon **10 % extra**

### HSS PARALLEL SHANK (JOBBER SERIES) TWIST DRILLS - IS : 5101

Price Rs. / Set

Jobber Drill **25 Pcs. Set** (0.5mm Rise)  
1.00 To 13.00mm **13973**

Jobber Drill **13 Pcs. Set** (1/64" Rise)  
1/16" To 1/4" **2568**

Hathyar Drill **25 Pcs. Set** (0.5mm Rise)  
1.00 To 13.00mm **11614**

Hathyar Drill **13 Pcs. Set** (1/64" Rise)  
1/16" To 1/4" **2330**

**HSS PARALLEL SHANK (STUB SERIES)  
TWIST DRILLS - IS : 5100**

SIZE		PRICE 10 PCS (RS.)		
MM	INCH	HSS M2	HATHYAR	MOQ
1.00		627	440	200
1.19	3/64	627	440	200
1.20		627	440	200
1.50		627	440	200
1.59	1/16	627	470	200
1.80		627	470	200
1.98	5/64	627	470	200
2.00		627	470	200
2.20		627	470	200
2.38	3/32	627	485	200
2.50		627	485	200
2.78	7/64	627	500	200
2.80		678	500	200
3.00		707	500	200
3.17	1/8	821	615	200
3.20		861	639	200
3.50		861	639	200
3.57	9/64	861	639	200
3.80		1192	864	200
3.97	5/32	1192	864	200
4.00		1192	864	200
4.20		1324	1044	200
4.37	11/64	1324	1044	200
4.50		1755	1269	200
4.76	3/16	1755	1269	200
4.80		1755	1269	200
5.00		1866	1377	200
5.16	13/64	1866	1377	100
5.20		1866	1377	100
5.50		2027	1575	100
5.56	7/32	2027	1575	100
5.80		2283	1746	100
5.95	15/64	2283	1746	100
6.00		2283	1746	100
6.20		2554	1962	100
6.35	1/4	2554	1962	100
6.50		3087	2466	100
6.75	17/64	3087	2466	100
6.80		3087	2466	100
7.00		3384	2889	100
7.14	9/32	3384	2889	100
7.20		3384	2889	100
7.50		3515	2889	100
7.54	19/64	3862	3240	100
7.80		3862	3240	100
7.94	5/16	4249	3429	100

SIZE		PRICE 10 PCS (RS.)		
MM	INCH	HSS M2	HATHYAR	MOQ
8.00		4249	3429	100
8.20		4249	3429	100
8.33	21/64	5308	4221	100
8.50		5308	4221	100
8.73	11/32	5536	4446	100
8.80		5536	4446	100
9.00		5536	4446	100
9.13	23/64	5847	4995	100
9.20		5847	4995	100
9.50		5847	4995	100
9.52	3/8	6113	5760	100
9.80		6113	5760	100
9.92	25/64	7479	5778	100
10.00		7479	5778	100
10.20		7479	6570	50
10.32	13/32	8051	6570	50
10.50		8051	6570	50
10.72	27/64	9064	7515	50
10.80		9064	7515	50
11.00		9064	7515	50
11.11	7/16	9441	8190	50
11.20		9441	8190	50
11.50		10101	8190	50
11.51	29/64	10101	8190	50
11.80		10101	9180	50
11.91	15/32	10687	9180	50
12.00		10687	9180	50
12.20		10687	9810	50
12.30	31/64	11614	9810	50
12.50		11614	9810	50
12.70	1/2	11865	10620	50
12.80		11967	10620	50
13.00		11967	10620	50
13.20		14014	-	50
13.49	17/32	14014	-	50
13.50		14934	-	50
13.80		14934	-	50
14.00		16259	-	50
14.25		16259	-	50
14.29	9/16	16259	-	50
14.50		16934	-	50
14.75		18310	-	50
15.00		18310	-	50
15.08	19/32	18310	-	50
15.25		18310	-	50
15.50		19821	-	50

**HSS PARALLEL SHANK (STUB SERIES)  
TWIST DRILLS - IS : 5100**

SIZE		PRICE 10 PCS (RS.)		
MM	INCH	HSS M2	HATHYAR	MOQ
15.75		19821	-	50
15.87	5/8	19821	-	50
16.00		19821	-	50
16.25		20138	-	50
16.50		20138	-	50
16.67	21/32	20138	-	50
16.75		20544	-	50
17.00		20544	-	50
17.25		20917	-	50
17.46	11/16	20917	-	50
17.50		20917	-	50
17.75		21203	-	50
18.00		21203	-	50
18.25		21579	-	50
18.26	23/32	21579	-	50
18.50		21579	-	50
18.75		21963	-	50
19.00		21963	-	50
19.05	3/4	21963	-	50
19.25		22335	-	50
19.50		22335	-	50
19.75		22335	-	50
19.84	25/32	22335	-	50
20.00		22718	-	50
20.25		23191	-	10
20.50		23191	-	10
20.64	13/16	23191	-	10
20.75		24119	-	10
21.00		24119	-	10
21.25		24412	-	10
21.43	27/32	24412	-	10
21.50		25234	-	10
21.75		25557	-	10
22.00		25557	-	10
22.22	7/8	25557	-	10
22.25		27185	-	10
22.50		27185	-	10
22.75		27563	-	10
23.00		27563	-	10
23.02	29/32	27563	-	10
23.25		29147	-	10
23.50		29147	-	10
23.75		29147	-	10
23.81	15/16	29147	-	10
24.00		32254	-	10
24.25		32254	-	10

SIZE		PRICE 10 PCS (RS.)		
MM	INCH	HSS M2	HATHYAR	MOQ
24.50		32254	-	10
24.61	31/32	32254	-	10
24.75		35381	-	10
25.00		35381	-	10
25.25		35554	-	10
25.40	1	35554	-	10
25.50		40126	-	10
26.00		40126	-	10
26.19	1.1/32	41053	-	10
26.50		41053	-	10
26.99	1.1/16	41529	-	10
27.00		43763	-	10
27.50		43763	-	10
27.78	1.3/32	46314	-	10
28.00		46314	-	10
28.50		46666	-	10
28.57	1.1/8	46666	-	10
29.00		48969	-	10
29.37	1.5/32	53907	-	10
29.50		53907	-	10
30.00		54627	-	10
30.16	1.3/16	54627	-	10
30.50		61475	-	10
30.96	1.7/32	61475	-	10
31.00		61475	-	10
31.50		62397	-	10
31.75	1.1/4	62397	-	10
32.00		63741	-	10
32.50		65737	-	10
32.54	1.9/32	65737	-	10
33.00		65737	-	10
33.34	1.5/16	65737	-	10
33.50		69149	-	10
34.00		69149	-	10
34.13	1.11/32	75889	-	10
34.50		75889	-	10
34.92	1.3/8	75889	-	10
35.00		83445	-	10
35.50		84635	-	10
35.72	1.13/32	84635	-	10
36.00		84635	-	10
36.50		84635	-	10
36.51	1.7/16	84635	-	10
37.00		90981	-	10
37.31	1.15/32	92342	-	10
37.50		92342	-	10

## HSS PARALLEL SHANK (STUB SERIES) TWIST DRILLS - IS : 5100

SIZE		PRICE 10 PCS (RS.)		
MM	INCH	HSS M2	HATHYAR	MOQ
38.00		92342	-	10
38.10	1.1/2	92342	-	10
38.50		103111	-	10

SIZE		PRICE 10 PCS (RS.)		
MM	INCH	HSS M2	HATHYAR	MOQ
39.00		103111	-	10
39.50		104886	-	10
40.00		104886	-	10

ITEMS MARKED ★ (ONLY IN RH) ARE EX-STOCK ITEMS. ALL REMAINING ITEMS (RH & LH) WILL ATTRACT MINIMUM ORDER VALUE OF RS. 50,000/- NETT MOQ OR 50 NOS. PER SIZE WHICHEVER IS HIGHER.

**IMPORTANT NOTES :**

1. Sizes up to 13 mm should be ordered in multiples of 10 only.
2. For non listed intermediate sizes, the higher price of the nearest listed size (INCH or MM) will be applicable.
3. (a) Quick Spiral or Slow Spiral Drills :
 

Sizes up to (3.17mm) 1/8"	<b>50 % extra</b>
Sizes over (3.17mm) 1/8"	<b>25 % extra</b>

 (b) Left Hand Drills to IS : 5362 can be supplied from  
 Sizes (3.00mm) 1/8" and above only **25 % extra**
4. **FOR M35 = 40% & M42 = 80% extra**

**HSS PARALLEL SHANK (LONG SERIES)  
TWIST DRILLS - IS : 5102**

SIZE		PRICE (RS.) EACH	
MM	INCH	HSS M2	HSS M35
0.60		657	-
0.70		613	-
0.80		549	-
1.00		348	-
1.10		348	-
1.19	3/64	348	-
1.20		348	-
1.30		348	-
1.40		348	-
1.50		348	-
1.59	1/16	348	-
1.60		348	-
1.70		348	-
1.80		348	-
1.90		348	-
1.98	5/64	348	-
2.00★		348	451
2.10		348	451
2.20		348	451
2.30		445	577
2.38	3/32★	445	577
2.40		445	577
2.50★		445	577
2.60		445	577
2.70		445	577
2.78	7/64	445	577
2.80★		445	577
2.90		445	577
3.00★		449	582
3.10		449	582
3.17	1/8★	449	582
3.20		449	582
3.30★		449	582
3.40		449	582
3.50★		449	582
3.57	9/64	449	582
3.60		484	627
3.70		484	627
3.80		484	627
3.90		484	627
3.97	5/32★	484	627
4.00★		484	627
4.10		484	627
4.20		484	627
4.30		484	627
4.37	11/64	484	627

SIZE		PRICE (RS.) EACH	
MM	INCH	HSS M2	HSS M35
4.40		484	627
4.50		484	627
4.60		484	627
4.70		484	627
4.76	3/16	484	627
4.80		484	627
4.90		569	738
5.00★		569	738
5.10		569	738
5.16	13/64	569	738
5.20		569	738
5.30		654	848
5.40		654	848
5.50		654	848
5.56	7/32	654	848
5.60		710	920
5.70		710	920
5.80		710	920
5.90		710	920
5.95	15/64	710	920
6.00★		710	920
6.10		810	1050
6.20		810	1050
6.30		810	1050
6.35	1/4★	741	960
6.40		1032	1338
6.50		1032	1338
6.60		1245	1614
6.70		1245	1614
6.75	17/64	1245	1614
6.80		1245	1614
6.90		1245	1614
7.00		1245	1614
7.10		1245	1614
7.14	9/32	1245	1614
7.20		1245	1614
7.30		1245	1614
7.40		1245	1614
7.50		1245	1614
7.54	19/64	1245	1614
7.60		1245	1614
7.70		1245	1614
7.80		1245	1614
7.90		1283	1663
7.94	5/16	1283	1663
8.00★		1283	1663

**HSS PARALLEL SHANK (LONG SERIES)  
TWIST DRILLS - IS : 5102**

SIZE		PRICE (RS.) EACH	
MM	INCH	HSS M2	HSS M35
8.10		1283	1663
8.20		1283	1663
8.30		1283	1663
8.33	21/64	1283	1663
8.40		1283	1663
8.50		1293	1676
8.60		1359	1761
8.70		1359	1761
8.73	11/32	1359	1761
8.80		1645	2132
9.00		1429	1852
9.13	23/64	1617	2096
9.20		1645	2132
9.50		1429	1852
9.52	3/8	1429	1852
9.80		1653	2143
9.92	25/64	1653	2143
10.00★		1495	1938
10.20		1653	2143
10.32	13/32	1495	1938
10.50		1795	2327
10.72	27/64	2040	2645
10.80		2040	2645
11.00		1878	2435
11.11	7/16	1878	2435
11.20		2182	2828
11.50		1931	2503
11.51	29/64	2182	2828
11.80		2182	2828
11.91	15/32	1931	2503
12.00		1992	2582
12.20		2220	2878
12.30	31/64	2220	2878
12.50		1990	2580
12.70	1/2	1990	2580
12.80		3047	3949
13.00		2762	3580
13.10	33/64	3070	3980
13.20		3070	3980
13.49	17/32	2817	3651
13.50		3070	3980
13.80		3342	4332
13.89	35/64	3342	4332
14.00		3070	3980
14.25		3070	3980
14.29	9/16	3070	3980

SIZE		PRICE (RS.) EACH	
MM	INCH	HSS M2	HSS M35
14.50		3217	4171
14.68	37/64	3543	4593
14.75		3217	4171
15.00		3217	4171
15.08	19/32	3217	4171
15.25		3342	4332
15.48	39/64	3651	4733
15.50		3342	4332
15.75		3342	4332
15.87	5/8	3342	4332
16.00		3394	4400
16.25		3394	4400
16.27	41/64	3778	4897
16.50		3459	4484
16.67	21/32	3459	4484
16.75		3543	4593
17.00		3543	4593
17.07	43/64	3849	4990
17.25		3543	4593
17.46	11/16	3543	4593
17.50		3778	4897
17.75		3778	4897
17.86	45/64	4176	5414
18.00		3849	4990
18.25		3849	4990
18.26	23/32	3849	4990
18.50		4009	5197
18.65	47/64	4042	5240
18.75		4082	5292
19.00		4082	5292
19.05	3/4	4082	5292
19.25		4314	5592
19.45	49/64	4715	6112
19.50		4314	5592
19.75		4314	5592
19.84	25/32	4314	5592
20.00		4579	5936
20.24	51/64	4862	6303
20.25		4579	5936
20.30		4579	5936
20.64	13/16	4579	5936
20.75		4715	6112
21.00		4715	6112
21.03	53/64	5160	6689
21.25		4862	6303
21.43	27/32	4862	6303

## HSS PARALLEL SHANK (LONG SERIES) TWIST DRILLS - IS : 5102

SIZE		PRICE (RS.) EACH	
MM	INCH	HSS M2	HSS M35
21.50		5160	6689
21.75		5160	6689
21.83	55/64	5519	7154
22.00		5160	6689
22.15		5585	7239
22.22	7/8	5160	6689
22.25		5585	7239
22.62	57/64	5966	7734
22.75		5712	7405
23.00		5712	7405
23.02	29/32	5712	7405
23.25		5787	7501
23.42	59/64	6823	8845
23.50		6336	8214
23.75		6336	8214
23.81	15/16	6336	8214
24.00		6604	8561
24.21	61/64	7208	9344
24.25		6604	8561
24.50		6604	8561
24.61	31/32	6604	8561
24.75		7080	9178
25.00	63/64	7080	9178
25.25		7170	9295
25.40	1	7170	9295
25.50		8831	11448
25.75		8831	11448
25.80	1.1/64	9019	11691
26.00		9019	11691
26.19	1.1/32	9019	11691
26.25		9725	12607
26.50		9725	12607
26.59	1.3/64	9942	12888
26.75		9942	12888
26.99	1.1/16	9942	12888
27.00		10134	13136
27.25		10134	13136
27.38	1.5/64	10249	13286
27.50		10249	13286
27.75		10249	13286
27.78	1.3/32	10249	13286
28.00		11194	14511
28.18	1.7/64	11343	14704
28.25		11343	14704
28.50		11343	14704
28.57	1.1/8	11343	14704

SIZE		PRICE (RS.) EACH	
MM	INCH	HSS M2	HSS M35
28.75		11439	14829
28.97	1.9/64	11675	15134
29.00		11675	15134
29.25		11675	15134
29.37	1.5/32	11675	15134
29.50		11828	15333
29.75		11828	15333
29.77	1.11/64	12056	15628
30.00		12056	15628
30.16	1.3/16	12056	15628
30.25		12814	16611
30.50		12814	16611
30.56	1.13/64	13053	16920
30.75		13053	16920
30.96	1.7/32	13053	16920
31.00		14518	18820
31.25		14518	18820
31.35	1.15/64	15043	19501
31.50		15043	19501

ITEMS MARKED ★ (ONLY IN RH) ARE EX-STOCK ITEMS. ALL REMAINING ITEMS (RH) ONLY WILL ATTRACT MINIMUM ORDER VALUE OF RS. 50,000/- NETT MOQ OR 50 NOS. PER SIZE WHICHEVER IS HIGHER.

**IMPORTANT NOTES :**

1. For non listed intermediate sizes, the higher price of the nearest listed size (INCH or MM) will be applicable.
2. (a) Quick Spiral or Slow Spiral Drills :
  - Sizes up to (3.17 mm) 1/8" **50 % extra**
  - Sizes over (3.17 mm) 1/8" **25 % extra**
- (b) Left Hand Drills to IS : 5362
  - SIZE**
  - 3.00mm to 7.00mm
  - 7.1mm to 12.7mm
  - 12.8mm to 20mm
  - Above 20mm
- (c) long series Drills with Tenon
  - Sizes 3.00mm to 6.50mm **10 % extra**
  - Sizes over 6.50mm **5 % extra**

Sizes below 1mm are manufactured to our Standard

SIZE		PRICE PER EACH (RS.)		
MM	INCH	HSS M2	PANTHER HSS M35	NINJA HSS M42
3.00		555	-	-
3.17	1/8	555	-	-
3.20		580	-	-
3.50		555	-	-
3.57	9/64	580	-	-
3.80		580	-	-
3.97	5/32	555	-	-
4.00		555	-	-
4.20		750	-	-
4.37	11/64	750	-	-
4.50		750	-	-
4.76	3/16	750	-	-
4.80		750	-	-
5.00		750	-	-
5.16	13/64	771	-	-
5.20		771	-	-
5.50		750	-	-
5.56	7/32	750	-	-
5.80		771	-	-
5.95	15/64	771	-	-
6.00		750	-	-
6.20		864	-	-
6.35	1/4	858	-	-
6.50		931	-	-
6.75	17/64	945	-	-
6.80		945	-	-
7.00		931	-	-
7.14	9/32	931	-	-
7.20		945	-	-
7.50		931	-	-
7.54	19/64	945	-	-
7.80		945	-	-
7.94	5/16	933	-	-
8.00		933	-	-
8.20		1138	-	-
8.33	21/64	1199	-	-
8.50		1039	-	-
8.73	11/32	1138	-	-
8.80		1251	-	-
9.00		1138	-	-
9.13	23/64	1251	-	-
9.20		1251	-	-
9.50		1138	-	-
9.52	3/8	1138	1425	2050
9.80		1344	1679	2418

SIZE		PRICE PER EACH (RS.)		
MM	INCH	HSS M2	PANTHER HSS M35	NINJA HSS M42
9.92	25/64	1344	1679	2418
10.00		1216	1520	2190
10.20		1328	1659	2388
10.32	13/32	1283	1605	2309
10.50		1574	1965	2832
10.72	27/64	1631	2039	2935
10.80		1631	2039	2935
11.00		1631	2040	2935
11.11	7/16	1631	2039	2935
11.20		1684	2105	3031
11.50		1684	2105	3031
11.51	29/64	1684	2105	3031
11.80		1684	2105	3031
11.91	15/32	1684	2105	3031
12.00		1701	2126	3062
12.20		1701	2126	3062
12.30	31/64	1701	2126	3062
12.50		1701	2126	3062
12.70	1/2	1701	2126	3062
12.80		2368	2961	4263
13.00		2368	2961	4263
13.10	33/64	2470	3087	4446
13.20		2470	3087	4446
13.49	17/32	2470	3087	4446
13.50		2645	3306	4761
13.80		2645	3306	4761
13.89	35/64	2645	3306	4761
14.00		2645	3306	4761
14.25		2844	3555	5119
14.29	9/16	2844	3555	5119
14.50		2953	3691	5315
14.68	37/64	2953	3691	5315
14.75		2953	3691	5315
15.00		2953	3691	5315
15.08	19/32	2953	3691	5315
15.25		2996	3745	5393
15.48	39/64	2996	3745	5393
15.50		2996	3745	5393
15.75		2996	3745	5393
15.87	5/8	2996	3745	5392
16.00		3083	3854	5552
16.25		3083	3857	5552
16.27	41/64	3083	3857	5552
16.50		3277	4094	5899
16.67	21/32	3277	4094	5899

SIZE		PRICE PER EACH (RS.)		
MM	INCH	HSS M2	PANTHER HSS M35	NINJA HSS M42
16.75		3277	4094	5899
17.00		3277	4094	5899
17.07	43/64	3331	4163	5995
17.25		3331	4163	5995
17.46	11/16	3331	4163	5995
17.50		3457	4321	6223
17.75		3507	4383	6312
17.86	45/64	3642	4552	6555
18.00		3642	4552	6555
18.25		3642	4552	6555
18.26	23/32	3642	4552	6555
18.50		3642	4552	6555
18.65	47/64	3686	4608	6635
18.75		3686	4608	6635
19.00		3686	4608	6635
19.05	3/4	3686	4608	6635
19.25		3871	4838	6967
19.45	49/64	3871	4838	6967
19.50		3871	4838	6967
19.75		3871	4838	6967
19.84	25/32	3871	4838	6967
20.00		4164	5206	7496
20.24	51/64	4215	5269	7587
20.25		4215	5269	7587
20.50		4215	5269	7587
20.64	13/16	4215	5269	7587
20.75		4395	5493	7910
21.00		4395	5493	7910
21.03	53/64	4501	5627	8103
21.25		4501	5627	8103
21.43	27/32	4501	5627	8103
21.50		4643	5804	8357
21.75		4643	5804	8357
21.83	55/64	4729	5912	8513
22.00		4729	5912	8513
22.22	7/8	4729	5912	8513
22.25		5154	6442	9277
22.50		5154	6442	9277
22.62	57/64	5254	6568	9458
22.75		5254	6568	9458
23.00		5254	6568	9458
23.02	29/32	5511	6889	9920
23.25		6101	7626	10982
23.42	59/64	6254	7818	11258
23.50		6254	7818	11258

SIZE		PRICE PER EACH (RS.)		
MM	INCH	HSS M2	PANTHER HSS M35	NINJA HSS M42
23.75		6254	7818	11258
23.81	15/16	6254	7818	11258
24.00		6439	8049	11590
24.21	61/64	6548	8185	11786
24.25		6548	8185	11786
24.50		6548	8183	11786
24.61	31/32	6548	8185	11786
24.75		6842	8552	12315
25.00	63/64	6842	8552	12315
25.25		6933	8666	12479
25.40	1	6933	8666	12479
25.50		7535	-	-
25.75		7535	-	-
25.80	1.1/64	7617	-	-
26.00		7339	-	-
26.19	1.1/32	7327	-	-
26.25		7915	-	-
26.50		7915	-	-
26.59	1.3/64	8097	-	-
26.75		8097	-	-
26.99	1.1/16	8097	-	-
27.00		8364	-	-
27.25		8364	-	-
27.38	1.5/64	8388	-	-
27.50		8388	-	-
27.75		8388	-	-
27.78	1.3/32	8388	-	-
28.00		9172	-	-
28.18	1.7/64	9198	-	-
28.25		9198	-	-
28.50		9198	-	-
28.57	1.1/8	9198	-	-
28.75		9477	-	-
28.97	1.9/64	9631	-	-
29.00		9631	-	-
29.25		9631	-	-
29.37	1.5/32	9631	-	-
29.50		9669	-	-
29.75		9669	-	-
29.77	1.11/64	9872	-	-
30.00		9872	-	-
30.16	1.3/16	10423	-	-
30.25		11226	-	-
30.50		11226	-	-
30.56	1.13/64	11407	-	-

SIZE		PRICE PER EACH (RS.)		
MM	INCH	HSS M2	PANTHER HSS M35	NINJA HSS M42
30.75		11407	-	-
30.96	1.7/32	11407	-	-
31.00		12693	-	-
31.25		12693	-	-
31.35	1.15/64	13247	-	-
31.50		13247	-	-
31.75	1.1/4	13247	-	-
32.00		14504	-	-
32.15	1.17/64	14504	-	-
32.50		14504	-	-
32.54	1.9/32	14504	-	-
32.94	1.19/64	14851	-	-
33.00		14851	-	-
33.34	1.5/16	14851	-	-
33.50		15361	-	-
33.73	1.21/64	15649	-	-
34.00		15649	-	-
34.13	1.11/32	16312	-	-
34.50		17139	-	-
34.58	1.23/64	17296	-	-
34.92	1.3/8	17296	-	-
35.00		17296	-	-
35.32	1.25/64	18332	-	-
35.50		18332	-	-
35.72	1.13/32	18332	-	-
36.00		18602	-	-
36.12	1.27/64	18985	-	-
36.50		18985	-	-
36.51	1.7/16	18985	-	-
36.91	1.29/64	18985	-	-
37.00		19455	-	-
37.31	1.15/32	19455	-	-
37.50		20718	-	-
37.70	1.31/64	21041	-	-
38.00		21041	-	-
38.10	1.1/2	21041	-	-
38.15	1.33/64	21697	-	-
38.89	1.17/32	21697	-	-
39.00		22980	-	-
39.29	1.35/64	22980	-	-
39.50		22980	-	-
39.69	1.9/16	22980	-	-
40.00		23571	-	-
40.08	1.37/64	23959	-	-
40.48	1.19/32	23959	-	-

SIZE		PRICE PER EACH (RS.)		
MM	INCH	HSS M2	PANTHER HSS M35	NINJA HSS M42
40.50		24917	-	-
40.88	1.39/64	24917	-	-
41.00		24917	-	-
41.27	1.5/8	24917	-	-
41.50		25893	-	-
41.67	1.41/64	25893	-	-
42.00		25893	-	-
42.07	1.21/32	25893	-	-
42.47	1.43/64	26557	-	-
42.50		26557	-	-
42.86	1.11/16	26883	-	-
43.00		27514	-	-
43.26	1.45/64	27514	-	-
43.50		27514	-	-
43.66	1.23/32	27514	-	-
44.00		28484	-	-
44.05	1.47/64	28484	-	-
44.45	1.3/4	28484	-	-
44.50		28484	-	-
44.85	1.49/64	29152	-	-
45.00		29152	-	-
45.24	1.23/32	29152	-	-
45.50		30472	-	-
45.64	1.51/64	30472	-	-
46.00		30472	-	-
46.04	1.13/16	30472	-	-
46.43	1.53/64	32009	-	-
46.50		32009	-	-
46.83	1.27/32	32009	-	-
47.00		32009	-	-
47.23	1.53/64	32680	-	-
47.50		32680	-	-
47.62	1.7/8	32680	-	-
48.00		35635	-	-
48.02	1.57/64	35635	-	-
48.42	1.29/32	35635	-	-
48.50		35895	-	-
48.82	1.59/64	35895	-	-
49.00		35895	-	-
49.21	1.15/16	35895	-	-
49.50		36282	-	-
49.61	1.61/64	36282	-	-
50.00		36282	-	-
50.01	1.31/32	36568	-	-
50.40	1.63/64	38211	-	-

SIZE		PRICE PER EACH (RS.)		
MM	INCH	HSS M2	PANTHER HSS M35	NINJA HSS M42
50.50		38211	-	-
50.80	2	38211	-	-
51.00		51880	-	-
51.50		51880	-	-
51.59	2.1/32	51880	-	-
52.00		51880	-	-
52.39	2.1/16	51880	-	-
52.50		67521	-	-
53.00		67521	-	-
53.18	2.3/32	67521	-	-
53.50		67521	-	-
53.97	2.1/8	67521	-	-
54.00		67521	-	-
54.50		70930	-	-
54.77	2.5/32	70930	-	-
55.00		70830	-	-
55.50		70930	-	-
55.56	2.3/16	70930	-	-
56.00		73911	-	-
56.36	2.7/32	73911	-	-
56.50		73911	-	-
57.00		73911	-	-
57.15	2.1/4	73911	-	-
57.50		80661	-	-
57.94	2.9/32	80661	-	-
58.00		80661	-	-
58.50		80661	-	-
58.74	2.5/16	80661	-	-
59.00		82202	-	-
59.50		82202	-	-
59.53	2.11/32	82202	-	-
60.00		82202	-	-
60.32	2.3/8	82202	-	-
60.50		87374	-	-
61.00		87374	-	-
61.12	2.13/32	87374	-	-
61.15		87374	-	-
61.91	2.7/16	87374	-	-
62.00		87374	-	-
62.50		87374	-	-
62.71	2.15/32	88845	-	-
63.00		88845	-	-
63.50	2.1/2	88845	-	-
64.00		98196	-	-
64.29	2.17/32	98196	-	-

SIZE		PRICE PER EACH (RS.)		
MM	INCH	HSS M2	PANTHER HSS M35	NINJA HSS M42
65.00		98196	-	-
65.09	2.9/16	98926	-	-
65.88	2.19/32	98926	-	-
66.00		98926	-	-
66.67	2.5/8	98926	-	-
67.00		101341	-	-
67.47	2.21/32	108782	-	-
68.00		108782	-	-
68.26	2.11/16	108782	-	-
69.00		117912	-	-
69.06	2.23/32	117912	-	-
69.85	2.3/4	117912	-	-
70.00		117912	-	-
70.64	2.25/32	127171	-	-
71.00		127171	-	-
71.44	2.13/16	127171	-	-
71.50		127171	-	-
72.00		129626	-	-
72.23	2.27/32	129626	-	-
73.00		129626	-	-
73.02	2.7/8	129626	-	-
73.82	2.29/32	137958	-	-
74.00		137958	-	-
74.61	2.15/16	137958	-	-
75.00		139673	-	-
75.41	2.31/32	139673	-	-
76.00		139673	-	-
76.20	3	139673	-	-
76.99	3.1/32	191080	-	-
77.00		191080	-	-
77.79	3.1/16	191080	-	-
78.00		191080	-	-
78.58	3.3/32	194889	-	-
79.00		194889	-	-
79.37	3.1/8	200062	-	-
80.00		200062	-	-
80.17	3.5/32	213985	-	-
80.96	3.3/16	213985	-	-
81.00		213985	-	-
81.76	3.7/32	219546	-	-
82.00		219546	-	-
82.55	3.1/4	219546	-	-
83.00		224082	-	-
83.34	3.9/32	224082	-	-
84.00		224082	-	-

SIZE		PRICE PER EACH (RS.)		
MM	INCH	HSS M2	PANTHER HSS M35	NINJA HSS M42
84.14	3.5/16	227808	-	-
84.99	3.11/32	227808	-	-
85.00		218522	-	-
85.72	3.3/8	259850	-	-
86.00		259850	-	-
86.52	3.13/32	259850	-	-
87.00		259850	-	-
87.31	3.7/16	265280	-	-
88.00		265280	-	-
88.11	3.15/32	265280	-	-
88.90	3.1/2	265280	-	-
89.00		265280	-	-
90.00		270691	-	-
90.49	3.9/16	280787	-	-
91.00		280787	-	-
92.00		280787	-	-
92.07	3.5/8	289956	-	-

SIZE		PRICE PER EACH (RS.)		
MM	INCH	HSS M2	PANTHER HSS M35	NINJA HSS M42
93.00		289956	-	-
93.66	3.11/16	300924	-	-
94.00		300924	-	-
95.00		300924	-	-
95.25	3.3/4	300924	-	-
96.00		310997	-	-
96.84	3.13/16	310997	-	-
97.00		310997	-	-
98.00		316497	-	-
98.42	3.7/8	321014	-	-
99.00		321014	-	-
100.00		321014	-	-
100.01	3.15/16	326515	-	-
101.00		326515	-	-
101.60	4	326515	-	-
102.00		326515	-	-

ITEMS MARKED ★ : (ONLY IN RH) ARE EX-STOCK ITEMS. ALL REMAINING ITEMS (RH) WILL ATTRACT MINIMUM ORDER VALUE OF RS. 50,000/- NETT MOQ OR 50 NOS. PER SIZE WHICHEVER IS HIGHER.

**IMPORTANT NOTES :**

1. For non listed intermediate sizes, the higher price of the nearest listed size (INCH or MM) will be applicable.
2. Quick Spiral or Slow Spiral Drills :
3. Oversize shank Drills to IS : 5104 in the following range **10% extra**.

SIZE RANGE		INSTEAD OF MT NO.
MM	INCH	
11.8 to 14.0	15/32 to 35/64	1
18.0 to 23.0	23/32 to 29/32	2
26.5 to 31.75	1.3/64 to 1.1/4	3
40.0 to 80.80	1.37/64 to 2	4
63.0 to 76.20	2.1/2 to 3	5

**MORSE TAPER SHANK TWIST DRILLS (IS : 5103)**

MORSE TAPER SHANK NO.	DRILL SIZES			
	MM		INCH	
	OVER	UPTO & INCL	OVER	UPTO & INCL
1	3.00	14.00	1/8	35/64
2	14.00	23.00	35/64	29/32
3	23.00	31.75	29/32	1.1/4
4	31.75	50.80	1.1/4	2
5	50.80	76.20	2	3
6	76.20	100.00	3	4

**HSS TAPER SHANK O3 OR O4  
FLUTED CORE DRILLS IS - 5366**

SIZE		PRICE (RS.) EACH
MM	INCH	
7.94	5/16	1832
8.00		1835
9.52	3/8	2019
10.00		2019
10.32	13/32	2019
11.00		2021
11.11	7/16	2021
11.91	15/32	2161
12.00		2161
12.70	1/2	2284
13.00		3088
13.49	17/32	3379
14.00		3379
14.29	9/16	3475
15.00		3628
15.08	19/32	3628
15.87	5/8	3710
16.00		3710
16.67	21/32	3910
17.00		3910
17.46	11/16	4222
18.00		4544
18.26	23/32	4544
19.00		5188
19.05	3/4	5188
19.84	25/32	5213
20.00		5213
20.64	13/16	5575
21.00		5535
21.43	27/32	5895
22.00		5895
22.22	7/8	6254
23.00		6621
23.02	29/32	6621
23.81	15/16	7227
24.00		7585
24.61	31/32	7585
25.00		8776
25.40	1	8776
26.00		9474
26.19	1.1/32	9474
26.99	1.1/16	10455
27.00		10455
27.78	1.3/32	10853
28.57	1.1/8	11502
29.00		12038

SIZE		PRICE (RS.) EACH
MM	INCH	
29.37	1.5/32	12038
30.00		12785
30.16	1.3/16	12785
30.96	1.7/32	13272
31.00		14921
31.75	1.1/4	15580
32.00		17073
32.54	1.9/32	17073
33.00		17431
33.34	1.5/16	17431
34.00		19116
34.13	1.11/32	19116
34.92	1.3/8	20190
35.00		20190
35.72	1.13/32	21714
36.00		21714
36.51	1.7/16	22908
37.00		22908
37.31	1.15/32	23559
38.00		25205
38.10	1.1/2	25205
39.00		27640
39.69	1.9/16	27640
40.00		27640
41.00		30462
41.27	1.5/8	30462
42.00		31365
42.07	1.21/32	31365
42.86	1.11/16	32376
43.00		32376
44.00		34219
44.45	1.3/4	34219
45.00		35428
45.24	1.25/32	35427
46.00		36741
46.04	1.13/16	36741
47.00		38181
47.62	1.7/8	40148
48.00		40148
49.00		42871
49.21	1.15/16	42871
50.00		46134
50.80	2	51012
51.00		51454
52.00		56670
52.39	2.1/16	56670

## HSS TAPER SHANK O3 OR O4 FLUTED CORE DRILLS IS - 5366

SIZE		PRICE (RS.) EACH
MM	INCH	
53.00		66196
53.97	2.1/8	66196
54.00		66196
55.00		69386
55.36	2.3/16	69386
56.00		72323
57.00		72323
57.15	2.1/4	72323
58.00		79035
58.74	2.5/16	79035
59.00		80497
60.00		80497
60.32	2.3/8	80497
61.00		85788
61.91	2.7/16	85788
62.00		85788
63.00		88253
63.50	2.1/2	88253
64.00		96360
65.00		96360

SIZE		PRICE (RS.) EACH
MM	INCH	
65.09	2.9/16	96360
66.00		101033
66.67	2.5/8	101033
67.00		105250
68.00		110360
68.26	2.11/16	110360
69.00		115753
69.85	2.3/4	117922
70.00		117922
71.00		120256
71.44	2.13/16	120256
72.00		125752
73.00		130414
73.02	2.7/8	130414
74.00		135345
74.61	2.15/16	135345
75.00		140332
76.00		147072
76.20	3	147072

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF RS. 50,000/- NETT OR 5 NOS. PER SIZE WHICHEVER IS HIGHER.

**IMPORTANT NOTES :**

1. For non listed intermediate sizes. The higher price of the nearest listed size (INCH or MM) will be applicable.
2. Sizes upto 20mm will be with 3 flutes and above 20mm will be with 4 flutes unless otherwise specified.
3. Core drills with nonstandard number of flutes - **10% extra**
4. For **M35 = 40% & M42 = 80% extra**

## HSS SHELL DRILLS BS : 122 : II : 1964

NOM DIA INCH	PRICE (RS.) EACH	NOM DIA INCH	PRICE (RS.) EACH
1	4581	2	10127
1.1/16	4837	2.1/8	11193
1.1/8	5127	2.1/4	12249
1.3/16	5441	2.3/8	13705
1.1/4	5682	2.1/2	16668
1.5/16	5958	2.5/8	19364
1.3/8	6297	2.3/4	21303
1.7/16	6574	2.7/8	23674
1.1/2	6812	3	25998
1.9/16	7201	3.1/8	29151
1.5/8	7517	3.1/4	31970
1.11/16	8532	3.3/8	34384
1.3/4	8729	3.1/2	36918
1.13/16	9070	3.5/8	43617
1.7/8	9343	3.3/4	45629
1.15/16	9795	3.7/8	52817
		4	58369

## HSS COMBINED DRILLS & COUNTERSINKS (CENTRE DRILLS) IS : 6708 / TYPE 'A'

PILOT DAI MM	BODY DAI MM	PRICE (RS.) EACH	PILOT DAI MM	BODY DAI MM	PRICE (RS.) EACH
1	3.15	301	4	10	615
1.25	3.15	301	5	12.5	1120
1.60	4	301	6.3	16	1325
2	5	301	8	20	2046
2.50	6.3	348	10	25	2634
3.15	8	538			

## HSS COMBINED DRILLS & COUNTERSINKS (CENTRE DRILLS) IS : 6710 / TYPE 'R'

PILOT DAI MM	BODY DAI MM	PRICE (RS.) EACH	PILOT DAI MM	BODY DAI MM	PRICE (RS.) EACH
2	5	300	5	12.5	1120
2.50	6.3	348	6.3	16	1325
3.15	8	538	8	20	2046
4	10	665	10	25	2634

## HSS COMBINED DRILLS & COUNTERSINKS (CENTRE DRILLS) IS : 6709 / TYPE 'B'

PILOT DAI MM	BODY DAI MM	PRICE (RS.) EACH	PILOT DAI MM	BODY DAI MM	PRICE (RS.) EACH
1	4	495	4	14	1833
1.25	5	528	5	18	2830
1.60	6.3	616	6	20	3334
2	8	870	8	25	4315
2.50	10	1111	10	31.5	5121
3.15	11.2	1479			

## HSS COMBINED DRILLS & COUNTERSINKS (CENTRE DRILLS) BS : 328 (PART 2) 1950

B.S. NO	PILOT DIA INCH	BODY DAI INCH	OAL INCH	PRICE (RS.) EACH
BS-1	3/64	1/8	1.1/2	301
BS-2	1/16	3/16	1.3/4	301
BS-3	3/32	1/4	2	348
BS-4	1/8	5/16	2.1/4	538
BS-5	3/16	7/16	2.1/2	703
BS-6	1/4	5/8	3	1325
BS-7	5/16	3/4	3.1/2	2046

ITEMS MARKED ★ : (ONLY IN RH) ARE EX-STOCK ITEMS. ALL REMAINING ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF RS. 50,000/- NETT OR MOQ OF 5 NOS. PER SIZE WHICHEVER IS HIGHER.

FOR M35 = 40% & M42 = 80% extra.

**HSS TAPER SHANK TWIST DRILL (LONG SERIES)**  
**IS : 8305 - 1976 (TYPE 'N')**

SIZE		OAL	PRICE (RS.) EACH
MM	INCH	MM	
5.00		155	1696
	13/64	155	1696
5.20		155	1696
5.50		161	1889
	7/32	161	1889
5.80		161	1889
	15/64	161	1889
6.00		161	1889
6.20		167	2105
	1/4	167	2104
6.50		167	2105
	17/64	174	2269
6.80		174	2269
7.00		174	2269
	9/32	174	2269
7.20		174	2339
7.50		174	2339
	19/64	181	2474
7.80		181	2474
	5/16	181	2474
8.00		181	2474
8.20		181	2524
	21/64	181	2524
8.50		181	2524
	11/32	188	2736
8.80		188	2737
9.00		188	2737
	23/64	188	2802
9.20		188	2802
9.50		188	2802
	3/8	197	2802
9.80		197	3182
	25/64	197	3182
10.00		197	3182
10.20		197	3270
	13/32	197	3270
10.50		197	3270
	27/64	206	3342
10.80		206	3342
11.00		206	3342
	7/16	206	3467
11.20		206	3467
11.50		206	3467
	29/64	206	3467
11.80		206	3467
	15/32	215	4108

SIZE		OAL	PRICE (RS.) EACH
MM	INCH	MM	
12.00		215	4108
12.20		215	4331
	31/64	215	4331
12.50		215	4331
	1/2	215	4331
12.80		215	4331
13.00		215	4331
	33/64	215	4331
13.20		215	4332
	17/32	223	4748
13.50		223	4748
13.80		223	4939
	35/64	223	4939
14.00		223	4940
14.25		245	6164
	9/16	245	6164
14.50		245	6302
	37/64	245	6302
14.75		245	6302
15.00		245	6302
	19/32	251	6442
15.25		251	6442
	39/64	251	6442
15.50		251	6442
15.75		251	6609
	5/8	251	6609
16.00		251	6609
16.25		257	6725
	41/64	257	6725
16.50		257	6725
	21/32	257	6869
16.75		257	6869
17.00		257	6869
	43/64	263	7457
17.25		263	7457
	11/16	263	7457
17.50		263	7457
17.75		263	7476
	45/64	263	7476
18.00		263	7476
18.25		269	7593
	23/32	269	7593
18.50		269	7593
	47/64	269	7714
18.75		269	7714
19.00		269	7714

**HSS TAPER SHANK TWIST DRILL (LONG SERIES)**  
**IS : 8305 - 1976 (TYPE 'N')**

SIZE		OAL	PRICE (RS.) EACH
MM	INCH	MM	
	3/4	275	7714
19.25		275	7925
	49/64	275	7925
19.50		275	7925
19.75		275	8056
	25/32	275	8056
20.00		275	8056
	51/64	282	8190
20.25		282	8190
20.50		282	8190
	13/16	282	8342
20.75		282	8342
21.00		282	8342
	53/64	282	9692
21.25		289	9691
	27/32	289	9692
21.50		289	9691
21.75		289	9885
	55/64	289	9885
22.00		289	9885
	7/8	289	10556
22.25		289	10556
22.50		296	10556
	57/64	296	11066
22.75		296	11066
23.00		296	11066
	29/32	296	13517
23.25		319	13517
	59/64	319	13517
23.50		319	13517
23.75		327	13517
	15/16	327	13517
24.00		327	13517
	61/64	327	14108
24.25		327	14108
24.50		327	14108
	31/32	327	14623
24.75		327	14623
25.00		327	14623
25.25		335	14623
	1	335	14623
25.50		335	14623
25.75		335	15207
26.00		335	15207
	1.1/32	335	15645
26.25		335	15645

SIZE		OAL	PRICE (RS.) EACH
MM	INCH	MM	
26.50		335	15645
26.75		343	18544
	1.1/16	343	18544
27.00		343	18544
27.25		343	19135
27.50		343	19135
27.75		343	19723
	1.3/32	343	19723
28.00		343	20335
	1.19/32	436	41093
28.25		351	20357
28.50		351	20357
	1.1/8	351	20357
28.75		351	20930
29.00		351	20930
29.25		351	21509
	1.5/32	351	21509
29.50		351	21509
29.75		351	22119
30.00		351	22119
	1.3/16	360	22119
30.25		360	22706
30.50		360	22706
30.75		360	22706
	1.7/32	360	22706
31.00		360	22706
31.25		360	22871
31.50		360	22871
31.75	1.1/4	369	23754
32.00		397	27361
32.50		397	28544
	1.9/32	397	28544
33.00		397	28544
	1.5/16	397	28544
33.50		397	29786
34.00		406	29786
	1.11/32	406	31089
34.50		406	31089
	1.3/8	406	31089
35.00		406	31089
35.50		406	31089
	1.13/32	416	34066
36.00		416	34066
36.50		416	35341
	1.7/16	416	35341
37.00		416	35341

**HSS TAPER SHANK TWIST DRILL (LONG SERIES)  
IS : 8305 - 1976 (TYPE 'N')**

SIZE		OAL	PRICE (RS.) EACH
MM	INCH	MM	
	1.15/32	416	38273
37.50		416	38273
38.00		426	38273
	1.1/2	426	38273
38.50		426	39528
	1.17/32	426	39528
39.00		426	39528
39.50		426	41093
	1.9/16	426	41093
40.00		426	41093
40.50		436	41093
41.00		436	41093
	1.5/8	436	41093
41.50		436	43196
42.00		436	43196
	1.21/32	436	45701
42.50		436	45701
	1.11/16	447	49096
43.00		447	49096
43.50		447	51754
	1.23/32	447	51754

SIZE		OAL	PRICE (RS.) EACH
MM	INCH	MM	
44.00		447	51754
	1.3/4	447	53882
44.50		447	53882
45.00		447	53882
	1.25/32		56810
45.50		459	56810
46.00			56810
	1.13/16		56810
46.50		459	59121
	1.27/32		59121
47.00			59121
47.50		459	62108
	1.7/8	470	62108
48.00			62108
	1.29/32		68025
48.50		470	68025
49.00			68025
	1.15/16	470	68025
49.50			68025
50.00			71528

ITEMS MARKED ARE EX-STOCK ITEMS. ALL REMAINING ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF RS. 50,000/- NETT OR MOQ OF 5 NOS. PER SIZE WHICHEVER IS HIGHER.

FOR M35 = 40% & M42 = 80% extra.

**IMPORTANT NOTES :**

For non listed intermediate sizes, the higher price of the nearest listed size (INCH or MM) will be applicable.

**HSS TAPER SHANK TWIST DRILLS  
EXTRA LONG IS 7822 - 2005**

SIZE		OVERALL LENGTH IN MILLIMETERS						
MM	INCH	200	225	250	275	300	315	325
		PRICE EACH RS.						
3.00	1/8	2385	2802	3104	3532	4006	-	4625
3.50		2449	2802	3191	3620	4107	-	4750
4.00	5/32	2449	2802	3191	3620	4107	-	4750
4.50		2514	2881	3191	3707	4356	-	4997
5.00	3/16	2514	2881	3191	3707	4356	-	4997
5.50	7/32	2514	2903	3347	3925	4447	-	5130
6.00		2526	2903	3379	3925	4447	4862	5130
6.50	1/4	2564	2994	3398	4122	4625	5016	5280
7.00		2794	3146	3531	4200	4837	5321	5547
7.50		2825	3224	3633	4276	4966	5441	5651
8.00	5/16	2952	3296	3778	4430	5090	5526	5808
8.50		3047	3419	3850	4510	5186	5595	5970
9.00		3096	3470	3943	4533	5224	5740	6020
9.50	3/8	3172	3510	3943	4657	5357	5819	6047
10.00		3182	3600	4060	4740	5460	5961	6213
10.50		3270	3736	4331	5008	5740	6215	6529
11.00		3343	3850	4375	5090	5846	6418	6697
11.50	7/16	3467	3930	4486	5214	5989	6529	6823
12.00		-	4108	4681	5422	6213	6781	7126
12.50	1/2	-	4331	4837	5620	6405	7001	7321
13.00		-	-	5740	6575	7465	8103	8524
13.50		-	-	5925	6707	7666	8303	8677
14.00		-	-	6123	6908	7805	8469	8816
14.50	9/16	-	-	6164	7002	7923	8514	8945
15.00		-	-	6302	7154	8114	8695	9164
15.50		-	-	6444	7320	8191	8867	9288
16.00	5/8	-	-	6609	7444	8355	8991	9454
16.50		-	-	6725	7543	8514	9164	9603
17.00		-	-	6869	7726	8602	9272	9734
17.50	11/16	-	-	-	-	8816	9450	9921
18.00		-	-	-	-	8945	9663	10077
18.50		-	-	-	-	9088	9778	10259
19.00	3/4	-	-	-	-	9248	9921	10412
19.50		-	-	-	-	9364	10034	10515
20.00		-	-	-	-	9522	10198	10714
20.50		-	-	-	-	9699	10383	10865
21.00	13/16	-	-	-	-	9872	10259	11051
21.50		-	-	-	-	10077	10759	11234
22.00		-	-	-	-	10298	11047	11554
22.50	7/8	-	-	-	-	10570	11278	11801
23.00		-	-	-	-	11065	11810	12241
23.50		-	-	-	-	12155	-	13517
24.00	15/16	-	-	-	-	12155	-	13517
24.50		-	-	-	-	12537	-	14108
25.00		-	-	-	-	-	-	14621

**HSS TAPER SHANK TWIST DRILLS  
EXTRA LONG IS 7822 - 2005**

SIZE		OVERALL LENGTH IN MILLIMETERS						
MM	INCH	350	375	400	425	450	475	500
		PRICE EACH RS.						
3.00	1/8	-	-	-	-	-	-	-
3.50		-	-	-	-	-	-	-
4.00	5/32	-	-	-	-	-	-	-
4.50		-	-	-	-	-	-	-
5.00	3/16	-	-	-	-	-	-	-
5.50	7/32	-	-	-	-	-	-	-
6.00		5396	6938	7400	8387	8877	9960	10482
6.50	1/4	6032	7753	8270	9370	9925	11129	11712
7.00		6368	7444	7935	8999	9527	10679	11246
7.50		6368	7444	7935	8999	9527	10679	11246
8.00	5/16	6123	7154	7632	8653	9155	10272	10811
8.50		6283	7341	7834	8875	9399	10542	11095
9.00		6625	7741	8257	9357	9911	11111	11697
9.50	3/8	6625	7744	8257	9357	9911	11111	11697
10.00		6955	7842	8722	9478	10031	11250	11848
10.50		7465	8387	9450	11404	12064	14052	14794
11.00		7602	8524	9530	11361	12027	14011	14745
11.50	7/16	7805	8747	9778	11755	12442	14495	15251
12.00		8056	8945	10034	11402	12071	14059	14801
12.50	1/2	8436	9522	10759	11402	12071	14059	14801
13.00		9699	10885	12227	15128	16790	18456	20579
13.50		9884	11157	12537	15285	17061	19196	21532
14.00		10077	11386	12775	15285	-	19196	21532
14.50	9/16	10272	11583	13000	15285	17060	19199	21530
15.00		10477	11744	13213	15216	17266	19390	21751
15.50		10636	11969	13394	15325	17433	19559	21938
16.00	5/8	10790	12155	13624	15644	17733	19799	22179
16.50		10989	12379	13955	15880	17920	20001	22316
17.00		11157	12544	14108	16069	18143	20193	22523
17.50	11/16	11371	12759	14278	16260	18352	20450	22735
18.00		11554	12981	14537	16465	18543	20661	22953
18.50		11656	13135	14765	16674	18757	20803	23177
19.00	3/4	11848	13338	14961	16850	18969	21008	23309
19.50		12061	13600	15266	17060	19194	21260	23536
20.00		12201	13783	15486	17399	19390	21492	23824
20.50		12405	13955	15715	17608	19723	21824	24183
21.00	13/16	12673	14243	15973	17988	20059	22223	24560
21.50		12894	14516	16278	18255	20481	22625	25062
22.00		13135	14765	16552	18543	20801	22987	25459
22.50	7/8	13359	14961	16728	18863	21088	23381	25882
23.00		13799	15287	17026	19135	21471	23727	26259
23.50		14814	16284	17607	19785	22084	24445	27065
24.00	15/16	14961	16496	18225	20407	22784	25109	27787
24.50		15643	17060	18846	21078	23432	25845	28541
25.00		16218	17733	19426	21673	24111	26562	29339

## HSS TAPER SHANK TWIST DRILLS EXTRA LONG IS 7822 - 2005 (Contd.)

SIZE		OVERALL LENGTH IN MILLIMETERS							
MM	INCH	350	375	400	425	450	475	500	525
		PRICE EACH RS.							
25.50		16718	18255	20005	22290	24741	27278	30024	39331
26.00	1/4	17399	18915	20654	22953	25473	27981	30826	39377
26.50		17920	19466	21230	23593	26122	28642	31578	39486
27.00		18543	20150	21857	24217	26776	29390	32316	39619
27.50	5/16	19135	20661	22398	24861	27451	30069	33043	39702
28.00		19723	21260	23053	25473	28115	31419	33843	42420
28.50		20359	21888	23625	26067	28797	31527	34541	42512
29.00	3/8	20930	22488	24271	26725	29484	32193	35322	42566
29.50		21509	23053	24844	27361	30111	32922	36096	42619
30.00		22119	23674	25459	27981	30791	33613	36805	42735
31.00		22706	24265	26076	28675	31590	34490	37843	42807
32.00	7/16	22871	24741	27361	30069	33118	36096	39600	43321
33.00		-	-	28541	31409	34596	37711	41331	44094
34.00	1/2	-	-	29787	32742	36074	39344	43108	45951
35.00		-	-	31090	34182	37560	40987	44865	47813
36.00		-	-	32316	35477	39013	42566	46624	49598
37.00		-	-	33547	36805	40500	44167	48320	51452
38.00	9/16	-	-	34826	38271	42068	45820	50153	53393
39.00		-	-	36096	39948	43404	47275	51652	54978
40.00		-	-	37606	41093	44933	48874	53347	56714
41.00	5/8	-	-	-	-	-	-	55113	58470
42.00		-	-	-	-	-	-	57564	60760
43.00		-	-	-	-	-	-	60118	63658
44.00	11/16	-	-	-	-	-	-	62625	65908
45.00		-	-	-	-	-	-	65178	70832
46.00		-	-	-	-	-	-	67936	69552
47.00	3/4	-	-	-	-	-	-	70684	76696
48.00		-	-	-	-	-	-	73437	84234
49.00		-	-	-	-	-	-	76138	84856
50.00		-	-	-	-	-	-	79205	84615

SIZE		OVERALL LENGTH IN MILLIMETERS						
MM	INCH	550	575	600	625	650	675	700
		PRICE EACH RS.						
25.50		41203	43074	44947	50030	56305	57357	60636
26.00	1/4	41655	43545	45441	54729	56920	57734	61300
26.50		41942	43843	45749	54846	57026	57834	61400
27.00		42230	44137	46058	54962	57122	59318	61505
27.50	5/16	42517	44425	46363	55075	57227	59422	61605
28.00		42810	44727	47393	55188	57337	59530	61710
28.50		43100	45026	48446	55306	57441	59629	62202
29.00	3/8	43391	46007	50444	55421	56610	60146	63679
29.50		43699	46935	51031	55540	57856	61468	65070

## HSS TAPER SHANK TWIST DRILLS EXTRA LONG IS 7822 - 2005 (Contd.)

SIZE		OVERALL LENGTH IN MILLIMETERS						
MM	INCH	550	575	600	625	650	675	700
		PRICE EACH RS.						
30.00		46909	48975	51090	59363	61605	63944	66268
31.00		47221	49290	51422	59498	61720	64053	66376
32.00	7/16	47606	49652	51770	59652	61848	64174	66492
33.00		47806	49972	52149	59754	62146	64532	66923
34.00	1/2	49656	51912	54170	62065	64551	67032	69510
35.00		51797	57358	59848	64291	67042	70806	74697
36.00		52262	58677	61599	65568	69542	73402	78578
37.00		53219	61361	63909	68031	72152	79241	82176
38.00	9/16	55093	63526	66240	70516	74792	82029	85067
39.00		60162	69368	72385	75397	77093	85311	88489
40.00		61705	71150	74240	75803	79523	87772	90741
41.00	5/8	61705	71150	74240	77057	79930	87772	90937
42.00		62137	71482	74455	78004	81032	89287	92864
43.00		63658	74897	74898	78555	82833	89561	93826
44.00	11/16	65909	77538	77536	79517	85379	91954	95889
45.00		74202	81488	85026	81822	92877	105221	109116
46.00		74634	81488	85048	83197	93688	105221	109116
47.00	3/4	79943	91276	96675	100706	104732	114021	118161
48.00		82381	98366	106177	110601	115023	125133	129772
49.00		85323	99751	106961	111414	115871	126058	130725
50.00		88640	102209	106654	111414	115871	125697	130358

SIZE		OVERALL LENGTH IN MILLIMETERS							
MM	INCH	525	550	575	600	625	650	675	700
		PRICE EACH RS.							
6.00		11005	11531	13119	13691	14261	14829	16233	16837
6.50	1/4	12298	12881	14657	15296	15936	16570	18136	18808
7.00		11805	12370	14073	14686	15296	15906	17413	18059
7.50		11805	12370	14073	14683	15296	15906	17413	18059
8.00	5/16	11352	11893	13530	14120	14712	15296	16742	17363
8.50		11650	12202	13884	14486	15092	15696	17183	17819
9.00		12283	12866	14638	15278	15914	16551	18115	18788
9.50	3/8	12283	12866	14638	15278	15914	16551	18115	18788
10.00		12434	13028	14820	15466	16108	16759	18343	19021
10.50		16500	17286	18077	18862	21382	22232	24337	25242
11.00		16449	17232	18020	18797	21312	22166	24258	25160
11.50	7/16	17018	17828	18639	19449	22045	22929	25098	26028
12.00		16512	17296	18080	18868	21389	22245	24351	25251
12.50	1/2	16512	17296	18080	18868	21389	22245	24351	25251
13.00		22958	24055	25145	26239	29748	30936	33860	35117
13.50		24710	25884	27055	28237	32008	33288	36441	37790
14.00		24710	25884	27055	28237	32008	33288	36441	37790
14.50	9/16	22173	23229	25806	26924	30523	31741	34747	36030

## HSS TAPER SHANK TWIST DRILLS EXTRA LONG IS 7822 - 2005 (Contd.)

SIZE		OVERALL LENGTH IN MILLIMETERS							
MM	INCH	525	550	575	600	625	650	675	700
		PRICE EACH RS.							
15.00		22173	23229	25806	26924	30523	31741	34747	36030
15.50		21883	22921	25462	26570	30116	31321	34286	35551
16.00	5/8	22507	23584	26191	27334	30979	32222	35271	36575
16.50		23461	24578	27300	28485	32294	33586	36761	38125
17.00		23461	24578	27300	28485	32294	33586	36761	38125
17.50	11/16	24116	25272	28068	29293	33204	34532	37800	39199
18.00		24894	26076	28965	30229	34261	35631	39006	40450
18.50		24894	26076	28965	30229	34261	35631	39006	40450
19.00	3/4	25189	26384	29305	30585	34670	36055	39463	40928
19.50		25916	27152	30157	31466	35672	37097	40605	42116
20.00		27856	29184	32417	33826	37242	39873	42176	45267
20.50		28075	29184	32139	33535	38017	39873	43277	45537
21.00	13/16	28798	30170	33511	34966	38388	41228	43346	46799
21.50		29803	31224	33844	36190	39162	42666	44436	48437
22.00		30361	31668	34201	36856	39639	43460	45148	49333
22.50	7/8	30693	31668	34531	37057	41012	43460	45888	49333
23.00		30764	32054	36211	37790	41821	43499	46498	49665
23.50		33843	35456	37067	39016	46586	48447	50307	52176
24.00	15/16	34181	35804	37430	40097	47045	48921	50810	52692
24.50		35329	37014	38688	40324	48520	50467	52408	54347
25.00		36347	38074	39802	41537	50030	52029	54031	56033

**HSS PRALLEL SHANK TWIST DRILLS  
EXTRA LONG TO OUR STANDARD**

SIZE		OVERALL LENGTH IN MILLIMETERS									
MM	INCH	50	100	125	150	175	200	225	250	300	350
		PRICE EACH RS.									
0.5	-	1004	-	-	-	-	-	-	-	-	-
0.60	-	939	-	-	-	-	-	-	-	-	-
0.80	-	643	-	-	-	-	-	-	-	-	-
1.00	-	-	621	804	-	-	-	-	-	-	-
1.20	3/64	-	621	804	-	-	-	-	-	-	-
-	1/16	-	-	768	916	-	-	-	-	-	-
-	5/64	-	-	796	958	-	-	-	-	-	-
3.00	1/8	-	-	-	1293	1583	1793	2131	2514	3135	-
3.50		-	-	-	1261	1469	1889	2346	2825	3603	4890
4.00	5/32	-	-	-	1261	1469	1889	2346	2825	3603	4968
4.50		-	-	-	1292	1583	1889	2346	2825	3711	4968
5.00	3/16	-	-	-	1292	1647	2046	2513	2966	3930	5213
5.50	7/32	-	-	-	1413	1761	2185	2676	3158	4176	5433
6.00		-	-	-	1413	1839	2251	2724	3269	4278	5638
6.50	1/4	-	-	-	-	-	2303	2889	3327	4481	5638
7.00		-	-	-	-	-	2554	-	3661	5064	6331
7.50	9/32	-	-	-	-	-	2601	-	3892	5160	6331
8.00	5/16	-	-	-	-	-	2729	-	4054	5287	6481
8.50	11/32	-	-	-	-	-	2817	-	4136	5382	6921
9.00		-	-	-	-	-	2817	-	4136	5382	6921
9.50	3/8	-	-	-	-	-	2966	-	4163	5502	7141
10.00		-	-	-	-	-	3090	-	4280	5745	7461
10.50	13/32	-	-	-	-	-	3192	-	4571	5961	7847
11.00	7/16	-	-	-	-	-	-	-	4727	6143	8098
11.50		-	-	-	-	-	-	-	4727	6143	8098
12.00	15/32	-	-	-	-	-	-	-	4963	6513	8307
12.50	1/2	-	-	-	-	-	-	-	5118	6725	8860

## HSS PRALLEL SHANK TWIST DRILLS EXTRA LONG TO OUR STANDARD

SIZE		OVERALL LENGTH IN MILLIMETERS							
MM	INCH	325	375	400	425	450	475	500	525
6.00		-	5373	6116	6706	7103	7497	7893	8943
6.50	1/4	5492	7154	7629	8373	8869	9357	9853	11162
7.00		5557	7203	7691	8479	8981	9478	9976	11310
7.50	9/32	5614	7254	7749	8961	9490	10019	10549	11955
8.00	5/16	5676	7299	7805	9095	9622	10174	10724	12228
8.50	11/32	5736	7357	7861	9233	9776	10345	10902	12559
9.00		5819	7412	7930	9460	10019	10740	11129	12830
9.50	3/8	6045	7484	7984	9834	10412	10991	11571	13341
10.00		6857	8926	9519	11727	12415	13103	13793	15904
10.50	13/32	7444	9685	10335	12722	13472	14225	14968	17258
11.00	7/16	7374	9598	10237	12611	13353	14091	14833	17103
11.50		8238	10020	10689	11359	12021	13342	14045	15827
12.00	15/32	8265	10054	10721	11398	12063	13389	14091	15880
12.50	1/2	8767	10659	11368	12074	12788	14197	14935	16834

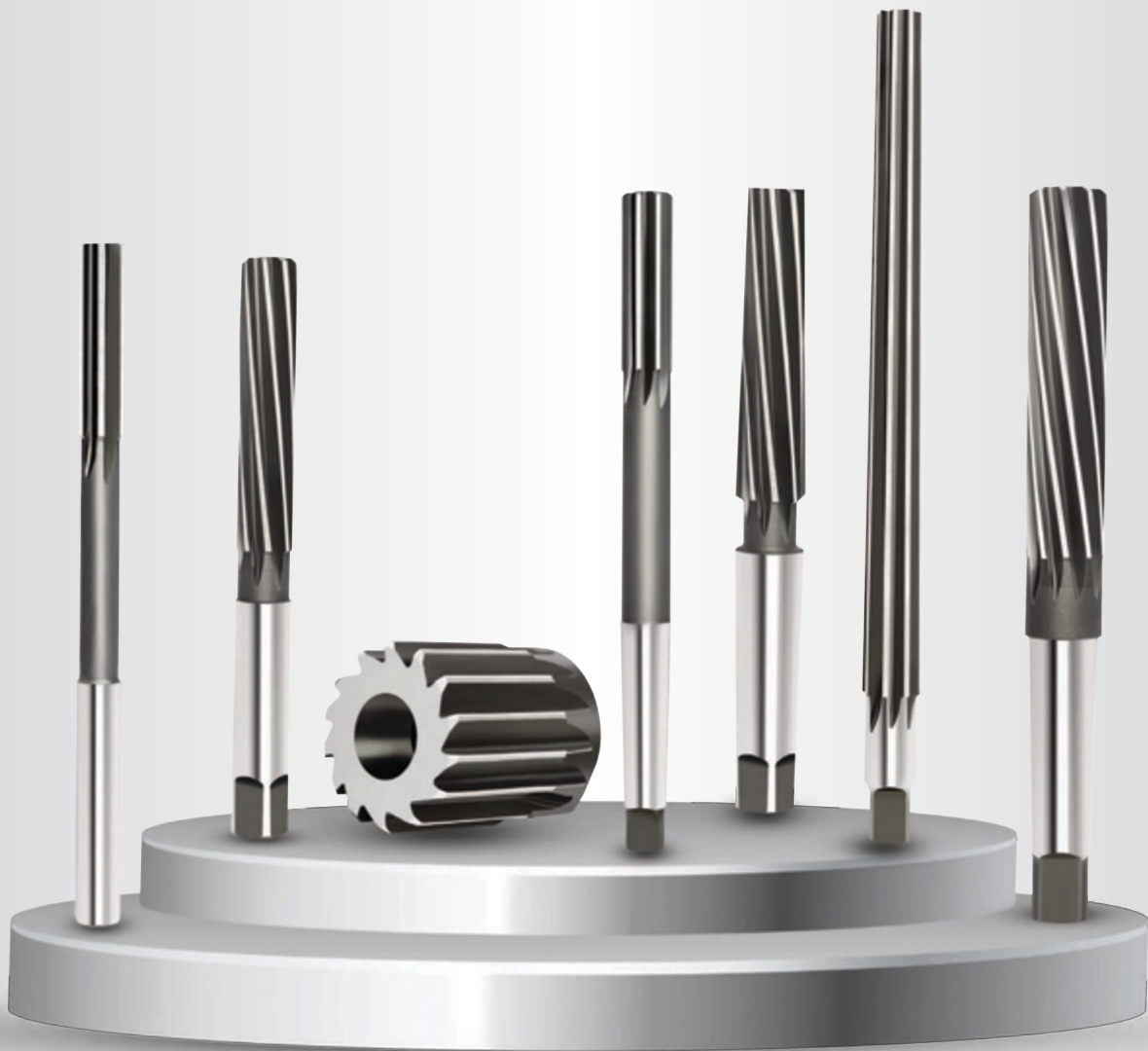
SIZE		OVERALL LENGTH IN MILLIMETERS						
MM	INCH	550	575	600	625	650	675	700
6.00		9370	9796	10225	-	-	-	-
6.50	1/4	11697	12227	12763	-	-	-	-
7.00		11848	12381	12922	-	-	-	-
7.50	9/32	11984	13087	13660	-	-	-	-
8.00	5/16	12834	14450	15082	-	-	-	-
8.50	11/32	13171	15678	16502	17937	18916	19851	20652
9.00		13444	16556	17283	18544	19290	20030	20775
9.50	3/8	13971	17220	17966	19282	20049	20823	21592
10.00		16663	20526	21420	22989	23909	24831	25747
10.50	13/32	18078	22278	23249	24947	25946	26943	27942
11.00	7/16	17916	22075	23040	24721	25710	26700	27691
11.50		16580	17336	18085	20981	21821	24973	25898
12.00	15/32	16636	17394	18146	21050	21891	25051	25980
12.50	1/2	17630	18436	19237	22315	23206	26559	27542

**IMPORTANT NOTES :**

1. Other details will be maintained as per IS : 7823 - 1983.
2. For non listed intermediate sizes, the higher price of the nearest listed size (INCH or MM) will be applicable.
3. All above items will attract minimum order value of Rs. 50,000/- nett or 15 nos, per size whichever is higher.
4. For **M35 = 40 % & M42 = 80 % extra**



# REAMERS



## HSS PARALLEL HAND REAMERS, HSS LONG FLUTED MACHINE REAMERS AND HSS PARALLEL / TAPER SHANK CHUCKING REAMERS

PRICE RS. EACH

SIZE		HAND REAMERS IS : 5444	LONG FLUTED MACHINE REAMERS IS : 5445	CHUCKING REAMERS	
MM	INCH			PARALLEL SHANK IS : 5446	TAPER SHANK IS : 5447
3.00		1570	1570	1570	1570
3.17	1/8	1570	1570	1570	1570
3.50		1570	1570	1570	1570
3.97	5/32	1570	1570	1570	1570
4.00		1570	1570	1570	1570
4.50		1570	1570	1570	1570
4.76	3/16	1570	1570	1570	1570
5.00		1570	1570	1570	1570
5.50		1570	1570	1570	1570
5.56	7/32	1570	1570	1570	1570
6.00		1823	1823	1823	1823
6.35	1/4	1823	1823	1823	1823
7.00		1825	1825	1825	1825
7.14	9/32	1825	1825	1825	1825
7.94	5/16	2073	2073	2073	2073
8.00		2073	2073	2073	2073
8.73	11/32	2161	2161	2161	2161
9.00		2161	2161	2161	2161
9.12	23/64	2161	2161	2161	2161
9.52	3/8	2355	2355	2355	2355
9.92	25/64	2610	2610	2610	2610
10.00		2610	2610	2610	2610
10.32	13/32	2610	2610	2610	2610
11.00		2930	2930	2930	2930
11.11	7/16	2930	2930	2930	2930
11.91	15/32	3048	3048	3048	3048
12.00		3048	3048	3048	3048
12.70	1/2	3162	3162	3162	3162
13.00		3847	3847	3847	3847
13.49	17/32	3847	3847	3847	3847
14.00		3847	3847	3847	3847
14.29	9/16	3847	3847	3847	3847
15.00		3873	3873	3873	3873
15.08	9/32	3873	3873	3873	3873
15.87	5/8	3873	3873	3873	3873
16.00		3873	3873	3873	3873
16.67	21/32	4458	4458	-	4458
17.00		4458	4458	-	4458
17.46	11/16	4458	4458	-	4458
18.00		4777	4777	-	4777
18.26	23/32	5075	5075	-	5075
19.00		5075	5075	-	5075
19.05	3/4	5075	5075	-	5075
20.00		5659	5659	-	5659

## HSS PARALLEL HAND REAMERS, HSS LONG FLUTED MACHINE REAMERS AND HSS PARALLEL / TAPER SHANK CHUCKING REAMERS

PRICE RS. EACH

SIZE		HAND REAMERS IS : 5444	LONG FLUTED MACHINE REAMERS IS : 5445	CHUCKING REAMERS	
MM	INCH			PARALLEL SHANK IS : 5446	TAPER SHANK IS : 5447
20.64	13/16	5762	5762	-	5762
21.00		6403	6403	-	6403
22.00		6403	6403	-	6403
22.22	7/8	6403	6403	-	6403
23.00		7475	7475	-	7475
23.81	15/16	8280	8280	-	8280
24.00		8280	8280	-	8280
25.00		8300	8300	-	8300
25.40	1	8451	8451	-	8451
26.00		10256	10256	-	10256
26.99	1.1/16	11729	11729	-	11729
27.00		11729	11729	-	11729
28.00		11729	11729	-	11729
28.57	1.1/8	11729	11729	-	11729
29.00		12443	12443	-	12443
30.00		13427	13427	-	13427
30.16	1.3/16	13427	13427	-	13427
31.00		14827	14827	-	14827
31.75	1.1/4	14827	14827	-	14827
32.00		14827	14827	-	14827
33.00		16838	16838	-	16838
33.34	1.5/16	16838	16838	-	16838
34.00		18916	18916	-	18916
34.92	1.3/8	20699	20699	-	20699
35.00		20699	20699	-	20699
36.00		20699	20699	-	20699
37.00		22720	22720	22720	20850
38.00		22720	22720	22720	
38.10	1.1/2	22720	22720	22720	
39.00		25108	25108	25108	
39.69	1.9/16	27444	27444	27444	
40.00		27444	27444	27444	
41.00		27677	27677	27677	
41.27	1.5/8	32618	32618	32618	
42.00		32618	32618	32618	
42.86	1.11/16	32618	32618	32618	
43.00		32618	32618	32618	
44.00		32618	32618	32618	
44.45	1.3/4	32618	32618	32618	
45.00		38226	38226	38226	
46.00		38226	38226	38226	
47.00		41273	41273	41273	
47.62	1.7/8	44328	44328	44328	
48.00		44328	44328	44328	

## HSS PARALLEL HAND REAMERS, HSS LONG FLUTED MACHINE REAMERS AND HSS PARALLEL / TAPER SHANK CHUCKING REAMERS

PRICE RS. EACH

SIZE		HAND REAMERS IS : 5444	LONG FLUTED MACHINE REAMERS IS : 5445	CHUCKING REAMERS	
MM	INCH			PARALLEL SHANK IS : 5446	TAPER SHANK IS : 5447
49.00		44328	44328	44328	
49.21	1.15/16	44328	44328	44328	
50.00		44328	44328	44328	
50.80	2	44328	44328	44328	
51.00		44328	44328	44328	
52.00		52837	52837	-	
52.39	2.1/16	52837	52837	-	
53.00		52837	52837	-	
53.97	2.1/8	52837	52837	-	
54.00		52837	52837	-	
55.00		61353	61353	-	
55.56	2.3/16	61353	61353	-	
56.00		61353	61353	-	
57.00		61353	61353	-	
57.15	2.1/4	61353	61353	-	
58.00		65645	65645	-	
58.74	2.5/16	65645	65645	-	
59.00		65645	65645	-	
60.00		77884	77884	-	
60.32	2.3/8	77884	77884	-	
61.00		77884	77884	-	
61.91	2.7/16	77884	77884	-	
62.00		77884	77884	-	
63.00		77884	77884	-	
63.50	2.1/2	77884	77884	-	
64.00		77884	77884	-	
65.00		-	94036	-	
65.09	2.9/16	94036	94036	-	
66.00		-	97209	-	
66.67	2.5/8	97209	97209	-	
67.00		97209	97209	-	
68.00		-	104211	-	
68.26	2.11/16	104211	104211	-	
69.00		-	104211	-	
69.85	2.3/4	104211	104211	-	
70.00		-	104211	-	
71.00		104211	104211	-	
71.44	2.13/16	109491	109491	-	
72.00		-	127307	-	
73.00		-	127307	-	
73.02	2.7/8	127307	127307	-	
74.00		-	127307	-	
74.61	2.15/16	127307	127307	-	
75.00		-	133683	-	

## HSS PARALLEL HAND REAMERS, HSS LONG FLUTED MACHINE REAMERS AND HSS PARALLEL / TAPER SHANK CHUCKING REAMERS

PRICE RS. EACH

SIZE		HAND REAMERS IS : 5444	LONG FLUTED MACHINE REAMERS IS : 5445	CHUCKING REAMERS	
MM	INCH			PARALLEL SHANK IS : 5446	TAPER SHANK IS : 5447
76.00		-	133683	-	
76.20	3	133683	133683	-	

ITEMS MARKED ★ : **(ONLY IN RH)** ARE EX-STOCK ITEMS. ALL REMAINING ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000/- NETT OR MOQ OF 5 NOS. PER SIZE WHICHEVER IS HIGHER.

FOR **M35 = 40% & M42 = 80% extra.**

**IMPORTANT NOTES :**

For non listed intermediate sizes, the higher price of the nearest listed size (INCH or MM) will be applicable.

## HSS TAPER SHANK EXTRA LONG MACHINE REAMERS

SIZE	PRICE (RS.) EACH
8 x 125 x 200	2999
8 x 175 x 250	3207
8 x 200 x 300	3516
9 x 125 x 200	2928
9 x 175 x 250	3371
9 x 225 x 300	4410
10 x 125 x 200	3768
10 x 175 x 250	4019
10 x 200 x 300	4266
10 x 300 x 400	4560
12 x 160 x 250	4465
12 x 200 x 300	4706
13 x 200 x 300	5382
14 x 160 x 250	5016
14 x 200 x 300	5890
15 x 200 x 300	5981
15 x 300 x 400	6693
16 x 200 x 300	5981
16 x 300 x 400	6693
17 x 200 x 300	6750
18 x 200 x 300	7419
19 x 200 x 300	7880
20 x 200 x 300	8746
20 x 300 x 400	9879
22 x 200 x 300	9930
25 x 200 x 325	12893
25 x 275 x 400	14480
26 x 275 x 400	17904
28 x 275 x 400	20564

SIZE	PRICE (RS.) EACH
5/16 x 125 x 200	2999
5/16 x 175 x 250	3207
5/16 x 200 x 300	3516
3/8 x 125 x 200	3768
3/8 x 175 x 250	4019
3/8 x 200 x 300	4266
7/16 x 160 x 250	4465
7/16 x 200 x 300	4706
1/2 x 175 x 200	5038
1/2 x 200 x 300	5090
9/16 x 200 x 300	5981
9/16 x 250 x 350	6339
5/8 x 200 x 300	5981
5/8 x 250 x 350	6400
5/8 x 300 x 400	6693
11/16 x 200 x 300	7425
3/4 x 200 x 300	7880
3/4 x 300 x 400	8388
13/16 x 200 x 300	9930
7/8 x 200 x 300	11764
7/8 x 300 x 400	12017
1 x 200 x 325	12893
1 x 275 x 400	14480
1.1/8 x 275 x 400	22000

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 / - NETT OR 5 NOS. PER SIZE WHICHEVER IS HIGHER.  
FOR **M35 = 40% & M42 = 80% extra.**

**IMPORTANT NOTES :**

For non listed intermediate sizes, the higher price of the nearest listed size (INCH or MM) will be applicable.

**HSS TAPER PIN REAMERS (TAPER 1:50)**  
**HAND - IS : 5881 - 1984 MACHINE IS : 5918 - 1984**

NOMINAL DIA MM	PRICE (RS.) EACH	NOMINAL DIA MM	PRICE (RS.) EACH
3	3367	16	7628
4	3367	20	11865
5	3367	25	12591
6	3367	30	16941
8	4560	32	18614
10	5057	40	33285
12	6105	50	57688
14	6854		

**HSS TAPER REAMERS (TAPER 1:48)**  
**HAND / MACHINE - BS : 122 : 12 : 1964**

NOMINAL DIA INCH	PRICE (RS.) EACH	NOMINAL DIA INCH	PRICE (RS.) EACH
3/16	3138	13/32	4908
7/32	3138	7/16	5053
1/4	3138	1/2	5712
9/32	3434	9/16	6603
5/16	3802	5/8	7347
11/32	4291	3/4	9259
3/8	4335	7/8	11425

ALL REMAINING ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 35,000/- NETT MOQ OF 15 NOS. PER SIZE WHICHEVER IS HIGHER.

R.H. Cutting with straight flutes will be supplied as standard for hand taper pin Reamer.

For **M35 = 40% & M42 = 80% extra**

R.H. Cutting with L.H. helical flutes will be supplied as standard for Machine Taper Pin Reamer.

**HSS MACHINE JIG REAMERS - IS 11002 - 1989**

SIZE MM	PRICE (RS.) EACH	SIZE MM	PRICE (RS.) EACH
10	3351	33	20469
11	3351	35	23572
12	3839	36	25288
13	4562	39	27038
14	4562	40	31081
15	5017	41	31081
16	5017	43	34724
17	5791	44	38154
19	6488	45	41432
20	7075	46	41432
22	8162	47	45170
23	8162	48	49125
24	10511	49	49125
25	11390	50	54615
27	12731	-	-
28	13835	-	-
30	15056	-	-
32	17431	-	-

ALL REMAINING ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 35,000/- NETT OR 3 NOS. PER SIZE WHICHEVER IS HIGHER.

**IMPORTANT NOTES :**

For **M35 = 40% & M42 = 80% extra**

For non listed intermediate sizes, the higher price of the nearest listed size (INCH or MM) will be applicable.

**HSS SOCKET REAMERS :**  
**PARALLEL SHANK - IS : 5882 / TAPER SHANK - IS 5807.**  
**TYPE 'A' (ROUGHING), TYPE 'B' (PRE - FINISHING),**  
**TYPE 'C' (FINISHING)**

MORSE TAPER NO	PARALLEL SHANK PRICE (RS.) EACH	TAPER SHANK PRICE (RS.) EACH
0	3601	4275
1	3964	4508
2	5520	6692
3	8019	10032
4	13267	15803
5	27038	29044
6	47712	66526

★ Type required to be specified in order.

**HSS MACHINE BRIDGE REAMERS - IS 5919**

SIZE MM	PRICE (RS.) EACH	SIZE MM	PRICE (RS.) EACH	SIZE MM	PRICE (RS.) EACH
11	3983	20	8968	31	17146
11.5	4654	21	9964	32	17146
12	4654	21.5	9964	33	18447
13	5075	22	9964	35	19789
13.5	5075	23	10868	36	21120
14	5075	23.5	10868	37	22513
15	5890	25.0	11820	40	35796
17	7266	27	13323	43	42366
17.5	7266	28	14419	49	57622
19	8162	30	15566	-	-

**HSS MACHINE BRIDGE REAMERS BS : 122 (PART 2) : 1964**

SIZE INCH	PRICE (RS.) EACH	SIZE INCH	PRICE (RS.) EACH	SIZE INCH	PRICE (RS.) EACH
7/16	3983	13/16	8669	1.3/16	14944
1/2	4307	7/8	9964	1.1/4	16670
9/16	5075	15/16	10868	1.5/16	17646
5/8	5890	1	11820	1.3/8	18916
11/16	7266	1.1/16	12861	1.7/16	20219
3/4	8162	1.1/8	13818	1.1/2	22513

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 35,000/- NETT OR 3 NOS. PER SIZE WHICHEVER IS HIGHER.

For M35 = 40% & M42 = 80% extra

**IMPORTANT NOTES :**

For non listed intermediate sizes, the higher price of the nearest listed size (INCH or MM) will be applicable.

**HSS SHELL REAMERS IS : 5926 : 1970  
(WITH 1: 30 TAPER HOLE)**

SIZE MM	PRICE (RS.) EACH	SIZE MM	PRICE (RS.) EACH	SIZE MM	PRICE (RS.) EACH
21	5167	42	9762	66	22104
22	5167	43	9762	67	24251
23	5167	44	9903	68	24251
24	5167	45	10329	70	24251
25	5167	46	10329	72	26968
26	5477	47	10819	73	26968
27	5477	49	11111	76	29593
28	5874	50	11565	79	33200
30	6184	52	12808	80	36391
32	6475	54	12808	82	36391
33	6798	56	14054	85	39252
35	7153	57	14054	89	42044
36	7451	58	15756	91	49729
38	7846	60	15756	92	49729
39	8237	62	19038	95	51983
40	8237	63	19038	98	60013
41	8603	65	22104	99	66433
				100	66433

**HSS COUNTERSINKS WITH TAPER SHANK  
BS : 122 (PART 2) : 1964 (INCLUDED ANGLE 60 OR 90)**

BODY DIA INCH	PRICE (RS.) EACH	BODY DIA INCH	PRICE (RS.) EACH	BODY DIA INCH	PRICE (RS.) EACH
1/2	2754	1.1/8	8509	2	25569
5/8	3658	1.1/4	10708	2.1/4	28987
3/4	4143	1.3/8	12520	2.1/2	35974
7/8	5232	1.1/2	14838	2.3/4	42460
1	6584	1.3/4	21941	3	51351

**HSS TAPER SHANK COUNTERBORES IS : 5710 - 1988**

CUTTER DIA MM	PRICE (RS.) EACH
13.5	4159
14.5	4674
16.5	5368
17.5	5774
19.5	6818
20.0	7145
22.0	8180
23.0	9388
25.0	11366
26.0	12595
28.0	14066
29.0	14827
31.0	16164
33.0	18520
34	19746
36	21461

CUTTER DIA MM	PRICE (RS.) EACH
37	22364
39	24230
41	26275
43	27166
46	30927
48	33575
51	37897
53	41173
55	45323
57	49794
59	55177
61	61475

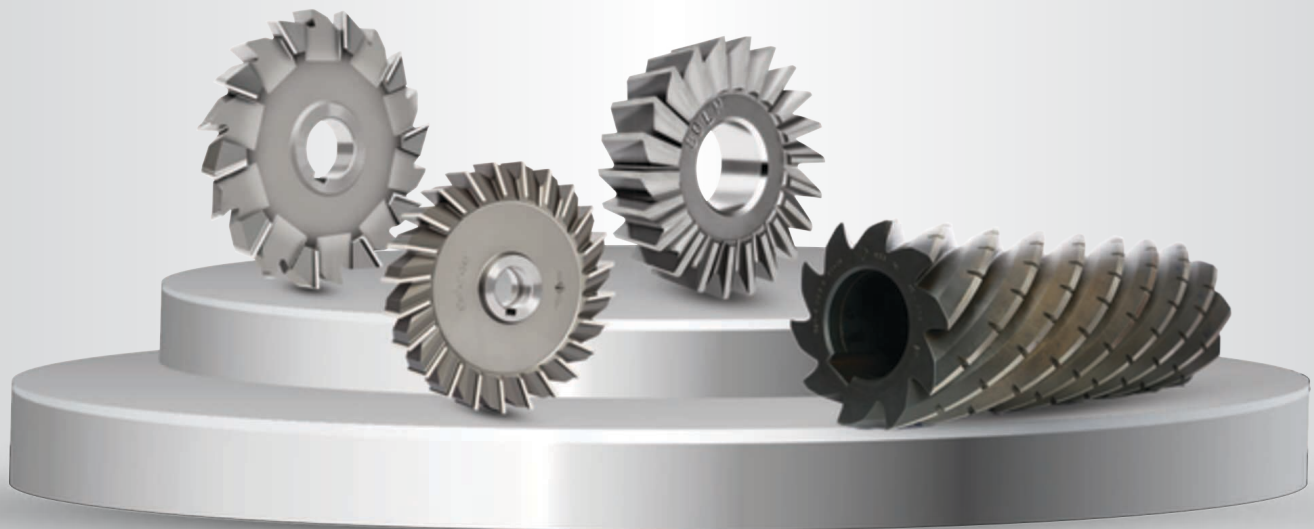
ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 /- NETT OR 5 NOS. PER SIZE WHICHEVER IS HIGHER.  
For M35 = 40% & M42 = 80% extra

**IMPORTANT NOTES :**

- Counterbores will be supplied without pilots and grub screws. Pilot holes and grub screw holes, will however, be provided.
- For non listed intermediate sizes, the higher price of the nearest listed size (INCH or MM) will be applicable.



## MILLING CUTTERS



## HSS TAPER SHANK COUNTER BORES BS : 122 (PART 2) : 1964

COUNTERBORE DIA INCH	PRICE (RS.) EACH	COUNTERBORE DIA INCH	PRICE (RS.) EACH
1/2	3670	1.1/8	14066
9/16	4562	1.1/4	16164
5/8	5093	1.3/8	19746
11/16	5774	1.1/2	22937
3/4	6488	1.5/8	26290
13/16	7192	1.3/4	29786
7/8	8180	1.7/8	33087
15/16	9612	2	36532
1	11366	-	-

### IMPORTANT NOTES :

1. Counterbores upto and including 1/2" dia. are supplied without integrated pilots, the diameter of which should be specified at the time of order.
2. Counterbores above 1/2" dia. Will be provided with pilot holes and grub screw holes. The pilots & grub screws will not be supplied by us.
3. For non listed intermediate sizes, the higher price of the nearest listed size (INCH or MM) will be applicable.

## HSS CYLINDRICAL CUTTERS IS : 6309

DIA MM	BORE MM	WIDTH MM	PRICE (RS.) EACH	DIA MM	BORE MM	WIDTH MM	PRICE (RS.) EACH
40	16	20	3769	80	32	80	18283
40	16	32	4713	80	32	100	21048
40	16	50	5864	100	40	40	15195
40	16	70	7863	100	40	70	23013
50	22	25	4829	100	40	90	28512
50	22	40	5718	100	40	110	40056
50	22	63	7509	100	40	125	48793
50	22	80	9720	125	50	50	34298
63	27	32	6879	125	50	80	48652
63	27	50	8671	125	50	110	65475
63	27	70	11416	125	50	125	73246
63	27	90	13400	125	50	140	81470
80	32	36	9720	160	60	125	121874
80	32	63	15450	-	-	-	-

## HSS HELICAL CYLINDRICAL CUTTERS BS : 122 (PART 1) : 1953

PRICE RS. EACH

LENGTH OF CUTTER INCH	DIAMETER OF CUTTER		
	3"	4"	5"
2	17151	25182	41998
3	21711	33685	56576
4	29195	42899	71199
5	42179	62059	85596
6	53485	73026	100354

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 /- NETT OR 5 NOS. PER SIZE WHICHEVER IS HIGHER.  
FOR M35 = 40% & M42 = 80% extra

## HSS HIGH POWER CYLINDRICAL CUTTERS BS : 122 (PART 1) : 1953

PRICE RS. EACH

LENGTH OF CUTTER INCH	DIAMETER OF CUTTER				
	2.1/2"	3"	3.1/2"	4"	4.1/2"
1	6145	7751	8589	10859	15659
2	9100	11929	14323	19013	26295
3	12108	16201	19997	27143	37142
4	15084	20592	25744	34593	48652
5	18188	28959	37862	48030	59897
6	21285	43029	45052	56150	71184
7	24284	43029	52332	66942	83351
8	28435	49151	59615	76252	93924

**IMPORTANT NOTES :**

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 /- NETT OR 5 NOS. PER SIZE WHICHEVER IS HIGHER.  
FOR M35 = 40% & M42 = 80% extra

## HSS SIDE & FACE CUTTERS IS : 6308 - 1982

DIA MM	BORE MM	WIDTH MM	PRICE RS. EACH	
			STRAIGHT TEETH TYPE 'B'	STAGGERED TEETH TYPE 'A'
50	16	5	4419	5497
		6	4591	5718
		8	4713	5876
		10	5006	6255
63	22	6	5414	6997
		8	5718	7633
		10	6222	7863
		12	6490	8473
		14	6685	9090
		16	7012	9805
		18	7479	10096
80	27	6	5927	7441
		8	6570	8095
		10	7012	9264
		12	7479	9805
		14	7953	10519
		16	8321	10733
		18	9264	12155
		20	9665	12749
100	★★	6	8473	10275
		8	9059	10997
100	32	10	10014	11785
		12	10733	13100
		14	11371	13400
		16	12155	14457

**HSS SIDE & FACE CUTTERS**  
**IS : 6308 - 1982**

DIA MM	BORE MM	WIDTH MM	PRICE RS. EACH	
			STRAIGHT TEETH TYPE 'B'	STAGGERED TEETH TYPE 'A'
100	32	18	12964	14862
		20	13960	15693
		22	14613	17945
		25	15879	19566
125	**	6	11878	14738
		8	12749	15878
		10	13660	18478
125	32	12	15567	19185
		14	16862	20494
		16	17579	21285
		18	18851	24277
		20	19520	26190
		22	21557	28461
		25	23572	29596
		28	26544	33883
150	**	6	14457	18590
		8	15727	20112
		10	17062	21672
		12	19761	24961
		14	21133	26544
		16	22521	28152
		18	25287	31227
		20	25287	31227
		22	28074	34599
		25	30778	38106
		28	33346	41783
		32	35839	45585
160	**	6	19671	21970
		8	20910	23358
		10	22150	24740
		12	23364	26090
160	40	14	24595	27486
		16	26044	28862
		18	27889	31933
		20	29283	31933
		22	31010	35398
		25	33470	41044
		28	35839	42741
		32	39012	46599

**HSS SIDE & FACE CUTTERS**  
**IS : 6308 - 1982**

DIA MM	BORE MM	WIDTH MM	PRICE RS. EACH	
			STRAIGHT TEETH TYPE 'B'	STAGGERED TEETH TYPE 'A'
200	**	6	25744	28555
		8	27779	30752
		10	30065	33795
		12	34750	38208
		14	37013	40882

225	40	16	39302	43603
		18	43858	49440
		20	44336	50946
		22	48414	55418
		25	52971	60856
		28	55769	64633
		32	61988	72442

225	**	8	36199	39591
		10	39403	42648
		12	45873	50060
		14	49176	54125
		16	52534	58146
		18	59265	67388
		20	59265	67388
		22	65426	74619
		25	71648	81611
		28	78013	88210
		32	84365	94773

225	**	10	45560	48948
		12	53292	58360
		14	57696	62886
		16	61947	67388
		18	70020	77955
		20	70020	77955
		22	77488	86364
		25	85433	94072
		28	92870	104089
		32	100228	114145

**IMPORTANT NOTES :**

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 /- NETT OR 3 NOS. PER SIZE WHICHEVER IS HIGHER.  
FOR **M35 = 40% & M42 = 80% extra**

\*\* BORE REQUIRED FOR THESE SIZES TO BE SPECIFIED WHILE ORDERING.

## HSS STRAIGHT TEETH SIDE & FACE CUTTERS BS : 122 (PART 1) : 1953

WIDTH OF CUTTER EDGE & BOSS INCH	DIAMETER OF CUTTER				
	PRICE (RS.) EACH				
	2.1/2"	3"	3.1/2"	4"	5"
1/4	5414	6000	7130	8451	11878
5/16	5671	6304	7534	9059	12749
3/8	5927	6686	8013	9665	13660
7/16	6196	6997	8487	10275	14613
1/2	6461	7366	8902	10733	15567
5/8	6927	8078	9867	12155	17579
3/4	7400	8671	10808	13400	19520
7/8	7896	9651	11652	14613	21557
1	8451	10427	12819	15878	23572
1.1/4	9499	11515	14500	18048	27225
1.1/2	10583	13159	16338	19878	30972

## HSS STRAIGHT TEETH SIDE & FACE CUTTERS BS : 122 (PART 1) : 1953

WIDTH OF CUTTER EDGE & BOSS INCH	DIAMETER OF CUTTER				
	PRICE (RS.) EACH				
	6"	7"	8"	9"	10"
1/4	14457	21439	25744	33161	-
5/16	15727	23198	27779	36197	-
3/8	17062	24959	30065	39403	45560
7/16	18409	26627	32401	42471	48963
1/2	19761	28759	34749	45874	53290
5/8	22510	32199	39302	52534	61947
3/4	25287	35708	43859	58204	70020
7/8	28072	39258	48416	65426	77490
1	30777	42766	52971	71647	85434
1.1/4	35839	49753	61977	84365	100228
1.1/2	40882	56832	70984	97118	116221
1.3/4	-	-	-	119098	141138

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 /- NETT OR 3 NOS. PER SIZE WHICHEVER IS HIGHER.  
FOR M35 = 40% & M42 = 80% extra

★ ★ BORE REQUIRED FOR THESE SIZES TO BE SPECIFIED WHILE ORDERING.

**IMPORTANT NOTES :**

Cutter of width of 3/4" and above will be supplied with Left hand Helical Flutes.

**HSS STAGGERED TEETH SIDE & FACE CUTTERS  
BS : 122 (PART 1) : 1953**

WIDTH OF CUTTER EDGE & BOSS INCH	DIAMETER OF CUTTER					
	PRICE (RS.) EACH					
	3"	4"	5"	6"	7"	8"
1/4	7534	10275	14738	18590	24285	28592
5/16	8013	10997	15879	20112	27873	30752
3/8	8952	11652	18478	21672	30066	33795
7/16	9100	12364	18804	23290	31571	36005
1/2	9264	13098	19185	24961	32999	38208
5/8	10370	14457	21285	28152	38703	43603
3/4	11017	16498	24285	31227	43293	49588
7/8	12015	17945	28152	34599	47632	55418
1	12964	19564	29596	38080	51888	60840

**HSS STAGGERED TEETH SIDE & FACE CUTTERS  
BS : 122 (PART 1) : 1953**

WIDTH OF CUTTER EDGE & BOSS INCH	DIAMETER OF CUTTER	
	PRICE (RS.) EACH	
	9"	10"
5/16	39591	45348
3/8	42648	48948
7/16	46936	51200
1/2	50125	58360
5/8	58146	67388
3/4	67388	77955
7/8	74619	86388
1	77465	94072
1.1/4	94773	114145
1.1/2	108328	131154
1.3/4	132133	157607

**IMPORTANT NOTES :**

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 /- NETT OR 3 NOS. PER SIZE WHICHEVER IS HIGHER.

FOR M35 = 40% & M42 = 80% extra

Cutter of width of 3/4" and above will be supplied with Left hand Helical Flutes.

★ ★ BORE REQUIRED FOR THESE SIZES TO BE SPECIFIED WHILE ORDERING.

## HSS SINGLE ANGLE CUTTERS IS : 6324 - 1971

DIA MM	BORE MM	WIDTH MM	ANGLE DEGREES	PRICE (RS.) EACH
50	16	12	60, 65, 70, 75, 80 & 85	4174
63	22	18	60, 65, 70, 75, 80 & 85	6222
63	22	26	70, 75 & 80	7399
80	22	32	70, 75 & 80	9720
100	27	36	70, 75 & 80	14583

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 / - NETT OR 15 NOS. PER SIZE WHICHEVER IS HIGHER.

FOR M35 = 40% & M42 = 80% extra.

## HSS SINGLE ANGLE CUTTERS - BS : 122 (PART 1) : 1953

WIDTH OF CUTTER INCH	ANGLE DEGREES	PRICE (RS.) EACH	
		DIAMETER OF CUTTER	
		2.3/4"	3"
5/16	30	5174	5719
7/16	30, 40	5671	6470
1/2	45, 50, 60, 70, 80	6000	6774
5/8	50, 60, 70, 80	6685	7534

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 / - NETT OR 15 NOS. PER SIZE WHICHEVER IS HIGHER.

FOR M35 = 40% & M42 = 80% extra.

## HSS DOUBLE ANGLE CUTTERS - BS : 122 (PART 1) : 1953

★ Angle in degrees

DIA INCH	BORE INCH	WIDTH INCH	PRICE (RS.) EACH
2.3/4	1	5/8	6000
3	1.1/4	3/4	7534

★ Angle required to be specified at the time of order.

## HSS EQUAL ANGLE CUTTERS - BS : 122 (PART 1) : 1953

WIDTH OF CUTTER INCH	INCLUDED ANGLE IN DEGREES	PRICE (RS.) EACH	
		DIAMETER OF CUTTER	
		2.3/4"	3"
5/16	30, 40	5174	5719
7/16	30, 40	5414	6000
1/2	45, 60, 90	5414	6000
5/8	60, 90	6000	6569

## HSS EQUAL ANGLE CUTTERS IS : 6326

DIA MM	BORE MM	WIDTH MM	ANGLE DEGREES	PRICE (RS.) EACH
56	16	10	45	4591
63	22	12		5174
80	22	16		6569
100	27	18		9548
56	16	12	60	4803
63	22	16		5719
80	22	20		7131
100	27	25		11172
56	16	14	90	5174
63	22	18		6000
80	22	22		7752
100	27	28		12108

## HSS DOUBLE (UNEQUAL) ANGLE CUTTERS - IS 6325

DIA MM	BORE MM	WIDTH MM	ANGLE DEGREES	PRICE (RS.) EACH
50	16	12	55 X 12	4591
			60 X 15	5174
			65 X 15	6569
			70 X 15	9548
			75 X 15	4803
			80 X 15	5719
50	16	14	90 X 20	5007
50	16	16	100 X 25	5414
63	22	18	55 X 12	6286
			60 X 15	6286
			63 X 15	6286
			70 X 15	6286
			75 X 15	6286
			80 X 15	6286
63	22	20	90 X 20	6583
63	22	22	100 X 25	7116
80	22	32	65 X 15	9720
			70 X 15	9720
			75 X 15	9720
100	27	36	70 X 15	14583
			75 X 15	14583
			80 X 15	14583

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 /- NETT OR 20 NOS. PER SIZE WHICHEVER IS HIGHER.

FOR M35 = 40% & M42 = 80% extra.

**HSS CONVEX CUTTERS**  
**IS : 6323 : 1982**

DIA MM	BORE MM	WIDTH MM	RADIUS MM	PRICE (RS.) EACH
50	22	3	1.6	5514
50	22	4	2	5514
56	22	5	2.5	6525
56	22	6	3	6525
63	22	8	4	6927
63	22	10	5	7633
70	22	12	6	8229
70	22	16	8	9059
90	27	18	9	12108
90	27	20	10	12749
90	27	22	11	14049
90	27	24	12	15056
100	27	28	14	19202
110	32	32	16	24285
110	32	36	18	32060
125	40	40	20	35553

**HSS CONCAVE CUTTERS**  
**IS : 6322 : 1982**

DIA MM	BORE MM	WIDTH MM	RADIUS MM	PRICE (RS.) EACH
56	22	8	1.6	6927
56	22	9	2	7277
56	22	10	2.5	7488
63	22	12	3	8136
63	22	16	4	8370
63	22	20	5	9819
70	22	24	6	11704
70	22	28	7	12282
80	27	32	8	16053
90	27	36	9	19185
90	27	40	10	21285
100	27	42	11	24823
100	27	44	12	25659
100	27	46	12.5	26159
100	27	50	14	28784
110	32	56	16	39622
125	32	62	18	53978
125	32	70	20	56832

## HSS CONVEX / CONCAVE CUTTERS BS : 122 (PART 1) : 1953

DIA OF CUTTER INCH	DIA OF CIRCLE INCH	DIA OF BORE INCH	CONVEX CUTTER		CONCAVE CUTTER	
			WIDTH OF CONVEX CUTTING INCH	PRICE (RS.) EACH	WIDTH OF CONCAVE CUTTING INCH	PRICE (RS.) EACH
2.1/4	1/8	1	1/8	5864	5/16	6927
	3/16		3/16	6255	3/8	7182
	1/4		1/4	6538	1/2	7652
2.1/2	5/16	1	5/16	6927	5/8	8383
	3/8		3/8	7381	3/4	9090
	7/16		7/16	7647	7/8	9819
	1/2		1/2	8236	1	10472
2.3/4	9/16	1	9/16	8383	1.3/16	12282
	5/8		5/8	9100	1.3/16	12594
3	11/16	1	11/16	9262	1.3/8	9262
	3/4		3/4	9709	1.3/8	9709
3.1/4	13/16	1	13/16	11972	1.9/16	18283
	7/8		7/8	12749	1.9/16	18590
3.1/2	15/16	1	15/16	14281	1.3/4	21753
	1		1	14935	1.3/4	22062
4	1.1/8	1.1/4	1.1/8	19202	1.15/16	26972
	1.1/4		1.1/4	21133	2.1/8	28784
4.1/4	1.3/8	1.1/4	1.3/8	29089	2.5/16	37933
	1.1/2		1.1/2	31467	2.1/2	43467

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 /- NETT OR 5 NOS. PER SIZE WHICHEVER IS HIGHER.

FOR M35 = 40% & M42 = 80% extra.

## HSS SINGLE / DOUBLE CORNER ROUNDING CUTTERS BS : 122 (PART 1) : 1953

DIA OF CUTTER INCH	DIA OF CIRCLE INCH	DIA OF BORE INCH	SINGLE CORNER		DOUBLE CORNER	
			WIDTH OF CONVEX CUTTING INCH	PRICE (RS.) EACH	WIDTH OF CONCAVE CUTTING INCH	PRICE (RS.) EACH
2.1/4	1/16	1	5/16	6145	7/16	8686
	3/32		5/16	6145	7/16	8686
	1/8		5/16	6145	7/16	8686
2.1/2	5/32	1	7/16	6927	5/8	9772
	3/16		7/16	6927	5/8	9772
	7/32		1/2	7322	3/4	10472

**HSS SINGLE / DOUBLE CORNER ROUNDING CUTTERS**  
**BS : 122 (PART 1) : 1953**

DIA OF CUTTER INCH	DIA OF CIRCLE INCH	DIA OF BORE INCH	SINGLE CORNER		DOUBLE CORNER	
			WIDTH OF CONVEX CUTTING INCH	PRICE (RS.) EACH	WIDTH OF CONCAVE CUTTING INCH	PRICE (RS.) EACH
2.1/2	1/4	1	1/2	7322	3/4	10472
2.3/4	9/32	1	5/8	8589	15/16	12458
	5/16		5/8	8589	15/16	12458
3	11/32	1	11/16	10179	1.1/16	14509
	3/8		11/16	10179	1.1/16	14509
3.1/4	13/32	1	3/4	11526	1.3/16	16656
	7/16		3/4	11526	1.3/16	16656
3.1/2	15/32	1	7/8	13700	1.3/8	20112
	1/2		7/8	13700	1.3/8	20112
	9/16		1	15084	1.5/8	22496
	5/8		1	15084	1.5/8	22496
3.3/4	11/16	1	1.1/8	22191	1.7/8	31783
	3/4		1.1/8	22191	1.7/8	31783

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 35,000 /- NETT OR 5 NOS. PER SIZE WHICHEVER IS HIGHER.

FOR M35 = 40% & M42 = 80% extra.

**HSS SINGLE CORNER ROUNDING CUTTERS**  
**IS : 6314 - 1982**

DIA MM	BORE MM	WIDTH MM	RADIUS MM	PRICE (RS.) EACH
56	22	4	1.6	5864
56	22	5	2.5	5864
63	22	6	3	6774
63	22	8	4	7088
63	22	10	5	7552
70	22	12	6	8078
70	22	14	7	8487
80	27	16	8	10519
90	27	18	9	12700
90	27	20	10	13797
100	27	22	12	22369
100	27	22	12.5	22369
100	27	25	14	23692
110	32	28	16	25459
125	32	31	18	32554
125	32	35	20	

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs.50,000 / - NETT OR 5 NOS. PER SIZE WHICHEVER IS HIGHER.

FOR M35 = 40% & M42 = 80% extra.



## END MILLS



## HSS PARALLEL SHANK END MILLS IS : 6353 (STANDARD SERIES)

DIA MM	PRICE (RS.) EACH	IS : 6353 - 1971		IS : 6353 - 1991	
		CEL (MM)	OAL (MM)	CEL (MM)	OAL (MM)
3★	905	10	42	8★	40
3.5	905	-	-	10	42
4★	905	11	43	11★	43
5★	905	13	47	13★	47
6★	1012	16	52	13★	57
7★	1138	-	-	16★	60
8★	1138	-	-	19★	63
9★	1138	-	-	19★	69
10★	1138	22	67	22★	72
11★	1138	22	67	22★	79
12★	1176	26	76	26★	83
13	1328	26	76	26	83
14	1458	26	76	26★	83
16★	1703	32	88	32★	92
17	1862	32	88	32	92
18★	2070	32	88	32★	92
19	2070	32	88	32	92
20★	2289	38	101	38★	104
21	2568	38	101	38	104
22★	2596	38	101	38★	104
24	2814	38	101	45	121
25★	3027	45	116	45★	121
26	3140	45	116	45	121
27	3693	45	116	45	121
28	4309	45	116	45	121
29	4309	45	116	45	121
30★	4742	45	116	45★	121
32★	5172	63	140	53★	133
33	5730	63	140	53	133
35	6246	70	160	53	133
36	6810	70	160	53	133
37	7340	70	160	53	133
38	7825	70	160	63	155
39	8298	70	160	63	155
40	8813	70	160	63	155
41	8813	70	160	63	155
43	10032	80	180	63	155
45	11240	80	180	63	155
46	11240	90	200	63	155
49	12362	90	200	75	177
50	13600	90	200	75	177
51	13600	90	200	75	177
53	16741	90	200	75	177
54	19833	100	220	75	177
56	23849	100	220	75	177

DIA MM	PRICE (RS.) EACH	IS : 6353 - 1971		IS : 6353 - 1991	
		CEL (MM)	OAL (MM)	CEL (MM)	OAL (MM)
57	27738	100	220	75	177
59	27738	100	220	75	177
61	29615	110	250	90	192
63	30829	110	250	90	192

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 /- NETT OR 5 NOS. PER SIZE WHICHEVER IS HIGHER.

FOR M35 = 40% & M42 = 80% extra.

### IMPORTANT NOTES :

1. For non-listed intermediates sizes, the higher price of the nearest listed size will be applicable.
2. LH End Mill Dia 17 mm & above on special request - 25 % extra
3. Long series End Mills, if required, can be supplied at 30 % extra subject to the order value being minimum Rs. 50,000/- NETT, per size or minimum 5 Nos. per size whichever is higher.

## HSS PARALLEL SHANK END MILLS HIGH PERFORMANCE IS : 6353 (STANDARD SERIES)

DIA MM	PANTHER PRICE (RS.) EACH	NINJA PRICE (RS.) EACH	IS : 6353 - 1971	
			CEL (MM)	OAL (MM)
3	1133	1630	8	40
4	1133	1630	11	43
5	1133	1630	13	47
6	1265	1821	13	57
7	1422	2048	16	60
8	1422	2048	19	63
9	1422	2048	19	69
10	1422	2048	22	72
11	1422	2048	22	79
12	1469	2117	26	83
14	1822	2623	26	83
16	2128	3064	32	92
18	2587	3726	32	92
20	2861	4120	38	104
22	3245	4674	38	104
25	3784	5451	45	121
28	5387	7757	45	121
32	6465	9311	53	133
36	8514	12259	53	133

## HSS TAPER SHANK END MILLS IS : 6354 (STANDARD SERIES)

DIA MM	PRICE (RS.) EACH	IS : 6354 - 1971 TANGED END		IS : 6354 - 1991 TAPPED END		M T No.
		CEL (MM)	OAL (MM)	CEL (MM)	OAL (MM)	
6	1507	16	90	13	83	1
7	1507	-	-	16	86	1
8	1507	19	93	19	89	1
9	1631	-	-	19	89	1
10	1631	22	96	22	92	1
11	1793	-	-	22	92	1
12	1793	26	100	26	96	1
12★	2341	26	118	26	111	1
14	2476	26	100	26	96	2
14★	2637	26	118	26	111	1
16	2640	32	124	32	117	2
18	3223	32	124	32	117	2
20	3720	38	130	38	123	2
20★	4065	38	150	38	140	2
22	3904	38	130	38	123	3
22★	4261	-	-	38	140	2
25	4601	45	157	45	147	3
26	5729	45	157	45	147	3
28	6407	45	157	45	147	3
30	7046	53	165	45	147	3
32	7479	53	165	53	155	3
32★	7479	53	183	53	178	4
33	9043	53	165	53	155	3
33★	9919	-	-	53	178	4
35	9919	53	165	53	155	3
35★	9919	-	-	53	178	4
36	10777	70	210	53	155	3
36★	11757	-	-	53	178	4
38	11855	63	203	63	188	4
38★	13783	-	-	63	221	5
40	13783	63	203	63	188	4
40★	13783	63	203	63	221	5
41	13783	63	203	63	188	4
41★	15155	-	-	63	221	5
43	15155	63	203	63	188	4
43★	15155	-	-	63	221	5
44	15833	63	203	63	188	4
44★	15833	-	-	63	221	5
45	17027	63	203	63	188	4
45★	17027	-	-	63	221	5
46	17428	63	203	63	188	4
46★	18051	-	-	63	221	5
48	18051	63	203	75	200	4
48★	20299	-	-	75	233	5

DIA MM	PRICE (RS.) EACH	IS : 6354 - 1971 TANGED END		IS : 6354 - 1991 TAPPED END		M T No.
		CEL (MM)	OAL (MM)	CEL (MM)	OAL (MM)	
50	20299	75	215	75	200	4
50★	20299	75	250	75	233	5
51	20299	75	250	75	200	4
51★	28442	-	-	75	233	5
53	28443	75	250	75	200	4
53★	35942	-	-	75	233	5
56	35940	75	250	75	200	4
56★	35940	-	-	75	233	5
60	37720	-	-	75	200	4
60★	37720	75	250	75	233	5
63	45229	90	265	90	248	5

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000/- NETT OR 5 NOS. PER SIZE WHICHEVER IS HIGHER.

FOR M35 = 40% & M42 = 80% extra.

- These sizes will be supplied with the smaller MT Shank unless otherwise specified.

#### IMPORTANT NOTES :

THE FOLLOWING IF REQUIRED, CAN BE SUPPLIED SUBJECT TO THE ORDER VALUE BEING Rs. 35,000/- NETT OR 3 NOS. PER SIZE WHICHEVER IS HIGHER.

1. Standard Series Type 'B' Tapped End as per IS:6354 - 1971 at the same rate.
2. Long Series End Mill, Tanged End or Tapped End if required can be supplied at 30 % extra subject to the order value being minimum Rs. 35,000/- per size or minimum 3 Nos. each whichever is higher.
3. For non-listed intermediates sizes, the higher price of the nearest listed size will be applicable subject to order value being minimum. Rs. 35.00/- per size or minimum 3 Nos. each whichever is higher.
4. Left Hand Cutter at 25 % extra.  
Dia 6.0mm to 12.0mm in Tapped End & Tanged End Not Possible

## HSS END MILLS BS : 122 (PART 1) 1953

DIA INCH	PARALLEL SHANK PRICE (RS.) EACH	TAPPED SHANK PRICE (RS.) EACH
1/8	905	1408
5/32	905	1408
3/16	905	1408
7/32	905	1408
1/4★	1012	1408
9/32	1138	1441
5/16★	1138	1441
3/8★	1138	1566
7/16	1138	1587
1/2★	1176	1793
9/16	1458	2476
5/8★	1703	2640
11/16	1904	2975
3/4★	2070	3141
13/16	2289	3569
7/8	2596	3909
15/16	-	4243

DIA INCH	PARALLEL SHANK PRICE (RS.) EACH	TAPPED SHANK PRICE (RS.) EACH
1★	3027	4564
1.1/8	4309	6366
1.1/4	5172	7479
1.3/8	6246	9919
1.1/2	7314	11855
1.5/8	8813	13783
1.3/4	11240	15833
1.7/8	12391	18051
2	13570	20299
2.1/16	16741	-
2.1/8	19833	28131
2.3/16	23849	-
2.1/4	25803	35938
2.5/16	27738	-
2.3/8	29615	39219
2.1/2	33391	45229

ITEM MARKED ★ ARE EX-STOCK ITEMS ALL REMAINING ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000/- NETT MOQ OR 5 NOS. PER SIZE. WHICHEVER IS HIGHER.

**IMPORTANT NOTES :**

1. Taper Shank End Mills with Tapped End for size 9/16" and over, if required, can be supplied at the same rate as the Tanged End.
2. Intermediate sizes (non-listed) price of the next larger listed size.
3. Left Hand Cutter at **25 % extra**  
in case of Taper Shank End Mill Dia 11/16" & above with MOQ.
4. For **M35 = 40% & M42 = 80% extra**

## HSS PRALLEL SHANK SLOT MILLING CUTTERS IS : 6352 (SHORT SERIES)

DIA MM	PRICE (RS.) EACH	IS : 6352 - 1971		IS : 6352 - 1991	
		CEL (MM)	OAL (MM)	CEL (MM)	OAL (MM)
3	1098	6	40	5	37
3.5	1098	6	40	6	38
4	1098	6	40	7	39
5	1098	8	45	8	42
6★	1176	8	45	8★	52
7	1176	10	50	10	54
8★	1176	10	50	11★	55
9	1176	10	50	11	61
10	1220	12	56	13	63
11	1220	12	56	13	70
12	1331	16	63	16	73
14	1703	16	63	16	73
16	1916	18	70	19	79
18	2359	18	70	19	79
20	2359	20	80	22	88

## HSS PRALLEL SHANK SLOT MILLING CUTTERS IS : 6352 (SHORT SERIES)

DIA MM	PRICE (RS.) EACH	IS : 6352 - 1971		IS : 6352 - 1991	
		CEL (MM)	OAL (MM)	CEL (MM)	OAL (MM)
22	2751	22	90	22	88
25	3263	25	100	26	102
28	5405	25	100	26	102
32	5662	28	110	32	112
35	6810	32	118	32	112
36	7314	32	118	32	112
38	7886	36	125	38	130
40	8441	36	125	38	130
41	9547	-	-	38	130
42	9547	-	-	38	130
43	10614	-	-	38	130
44	10614	-	-	38	130
45	10614	-	-	38	130
46	11785	-	-	38	130
47	11785	-	-	38	130
48	11785	-	-	45	147
49	12923	-	-	45	147
50	12923	-	-	45	147

ITEM MARKED ★ ARE EX-STOCK ITEMS ALL REMAINING ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000/- NETT MOQ OR 5 NOS. PER SIZE. WHICHEVER IS HIGHER.

IS : 6352 - 1971 1) TYPE 'A' - FLATE FACE HELICAL FLUTED  
IS : 6352 - 1991 1) TYPE 'A' - FLATE FACE HELICAL FLUTED

**IMPORTANT NOTES :**

1. Type 'A' will be supplied unless otherwise specified.
2. Other Type if required can be supplied at the same rate.
3. Left Hand Cutter at **25 % extra.**
4. Standard Series Slot Milling Cutter if required can be supplied at **30 % extra**, subject to the order value being minimum Rs. 50,000/- NETT. Or 5 Nos. per size whichever is higher.
5. For **M35 = 40% & M42 = 80% extra.**

## HSS TAPER SHANK SLOT MILLING CUTTERS IS : 6388 (SHORT SERIES)

DIA MM	PRICE (RS.) EACH	IS : 6388 - 1971			IS : 6388 - 1991		MT NO.
		CEL (MM)	TANGED END	TAPPED END	TAPPED END		
			OAL (MM)	OAL (MM)	CEL (MM)	OAL (MM)	
6	1678	-	-	-	8	78	1
7	1678	16	90	-	10	80	1
8	1846	16	90	-	11	81	1
9	1846	16	90	-	11	81	1
10	1885	16	90	-	13	83	1
11	1885	16	90	-	13	83	1
12	2104	16	90	-	16	86	1
12★	2461	-	-	-	16	101	2
14	2640	16	90	-	16	86	1
14★	2740	-	-	-	16	101	2
16	2740	18	110	100	19	104	2
18	3141	18	110	100	19	104	2
20	3141	20	114	104	22	107	2
20★	3885	20	-	-	22	124	3

## HSS TAPER SHANK SLOT MILLING CUTTERS IS : 6388 (SHORT SERIES)

DIA MM	PRICE (RS.) EACH	IS : 6388 - 1971			IS : 6388 - 1991		MT NO.
		CEL (MM)	TANGED END	TAPPED END	TAPPED END		
			OAL (MM)	OAL (MM)	CEL (MM)	OAL (MM)	
22	3902	22	118	108	22	107	2
22★	4649	-	-	-	22	124	3
25	4647	25	143	130	26	128	3
26	6412	25	143	130	26	128	3
28	6792	25	143	130	26	128	3
32	8142	28	148	135	32	134	3
32★	9816	-	-	-	32	157	4
35	10552	32	179	164	32	134	3
35★	12218	-	-	-	32	157	4
36	12306	32	179	164	32	134	3
36★	12306	-	-	-	32	157	4
38	12306	36	186	171	38	163	4
38★	16939	-	-	-	38	196	5
40	14044	36	186	171	38	163	4
40★	18689	-	-	-	38	196	5

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 /- NETT OR 5 NOS. PER SIZE WHICHEVER IS HIGHER.

For **M35 = 40% & M42 = 80% extra**

★ These sizes will be supplied with the smaller MT Shank unless otherwise specified.

IS : 6352 - 1971    1) TYPE 'A' & 'D' - FLATE FACE HELICAL FLUTED  
                          2) TYPE 'B' & 'F' - FLATE FACE STRIGHT FLUTED

IS : 6352 - 1991    1) TYPE 'D' - FLATE FACE HELICAL FLUTED

**IMPORTANT NOTES :**

1. Type 'A' (IS : 6388 - 1971) and Type 'D' (IS : 6388 - 1991) will be supplied Unless otherwise specified.
2. Other Type if required can be supplied at the same rate.
3. For non-listed intermediates sizes, the higher price of the nearest listed size will be applicable.
4. Left Hand Cutter at 25 % extra from Dia 14.0mm & above only.
5. Standard Series Slot Milling Cutters if required can be supplied at 30 % extra.

## HSS SLOT DRILLS BS : 122 (PART 1) : 1953

DIA INCH	PARALLEL SHANK PRICE (RS.) EACH	TAPER SHANK PRICE (RS.) EACH
1/8	1098	1510
5/32	1098	1510
3/16	1098	1510
7/32	1172	1653
1/4	1176	1739
5/16	1176	1846
3/8	1176	1846
7/16	1201	1885
1/2	1331	2104
9/16	1703	2640
5/8	1916	2740
11/16	2166	2978

DIA INCH	PARALLEL SHANK PRICE (RS.) EACH	TAPER SHANK PRICE (RS.) EACH
3/4	2359	3141
13/16	2751	3902
7/8	2751	3902
1	3263	4647
1.1/8	4645	6792
1.1/4	5662	8142
1.3/8	6810	10552
1.1/2	7886	12306
1.5/8	9763	-
1.3/4	10614	-
1.7/8	11785	-
2	12922	-

1) Straight flute, Flat Faced, will be supplied unless otherwise specified.  
2) Spiral Fluted, Flate faced same rate.

3) Left hand Cutter **25 % extra.**

## HSS TAPER SHANK T-SLOT CUTTERS - BS : 122 (PART 1) : 1953

NOMINAL SIZE OF BOLT INCH	DIA OF CUTTER INCH	WIDTH OF CUTTER INCH	NO OF MORSE TAPPER SHANK	TAPPED PRICE (RS.) EACH
1/4	37/64	1/4	2	5923
5/16	45/64	5/16	2	6679
3/8	53/64	23/64	2	7303
7/16	61/64	27/64	2	7739
1/2	1.5/64	15/32	2	9348
5/8	1.21/64	37/64	3	15134
3/4	1.33/64	11/16	3	18791
7/8	1.45/64	51/64	3	22162
1	1.61/64	29/32	4	27444
1.1/8	2.1/8	1.1/16	4	35426
1.1/4	2.5/16	1.3/16	4	42141
1.3/8	2.1/2	1.5/16	5	52016
1.1/2	2.3/4	1.7/16	5	66597

NOMINAL SIZE OF T-SLOT MM	DIA OF CUTTER MM	WIDTH MM	PRICE (RS.) EACH
10★	18	8	7373
12★	21	9	8057
14★	25	11	15485
18★	32	14	19387
22	40	18	25972
28	50	22	33495
36	60	28	60360
42	72	35	73250

★ These sizes will be supplied with the smaller MT Shank unless otherwise specified. ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 /- NETT OR 5 NOS. PER SIZE WHICHEVER IS HIGHER.  
For M35 = 40% & M42 = 80% extra.

## HSS WOODRUFF KEYSLOT CUTTERS IS 2669 - 1971 (STRAIGHT TEETH TYPE)

DIA MM	WIDTH MM	NOM. SIZE OF KEY MM	PRICE (RS.) EACH
16.5	5	5 x 6.5	2697
19.5	5	5 x 7.5	3066
	6	6 x 7.5	3066
22.5	5	5 x 9	3488
	6	6 x 9	3488
	8	8 x 9	3488
28.5	6	6 x 11	5659
	8	8 x 11	5659
	10	10 x 11	5659
32.5	7	7 x 13	6692
	8	8 x 13	6692
	10	10 x 13	6692
45.5	10	10 x 16	11366

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 /- NETT OR 15 NOS. PER SIZE WHICHEVER IS HIGHER.

For M35 = 40% & M42 = 80% extra.

## HSS CUTTERS FOR WOODRUFF KEYSEATS - BS : 122 (PART 1) 1953

B. S. CUTTER & KEY NO.	PRICE (RS.) EACH	B. S. CUTTER & KEY NO.	PRICE (RS.) EACH	B. S. CUTTER & KEY NO.	PRICE (RS.) EACH
606	3364	609	5908	1011	8509
607	3950	809	5908	1211	8509
807	3950	1009	5951	812	9612
608	4777	810	6990	1012	9612
808	4777	1010	6990	1212	9612
1008	4777	1210	6990		

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 /- NETT OR 15 NOS. PER SIZE WHICHEVER IS HIGHER.

For M35 = 40% & M42 = 80% extra.

## HSS FACE CUTTERS : (AS PER TABLE NO 19 OF BSS : 122 : 1938)

DIAMETER OF CUTTER INCH	OVERALL LENGTH OF CUTTER INCH	DIAMETER OF BORE INCH	PRICE (RS.) EACH
1.3/4	1.1/4	3/4	6146
2	1.1/4	3/4	7088
2.1/2	1.1/4	3/4	8952
3	1.11/16	1.1/8	12819
4	1.3/4	1.1/8	21439
5	2	1.1/2	36059

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 /- NETT OR 15 NOS. PER SIZE WHICHEVER IS HIGHER.

For M35 = 40% & M42 = 80% extra.

**HSS KEYWAY MILLING CUTTERS FORM RELIEVED  
IS : 6355 (STRAIGHT TEETH TYPE)**

DIA MM (js16)	BORE MM (H7)	WIDTH MM (D9)	PRICE (RS.) EACH
50	16	5	4008
		6	4334
		8	4600
		10	4803

63	22	6	4707
		8	4922
		10	5414
		12	5877
		14	6222
		16	6685
		18	7185

80	27	6	6583
		8	7015
		10	7488
		12	8383
		14	9059
		16	9625
		18	10166
		20	10808

100	32	6	7752
		8	8320
		10	9059
		12	9865
		14	10613
		16	11421
		18	12086
		20	12350
		22	13797
		25	14738

125	32	8	11878
		10	12991
		12	14170
		14	15617
		16	16656
		18	18048
		20	19113
		22	20358
		25	22287
		32	24160

160	40	10	21405
		12	22536

160	40	14	24013
		16	25710
		18	27362
		20	29195
		22	31087
		25	33748
		28	35632
		32	40325

200	40	12	33143
		14	35014
		16	37236
		18	39860
		20	42670
		22	45849
		25	49427
		28	53565
		32	59622
		36	65674
		40	71910

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 /- NETT OR 15 NOS. PER SIZE WHICHEVER IS HIGHER.

For M35 = 40% & M42 = 80% extra.

WIDTH OF CUTTER INCH	DIAMETER OF CUTTER					
	PRICE (RS.) EACH					
	2.1/2"	3"	3.1/2"	4"	5"	6"
1/4	3258	3724	4645	5601	8952	11566
5/16	3532	4008	5100	6255	9805	12820
3/8	3769	4312	5514	6828	10666	14058
7/16	3986	4713	5928	7952	11566	15313
1/2	4211	4952	6356	8013	12461	16591
5/8	4713	5575	7237	10017	14170	19107
3/4	5046	6074	7863	10166	15567	21189
7/8	5400	6706	8487	11704	16992	23290
1	5719	7399	9100	12051	18409	25463

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 /- NETT OR 15 NOS. PER SIZE WHICHEVER IS HIGHER.

For **M35 = 40% & M42 = 80% extra.**

**HSS SHELL END MILLS - IS : 6257 - 1982**

DIA MM (js 16)	BORE (H7)	WIDTH (js 16)	PRICE (RS.) EACH
40	16	32	7131
50	22	36	8671
63	27	40	11416
80	27	45	16862
100	32	50	25744
125	40	56	43164
160	50	63	81470

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 /- NETT OR 5 NOS. PER SIZE WHICHEVER IS HIGHER.

For **M35 = 40% & M42 = 80% extra.**

**HSS SHELL END MILLS - BS : 122 (PART 1) : 1953**

DIA OF CUTTER INCH	LENGTH OF CUTTER INCH	DIA OF BORE INCH	PRICE (RS.) EACH
1.1/4	1	1/2	4905
1.1/2	1.1/8	1/2	6000
1.3/4	1.1/4	3/4	7130
2	1.3/8	3/4	8106
2.1/4	1.1/2	1	9774
2.1/2	1.5/8	1	11368
2.3/4	1.5/8	1	12923
3	1.3/4	1.1/4	15044
3.1/2	1.7/8	1.1/4	18760
4	2.1/4	1.1/2	27589
4.1/2	2.1/4	1.1/2	33078
5	2.1/4	1.1/2	43164
5.1/2	2.1/4	2	50493
6	2.1/4	2	58236

ALL ABOVE ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000 /- NETT OR 5 NOS. PER SIZE WHICHEVER IS HIGHER.

For **M35 = 40% & M42 = 80% extra.**



**TAPS**



**HSS HAND AND SHORT MACHINE TAPS  
(COARSE PITCH) - NON-SERIAL IS 6175 : 1992 :  
PART I, PART II & PART III AND HSS NUT TAPS  
IS : 6175 - 1991 (PART V) (6H TOLERANCE)**

PRICE RS. EACH

NOM DIA X PITCH	PART I	PART II			PART III			NUT TAPS	PANTHER CI TAPS	
	STR FLUTES	STR FLUTES	SPIRAL POINT	SPIRAL FLUTES	STR FLUTES	SPIRAL POINT	SPIRAL FLUTES			
BRIGHT FINISH	M2.0 x 0.40	649								
	M2.2 x 0.45	649								
	M2.3 x 0.40	649								
	M2.5 x 0.45	649								
	M3 x 0.5		393	497	537	430	541	633	523	
	M3.5 x 0.6		393	497	537	430	541	633		
	M4 x 0.7		393	497	537	430	541	633	523	
	M4.5 x 0.75		424	523	570	456	570	640		
	M5 x 0.8		423	523	570	456	570	640	551	
	M6 x 1.0		423	523	570	467	588	645	899	551
	M8 x 1.25		500	607	662	527	670	760	1014	726
	M10 x 1.5		613	755	821	619	826	903	1348	1129
	M12 x 1.75					958	1157	1296	2079	1621
	M14 x 2.00					1359	1679	1979	2891	1609
	M16 x 2.00					1359	1679	1979	2891	1609
	M18 x 2.5					2200	2649	3011	4640	
	M20 x 2.5					2805	3357	4042	6196	
	M22 x 2.5					3003	3578	4201	6339	
	M24 x 3.0					3300	3984	4559	7142	
	M25 x 3.0					4083			8521	
	M27 x 3.0					5074			10950	
	M30 x 3.5					5681			13657	
	M33 x 3.5					6912			15075	
	M36 x 4.0					9614			19500	
	M39 x 4.0					11285			23492	
	M42 x 4.5					13168			27706	
	M45 x 4.5					17718			33411	
	M48 x 5.00					18890			39453	
	M52 x 5.0					23717				
	M56 x 5.5					33750				
	M60 x 5.5					35570				
	M64 x 6.0					37410				
M68 x 6.0					46682					

**HSS HAND AND SHORT MACHINE TAPS  
(COARSE PITCH) - NON-SERIAL IS 6175 : 1992 :  
PART I, PART II & PART III AND HSS NUT TAPS  
IS : 6175 - 1991 (PART V) (6H TOLERANCE)**

PRICE RS. EACH

NOM DIA X PITCH	PART I	PART II			PART III			NUT TAPS	PANTHER CI TAPS
	STR FLUTES	STR FLUTES	SPIRAL POINT	SPIRAL FLUTES	STR FLUTES	SPIRAL POINT	SPIRAL FLUTES		
TIN COATING	M2.0 x 0.40	689							
	M2.2 x 0.45	689							
	M2.3 x 0.40	689							
	M2.5 x 0.45	689							
	M3 x 0.5		433	536	576	469	581	672	
	M3.5 x 0.6		433	571	576	469	581	672	
	M4 x 0.7		467	571	611	504	615	707	
	M4.5 x 0.75		498	597	644	530	644	714	
	M5 x 0.8		497	597	644	530	644	714	
	M6 x 1.0		497	597	644	540	661	719	
	M8 x 1.25		621	728	783	648	791	882	
	M10 x 1.5		735	876	942	740	948	1024	
	M12 x 1.75					1079	1278	1417	
	M14 x 2.00					1509	1830	2129	
	M16 x 2.00					1609	1930	2229	
	M18 x 2.5					2601	3050	3412	
	M20 x 2.5					3206	3757	4443	
	M22 x 2.5					3502	4076	4700	
	M24 x 3.0					3799	4483	5057	

TiN Coated items are supplied against order only

**NOTES :**

- Sizes upto M10 will be supplied as per Part II unless otherwise specified.
- Serial Taps can be supplied at the same price.
- A Set Consist of Taper, Second & Bottoming.
- Left Hand Taps at **25% extra**
- For **M35 = 40% & M42 = 80% extra**

**IMPORTANT NOTES : (NUT TAPS - MOQ)**

UPTO M10 (50 NOS EACH) OVER M10 - M28 (25 NOS EACH)  
OVER M28 - M35 (15 NOS EACH) OVER M35 (10 NOS EACH)

**HSS HAND AND SHORT MACHINE TAPS (FINE PITCH) -  
NON-SERIAL IS 6175 : 1992 : (6H TOL) PART II &  
PART III AND HSS NUT TAPS - IS : 6175 - 1991 (PART V)**

PRICE RS. EACH

NOM DIA X PITCH	PART II			PART III			NUT TAPS	PANTHER CI TAPS
	STR FLUTES	SPIRAL POINT	SPIRAL FLUTES	STR FLUTES	SPIRAL POINT	SPIRAL FLUTES		
M3.0 x 0.35	581	782						
M3.5 x 0.35	581	782						
M4 x 0.5	581	707						
M4.5 x 0.5	570	707						
M5 x 0.5	570	689						
M6 x 0.75	577	782	741	637	694	823	1015	721
M7 x 0.75	667	782	880	667	795		1291	834
M8 x 0.75								
M8 x 1.0	604	721	791	667	730	877	1170	755
M9 x 1.0								
M10 x 1.0	687	828	950	769	831	1050	1541	1215
M10 x 1.25	687	828	950	769	831	1050	1541	1215
M12 x 1.0							2420	
M12 x 1.25				1118	1270	1500	2420	1397
M12 x 1.5				1118	1270	1500	2420	1397
M14 x 1.0							3608	
M14 x 1.25				1429	1709	2060	3608	1786
M14 x 1.5				1379	1709	1998	3608	1724
M16 x 1.0							3608	
M16 x 1.5				1379	1709	2006	3608	1724
M18 x 1.0							5360	
M18 x 1.5				2501	2805	3360	5360	
M18 x 2.0				2501	2805	3360	5360	
M20 x 1.5				3122	3512	4294	6872	
M20 x 2.0				3122	3512	4294	6872	
M22 x 1.5				3381	3847	4707	7293	
M22 x 2.0				3381	3847	4707	7293	
M24 x 1.5				3777	4236	5221	8675	
M24 x 2.0				3777	4236	5221	8675	
M25 x 1.5				4046			9755	
M25 x 2.0				4046				
M26 x 1.5				4218				
M26 x 2.0				4218				
M27 x 1.5				5665			12290	
M27 x 2.0				5665				
M28 x 1.5				5665			15305	
M28 x 2.0				5665				
M30 x 1.5				6373			15305	
M30 x 2.0				6373			15305	
M30 x 3.0				6373				
M32 x 1.5				6754				
M32 x 2.0				6754				
M33 x 1.5				7780				

**BRIGHT FINISH**

**HSS HAND AND SHORT MACHINE TAPS (FINE PITCH) -  
NON-SERIAL IS 6175 : 1992 : (6H TOL) PART II &  
PART III AND HSS NUT TAPS - IS : 6175 - 1991 (PART V)**

PRICE RS. EACH

	NOM DIA X PITCH	PART II			PART III			NUT TAPS	PANTHER CI TAPS
		STR FLUTES	SPIRAL POINT	SPIRAL FLUTES	STR FLUTES	SPIRAL POINT	SPIRAL FLUTES		
<b>TiN COATING</b>	M33 x 2.0				7780			16972	
	M33 x 3.0				7780				
	M3.0 x 0.35	621	821						
	M3.5 x 0.35	621	821						
	M4 x 0.5	655	781						
	M4.5 x 0.5	644	781						
	M5 x 0.5	644	763						
	M6 x 0.75	651	856	815	711	768	897		
	M7 x 0.75	789	903	1002	789	916			
	M8 x 0.75								
	M8 x 1.0	725	843	912	789	851	998		
	M9 x 1.0								
	M10 x 1.0	808	950	1072	890	952	1171		
	M10 x 1.25	808	950	1072	890	952	1171		
	M12 x 1.0								
	M12 x 1.25				1239	1391	1621		
	M12 x 1.5				1239	1391	1621		
	M14 x 1.0								
	M14 x 1.25				1579	1859	2210		
	M14 x 1.5				1529	1859	2148		
	M16 x 1.0								
	M16 x 1.5				1630	1959	2256		
	M18 x 1.0								
	M18 x 1.5				2902	3206	3761		
	M18 x 2.0				2902	3206	3761		
	M20 x 1.5				3523	3913	4695		
	M20 x 2.0				3523	3913	4695		
	M22 x 1.5				3880	4345	5205		
M22 x 2.0				3880	4345	5205			
M24 x 1.5				4275	4734	5719			
M24 x 2.0				4275	4734	5719			

TiN Coated items are supplied against order only

**NOTES :**

- Sizes upto M10 will be supplied as per Part II unless otherwise specified.
- Serial Taps can be supplied at the same price.
- A Set Consist of Taper, Second & Bottoming.
- Left Hand Taps at **25% extra**
- For **M35 = 40% & M42 = 80% extra**

**IMPORTANT NOTES : (NUT TAPS - MOQ)**

UPTO M10 (50 NOS EACH) OVER M10 - M28 (25 NOS EACH)  
OVER M28 - M35 (15 NOS EACH) OVER M35 (10 NOS EACH)

## HSS HAND & SHORT MACHINE TAPS (FINE PITCH) NON-SERIAL - 6175 : 1992 : PART III (6H-TOL)

PRICE RS. EACH

NOM. DIA x PITCH	STRAIGHT FLUTES
M35 x 1.5	10787
M36 x 1.5	10787
M36 x 2.0	10787
M36 x 3.0	10787
M39 x 1.5	13435
M39 x 2.0	13435
M39 x 3.0	13435
M42 x 1.5	14883
M42 x 2.0	14883
M42 x 3.0	14883
M42 x 4.0	14883
M45 x 1.5	20712
M45 x 2.0	20712
M45 x 3.0	20712
M45 x 4.0	20712
M48 x 1.5	21511
M48 x 2.0	21511
M48 x 3.0	21511
M48 x 4.0	21511
M50 x 1.5	23810
M50 x 2.0	23810
M50 x 3.0	23810
M52 x 1.5	26789
M52 x 2.0	26789
M52 x 3.0	26789

PRICE RS. EACH

NOM. DIA x PITCH	STRAIGHT FLUTES
M52 x 4.0	26789
M56 x 1.5	36741
M56 x 2.0	36741
M56 x 3.0	36741
M56 x 4.0	36741
M60 x 1.5	38858
M60 x 2.0	38858
M60 x 3.0	39566
M60 x 4.0	39566
M64 x 1.5	41541
M64 x 2.0	41541
M64 x 3.0	42108
M64 x 4.0	42108
M68 x 1.5	52566
M68 x 2.0	52566
M68 x 3.0	52988
M68 x 4.0	52988
M72 x 6.0	62987
M76 x 6.0	76880
M80 x 6.0	93048
M85 x 6.0	114526
M90 x 6.0	143098
M95 x 6.0	180109
M100 x 6.0	222518

ITEM MARKED ★ ARE EX-STOCK ITEMS ALL REMAINING ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF RS. 50,000/- NETT MOQ OR 5 NOS. PER SIZE. WHICHEVER IS HIGHER.

**NOTES :**

- Sizes upto M 10 will be supplied as per Part II unless otherwise specified.
- Serial Taps can be supplied at the same price.
- A Set Consist of Taper & Bottoming.

4. Left Hand Taps at **25% extra**

5. For **M35= 40% & M42 = 80% extra**

**NOTES: (NUT TAPS - MOQ)**

UPTO M10 - (50 NOS EACH)  
OVER M10 - M28 (25 NOS EACH)  
OVER M28 - M35 (15 NOS EACH)  
OVER M35 (10 NOS EACH)

## HSS LONG MACHINE TAPS (COARSE PITCH) IS 6175 : 1991 : PART IV : (6H - TOL)

PRICE RS. EACH

NOM. DIA x PITCH	STR FLUTES TYPE 'A', 'C', 'D'.	SPIRAL POINT TYPE 'B'.	SPIRAL FLUTES TYPE 'C'
M3 x 0.5	862	995	1010
M4 x 0.7	862	995	1010
M5 x 0.8	623	730	760
M6 x 1.0	666	784	824
M8 x 1.25	721	862	891
M10 x 1.5	915	1050	1117
M12 x 1.75	1278	1484	1626
M14 x 2.0	1839	2139	2463
M16 x 2.0	1839	2139	2463
M18 x 2.5	2843	3285	3704
M20 x 2.5	3532	4058	4413
M22 x 2.5	3923	4559	4444
M24 x 3.0	4331	5060	5518

PRICE RS. EACH

NOM. DIA x PITCH	STR FLUTES TYPE 'A', 'C', 'D'.	SPIRAL POINT TYPE 'B'.	SPIRAL FLUTES TYPE 'C'
M27 x 3.0	6309		
M30 x 3.5	7157		
M33 x 3.5	8440		
M36 x 4.0	11375		
M39 x 4.0	13307		
M42 x 4.5	15578		
M45 x 4.5	20441		
M48 x 5.0	22908		
M52 x 5.0	26496		
M56 x 5.5	35130		
M60 x 5.5	40248		
M64 x 6.0	45406		
M68 x 6.0	63284		

ITEM MARKED ★ ARE EX-STOCK ITEMS ALL REMAINING ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000/- NETT MOQ OR 5 NOS. PER SIZE. WHICHEVER IS HIGHER.

FOR M35 = 40% & M42 = 80% extra.

**IMPORTANT NOTES :**

MACHINE TAPS

Type 'A' - 5 Deg Taper angle with Longer taper lead

Type 'B' - 10 Deg Taper angle with Spiral point

Type 'C' - 20 Deg Taper angle with Shorter taper lead

Type 'D' - 10 Deg Taper angle without Spiral point

## HSS LONG SHANK MACH. TAPS TO DIN - 2183 BSW / UNC / BSF / UN / NF (TYPE A, B & C)

PRICE RS. EACH

SIZE INCH	PRICE (RS.) EACH TYPE 'A' & 'C'	PRICE (RS.) EACH TYPE 'B'
1/8	609	712
3/16	670	764
1/4	679	808
5/16	788	915
3/8	948	1193
7/16	1128	1334
1/2	1337	1540
5/8	1960	2265
3/4	2569	3512
7/8	4118	4602

PRICE RS. EACH

SIZE INCH	PRICE (RS.) EACH TYPE 'A' & 'C'	PRICE (RS.) EACH TYPE 'B'
1	5158	5442
1.1/8	6874	7360
1.1/4	8289	8953
1.1/2	12919	13504
1.3/8	12919	13504
1.5/8	15434	16040
1.3/4	17925	18570
1.7/8	21900	22488
2	25889	26454

**HSS LONG SHANK MACHINE TAPS (FINE PITCH)  
IS 6175 : 1991 : PART IV : (6H -TOL)**

PRICE RS. EACH

NOM. DIA x PITCH	STRAIGHT FLUTES TYPE 'A', 'C', 'D'	SPIRAL POINT TYPE 'B'
M3 x 0.35	1170	1256
M3.5 x 0.35	1170	1256
M4 x 0.5	1170	1256
M4.5 x 0.5	757	889
M5 x 0.5	757	889
M6 x 0.75	757	889
M7 x 0.75	866	1003
M8 x 1.0	796	949
M10 x 1.0	958	1109
M10 x 1.25	974	1128
M12 x 1.25	1388	1603
M12 x 1.5	1388	1603
M14 x 1.25	1815	2147
M14 x 1.5	1815	2147
M16 x 1.5	1778	2187
M18 x 1.5	3127	3795
M18 x 2.0	3127	3795
M20 x 1.5	4088	4827
M20 x 2.0	4088	4827
M22 x 1.5	4239	5012
M22 x 2.0	4239	5012
M24 x 1.5	4737	5588
M24 x 2.0	4737	5588
M25 x 1.5	6031	7127
M25 x 2.0	6031	7127
M26 x 1.5	6165	7277
M26 x 2.0	6165	7277
M27 x 1.5	7429	8492
M27 x 2.0	7429	8492
M28 x 1.5	8076	9209
M28 x 2.0	8076	9209
M30 x 1.5	8360	
M30 x 2.0	8360	
M30 x 3.0	8360	
M32 x 1.5	9182	
M32 x 2.0	9182	
M33 x 1.5	10112	
M33 x 2.0	10112	
M33 x 3.0	10112	
M35 x 1.5	14135	
M36 x 1.5	14135	
M36 x 2.0	14135	
M36 x 3.0	14135	
M39 x 1.5	17379	
M39 x 2.0	17379	

PRICE RS. EACH

NOM. DIA x PITCH	STRAIGHT FLUTES TYPE 'A', 'C', 'D'	SPIRAL POINT TYPE 'B'
M39 x 3.0	17379	
M40 x 1.5	18581	
M40 x 2.0	18581	
M40 x 3.0	18581	
M42 x 1.5	19135	
M42 x 2.0	19135	
M42 x 3.0	19135	
M42 x 4.0	19135	
M45 x 1.5	26677	
M45 x 2.0	26677	
M45 x 3.0	26677	
M45 x 4.0	26677	
M48 x 1.5	28119	

NOM. DIA X PITCH	STRAIGHT FLUTES TYPE 'A', 'C', 'D'.
M48 x 2.0	28119
M48 x 3.0	28119
M48 x 4.0	28119
M50 x 1.5	32500
M50 x 2.0	32500
M50 x 3.0	32500
M52 x 1.5	34762
M52 x 2.0	34762
M52 x 3.0	34762
M52 x 4.0	34762

**HSS PIPE TAPS**  
**NPS NPT NPSF - BS : 949 - 1969**  
**BSP BS : 949 - 1957**  
**BSPT BS : 949 PART III - 1982**

TAP SIZE	PRICE (RS.) EACH					
	PARALLEL THREAD			TAPER THREAD		
INCH	BSP	NPS	NPSF	BSPT	NPT	NPTF
1/16	-	-	-	-	802	802
1/8	656	745	903	838	865	1031
1/4	1024	1291	1592	1501	1575	1944
3/8	1509	1587	1966	1985	2079	2353
1/2	2199	2363	2859	2853	2995	3392
5/8	2488	-	-	-	-	-
3/4	3543	3717	4572	4636	4704	5437
7/8	4420	-	-	-	-	-
1	5570	6206	7589	7207	7398	8456
1.1/4	8365	9777	-	10565	10696	12458
1.1/2	10438	12082	-	12957	13813	-
1.3/4	15967	-	-	-	-	-
2	18737	21591	-	22762	23922	-
2.1/4	32409	-	-	-	-	-
2.1/2	46760	-	-	68250	69318	-
2.3/4	52185	-	-	-	-	-
3	60584	-	-	89297	90022	-
3.1/2	78849	-	-	117705	117907	-
4	99113	-	-	148369	151114	-

**IMPORTANT NOTES :**

**BSP(P), BSP(T), NPS NPT NPTS NPTF**

A set consists of 2 Taps (Taper & Plug) , we can also supply BSP (P) Taps to new BS 949 : Part - III - 1982 (G Series) at the same rate as per order.

**HSS HAND TAPS BA - BS : 949 : 1969 AND HSS NUT TAPS**  
**BA - BA : 949 - 1969**

SIZE BA	PRICE (RS.) EACH		
	STRAIGHT FLUTES	SPIRAL POINT	NUT TAPS
0	484	606	988
1	484	606	988
2	411	551	858
3	411	551	858
4★	411	551	858
5	411	551	948
6	456	592	1051

ITEM MARKED ★ ARE EX-STOCK ITEMS ALL REMAINING ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000/- NETT MOQ OR 50 NOS. PER SIZE. WHICHEVER IS HIGHER.

For **M35 = 40% & M42 = 80% extra.**

**HSS GROUND THREAD TAPS :  
STANDARD HAND & SHORT MACHINE TAPS :  
B.S.B. (BRITISH STANDARD BRASS) WHITWORTH FORM  
B.S.CY. (BRITISH STANDARD CYCLE) 60° THREAD FORM  
B.S. : 949 - 1969**

B.S. CY SIZE INCH	TPI	PRICE (RS.) EACH	
		STR. FLUTES	SPIRAL POINTED
3/16	32	462	566
1/4	26	499	577
5/16	26	623	710
3/8	26	757	865
7/16	26	950	1142
1/2	26	1177	1373
9/16	26	1884	2081
1	24	3924	-
1.370	24	8293	-

B.S. B SIZE INCH	TPI	PRICE (RS.) EACH	
		STR. FLUTES	SPIRAL POINTED
1/4	26	485	569
5/16	26	642	732
3/8	26	732	840
7/16	26	972	1157
1/2	26	1198	1394
9/16	26	1868	2057
5/8	26	1868	-
3/4	26	2540	-
1	26	3910	-

**HSS GROUND THREAD TAPS :  
STANDARD HAND & SHORT MACHINE TAPS :  
B.S. CON (BRITISH STANDARD CONDUIT) WHITWORTH FORM  
B.S. : 949 - 1969 (ZONE - 3)**

B.S. CON SIZE INCH	TPI	PRICE (RS.) EACH	
		STR. FLUTES	SPIRAL POINTED
1/2	18	1257	1257
-	-	-	-
5/8	18	1922	-
3/4	16	2671	-
1	16	4164	-
1.1/4	16	6047	-
-	-	-	-
1.1/2	14	9671	-
2	14	16908	-

PRICES FOR LPG CYLINDER 3/4 NGT TAPS :	EACH (RS.)
1. 3/4" - 14 NGT tap interrupted 5 flutes to our Drg.No. M22 - 531	6003
2. 3/4" - 14 NGT tap interrupted 5 flutes to our Drg.No. M22 - 574	6609
3. 3/4" - 14 NGT tap interrupted 5 flutes to our Drg.No. M22 - 535	5737
4. 3/4" - 14 NGT tap NON-interrupted 4 flutes to our Drg.No. M22 - 535	4588

PRICES FOR LPG CYLINDER BSGT TAPS :	EACH (RS.)
0.715" x 14 TPI - BSGT Tap Interrupted 5 flutes to our Drg. No. SKT-012	6738
0.715" x 14 TPI -BSGT Tap NON-Interrupted 4 flutes to our Drg. No. SKT- 012	5878

**IMPORTANT NOTES :**

ALL NGT &BSGT TAPS ARE SUBJECT TO ORDER VALUE BEING MINIMUM

ITEM MARKED ★ ARE EX-STOCK ITMS ALL REMAINING ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF Rs. 50,000/- NETT MOQ OR 15 NOS. PER SIZE. WHICHEVER IS HIGHER.

FOR M35 = 40% & M42 = 80% extra.

Prices for all TiN and TiAlN Taps will be given on specific request.

## HSS HAND TAPS BSW, BSF, UNC, UNF AND HSS NUT TAPS B.S. : 949 - 1969

SIZE INCH	PRICE (RS.) EACH			
	STRAIGHT FLUTES	SPIRAL POINT	SPIRAL FLUTES	NUT TAPS
1/8	413	492		
3/16	413	507		889
1/4	428	514	598	1008
5/16	484	599	663	1261
3/8	589	721	822	1663
7/16	753	929	1080	2062
1/2	953	1144	1319	2864
9/16	1379	1682	2028	2864
5/8	1379	1682	2028	3717
11/16				3903
3/4	2183	2614	3091	4588
7/8	3011	3627	4223	6285
1	3808	4400	5050	8173
1.1/8	5156			11006
1.1/4	6198			13643
1.3/8	8005			16236
1.1/2	9610			19455
1.5/8(BSF ONLY)	11323			21897
1.3/4	13319			27367
2	18888			39002
2.1/4	28158			
2.1/2	37050			
2.3/4	46220			
3	62061			

A set consist of Taper, Second & Bottoming

## HSS NIB TAPS (CORSE PITCH) TO OUR STANDARD

NOM DIA x PITCH	STRAIGHT FLUTES PRICE (RS.) EACH
M4 x 0.7	581
M5 x 0.8	623
M6 x 1.0	694
M8 x 1.25	726
M10 x 1.5	914
M12 x 1.75	1070
M14 x 2.0	1858
M16 x 2.0	1858
M18 x 2.5	3060
M20 x 2.5	4091

NOM DIA x PITCH	STRAIGHT FLUTES PRICE (RS.) EACH
1/8" BSW	622
5/32" BSW	635
3/16" BSW	635
1/4" BSW	648
5/16" BSW	726
3/8" BSW	914
7/16" BSW	1282
1/2" BSW	1282
9/16" BSW	1858
5/8" BSW	1858

ITEM MARKED ★ ARE EX-STOCK ITEMS ALL REMAINING ITEMS WILL ATTRACT MINIMUM ORDER VALUE OF RS. 50,000/- NETT MOQ OR 25 NOS. PER SIZE. WHICHEVER IS HIGHER.

FOR M35 = 40% & M42 = 80% extra.

## HSS-E PANTHER SERIES TAPS TO IS 6175 - PART - II & PART - IV AND DIN - 371

PRICE RS. EACH

	NOM DIA X PITCH	IS : 6175 - PART - II AND DIN 371				
		SPPT	SPIRAL	CAST IRON	FLUTELESS	FLUTELESSOIL GROOVES
Bright / steam Tempered	M3 x 0.5	679	760	565		
	M4 x 0.7	679	760	565	1188	1311
	M5 x 0.8	708	802	595	1188	1311
	M6 x 1.0	708	802	595	1188	1311
	M8 x 1.0	943	1150	784	1649	1722
	M8 x 1.25	794	907	656	1373	1436
	M10 x 1.25	1136	1302	949	1679	1755
	M10 x 1.50	978	1128	815	1679	1755
	M12 x 1.75					
	M14 x 2.0					
	M16 x 1.5					
	M16 x 2.0					

## HSS-E PANTHER SERIES TAPS TO IS 6175 - PART - II & PART - IV AND DIN - 371

PRICE RS. EACH

	NOM DIA X PITCH	IS : 6175 - PART - II AND DIN 371				
		SPPT	SPIRAL	CAST IRON	FLUTELESS	FLUTELESSOIL GROOVES
Tin- Coating	M3 x 0.5	744	836	616		
	M4 x 0.7	744	836	616	1281	1401
	M5 x 0.8	777	881	650	1281	1401
	M6 x 1.0	777	881	650	1281	1401
	M8 x 1.0	1016	1239	846	1755	1830
	M8 x 1.25	869	993	721	1481	1542
	M10 x 1.25	1246	1429	1037	1808	1885
	M10 x 1.50	1075	1236	893	1767	1885
	M12 x 1.75					
	M14 x 2.0					
	M16 x 1.5					
	M16 x 2.0					

PRICE RS. EACH

	NOM DIA X PITCH	IS : 6175 - PART - II AND DIN 371				
		SPPT	SPIRAL	CAST IRON	FLUTELESS	FLUTELESSOIL GROOVES
TiCN / Ti(A)IN	M3 x 0.5	808	910	670		
	M4 x 0.7	808	910	670	1377	1497
	M5 x 0.8	845	958	706	1377	1497
	M6 x 1.0	845	958	706	1377	1497
	M8 x 1.0	1093	1323	909	1863	1938
	M8 x 1.25	945	1080	782	1587	1651
	M10 x 1.25	1355	1553	1130	1939	2014
	M10 x 1.50	1165	1341	971	1938	2014
	M12 x 1.75					
	M14 x 2.0					
	M16 x 1.5					
	M16 x 2.0					

PRICE RS. EACH

	NOM DIA X PITCH	IS : 6175 - PART - IV				
		SPPT	SPIRAL	CAST IRON	FLUTELESS	FLUTELESSOIL GROOVES
Bright / steam Tempered	M6 x 1.0	1128		939		
	M8 x 1.0					
	M8 x 1.25	1199		1002		
	M10 x 1.25					
	M10 x 1.5	1461		1219		
	M12 x 1.75	2122		1751		
	M14 x 2.0					
	M16 x 1.5					
M16 x 2.0						

## HSS-E PANTHER SERIES TAPS TO IS 6175 - PART - II & PART - IV AND DIN - 371

PRICE RS. EACH

	NOM DIA X PITCH	IS : 6175 - PART - IV				
		SPPT	SPIRAL	CAST IRON	FLUTELESS	FLUTELESSOIL GROOVES
Tin- Coating	M6 x 1.0	1236		1029		
	M8 x 1.0					
	M8 x 1.25	1312		1094		
	M10 x 1.25					
	M10 x 1.5	1599		1337		
	M12 x 1.75	2322		1915		
	M14 x 2.0					
	M16 x 1.5					
	M16 x 2.0					

PRICE RS. EACH

	NOM DIA X PITCH	IS : 6175 - PART - IV				
		SPPT	SPIRAL	CAST IRON	FLUTELESS	FLUTELESSOIL GROOVES
TiCN / Ti(A)N	M6 x 1.0	1341		1118		
	M8 x 1.0					
	M8 x 1.25	1428		1190		
	M10 x 1.25					
	M10 x 1.5	1739		1455		
	M12 x 1.75	2524		2082		
	M14 x 2.0					
	M16 x 1.5					
	M16 x 2.0					

\* MINIMUM ORDER VALUE OF Rs 50,000/- NETT OR MOQ 10 NO'S PER SIZE WHICH EVER IS HIGHER

**HSS-E PANTHER SERIES TAPS TO  
IS 6175 PART - III & DIN - 374 AND DIN - 376**

PRICE RS. EACH

	NOM DIA X PITCH	IS : 6175 - PART - III				
		SPPT	SPIRAL	CAST IRON	FLUTELESS	FLUTELESSOIL GROOVES
Bright / steam Tempered	M3 x 0.5					
	M4 x 0.7					
	M5 x 0.8					
	M6 x 1.0					
	M8 x 1.0					
	M8 x 1.25					
	M10 x 1.25					
	M10 x 1.50					
	M12 x 1.75	1537	1771	1300		2892
	M14 x 2.0	2091	2387	1738		4000
	M16 x 1.5	2100	2407	1751		4282
	M16 x 2.0	2091	2387	1738		4282
	M18 x 2.5	3034	3467	2522		
	M20 x 1.5	5084	6609	4564		
M20 x 2.5	3998	4568	3323		8009	

PRICE RS. EACH

	NOM DIA X PITCH	IS : 6175 - PART - III				
		SPPT	SPIRAL	CAST IRON	FLUTELESS	FLUTELESSOIL GROOVES
Tin- Coating	M3 x 0.5					
	M4 x 0.7					
	M5 x 0.8					
	M6 x 1.0					
	M8 x 1.0					
	M8 x 1.25					
	M10 x 1.25					
	M10 x 1.50					
	M12 x 1.75	1682	1940	1425		3038
	M14 x 2.0	2291	2617	1906		4262
	M16 x 1.5	2300	2912	1915		4545
	M16 x 2.0	2291	2617	1906		4545
	M18 x 2.5	3228	3661	2715		
	M20 x 1.5	5762	7334	5130		
M20 x 2.5	4260	4834	3587		8286	

**HSS-E PANTHER SERIES TAPS TO  
IS 6175 PART - III & DIN - 374 AND DIN - 376**

PRICE RS. EACH

	NOM DIA X PITCH	IS : 6175 - PART - III				
		SPPT	SPIRAL	CAST IRON	FLUTELESS	FLUTELESSOIL GROOVES
TiCN / Ti(A)IN	M3 x 0.5					
	M4 x 0.7					
	M5 x 0.8					
	M6 x 1.0					
	M8 x 1.0					
	M8 x 1.25					
	M10 x 1.25					
	M10 x 1.50					
	M12 x 1.75	1830	2106	1548		3271
	M14 x 2.0	2490	2848	2071		4524
	M16 x 1.5	2500	3140	2082		4807
	M16 x 2.0	2490	2848	2071		4807
	M18 x 2.5	3419	3856	2907		
	M20 x 1.5	6440	8060	5694		
M20 x 2.5	4522	5095	3849		8563	

PRICE RS. EACH

	NOM DIA X PITCH	DIN - 374 / DIN - 376				
		SPPT	SPIRAL	CAST IRON	FLUTELESS	FLUTELESSOIL GROOVES
Bright / steam Tempered	M6 x 1.0					
	M8 x 1.0	1282	1723	1104	2038	
	M8 x 1.25					
	M10 x 1.25	1606	1966	1312	2493	
	M10 x 1.5					
	M12 x 1.75	2122	2847	1751		3703
	M14 x 2.0	2913	3900	2400		5084
	M16 x 1.5	3057	4015	2513		
	M16 x 2.0	2913	3900	2400		5084
	M18 x 2.5	4720	6137	4121		
	M20 x 1.5					
	M20 x 2.5	5805	7545	5062		

## HSS-E PANTHER SERIES TAPS TO IS 6175 PART - III & DIN - 374 AND DIN - 376

PRICE RS. EACH

	NOM DIA X PITCH	DIN - 374 / DIN - 376				
		SPPT	SPIRAL	CAST IRON	FLUTELESS	FLUTELESSOIL GROOVES
Tin- Coating	M6 x 1.0					
	M8 x 1.0	1396	1853	1198	2184	2276
	M8 x 1.25					
	M10 x 1.25	1749	2127	1428	2668	2784
	M10 x 1.5					
	M12 x 1.75	2322	3078	1915		4022
	M14 x 2.0	3080	4069	2570		5269
	M16 x 1.5	3296	4108	2722		6039
	M16 x 2.0	3080	4069	2570		5269
	M18 x 2.5	4914	6329	4314		
	M20 x 1.5					
	M20 x 2.5	6067	7807	3975		

PRICE RS. EACH

	NOM DIA X PITCH	DIN - 374 / DIN - 376				
		SPPT	SPIRAL	CAST IRON	FLUTELESS	FLUTELESSOIL GROOVES
TiCN / Ti(A)IN	M6 x 1.0					
	M8 x 1.0	1510	1984	1293	2331	2421
	M8 x 1.25					
	M10 x 1.25	1886	2292	1543	2844	2957
	M10 x 1.5					
	M12 x 1.75	2524	3308	2082		4339
	M14 x 2.0	3251	4241	2740		5452
	M16 x 1.5	3566	4222	2949		6350
	M16 x 2.0	3251	4241	2740		5452
	M18 x 2.5	5106	6523	4506		
	M20 x 1.5					
	M20 x 2.5	6330	8072	5587		

\* MINIMUM ORDER VALUE OF Rs 50,000/- NETT OR MOQ 10 NO'S PER SIZE WHICH EVER IS HIGHER

## MASONRY DRILLS - CARBIDE TIPPED (GROUND FLUTED & BRIGHT PLATED) TO OUR STANDARD

SIZE		FLUTE LENGTH	OVER ALL LENGTH	PRICE (RS.) EACH	
MM	INCH			STANDARD	DELUXE
3	1/8★	40	76	66	75
4	5/32	45	85	79	89
5	3/16★	45	87	89	98
6	7/32★	45	87	106	117
6	15/64	60	107	117	129
7	1/4	60	107	106	117
7	9/32	60	107	206	224
8	5/16	80	120	181	200
9	11/32	80	120	239	263
10	3/8	80	120	212	235
11	7/16	115	160	299	329
12	15/32	115	160	265	292
13	1/2	115	160	265	292

ITEMS MARKED ★ ARE EX-STOCK.

## HSS HATHYAR TOOL BITS (BLANKS)

SIZE		PRICE (RS.) EACH		
MM	INCH	HATHYAR 600	HATHYAR 900	HATHYAR 1000
5 x 75	3/16 x 3	141	363	
5 x 100	3/16 x 4	185	532	
5 x 150	3/16 x 6	287	1128	
6 x 75	1/4 x 3	161	486	
6 x 100	1/4 x 4	187	649	656
6 x 150	1/4 x 6	271	1055	1064
6 x 200	1/4 x 8	389	1801	
8 x 75	5/16 x 3	179	627	
8 x 100	5/16 x 4	228	858	
8 x 150	5/16 x 6	383	1382	1395
8 x 200	5/16 x 8	487	1966	
	3/8 x 3	224	737	784
	3/8 x 4	271	977	1055
	3/8 x 6	421	1574	1665
	3/8 x 8	577	2250	2384
	3/8 x 10	743	2974	
10 x 75		248	813	
10 x 100		296	1094	
100 x 150		458	1712	
10 x 200		638	2407	
10 x 250		809	3178	
12 x 75	1/2 x 3	336	1207	
12 x 100	1/2 x 4	421	1577	1675
12 x 150	1/2 x 6	646	2484	2590
12 x 200	1/2 x 8	851	3468	3610

## HSS HATHYAR TOOL BITS (BLANKS)

SIZE		PRICE (RS.) EACH		
MM	INCH	HATHYAR 600	HATHYAR 900	HATHYAR 1000
12 x 250	1/2 x 10	1293	4778	
16 x 100	5/8 x 4	669	2529	
16 x 150	5/8 x 6	989	3902	4119
16 x 200	5/8 x 8	1338	5478	
	3/4 x 4	928	3657	5720
	3/4 x 6	1356	5377	
	3/4 x 8	1853	7372	
20 x 100		1012	4005	
20 x 150		1476	5999	
20 x 200		2019	7991	
25 x 150	1 x 6	2285	9021	
25 x 200	1 x 8	3105	11997	

Prices HSS M35 (5% Cobalt) and HSS M42 (8% Cobalt) will be given on only request.

1. Item marked ★ are Ex-Stock, other sizes against specific orders.
2. Quantity to be ordered in multiple of 10 only for sizes upto and including 1/2" square.
3. Minimum order value of Rs. 50,000/- Nett or MOQ 20 Nos. per size whichever is higher.

## DECIMAL EQUIVALENTS FRACTIONS OF AN INCH EXPRESSED AS MILLIMETERS

FRACTIONAL INCH	MM	FRACTIONAL INCH	MM	FRACTIONAL INCH	MM	FRACTIONAL INCH	MM
1/64	0.3969	1 1/64	25.797	2 1/64	51.197	3 1/64	76.597
1/32	0.7938	1 1/32	26.194	2 1/32	51.594	3 1/32	76.994
3/64	1.1906	1 3/64	26.591	2 3/64	51.991	3 3/64	77.391
1/16	1.5875	1 1/16	26.988	2 1/16	52.388	3 1/16	77.788
5/64	1.9844	1 5/64	27.384	2 5/64	52.784	3 5/64	78.184
3/32	2.3813	1 3/32	27.781	2 3/32	53.181	3 3/32	78.581
7/64	2.7781	1 7/64	28.178	2 7/64	53.578	3 7/64	78.978
1/8	3.1750	1 1/8	28.575	2 1/8	53.975	3 1/8	79.375
9/64	3.5719	1 9/64	28.972	2 9/64	54.372	3 9/64	79.772
5/32	3.9688	1 5/32	29.369	2 5/32	54.769	3 5/32	80.169
11/64	4.3656	1 11/64	29.766	2 11/64	55.166	3 11/64	80.566
3/16	4.7625	1 3/16	30.163	2 3/16	55.563	3 3/16	80.963
13/64	5.1594	1 13/64	30.559	2 13/64	55.959	3 13/64	81.359
7/32	5.5563	1 7/32	30.956	2 7/32	56.356	3 7/32	81.756
15/64	5.9531	1 15/64	31.353	2 15/64	56.753	3 15/64	82.153
1/4	6.3500	1 1/4	31.750	2 1/4	57.150	3 1/4	82.550
17/64	6.7469	1 17/64	32.147	2 17/64	57.547	3 17/64	82.947
9/32	7.1438	1 9/32	32.544	2 9/32	57.944	3 9/32	83.344
19/64	7.5406	1 19/64	32.941	2 19/64	58.341	3 19/64	83.741
5/16	7.9375	1 5/16	33.338	2 5/16	58.738	3 5/16	84.138
21/64	8.3344	1 21/64	33.734	2 21/64	59.134	3 21/64	84.534
11/32	8.7313	1 11/32	34.131	2 11/32	59.531	3 11/32	84.931
23/64	9.1281	1 23/64	34.528	2 23/64	59.928	3 23/64	85.328
3/8	9.5250	1 3/8	34.925	2 3/8	60.325	3 3/8	85.725
25/64	9.9219	1 25/64	35.322	2 25/64	60.722	3 25/64	86.122
13/32	10.3188	1 13/32	35.719	2 13/32	61.119	3 13/32	86.519
27/64	10.7156	1 27/64	36.116	2 27/64	61.516	3 27/64	86.916
7/16	11.1125	1 7/16	36.513	2 7/16	61.913	3 7/16	87.313
19/64	7.5406	1 19/64	32.941	2 19/64	58.341	3 19/64	83.741
15/32	11.9063	1 15/32	37.306	2 15/32	62.706	3 15/32	88.106
31/64	12.3031	1 31/64	37.703	2 31/64	63.103	3 31/64	88.503
1/2	12.7000	1 1/2	38.100	2 1/2	63.500	3 1/2	88.900
33/64	13.0969	1 33/64	38.497	2 33/64	63.897	3 33/64	89.297
17/32	13.4938	1 17/32	38.894	2 17/32	64.294	3 17/32	89.694
35/64	13.8906	1 35/64	39.291	2 35/64	64.691	3 35/64	90.091
9/16	14.2875	1 9/16	39.688	2 9/16	65.088	3 9/16	90.488
37/64	14.6844	1 37/64	40.084	2 37/64	65.484	3 37/64	90.884
19/32	15.0813	1 19/32	40.481	2 19/32	65.881	3 19/32	91.281
39/64	15.4781	1 39/64	40.878	2 39/64	66.278	3 39/64	91.678
5/8	15.8750	1 5/8	41.275	2 5/8	66.675	3 5/8	92.075
41/64	16.2719	1 41/64	41.672	2 41/64	67.072	3 41/64	92.472
21/32	16.6688	1 21/32	42.069	2 21/32	67.469	3 21/32	92.869
43/64	17.0656	1 43/64	42.466	2 43/64	67.866	3 43/64	93.266
11/16	17.4625	1 11/16	42.863	2 11/16	68.263	3 11/16	93.663
45/64	17.8594	1 45/64	43.259	2 45/64	68.659	3 45/64	94.059
23/32	18.2563	1 23/32	43.656	2 23/32	69.056	3 23/32	94.456

## DECIMAL EQUIVALENTS FRACTIONS OF AN INCH EXPRESSED AS MILLIMETERS

FRACTIONAL INCH	MM	FRACTIONAL INCH	MM	FRACTIONAL INCH	MM	FRACTIONAL INCH	MM
47/64	18.6531	1 47/64	44.053	2 47/64	69.453	3 47/64	94.853
3/4	19.0500	1 3/4	44.450	2 3/4	69.850	3 3/4	95.250
49/64	19.4469	1 49/64	44.847	2 49/64	70.247	3 49/64	95.647
25/32	19.8438	1 25/32	45.244	2 25/32	70.644	3 25/32	96.044
51/64	20.2406	1 51/64	45.641	2 51/64	71.041	3 51/64	96.441
13/16	20.6375	1 13/16	46.038	2 13/16	71.438	3 13/16	96.838
53/64	21.0344	1 53/64	46.434	2 53/64	71.834	3 53/64	97.234
27/32	21.4313	1 27/32	46.831	2 27/32	72.231	3 27/32	97.631
55/64	21.8281	1 55/64	47.228	2 55/64	72.628	3 55/64	98.028
7/8	22.2250	1 7/8	47.625	2 7/8	73.025	3 7/8	98.425
57/64	22.6219	1 57/64	48.022	2 57/64	73.422	3 57/64	98.822
23/32	18.2563	1 23/32	43.656	2 23/32	69.056	3 23/32	94.456
59/64	23.4156	1 59/64	48.816	2 59/64	74.216	3 59/64	99.616
15/16	23.8125	1 15/16	49.213	2 15/16	74.613	3 15/16	100.013
61/64	24.2094	1 61/64	49.609	2 61/64	75.009	3 61/64	100.409
31/32	24.6063	1 31/32	50.006	2 31/32	75.406	3 31/32	100.806
63/64	25.0031	1 63/64	50.403	2 63/64	75.803	3 63/64	101.203
1	25.4000	2	50.800	3	76.200	4	101.600

## DRILLS FOR USE PRIOR TO TAPPING

METRIC 60° INC ANGLE											
NOM DIA	PITCH	DRILL DIA	NOM DIA	PITCH	DRILL DIA	NOM DIA	PITCH	DRILL DIA	NOM DIA	PITCH	DRILL DIA
2.00	0.40	1.60	9.00	0.75	8.20	16.00	2.00	14.00	25.00	2.00	23.00
2.20	0.45	1.75	9.00	1.00	8.00	17.00	1.00	16.00	26.00	1.50	24.50
2.50	0.35	2.15	9.00	1.25	7.80	17.00	1.50	15.50	27.00	1.00	26.00
2.50	0.45	2.05	10.00	0.75	9.20	18.00	1.00	17.00	27.00	1.50	25.50
3.00	0.35	2.65	10.00	1.00	9.00	18.00	1.50	16.50	27.00	2.00	25.00
3.00	0.50	2.50	10.00	1.25	8.80	18.00	2.00	16.00	27.00	3.00	24.00
3.50	0.35	3.15	10.00	1.50	8.50	18.00	2.50	15.50	28.00	1.00	27.00
3.50	0.60	2.90	11.00	0.75	10.20	20.00	1.00	19.00	28.00	1.50	26.50
4.00	0.50	3.50	11.00	1.00	10.00	20.00	1.50	18.50	28.00	2.00	26.00
4.00	0.70	3.30	11.00	1.50	9.50	20.00	2.00	18.00	30.00	1.00	29.00
4.50	0.50	4.00	12.00	1.00	11.00	20.00	2.50	17.50	30.00	1.50	28.50
4.50	0.75	3.70	12.00	1.25	10.80	22.00	1.00	21.00	30.00	2.00	28.00
5.00	0.50	4.50	12.00	1.50	10.50	22.00	1.50	20.50	30.00	3.00	27.00
5.00	0.80	4.20	12.00	1.75	10.20	2.00	2.00	20.00	30.00	3.50	26.50
5.50	0.50	5.00	14.00	1.00	13.00	22.00	2.50	19.50	32.00	1.50	30.50
6.00	0.75	5.20	14.00	1.25	12.80	24.00	1.00	23.00	32.00	2.00	30.00
6.00	1.00	5.00	14.00	1.50	12.50	24.00	1.50	22.50	33.00	1.50	31.50
7.00	0.75	6.20	14.00	2.00	12.00	-	-	-	33.00	2.00	31.00
7.00	1.00	6.00	15.00	1.00	14.00	24.00	2.00	22.00	33.00	3.00	30.00
8.00	0.75	7.20	15.00	1.50	13.50	24.00	3.00	21.00	33.00	3.50	29.50
8.00	1.00	7.00	16.00	1.00	15.00	25.00	1.00	24.00	35.00	1.50	33.50
8.00	1.25	6.80	16.00	1.50	14.50	25.00	1.50	23.50	36.00	1.50	34.50

## DRILLS FOR USE PRIOR TO TAPPING

METRIC 60° INC ANGLE											
NOM DIA	PITCH	DRILL DIA	NOM DIA	PITCH	DRILL DIA	NOM DIA	PITCH	DRILL DIA	NOM DIA	PITCH	DRILL DIA
36.00	2.00	34.00	40.00	2.00	38.00	45.00	3.00	42.00	50.00	2.00	48.00
36.00	3.00	33.00	40.00	3.00	37.00	45.00	4.00	41.00	50.00	3.00	47.00
36.00	4.00	32.00	42.00	1.50	40.50	45.00	4.50	40.50	52.00	1.50	50.50
38.00	1.50	36.50	42.00	2.00	40.00	48.00	1.50	46.50	52.00	2.00	50.00
39.00	1.50	37.50	42.00	3.00	39.00	48.00	2.00	46.00	52.00	3.00	49.00
39.00	2.00	37.00	42.00	4.00	38.00	48.00	3.00	45.00	52.00	4.00	48.00
39.00	3.00	36.00	42.00	4.50	37.50	48.00	4.00	44.00	52.00	5.00	47.00
39.00	4.00	35.00	45.00	1.50	43.50	48.00	5.00	43.00	56.00	5.50	50.50
40.00	1.50	35.80	45.00	2.00	43.00	50.00	1.50	48.00	-	-	-

### AMERICAN NATIONAL THREADS

SIZE NO.	60° INC ANGLE							
	N.C		N.F		U.N.C		U.N.F	
	TPI	DRILL SIZE IN MM	TPI	DRILL SIZE IN MM	TPI	DRILL SIZE IN MM	TPI	DRILL SIZE IN MM
0	-	-	80	1.25	-	-	-	-
2	56	1.85	64	1.90	-	-	-	-
4	40	2.35	48	2.40	40	2.35	-	-
6	32	2.85	40	2.95	32	2.85	-	-
8	32	3.50	36	3.50	32	3.50	-	-
10	24	3.90	32	4.10	24	3.90	32	4.10
12	24	4.50	28	4.70	-	-	-	-

### BRITISH ASSOCIATION

47 1/2° INC ANGLE			
SIZE MM	DIA	PITCH	DRILL SIZE
0	6.00	1.00	5.10
1	5.30	0.90	4.50
2	4.70	0.81	4.00
3	4.10	0.73	3.40
4	3.60	0.66	3.00
5	3.20	0.59	2.65
6	2.80	0.53	2.30

## DRILLS FOR USE PRIOR TO TAPPING BRITISH STANDARD WHITWORTH FORM THREADS

NOM DIA INCH	55° INC ANGLE							
	B.S.W		B.S.F		B.S.P (PARALLEL)		B.S.P (TAPER)	
	TPI	DRILL SIZE	TPI	DRILL SIZE	TPI	DRILL SIZE	TPI	DRILL SIZE
1/8	40	2.55	-	-	28	8.80	28	8.40
3/16	24	3.70	32	5/32	-	-	-	-
7/32	-	-	28	4.60	-	-	-	-
1/4	20	5.10	26	5.30	19	11.80	19	11.20
9/32	-	-	26	6.11	-	-	-	-
5/16	18	6.50	22	6.80	-	-	-	-
3/8	16	5/16	20	8.30	19	15.25	19	14.75
7/16	14	9.30	18	9.70	-	-	-	-
1/2	12	10.50	16	7/16	14	3/4	14	23/32
9/16	12	12.10	16	1/2	-	-	-	-
5/8	11	13.50	14	14.00	14	53/64	-	-

## DRILLS FOR USE PRIOR TO TAPPING BRITISH STANDARD WHITWORTH FORM THREADS

55° INC ANGLE								
NOM DIA INCH	B.S.W		B.S.F		B.S.P (PARALLEL)		B.S.P (TAPER)	
	TPI	DRILL SIZE	TPI	DRILL SIZE	TPI	DRILL SIZE	TPI	DRILL SIZE
11/16	11	15.00	14	15.50	-	-	-	-
3/4	10	41/64	12	16.75	14	24.50	14	15/16
7/8	9	19.25	11	25/32	14	28.25		
1	8	22.00	10	22.75	11	30.75	11	30.0
1 1/8	7	24.75	9	25.50	-	-	-	-
1 1/4	7	1 3/32	9	1 1/8	11	39.50	11	44.50
1 3/8	-	-	8	31.50	-	-	-	-
1 1/2	6	33.50	8	1 23/64	11	1 25/32	11	56.0
1 5/8	-	-	8	37.90	-	-	-	-
1 3/4	5	39.00	7	41.00	11	51.00	-	-
2	4.5	44.50	7	47.00	11	2 1/4	11	2 13/16
2 1/4	4	51.00	6	53.00	11	63.26	-	-
2 1/2	4	57.00	6	58.00	11	72.73	-	-
2 3/4	3.5	62.14	6	63.35	11	79.08	-	-
3	3.5	68.30	5	69.50	11	85.43	11	(84.35)
3 1/2	-	-	-	-	11	97.88	11	(109.42)
4	-	-	-	-	11	110.58	-	-

## AMERICAN NATIONAL FORM THREADS

60° INC ANGLE							
NOM DIA INCH	NC & U.N.C		NE & U.N.F		N.P.T & N.P.S		
	FRACTIONAL INCH	TPI	DRILL SIZE IN MM	TPI	DRILL SIZE IN MM	TPI	DRILL SIZE IN MM
TAPPING WITH REAMER							TAPPING WITHOUT REAMER
1/4	20	5.10	28	5.50	18	10.70	11.10
5/16	18	6.60	24	6.90	-	-	-
3/8	16	8.00	24	8.50	18	14.25	14.50
7/16	14	9.40	20	9.90	-	-	-
1/2	13	10.80	20	11.50	14	17.50	18.00
9/16	12	12.20	18	12.90	-	-	-
5/8	11	13.50	18	14.50	-	-	-
3/4	10	16.50	16	17.50	14	22.75	23.25
7/8	9	19.50	14	20.40	-	-	-
1	8	22.25	12	23.25	11.5	28.50	29.00
1 1/4	7	28.00	12	29.50	11.5	37.50	38.00
1 1/2	6	34.00	12	36.00	11.5	43.50	44.00

# HARDNESS CONVERSION CHART

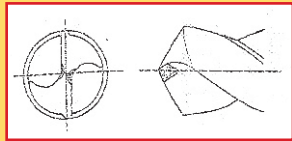
VHN	BHN	HRA	HRB	HRC
940		85.6		68
920		85.3		67.5
900		85		67
880	*767	84.7		66.4
860	*757	84.4		65.9
840	*745	84.1		65.3
820	*733	83.8		64.7
800	*722	83.4		64
780	*710	83		63.3
760	*698	82.6		62.5
740	*684	82.2		61.8
720	*670	81.6		61
700	*656	81.3		60.1
690	*647	81.1		59.7
680	*638	80.8		59.2
670	*630	80.6		58.8
660	620	80.3		58.3
650	611	80		57.8
640	601	79.8		57.3
630	591	79.5		56.8
620	582	79.2		56.3
610	573	78.9		55.7
600	564	78.6		55.2
590	554	78.4		54.7
580	545	78		54.1
570	535	77.8		53.6
560	525	77.4		53
550	517	77		52.3
540	507	76.7		51.7
530	497	76.4		51.1
520	488	76.1		50.5
510	479	75.7		49.8
500	471	75.3		49.1
490	460	74.9		48.4
480	452	74.5		47.7
470	442	74.1		46.9
460	433	73.6		46.1
450	425	73.3		45.3
440	415	72.8		44.5
430	405	72.3		43.6
420	397	71.8		42.7
410	388	71.4		41.8
400	379	70.8		40.8
390	369	70.3		39.8
380	360	69.8	*110	38.8
370	350	69.2		37.7
360	341	68.7	*109	36.6

VHN	BHN	HRA	HRB	HRC
350	331	68.1		35.5
340	322	67.8	*108	34.4
330	313	67		33.3
320	303	66.4	*107	32.2
310	294	65.8		31
300	284	65.2	*105.5	29.8
295	280	64.8		29.2
290	275	64.5	*104.5	28.5
285	270	64.2		27.8
280	265	63.8	*103.5	27.1
275	261	63.5		26.4
270	256	63.1	*102	25.6
265	252	62.7		24.8
260	247	62.4	*101	24
255	243	62		23.1
250	238	61.6	99.5	22.2
245	233	61.2		21.3
240	228	60.7	98.1	20.3
230	219		96.7	18
220	209		95	15.7
210	200		93.4	13.4
200	190		91.5	11
190	181		89.5	8.5
180	171		87.1	6
170	162		85	3
160	152		81.7	0
150	143		78.7	
140	133		75	
130	124		71.2	
120	114		66.7	
110	105		62.3	
100	95		56.2	

\*Values beyond range only for information

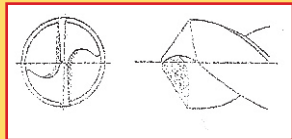
- VHN** Vicker's Hardness Number / Diamond Pyramid
- BHN** Brinell Hardness Number (w-ball) 10mm / 3000Kgs
- HRA** Rockwell A Scale - Diamond Cone / 60Kgs
- HRB** Rockwell B Scale - 1/16" dia. Ball / 100Kgs
- HRC** Rockwell C Scale - Diamond Cone / 150Kgs

## POINT ENHANCEMENT



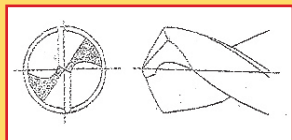
### FORM A

Web thinning (Thinned chisel)  
Improves penetration  
Ideal for Long series.



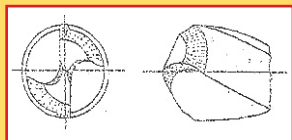
### FORM B

Web thinned + Lips corrected  
Optimized to heavy duty.  
Ideal for Deep Hole drilling.



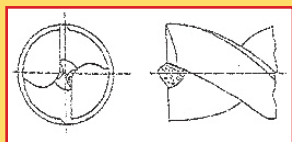
### FORM C

Split Point  
Eases chip removal & penetration  
Ideal for Crank Shaft Drilling.



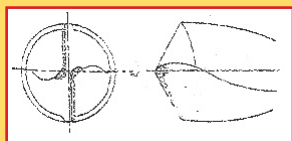
### FORM D

Cast Iron Point  
90 peripheral point + web thinning  
Ideal for Cast iron and abrasive plastics.



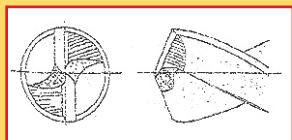
### FORM E

Brad point  
flat point + central drill  
Ideal for sheet metal drilling.



### FORM 4F

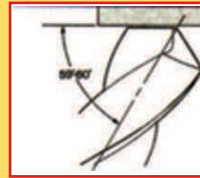
Fusion of form A & B (Four Faces)  
A high performing point for long chips Ideal  
for stainless & high nickel steels.



### FORM R

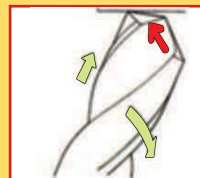
Helical thinning  
curls and breaks the chips.  
Ideal for long chip type.

## POINT GRINDING TECHNIQUES



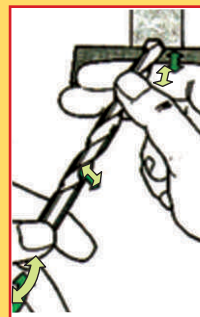
### STEP 1

Keep the cutting lip parallel to the grinding face with an angle of 59° to the axis of drill body.



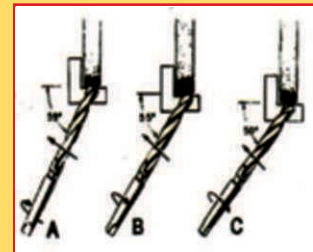
### STEP 2

Start grinding from the lip down to heel side. Simultaneously rotate the drill clockwise.



### STEP 3

Gradually co-ordinate these three movements :  
- Clockwise rotation of the drill point.  
- Downward movement of shank-end of drill.  
- Left swing movement of the shank-end.  
59° to 55° and 50° by the end of grinding.



← **SIDE VIEW** of the point grinding

## ITM QUICK GUIDELINES FOR DRILLING ON DIFFERENT MATERIALS

MATERIAL	CHARACTER	POINT ANGLE	HELIX/ FLUTE	MODIFICATION	COOLANT	SPEED	FEED	REMARKS/ RECOMMENDATIONS
						M/MIN	MM/REV.	
Carbon & Alloy Steels	Normalised	118°	Standard	None	Soluble Oil	18 to 24	0.1 to 0.5	Feed range for 5mm to 25mm dia.
	Forged	125°				15 to 21		
	Cast	118°				15 to 21		
Cast Iron	Grey/SG Iron	90°/118°	Standard	Web thinned	Com-pressed Air	24 to 30	0.1 to 0.5	Double point Angle
	Malleable	90°/118°				15 to 21		
	Martensitic							Only Carbide Drills works on this
Manganese Steels	Tough	130°	Slow	Web Thinned	Dry	3 to 3.5	0.04 to 0.1	Apply feed before contact No use of Punch/no interruption
Stainless Steel	Austentic	135°	Quick	Split	Sulf/ Cl Sol. Oil	6 to 12	0.15 to 0.6	Blued rigid / donot use punch
	Martensitic	118°	Standard	Web Thin	Soluble Oil	12 to 18	0.1 to 0.5	Feed range for 5mm to 25mm dia.
Monel Steel	Work Hardening	110° to 115°	Standard	Split	Soluble Oil	6 to 15	0.15 to 0.6	Use thick web /short/rigid drill
High Nickel/ Nimonic	Work Hardening	110° to 115°	Standard	Split	Soluble Oil	3 to 6	0.15 to 0.6	Use thick web /short/rigid drill
(Rotary Drill) Copper (Stationary Drill)	Soft	100°	Quick/Wide	None	Soluble Oil	30 to 46	0.1 to 0.5	Point Angle as per chip Behaviour
	Hard	130°	Quick/Wide			21 to 30		
		As above	Standard			30 to 46		
Bronze / Brass	Cast & neval	118°	Slow/Wide	Ground lip	Soluble Oil	30 to 60	0.1 to 0.5	Short chips / Lip grd. For large size
	yellow brass	118°	Standard	None		30 to 60		Continous long chips type
	Hard type	130°	Standard			21 to 30		
Magnesium & Alloys	Freecutting	118°	Standard	None	Soluble oil	60 to 90	0.1 to 0.5	Dia cast alloys
Aluminium	Long chip	130°	Quick	None	Paraffin	30 to 60	0.1 to 0.5	Pure Aluminium
	Short chip	130°	Standard		Hard Oil/ Kerosene			Alloys and high silicon grades, M35
Titanium	Poor Conductivity	118° to 140°		Web thinned	Copius Sol. Oil	4.5 to 9	0.05 to 0.3	Thick Web/Obtuse angle to larger
Plastics	Thermoplastics	130° to 140°	Quick	None	Soap Soln	6 to 45	0.2 to 0.5	Speed/Feed by material (PVC/CA)
	Thermosetting	60° to 90°	Slow	None	Dry	27 to 45	0.1 to 0.5	Powdery abrasive matl. (Bacelite)
Granite/Concrete	Masonary	Standard	Standard	None	Dry	21 to 30	0.2 to 0.5	Use Masonary Drills / Carbide Tip

\*\*\* Only popular material addressed in this chart, others may be related according to characteristics

WORK-PIECES MATERIAL	CUTTING SPEED IN M/MIN	DRILL DIAMETER MM									
			1	2	5	8	12	16	25	40	63
Steel	30 - 35	f	HAND	0.05	0.12	0.2	0.25	0.3	0.4	0.4	0.5
*45 Kg mm2		n	12000	6000	2400	1500	1000	750	480	300	190
Steel	15 - 25	f	HAND	0.05	0.12	0.2	0.25	0.3	0.4	0.4	0.5
*45-70 Kg mm2		n	10000	5000	2100	1300	850	640	410	260	165
Steel	8 - 15	f	HAND	0.04	0.1	0.15	0.2	0.25	0.3	0.3	0.4
*above 70 Kg mm2		n	8000	4000	1600	995	680	500	318	200	125
Alloy Steel	20 - 30	f	HAND	HAND	0.06	0.1	0.15	0.2	0.3	0.3	0.3
*above 100 Kg mm2		n	3650	1840	735	455	305	230	145	90	60
Cast Iron	5 - 15	f	HAND	0.07	0.12	0.2	0.3	0.4	0.5	0.6	0.6
*above 18 Kg mm2		n	8000	4000	1600	1000	660	500	320	200	127
Cast Iron	3 - 5	f	HAND	HAND	0.1	0.2	0.3	0.4	0.5	0.6	0.6
*above 18-30 Kg mm2		n	3180	1600	635	400	265	200	130	80	50
Mang Steel	6 - 12	f	HAND	HAND	0.05	0.08	0.1	0.1	0.15	0.2	0.2
*above 15%		n	1300	650	255	160	110	80	50	32	20
Stainless Steel	80 - 100	f	HAND	HAND	0.05	0.1	0.12	0.15	2	0.2	0.3
		n	2800	1400	570	360	240	180	110	70	45
Brass-Brittle	50 - 60	f	HAND	0.08	0.02	0.25	0.3	0.4	0.5	0.6	0.7
		n	28000	14000	5700	3600	2400	1800	1100	700	450
Brass - Ductile	50 - 70	f	HAND	0.05	0.15	0.25	0.3	0.4	0.5	0.6	0.7
		n	17500	8700	3500	2200	1500	1100	700	440	280
Copper & Zinc Alloy	80 - 120	f	HAND	0.04	0.14	0.18	0.22	0.25	0.3	0.45	0.5
		n	16000	8000	3200	2000	1325	1000	650	400	250
Aluminium Long Chipped		f	HAND	0.05	0.14	0.2	0.25	0.3	0.4	0.45	0.5
	120 - 160	n	32000	16000	6350	4000	2650	2000	1280	800	500
Aluminium Short Chipped		f	HAND	0.06	0.16	0.25	0.35	0.4	0.5	0.65	0.7
		n	38000	19000	7600	4800	3200	2400	1520	1000	600

**TROUBLE SHOOTING (DRILLS)**

	PROBLEM	CAUSES	REMEDIES
1	Oversize hole	1. Unequal lip angles 2. Unequal lip lengths	Regrind drill point to correct angle with proper relief
2	Irregular & poor finish	1. Loose hold 2. Chocking of chips 3. Excessive feed rate	Check the holder and run-out Increase the force & volume of Coolant decrease the feed rate
3	Bucking of the drill	Axial deflection of drill	Use correct guide bushes
4	Chattering of Drill	1. Hard/Tough workpiece 2. Torsional deflection	Use a shorter drill with thick web to improper studiness
5	Breaking of the drill	1. poor rigidity of fixture 2. Improper speed and feed 3. Insufficient chip removal	Use rigid fixture and chucks Select speed and feed as per job. Remove the chips frequently

## TROUBLE SHOOTING (DRILLS)

	PROBLEM	CAUSES	REMEDIES
		4. Excessive web thickness	Web thinning & proper point grinding.
6	Breakage in deep hole	1. Blockage of chips	Try wood-pecking system.
		2. Non- uniform back taper	Check back taper uniformity
		3. Run out on OD	Check concentricity
7	Rubbing	1. Improper Point Relief	Regrind drill-point with proper relief.
		2. Non-uniform back taper	Check for negative back-taper on body.
8	Burning	1. Insufficient coolant flow	Ensure proper coolant flow
	Land Washes off	2. Inappropriate coolant	Use proper coolant recommended.
		3. hard work-piece	Select the right drill suitable for job.
9	Splitting of drills	1. Axial play in spindle	Correct the spindle play.
		2. Springy clamping of job	Ensure rigid clamping.
		3. Excessive feed	Reduce the feed.
10	Tang breakage	1. Slipping Chuck	Modify the inner surface of the holder or change the holder.
		2. Defect in inner surface of morse taper	

## TROUBLE SHOOTING (TAPS)

	PROBLEM	CAUSES	REMEDIES
1	Tap Breakage	1. Incorrect tap	– Choose Suitable type tap
		2. Incorrect chamfer symmetry	– Ensure proper centre align
		3. Small hole	– Select proper hole size
		4. hits at bottom of hole	– Use slipping clutch/shorten
		5. Tool hardness, geometry	– Check the hardness of job
		6. blunt tap	– Regrind the tap
2	Poor Tap life Chipping/ wear	1. Surface hardening of hole	– Work hardening material, Lower Speed
		2. Chip Congestion	– Check Speed. Use alternate type
		3. Thread Surface	– Ensure proper geometry
		4. Ineffective coolant supply	– Improper efficiency of coolant
		5. High Cutting Speed	– Lower existing speed
		6. Smaller hole size	– Refer the chart for correct hole size
		7. Cold welding/irregular job micro	– Improper lubrication & speed
3	Larger Thread (Oversize Cutting)	1. Incorrect type of tap	– Use specified tap for application
		2. Smaller hole size	– Use the recommended hole size
		3. Improper Alignment	– Check the alignment and eccentricity
		4. Spindle restriction	– Check the spindle condition / runout
		5. Build up edges	– Improper lubrication
		6. High Speed	– Lower the Speed

PROBLEM	CAUSES	REMEDIES
4  Smaller Thread (Undersize Cutting)	1. Incorrect tap selection	– Check the corecteness of tap used
	2. Inaccurate setup	– Recheck the alignemen
	5. Rigid Spindle	– Ensure spindle movement smooth
	6. Tolerance	– Ensuregeometrical Tolerances
5  Bell Mouth hole	1. Incorrect Starting pressure	– Use a spindle with axial float
6  Unsatisfactory finish (Poor finish)	1. Blunt Tap	– Resharpen the tap
	2. Badly Reground	– Grind properly
	6. Coolant improper quality/qty	– Use ample supply of right lubricant

## ENHANCEMENT (METALLURGICAL)

### SURFACE TREATMENTS :

**STEAM TEMPERING** : Gives a strongly adhering blue oxide surface that acts to retain cutting fluid and prevent chips welding to cutting edges. More effective on drills and taps.

**NITRIDING** : This process can increase the surface wear resistance. Particularly useful on taps and drills used on abrasive material like Cast iron and Bakelite.

### SURFACE COATING

#### TiN - TITANIUM NITRIDE : (GOLDEN COLOUR) :

Ceramic coating applied by physical vapor deposition (PVD) gives high hardness and low friction properties, improve the performance and considerably longer life to HSS tools. Mainly for drills and taps.  
Hardness : 2300 HV.

#### Ti(Al)N - TITANIUM ALUMINIUM NITRIDE : (VIOLET COLOUR)

Multi-layer PVD coating improves tool life substantially. Higher toughness and oxidation stability permits dry machining. Ideal for drills and taps used at higher speeds and feeds.  
(Hardness : 3300 HV)

#### TiCN - TITANIUM CARBO-NITRIDE : (BLUISH GREY)

This coating is harder than TiN with lower coefficient of friction. Ideal for milling cutters. (Hardness : 3000 HV) (other coatings: Titanium Diboride-TiB<sub>2</sub>, Chromium nitride-CrN, Zirconium nitride-ZrN, Diamond like coat-DLC, Tungsten carbide - WC/C, Aluminum chromium nitride- AlCrN, Diamond coating - crystalline & multi layers)

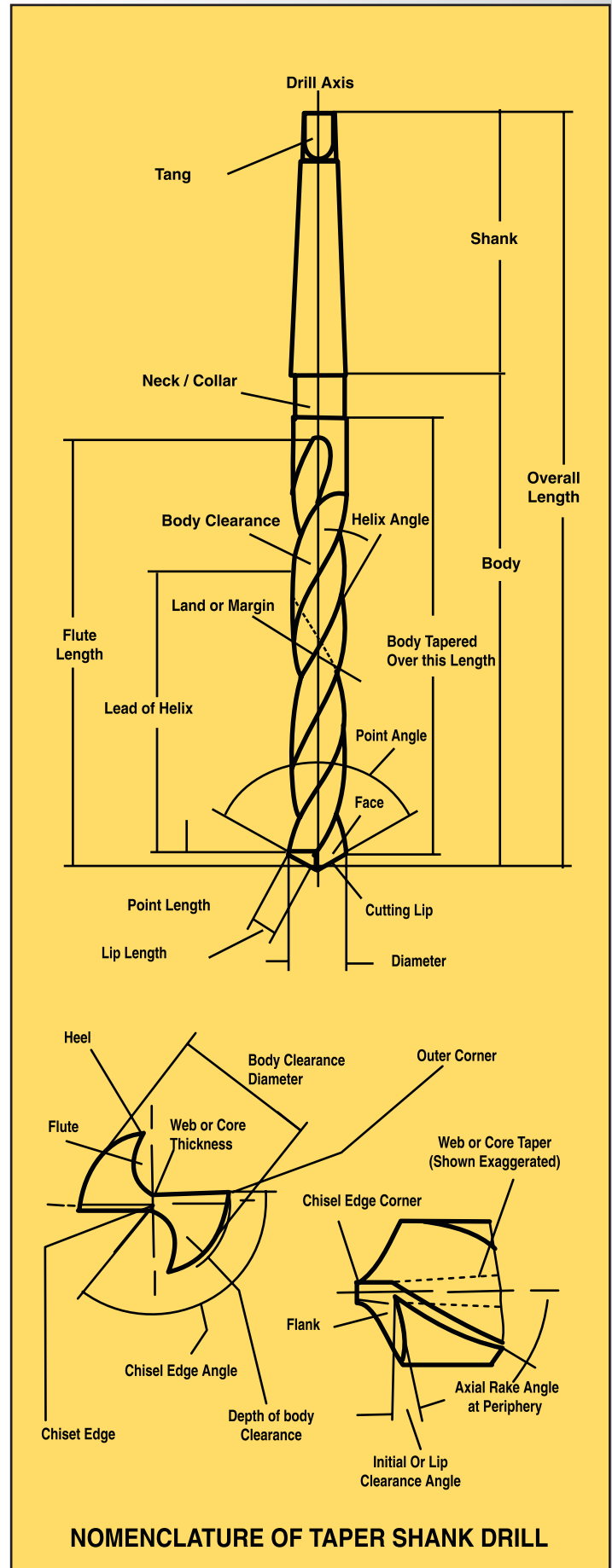
### THERMAL TREATMENTS :

**CRYOGENIC TEMPERING** : Subzero treatment of tools at very low temperatures (-190°C) using liquid nitrogen, enhances the properties in micro levels. This considerably improves the endurance and performance of tool

### CHOICE OF HSS GRADES:

- M2** - Molybdenum grade - Popular for all general purpose -%6W:5Mo:2V (6:5:2)
- M35** - 5% Cobalt Grade - For Tougher application & RED Hardness - % 6W : 5Mo : 2V : 5Co (6:5:2:5)
- M42** - 8% Cobalt Grade - Better than M35 -%2W:10Mo : 1V : 8Co (2:10:1:8)
- T42** - 10% Cobalt Grade - For Tool Bits -%10W : 4Mo : 3V : 10Co (10:4:3:10)

(\*Only popular grades addressed here)



**NOMENCLATURE OF TAPER SHANK DRILL**

**SOLID CARBIDE  
END MILLS & DRILLS**



## SOLID CARBIDE 4 FLUTE SQUARE ENDMILLS PRICE LIST

ITEM CODE BRIGHT	ITEM CODE TIALN	DIA	SH DIA	FL	OAL	LIST PRICE (RS.) BRIGHT	LIST PRICE (RS.) COATED
KCS03M3.00	KCS03M3.00TLC	3	3	12	38	1002	1147
KCS03M4.00	KCS03M4.00TLC	4	4	14	50	1361	1507
KCS03M5.00	KCS03M5.00TLC	5	5	16	50	1679	1851
KCS03M6.00	KCS03M6.00TLC	6	6	19	56	1814	1990
KCS03M8.00	KCS03M8.00TLC	8	8	20	63	2374	2603
KCS03M10.00	KCS03M10.00TLC	10	10	22	70	4088	4372
KCS03M12.00	KCS03M12.00TLC	12	12	25	75	5061	5400
KCS03M14.00	KCS03M14.00TLC	14	14	30	89	9136	9772
KCS03M16.00	KCS03M16.00TLC	16	16	32	89	10036	10671
KCS03M18.00	KCS03M18.00TLC	18	18	35	100	15299	16148
KCS03M20.00	KCS03M20.00TLC	20	20	38	100	18693	19543

## SOLID CARBIDE 4 FLUTE BALL NOSE ENDMILLS PRICE LIST

ITEM CODE BRIGHT	ITEM CODE TIALN	DIA	SH DIA	FL	OAL	LIST PRICE (RS.) BRIGHT	LIST PRICE (RS.) COATED
KCS05M3.00	KCS05M3.00TLC	3	3	12	38	1162	1307
KCS05M4.00	KCS05M4.00TLC	4	4	14	50	1421	1566
KCS05M5.00	KCS05M5.00TLC	5	5	16	50	1832	2003
KCS05M6.00	KCS05M6.00TLC	6	6	19	56	2112	2289
KCS05M8.00	KCS05M8.00TLC	8	8	20	63	2764	2993
KCS05M10.00	KCS05M10.00TLC	10	10	22	70	4725	5009
KCS05M12.00	KCS05M12.00TLC	12	12	25	75	5871	6210
KCS05M14.00	KCS05M14.00TLC	14	14	30	89	12443	13079
KCS05M16.00	KCS05M16.00TLC	16	16	32	89	15562	16198
KCS05M18.00	KCS05M18.00TLC	18	18	35	100	19519	20369
KCS05M20.00	KCS05M20.00TLC	20	20	38	100	24120	24970

## SOLID CARBIDE 2 FLUTE BALL NOSE ENDMILLS PRICE LIST

ITEM CODE BRIGHT	ITEM CODE TIALN	DIA	SH DIA	FL	OAL	LIST PRICE (RS.) BRIGHT	LIST PRICE (RS.) COATED
KCS04M3.00	KCS04M3.00TLC	3	3	12	38	1162	1307
KCS04M4.00	KCS04M4.00TLC	4	4	14	50	1421	1566
KCS04M5.00	KCS04M5.00TLC	5	5	16	50	1832	2003
KCS04M6.00	KCS04M6.00TLC	6	6	19	56	2112	2289
KCS04M8.00	KCS04M8.00TLC	8	8	20	63	2764	2993
KCS04M10.00	KCS04M10.00TLC	10	10	22	70	4725	5009
KCS04M12.00	KCS04M12.00TLC	12	12	25	75	5871	6210
KCS04M14.00	KCS04M14.00TLC	14	14	30	89	12443	13079
KCS04M16.00	KCS04M16.00TLC	16	16	32	89	15562	16198
KCS04M18.00	KCS04M18.00TLC	18	18	35	100	19519	20369
KCS04M20.00	KCS04M20.00TLC	20	20	38	100	24120	24970

**SOLID CARBIDE STANDARD  
4 FLUTE SQUARE ENDMILLS**

STD SERIES (3 ~ 20 MM)  
4 FLUTE SQUARE, HELIX: 30°  
COATING : Ti(A)LN & BRIGHT

ITEM CODE BRIGHT	ITEM CODE TIALN	DIA (H10)	SD (H6)	LOC	OAL	LIST PRICE (RS.) BRIGHT	LIST PRICE (RS.) COATED
KCS03M3.00063806	KCS03M3.00063806TLC	3	6	6	38	1482	1764
KCS03M4.00085006	KCS03M4.00085006TLC	4	6	8	50	1803	2084
KCS03M5.00115006	KCS03M5.00115006TLC	5	6	11	50	1823	2105
KCS03M6.00135006	KCS03M6.00135006TLC	6	6	13	50	1527	1809
KCS03M8.00135008	KCS03M8.00135008TLC	8	8	13	50	2223	2582
KCS03M10.00145010	KCS03M10.00145010TLC	10	10	14	50	3148	3620
KCS03M12.00166412	KCS03M12.00166412TLC	12	12	16	64	5080	5665
KCS03M16.00207616	KCS03M16.00207616TLC	16	16	20	75	10210	10936
KCS03M20.00257625	KCS03M20.00257625TLC	20	25	25	75	15608	17221

**SOLID CARBIDE 45 HRC  
LONG SERIES ENDMILLS**

SERIES (3 ~ 25 MM)  
4 FLUTE SQUARE  
COATING : Ti(A)LN & BRIGHT

ITEM CODE BRIGHT	ITEM CODE TIALN	DIA (H10)	SD (H6)	LOC	OAL	LIST PRICE (RS.) BRIGHT	LIST PRICE (RS.) COATED
KCS13M3.00257503	KCS13M3.00257503TLC	3	3	25	75	1188	1442
KCS13M4.00257504	KCS13M4.00257504TLC	4	4	25	75	1474	1728
KCS13M5.00257505	KCS13M5.00257505TLC	5	5	25	75	1841	2144
KCS13M6.00257506	KCS13M6.00257506TLC	6	6	25	75	2278	2580
KCS13M8.00257508	KCS13M8.00257508TLC	8	8	25	75	3238	3626
KCS13M10.003810010	KCS13M10.003810010TLC	10	10	38	100	6003	6728
KCS13M12.005010012	KCS13M12.005010012TLC	12	12	50	100	8547	9421
KCS13M14.007515014	KCS13M14.007515014TLC	14	14	75	150	14567	16019
KCS13M16.007515016	KCS13M16.007515016TLC	16	16	75	150	20335	21787
KCS13M18.007515018	KCS13M18.007515018TLC	18	18	75	150	25089	27027
KCS13M20.007515020	KCS13M20.007515020TLC	20	20	75	150	30693	32630
KCS13M25.007515025	KCS13M25.007515025TLC	25	25	75	150	46119	49254

**SOLID CARBIDE 3 FLUTE SQUARE WITH  
REINFORCED SHANK ENDMILLS**

SERIES (3 ~ 20 MM)  
3 FLUTE SQUARE  
COATING : Ti(A)LN & BRIGHT

ITEM CODE BRIGHT	ITEM CODE TIALN	DIA (H10)	SD (H6)	LOC	OAL	LIST PRICE (RS.) BRIGHT	LIST PRICE (RS.) COATED
KCS06M3.00085006	KCS06M3.00085006TLC	3	6	8	50	1812	2102
KCS06M4.00115006	KCS06M4.00115006TLC	4	6	11	50	1921	2211
KCS06M6.00135006	KCS06M6.00135006TLC	6	6	13	50	1534	1823
KCS06M8.00197008	KCS06M8.00197008TLC	8	8	19	70	3115	3502
KCS06M10.00227210	KCS06M10.00227210TLC	10	10	22	72	4492	4978
KCS06M12.00257512	KCS06M12.00257512TLC	12	12	25	75	6322	6907
KCS06M16.00329216	KCS06M16.00329216TLC	16	16	32	92	13401	14493
KCS06M20.003810020	KCS06M20.003810020TLC	20	20	38	100	20547	21999

**SOLID CARBIDE EXTRA  
LONG SERIES ENDMILLS**

SERIES (3 ~ 25 MM)  
4 FLUTE SQUARE  
COATING : Ti(A)LN & BRIGHT

ITEM CODE BRIGHT	ITEM CODE TIALN	DIA (H10)	SD (H6)	LOC	OAL	LIST PRICE (RS.) BRIGHT	LIST PRICE (RS.) COATED
KCS14M3.004010003	KCS14M3.004010003TLC	3	3	40	100	1642	2029
KCS14M4.004010004	KCS14M4.004010004TLC	4	4	40	100	2012	2400
KCS14M5.004010005	KCS14M5.004010005TLC	5	5	40	100	2408	2866
KCS14M6.004010006	KCS14M6.004010006TLC	6	6	40	100	2999	3457
KCS14M8.005010008	KCS14M8.005010008TLC	8	8	50	100	4498	5061
KCS14M8.007515008	KCS14M8.007515008TLC	8	8	75	150	6547	7293
KCS14M10.004010010	KCS14M10.004010010TLC	10	10	40	100	6061	6786
KCS14M10.007515010	KCS14M10.007515010TLC	10	10	75	150	9158	10412
KCS14M12.007515012	KCS14M12.007515012TLC	12	12	75	150	12574	13828

**HIGH HARDNESS SOLID CARBIDE ENDMILLS  
SHORT SERIES**

PRODUCT CODE	DIA (D)	SD (D1)	LOC (L1)	OAL (L)	CR	ND (D2)	NL (L2)	COATING	APPLICATION MATERIAL	LIST PRICE (RS.)
KCS18M3.00TSNP	3	6	5	55	0.5	2.8	10	TISINOS PRO	55 HRC	3906
KCS18M4.00TSNP	4	6	6	55	0.5	3.8	12	TISINOS PRO	55 HRC	3939
KCS18M6.00TSNP	6	6	8	55	0.5	5.8	16	TISINOS PRO	55 HRC	3918
KCS18M8.00TSNP	8	8	11	65	1	7.7	24	TISINOS PRO	55 HRC	6790
KCS18M10.00TSNP	10	10	13	75	1	9.7	30	TISINOS PRO	55 HRC	9432
KCS18M12.00TSNP	12	12	15	85	1	11.7	30	TISINOS PRO	55 HRC	16628
KCS18M16.00TSNP	16	16	21	90	1	15.6	40	TISINOS PRO	55 HRC	27059
KCS18M20.00TSNP	20	20	25	100	2	19.6	40	TISINOS PRO	55 HRC	41968

**LONG SERIES**

PRODUCT CODE	DIA (D)	SD (D1)	LOC (L1)	OAL (L)	CR	COATING	APPLICATION MATERIAL	LIST PRICE (RS.)
KCS19M6.00TSNP	6	6	13	57	0.5	TISINOS PRO	55 HRC	4015
KCS19M8.00TSNP	8	8	19	63	1	TISINOS PRO	55 HRC	6971
KCS19M10.00TSNP	10	10	22	72	1	TISINOS PRO	55 HRC	9616
KCS19M12.00TSNP	12	12	26	80	1	TISINOS PRO	55 HRC	16878
KCS19M14.00TSNP	14	14	26	83	1	TISINOS PRO	55 HRC	20881
KCS19M16.00TSNP	16	16	32	92	1	TISINOS PRO	55 HRC	27352
KCS19M18.00TSNP	18	18	32	92	1.2	TISINOS PRO	55 HRC	32952
KCS19M20.00TSNP	20	20	38	104	1.2	TISINOS PRO	55 HRC	43380

## SOLID CARBIDE GP L/D 8 JOBBER DRILLS

NOMINAL DIAMETER (H7)	SHANK DIAMETER (H6)	FLUTE LENGTH	OVERALL LENGTH	BRIGHT		Ti(A)LN	
				CODE	LIST PRICE (RS.)	CODE	LIST PRICE (RS.)
1	1	13	34	KDJ01M1.00	1424	KDJ01M1.00TLC	1595
1.1	1.1	15	36	KDJ01M1.10	1424	KDJ01M1.10TLC	1595
1.2	1.2	17	38	KDJ01M1.20	1424	KDJ01M1.20TLC	1595
1.3	1.3	17	38	KDJ01M1.30	1424	KDJ01M1.30TLC	1595
1.4	1.4	19	40	KDJ01M1.40	1424	KDJ01M1.40TLC	1595
1.5	1.5	19	40	KDJ01M1.50	1424	KDJ01M1.50TLC	1595
1.6	1.6	21	43	KDJ01M1.60	1424	KDJ01M1.60TLC	1595
1.7	1.7	21	43	KDJ01M1.70	1424	KDJ01M1.70TLC	1595
1.8	1.8	23	46	KDJ01M1.80	1424	KDJ01M1.80TLC	1595
1.9	1.9	23	46	KDJ01M1.90	1424	KDJ01M1.90TLC	1595
2	2	24	49	KDJ01M2.00	1424	KDJ01M2.00TLC	1595
2.1	2.1	24	49	KDJ01M2.10	1561	KDJ01M2.10TLC	1748
2.2	2.2	27	53	KDJ01M2.20	1561	KDJ01M2.20TLC	1748
2.3	2.3	27	53	KDJ01M2.30	1561	KDJ01M2.30TLC	1748
2.4	2.4	30	57	KDJ01M2.40	1561	KDJ01M2.40TLC	1748
2.5	2.5	30	57	KDJ01M2.50	1561	KDJ01M2.50TLC	1748
2.6	2.6	30	57	KDJ01M2.60	1697	KDJ01M2.60TLC	1901
2.7	2.7	33	61	KDJ01M2.70	1697	KDJ01M2.70TLC	1901
2.8	2.8	33	61	KDJ01M2.80	1697	KDJ01M2.80TLC	1901
2.9	2.9	33	61	KDJ01M2.90	1697	KDJ01M2.90TLC	1901
3	3	33	61	KDJ01M3.00	1697	KDJ01M3.00TLC	1901
3.1	3.1	36	65	KDJ01M3.10	1697	KDJ01M3.10TLC	1901
3.2	3.2	36	65	KDJ01M3.20	1846	KDJ01M3.20TLC	2067
3.3	3.3	36	65	KDJ01M3.30	1846	KDJ01M3.30TLC	2067
3.4	3.4	39	70	KDJ01M3.40	1846	KDJ01M3.40TLC	2067
3.5	3.5	39	70	KDJ01M3.50	1846	KDJ01M3.50TLC	2067
3.6	3.6	39	70	KDJ01M3.60	2245	KDJ01M3.60TLC	2515
3.7	3.7	39	70	KDJ01M3.70	2245	KDJ01M3.70TLC	2515
3.8	3.8	43	75	KDJ01M3.80	2245	KDJ01M3.80TLC	2515
3.9	3.9	43	75	KDJ01M3.90	2245	KDJ01M3.90TLC	2515
4	4	43	75	KDJ01M4.00	2245	KDJ01M4.00TLC	2515
4.1	4.1	43	75	KDJ01M4.10	2409	KDJ01M4.10TLC	2699
4.2	4.2	43	75	KDJ01M4.20	2409	KDJ01M4.20TLC	2699
4.3	4.3	47	80	KDJ01M4.30	2409	KDJ01M4.30TLC	2699
4.4	4.4	47	80	KDJ01M4.40	2409	KDJ01M4.40TLC	2699
4.5	4.5	47	80	KDJ01M4.50	2409	KDJ01M4.50TLC	2699
4.6	4.6	47	80	KDJ01M4.60	2738	KDJ01M4.60TLC	3067
4.7	4.7	47	80	KDJ01M4.70	2738	KDJ01M4.70TLC	3067
4.8	4.8	52	86	KDJ01M4.80	2738	KDJ01M4.80TLC	3067
4.9	4.9	52	86	KDJ01M4.90	2738	KDJ01M4.90TLC	3067
5	5	52	86	KDJ01M5.00	2738	KDJ01M5.00TLC	3067
5.1	5.1	52	86	KDJ01M5.10	2984	KDJ01M5.10TLC	3343
5.2	5.2	52	86	KDJ01M5.20	2984	KDJ01M5.20TLC	3343
5.3	5.3	52	86	KDJ01M5.30	2984	KDJ01M5.30TLC	3343

**SOLID CARBIDE GP L/D 8 JOBBER DRILLS**

NOMINAL DIAMETER (H7)	SHANK DIAMETER (H6)	FLUTE LENGTH	OVERALL LENGTH	BRIGHT		Ti(A)LN	
				CODE	LIST PRICE (RS.)	CODE	LIST PRICE (RS.)
5.4	5.4	57	93	KDJ01M5.40	2984	KDJ01M5.40TLC	3343
5.5	5.5	57	93	KDJ01M5.50	2984	KDJ01M5.50TLC	3343
5.6	5.6	57	93	KDJ01M5.60	3176	KDJ01M5.60TLC	3557
5.7	5.7	57	93	KDJ01M5.70	3176	KDJ01M5.70TLC	3557
5.8	5.8	57	93	KDJ01M5.80	3176	KDJ01M5.80TLC	3557
5.9	5.9	57	93	KDJ01M5.90	3176	KDJ01M5.90TLC	3557
6	6	57	93	KDJ01M6.00	3176	KDJ01M6.00TLC	3557
6.1	6.1	63	101	KDJ01M6.10	3807	KDJ01M6.10TLC	4263
6.2	6.2	63	101	KDJ01M6.20	3807	KDJ01M6.20TLC	4263
6.3	6.3	63	101	KDJ01M6.30	3807	KDJ01M6.30TLC	4263
6.4	6.4	63	101	KDJ01M6.40	3807	KDJ01M6.40TLC	4263
6.5	6.5	63	101	KDJ01M6.50	3807	KDJ01M6.50TLC	4263
6.6	6.6	63	101	KDJ01M6.60	4271	KDJ01M6.60TLC	4784
6.7	6.7	63	101	KDJ01M6.70	4271	KDJ01M6.70TLC	4784
6.8	6.8	69	109	KDJ01M6.80	4271	KDJ01M6.80TLC	4784
6.9	6.9	69	109	KDJ01M6.90	4271	KDJ01M6.90TLC	4784
7	7	69	109	KDJ01M7.00	4271	KDJ01M7.00TLC	4784
7.1	7.1	69	109	KDJ01M7.10	4655	KDJ01M7.10TLC	5213
7.2	7.2	69	109	KDJ01M7.20	4655	KDJ01M7.20TLC	5213
7.3	7.3	69	109	KDJ01M7.30	4655	KDJ01M7.30TLC	5213
7.4	7.4	69	109	KDJ01M7.40	4655	KDJ01M7.40TLC	5213
7.5	7.5	69	109	KDJ01M7.50	4655	KDJ01M7.50TLC	5213
7.6	7.6	75	117	KDJ01M7.60	5476	KDJ01M7.60TLC	6133
7.7	7.7	75	117	KDJ01M7.70	5476	KDJ01M7.70TLC	6133
7.8	7.8	75	117	KDJ01M7.80	5476	KDJ01M7.80TLC	6133
7.9	7.9	75	117	KDJ01M7.90	5476	KDJ01M7.90TLC	6133
8	8	75	117	KDJ01M8.00	5476	KDJ01M8.00TLC	6133
8.1	8.1	75	117	KDJ01M8.10	5756	KDJ01M8.10TLC	6446
8.2	8.2	75	117	KDJ01M8.20	5756	KDJ01M8.20TLC	6446
8.3	8.3	75	117	KDJ01M8.30	5756	KDJ01M8.30TLC	6446
8.4	8.4	75	117	KDJ01M8.40	5756	KDJ01M8.40TLC	6446
8.5	8.5	75	117	KDJ01M8.50	5756	KDJ01M8.50TLC	6446
8.6	8.6	81	125	KDJ01M8.60	6517	KDJ01M8.60TLC	7299
8.7	8.7	81	125	KDJ01M8.70	6517	KDJ01M8.70TLC	7299
8.8	8.8	81	125	KDJ01M8.80	6517	KDJ01M8.80TLC	7299
8.9	8.9	81	125	KDJ01M8.90	6517	KDJ01M8.90TLC	7299
9	9	81	125	KDJ01M9.00	6517	KDJ01M9.00TLC	7299
9.1	9.1	81	125	KDJ01M9.10	7447	KDJ01M9.10TLC	8341
9.2	9.2	81	125	KDJ01M9.20	7447	KDJ01M9.20TLC	8341
9.3	9.3	81	125	KDJ01M9.30	7447	KDJ01M9.30TLC	8341
9.4	9.4	81	125	KDJ01M9.40	7447	KDJ01M9.40TLC	8341
9.5	9.5	81	125	KDJ01M9.50	7447	KDJ01M9.50TLC	8341
9.6	9.6	87	133	KDJ01M9.60	8488	KDJ01M9.60TLC	9252
9.7	9.7	87	133	KDJ01M9.70	8488	KDJ01M9.70TLC	9252

**SOLID CARBIDE GP L/D 8 JOBBER DRILLS**

NOMINAL DIAMETER (H7)	SHANK DIAMETER (H6)	FLUTE LENGTH	OVERALL LENGTH	BRIGHT		Ti(A)LN	
				CODE	LIST PRICE (RS.)	CODE	LIST PRICE (RS.)
9.8	9.8	87	133	KDJ01M9.80	8488	KDJ01M9.80TLC	9252
9.9	9.9	87	133	KDJ01M9.90	8488	KDJ01M9.90TLC	9252
10	10	87	133	KDJ01M10.00	8488	KDJ01M10.00TLC	9252
10.1	10.1	87	133	KDJ01M10.10	8707	KDJ01M10.10TLC	9752
10.2	10.2	87	133	KDJ01M10.20	8707	KDJ01M10.20TLC	9752
10.3	10.3	87	133	KDJ01M10.30	9309	KDJ01M10.30TLC	10427
10.4	10.4	87	133	KDJ01M10.40	9309	KDJ01M10.40TLC	10427
10.5	10.5	87	133	KDJ01M10.50	9309	KDJ01M10.50TLC	10427
10.6	10.6	87	133	KDJ01M10.60	9566	KDJ01M10.60TLC	10795
10.7	10.7	94	142	KDJ01M10.70	9566	KDJ01M10.70TLC	10795
10.8	10.8	94	142	KDJ01M10.80	9566	KDJ01M10.80TLC	10795
10.9	10.9	94	142	KDJ01M10.90	9566	KDJ01M10.90TLC	10795
11	11	94	142	KDJ01M11.00	9566	KDJ01M11.00TLC	10795
11.1	11.1	94	142	KDJ01M11.10	10459	KDJ01M11.10TLC	11820
11.2	11.2	94	142	KDJ01M11.20	10459	KDJ01M11.20TLC	11820
11.3	11.3	94	142	KDJ01M11.30	10459	KDJ01M11.30TLC	11820
11.4	11.4	94	142	KDJ01M11.40	10459	KDJ01M11.40TLC	11820
11.5	11.5	94	142	KDJ01M11.50	10459	KDJ01M11.50TLC	11820
11.6	11.6	94	142	KDJ01M11.60	11555	KDJ01M11.60TLC	12941
11.7	11.7	94	142	KDJ01M11.70	11555	KDJ01M11.70TLC	12941
11.8	11.8	94	142	KDJ01M11.80	11555	KDJ01M11.80TLC	12941
11.9	11.9	101	151	KDJ01M11.90	11555	KDJ01M11.90TLC	12941
12	12	101	151	KDJ01M12.00	11555	KDJ01M12.00TLC	12941
12.1	12.1	101	151	KDJ01M12.10	16292	KDJ01M12.10TLC	18247
12.2	12.2	101	151	KDJ01M12.20	16292	KDJ01M12.20TLC	18247
12.3	12.3	101	151	KDJ01M12.30	16292	KDJ01M12.30TLC	18247
12.4	12.4	101	151	KDJ01M12.40	16292	KDJ01M12.40TLC	18247
12.5	12.5	101	151	KDJ01M12.50	16292	KDJ01M12.50TLC	18247
12.6	12.6	101	151	KDJ01M12.60	16292	KDJ01M12.60TLC	18247
12.7	12.7	101	151	KDJ01M12.70	16292	KDJ01M12.70TLC	18247
12.8	12.8	101	151	KDJ01M12.80	16292	KDJ01M12.80TLC	18247
12.9	12.9	101	151	KDJ01M12.90	16292	KDJ01M12.90TLC	18247
13	13	101	151	KDJ01M13.00	16292	KDJ01M13.00TLC	18247
13.1	13.1	101	151	KDJ01M13.10	16413	KDJ01M13.10TLC	18324
13.2	13.2	101	151	KDJ01M13.20	16419	KDJ01M13.20TLC	18324
13.3	13.3	108	160	KDJ01M13.30	20005	KDJ01M13.30TLC	21911
13.4	13.4	108	160	KDJ01M13.40	20005	KDJ01M13.40TLC	21911
13.5	13.5	108	160	KDJ01M13.50	20005	KDJ01M13.50TLC	21917
13.6	13.6	108	160	KDJ01M13.60	20010	KDJ01M13.60TLC	21917
13.7	13.7	108	160	KDJ01M13.70	20010	KDJ01M13.70TLC	21921
13.8	13.8	108	160	KDJ01M13.80	20016	KDJ01M13.80TLC	21921
13.9	13.9	108	160	KDJ01M13.90	20016	KDJ01M13.90TLC	21921
14	14	108	160	KDJ01M14.00	20444	KDJ01M14.00TLC	22349
14.5	14.5	114	169	KDJ01M14.50	25760	KDJ01M14.50TLC	27671

## SOLID CARBIDE GP L/D 8 JOBBER DRILLS

NOMINAL DIAMETER (H7)	SHANK DIAMETER (H6)	FLUTE LENGTH	OVERALL LENGTH	BRIGHT		Ti(A)LN	
				CODE	LIST PRICE (RS.)	CODE	LIST PRICE (RS.)
15	15	114	169	KDJ01M15.00	25777	KDJ01M15.00TLC	27683
15.5	15.5	120	178	KDJ01M15.50	31779	KDJ01M15.50TLC	33685
16	16	120	178	KDJ01M16.00	31789	KDJ01M16.00TLC	33701
16.5	16.5	125	184	KDJ01M16.50	36582	KDJ01M16.50TLC	39627
17	17	125	184	KDJ01M17.00	36598	KDJ01M17.00TLC	39643
17.5	17.5	130	191	KDJ01M17.50	38388	KDJ01M17.50TLC	41439
18	18	130	191	KDJ01M18.00	38405	KDJ01M18.00TLC	41449
18.5	18.5	135	198	KDJ01M18.50	43196	KDJ01M18.50TLC	46242
19	19	135	198	KDJ01M19.00	43208	KDJ01M19.00TLC	46253
20	20	140	205	KDJ01M20.00	45448	KDJ01M20.00TLC	50940

## SOLID CARBIDE GP L/D 5 STUB DRILLS

NOMINAL DIAMETER (H7)	SHANK DIAMETER (H6)	FLUTE LENGTH	OVERALL LENGTH	BRIGHT		Ti(A)LN	
				CODE	LIST PRICE (RS.)	CODE	LIST PRICE (RS.)
3.00	3	16	46	KDS01M3.00	926	KDS01M3.00TLC	1189
3.10	3.1	18	49	KDS01M3.10	1397	KDS01M3.10TLC	1659
3.20	3.2	18	49	KDS01M3.20	1408	KDS01M3.20TLC	1671
3.30	3.3	18	49	KDS01M3.30	1469	KDS01M3.30TLC	1731
3.40	3.4	20	52	KDS01M3.40	1469	KDS01M3.40TLC	1737
3.50	3.5	20	52	KDS01M3.50	1469	KDS01M3.50TLC	1737
3.60	3.6	20	52	KDS01M3.60	1469	KDS01M3.60TLC	1737
3.70	3.7	20	52	KDS01M3.70	1518	KDS01M3.70TLC	1792
3.80	3.8	22	55	KDS01M3.80	1518	KDS01M3.80TLC	1792
3.90	3.9	22	55	KDS01M3.90	1518	KDS01M3.90TLC	1792
4.00	4	22	55	KDS01M4.00	1528	KDS01M4.00TLC	1796
4.10	4.1	22	55	KDS01M4.10	1518	KDS01M4.10TLC	1840
4.20	4.2	22	55	KDS01M4.20	1955	KDS01M4.20TLC	2278
4.30	4.3	24	58	KDS01M4.30	1955	KDS01M4.30TLC	2278
4.40	4.4	24	58	KDS01M4.40	2065	KDS01M4.40TLC	2389
4.50	4.5	24	58	KDS01M4.50	2065	KDS01M4.50TLC	2389
4.60	4.6	24	58	KDS01M4.60	2065	KDS01M4.60TLC	2389
4.70	4.7	24	58	KDS01M4.70	2125	KDS01M4.70TLC	2448
4.80	4.8	26	62	KDS01M4.80	2125	KDS01M4.80TLC	2448
4.90	4.9	26	62	KDS01M4.90	2125	KDS01M4.90TLC	2448
5.00	5	26	62	KDS01M5.00	2125	KDS01M5.00TLC	2448
5.10	5.1	26	62	KDS01M5.10	2125	KDS01M5.10TLC	2448
5.20	5.2	26	62	KDS01M5.20	2125	KDS01M5.20TLC	2448
5.30	5.3	26	62	KDS01M5.30	3133	KDS01M5.30TLC	3456
5.40	5.4	28	66	KDS01M5.40	3133	KDS01M5.40TLC	3456
5.50	5.5	28	66	KDS01M5.50	3133	KDS01M5.50TLC	3456
5.60	5.6	28	66	KDS01M5.60	3133	KDS01M5.60TLC	3456
5.70	5.7	28	66	KDS01M5.70	3133	KDS01M5.70TLC	3456
5.80	5.8	28	66	KDS01M5.80	3117	KDS01M5.80TLC	3440
5.90	5.9	28	66	KDS01M5.90	3117	KDS01M5.90TLC	3440
6.00	6	28	66	KDS01M6.00	3117	KDS01M6.00TLC	3440
6.10	6.1	31	70	KDS01M6.10	3117	KDS01M6.10TLC	3527
6.20	6.2	31	70	KDS01M6.20	3117	KDS01M6.20TLC	3527
6.30	6.3	31	70	KDS01M6.30	3664	KDS01M6.30TLC	4074
6.40	6.4	31	70	KDS01M6.40	3664	KDS01M6.40TLC	4074
6.50	6.5	31	70	KDS01M6.50	3664	KDS01M6.50TLC	4074
6.60	6.6	31	70	KDS01M6.60	3664	KDS01M6.60TLC	4074
6.70	6.7	31	70	KDS01M6.70	3719	KDS01M6.70TLC	4130
6.80	6.8	34	74	KDS01M6.80	3719	KDS01M6.80TLC	4130
6.90	6.9	34	74	KDS01M6.90	3719	KDS01M6.90TLC	4130
7.00	7	34	74	KDS01M7.00	3719	KDS01M7.00TLC	4130
7.10	7.1	34	74	KDS01M7.10	3719	KDS01M7.10TLC	4130
7.20	7.2	34	74	KDS01M7.20	4370	KDS01M7.20TLC	4782
7.30	7.3	34	74	KDS01M7.30	4370	KDS01M7.30TLC	4782

**SOLID CARBIDE GP L/D 5 STUB DRILLS**

NOMINAL DIAMETER (H7)	SHANK DIAMETER (H6)	FLUTE LENGTH	OVERALL LENGTH	BRIGHT		Ti(A)LN	
				CODE	LIST PRICE (RS.)	CODE	LIST PRICE (RS.)
7.40	7.4	34	74	KDS01M7.40	4370	KDS01M7.40TLC	4782
7.50	7.5	34	74	KDS01M7.50	4370	KDS01M7.50TLC	4782
7.60	7.6	37	79	KDS01M7.60	4370	KDS01M7.60TLC	4968
7.70	7.7	37	79	KDS01M7.70	4431	KDS01M7.70TLC	5028
7.80	7.8	37	79	KDS01M7.80	4431	KDS01M7.80TLC	5028
7.90	7.9	37	79	KDS01M7.90	4431	KDS01M7.90TLC	5028
8.00	8	37	79	KDS01M8.00	4431	KDS01M8.00TLC	5028
8.10	8.1	37	79	KDS01M8.10	4431	KDS01M8.10TLC	5203
8.20	8.2	37	79	KDS01M8.20	5192	KDS01M8.20TLC	5970
8.30	8.3	37	79	KDS01M8.30	5192	KDS01M8.30TLC	5970
8.40	8.4	37	79	KDS01M8.40	5192	KDS01M8.40TLC	5970
8.50	8.5	37	79	KDS01M8.50	5192	KDS01M8.50TLC	5970
8.60	8.6	40	84	KDS01M8.60	5411	KDS01M8.60TLC	6184
8.70	8.7	40	84	KDS01M8.70	5411	KDS01M8.70TLC	6184
8.80	8.8	40	84	KDS01M8.80	5411	KDS01M8.80TLC	6184
8.90	8.9	40	84	KDS01M8.90	5411	KDS01M8.90TLC	6184
9.00	9	40	84	KDS01M9.00	5411	KDS01M9.00TLC	6184
9.10	9.1	40	84	KDS01M9.10	5411	KDS01M9.10TLC	6184
9.20	9.2	40	84	KDS01M9.20	6337	KDS01M9.20TLC	7108
9.30	9.3	40	84	KDS01M9.30	6337	KDS01M9.30TLC	7108
9.40	9.4	40	84	KDS01M9.40	6337	KDS01M9.40TLC	7108
9.50	9.5	40	84	KDS01M9.50	6342	KDS01M9.50TLC	7114
9.60	9.6	43	89	KDS01M9.60	6337	KDS01M9.60TLC	7108
9.70	9.7	43	89	KDS01M9.70	6545	KDS01M9.70TLC	7316
9.80	9.8	43	89	KDS01M9.80	6545	KDS01M9.80TLC	7316
9.90	9.9	43	89	KDS01M9.90	6545	KDS01M9.90TLC	7316
10.00	10	43	89	KDS01M10.00	6545	KDS01M10.00TLC	7316
10.10	10.1	43	89	KDS01M10.10	9485	KDS01M10.10TLC	10417
10.20	10.2	43	89	KDS01M10.20	9491	KDS01M10.20TLC	10421
10.30	10.3	43	89	KDS01M10.30	9491	KDS01M10.30TLC	10421
10.40	10.4	43	89	KDS01M10.40	9491	KDS01M10.40TLC	10421
10.50	10.5	43	89	KDS01M10.50	9501	KDS01M10.50TLC	10433
10.60	10.6	43	89	KDS01M10.60	9491	KDS01M10.60TLC	10421
10.70	10.7	47	95	KDS01M10.70	9612	KDS01M10.70TLC	10542
10.80	10.8	47	95	KDS01M10.80	9612	KDS01M10.80TLC	10542
10.90	10.9	47	95	KDS01M10.90	9612	KDS01M10.90TLC	10542
11.00	11	47	95	KDS01M11.00	9612	KDS01M11.00TLC	10542
11.10	11.1	47	95	KDS01M11.10	9612	KDS01M11.10TLC	10542
11.20	11.2	47	95	KDS01M11.20	9874	KDS01M11.20TLC	10805
11.30	11.3	47	95	KDS01M11.30	9874	KDS01M11.30TLC	10805
11.40	11.4	47	95	KDS01M11.40	9874	KDS01M11.40TLC	10805
11.50	11.5	47	95	KDS01M11.50	9874	KDS01M11.50TLC	10805
11.60	11.6	47	95	KDS01M11.60	9874	KDS01M11.60TLC	10805
11.70	11.7	47	95	KDS01M11.70	10094	KDS01M11.70TLC	11024


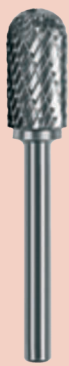
## SOLID CARBIDE GP L/D 5 STUB DRILLS

NOMINAL DIAMETER (H7)	SHANK DIAMETER (H6)	FLUTE LENGTH	OVERALL LENGTH	BRIGHT		Ti(A)LN	
				CODE	LIST PRICE (RS.)	CODE	LIST PRICE (RS.)
11.80	11.8	47	95	KDS01M11.80	10094	KDS01M11.80TLC	11024
11.90	11.9	51	102	KDS01M11.90	10094	KDS01M11.90TLC	11331
12.00	12	51	102	KDS01M12.00	10094	KDS01M12.00TLC	11331
12.10	12.1	51	102	KDS01M12.10	10094	KDS01M12.10TLC	11638
12.20	12.2	51	102	KDS01M12.20	11599	KDS01M12.20TLC	13143
12.30	12.3	51	102	KDS01M12.30	11599	KDS01M12.30TLC	13143
12.40	12.4	51	102	KDS01M12.40	11599	KDS01M12.40TLC	13143
12.50	12.5	51	102	KDS01M12.50	11599	KDS01M12.50TLC	13143
12.60	12.6	51	102	KDS01M12.60	11599	KDS01M12.60TLC	13143
12.70	12.7	51	102	KDS01M12.70	11599	KDS01M12.70TLC	13143
12.80	12.8	51	102	KDS01M12.80	11599	KDS01M12.80TLC	13143
12.90	12.9	51	102	KDS01M12.90	11599	KDS01M12.90TLC	13143
13.00	13	51	102	KDS01M13.00	11599	KDS01M13.00TLC	13143
13.10	13.1	51	102	KDS01M13.10	11599	KDS01M13.10TLC	13143
13.20	13.2	51	102	KDS01M13.20	12793	KDS01M13.20TLC	14337
13.30	13.3	54	107	KDS01M13.30	12793	KDS01M13.30TLC	14337
13.40	13.4	54	107	KDS01M13.40	12793	KDS01M13.40TLC	14337
13.50	13.5	54	107	KDS01M13.50	12798	KDS01M13.50TLC	14349
13.60	13.6	54	107	KDS01M13.60	12793	KDS01M13.60TLC	14337
13.70	13.7	54	107	KDS01M13.70	12793	KDS01M13.70TLC	14337
13.80	13.8	54	107	KDS01M13.80	12793	KDS01M13.80TLC	14337
13.90	13.9	54	107	KDS01M13.90	12793	KDS01M13.90TLC	14337
14.00	14	54	107	KDS01M14.00	12798	KDS01M14.00TLC	14349
14.50	14.5	56	111	KDS01M14.50	16052	KDS01M14.50TLC	17595
15.00	15	56	111	KDS01M15.00	16052	KDS01M15.00TLC	17595
15.50	15.5	58	115	KDS01M15.50	17738	KDS01M15.50TLC	19282
16.00	16	58	115	KDS01M16.00	17799	KDS01M16.00TLC	19343
16.50	16.5	60	119	KDS01M16.50	21396	KDS01M16.50TLC	23460
17.00	17	60	119	KDS01M17.00	21396	KDS01M17.00TLC	23460
17.50	17.5	62	123	KDS01M17.50	22710	KDS01M17.50TLC	24774
18.00	18	62	123	KDS01M18.00	22710	KDS01M18.00TLC	24774
18.50	18.5	64	127	KDS01M18.50	26335	KDS01M18.50TLC	28395
19.00	19	64	127	KDS01M19.00	26335	KDS01M19.00TLC	28395
20.00	20	66	131	KDS01M20.00	34210	KDS01M20.00TLC	36274


**TUNGSTEN CARBIDE  
ROTARY BURRS**






## TUNGSTEN CARBIDE ROTARY BURRS

SHAPE CODE	ITEM CODE (SINGLE)	ITEM CODE (SUPREME)	SIZE DESC	DESCRIPTION	SMART CODE	DIA	HEAD LENGTH	OAL	SH DIA	BPT LIST PRICE-STD CUT	BPT LIST PRICE-SUPREME CUT	
	CKS	KBJ00M38383	KBJ01M38383	3 D x 8 HL x 38 OAL x 3 SH D	TCRB - CONE SHAPE (WITH DOUBLE CUT)	ITMA1	3	8	38	3	450	494
		KBJ00M6.310.5383	KBJ01M6.310.5383	6.3 D x 10.5 HL x 38 OAL x 3 SH D	TCRB - CONE SHAPE (WITH DOUBLE CUT)	ITMA2	6.3	10.5	38	3	596	655
		KBJ00M311383	KBJ01M311383	3 D x 11 HL x 38 OAL x 3 SH D	TCRB - CONE SHAPE (WITH DOUBLE CUT)	ITMA5	3	11	38	3	459	500
		KBJ00M316383	KBJ01M316383	3 D x 16 HL x 38 OAL x 3 SH D	TCRB - CONE SHAPE (WITH DOUBLE CUT)	ITMA6	3	16	38	3	450	494
		KBJ00M619506	KBJ01M619506	6 D x 19 HL x 50 OAL x 6 SH D	TCRB - CONE SHAPE (WITH DOUBLE CUT)	ITA1*	6	19	50	6	1256	1302
		KBJ00M619706	KBJ00M619706	6 D x 19 HL x 70 OAL x 6 SH D	TCRB - CONE SHAPE	ITA1	6	19	70	6	706	-
		KBJ00M9.520706	KBJ01M9.520706	9.5 D x 20 HL x 70 OAL x 6 SH D	TCRB - CONE SHAPE (WITH DOUBLE CUT)	ITA2	9.5	20	70	6	706	773
		KBJ00M12.725756	KBJ01M12.725756	12.7 D x 25 HL x 75 OAL x 6 SH D	TCRB - CONE SHAPE (WITH DOUBLE CUT)	ITA3	12.7	25	75	6	967	1061
		KBJ00M9.59.5606	KBJ01M9.59.5606	9.5 D x 9.5 HL x 60 OAL x 6 SH D	TCRB - CONE SHAPE (WITH DOUBLE CUT)	ITA4	9.5	9.5	60	6	729	798
		KBJ00M1613636	KBJ01M1613636	16 D x 13 HL x 63 OAL x 6 SH D	TCRB - CONE SHAPE (WITH DOUBLE CUT)	ITA5	16	13	63	6	1007	1061
		KBJ00M1616666	KBJ01M1616666	16 D x 16 HL x 66 OAL x 6 SH D	TCRB - CONE SHAPE (WITH DOUBLE CUT)	ITA6	16	16	66	6	1283	1353
		KBJ00M1018686	KBJ01M1018686	10 D x 18 HL x 68 OAL x 6 SH D	TCRB - CONE SHAPE (WITH DOUBLE CUT)	ITA7	10	18	68	6	783	837
		KBJ00M818686	KBJ01M818686	8 D x 18 HL x 68 OAL x 6 SH D	TCRB - CONE SHAPE (WITH DOUBLE CUT)	ITA8	8	18	68	6	706	774
		KBJ00M1625756	KBJ01M1625756	16 D x 25 HL x 75 OAL x 6 SH D	TCRB - CONE SHAPE (WITH DOUBLE CUT)	ITA9	16	25	75	6	2069	2276
		KBJ00M6.225756	KBJ01M6.225756	6.2 D x 25 HL x 75 OAL x 6 SH D	TCRB - CONE SHAPE (WITH DOUBLE CUT)	ITA10	6.2	25	75	6	842	891
		KBJ00M9.515656	KBJ01M9.515656	9.5 D x 15 HL x 65 OAL x 6 SH D	TCRB - CONE SHAPE (WITH DOUBLE CUT)	ITA11	9.5	15	65	6	815	864
		KBJ00M12.722726	KBJ01M12.722726	12.7 D x 22 HL x 72 OAL x 6 SH D	TCRB - CONE SHAPE (WITH DOUBLE CUT)	ITA12	12.7	22	72	6	967	1061
		KBJ00M6.312.7626	KBJ01M6.312.7626	6.3 D x 12.7 HL x 62 OAL x 6 SH D	TCRB - CONE SHAPE (WITH DOUBLE CUT)	ITA13	6.3	12.7	62	6	711	816
	CCR	KBC00M2.511383	KBC01M2.511383	2.5 D x 11 HL x 38 OAL x 3 SH D	CYLINDRICAL WITH RADIUS	ITMB0	2.5	11	38	3	459	500
		KBC00M316383	KBC01M316383	3 D x 16 HL x 38 OAL x 3 SH D	CYLINDRICAL WITH RADIUS	ITMB1	3	16	38	3	518	567
		KBC00M316503	KBC01M316503	3 D x 16 HL x 50 OAL x 3 SH D	CYLINDRICAL WITH RADIUS	ITMB1L	3	16	50	3	541	596
		KBC00M316753	KBC01M316753	3 D x 16 HL x 75 OAL x 3 SH D	CYLINDRICAL WITH RADIUS	ITMB1L1	3	16	75	3	678	744
		KBC00M6.312.7383	KBC01M6.312.7383	6.3 D x 12.7 HL x 38 OAL x 3 SH D	CYLINDRICAL WITH RADIUS	ITMB2	6.3	12.7	38	3	596	655
		KBC00M6.312.7503	KBC01M6.312.7503	6.3 D x 12.7 HL x 50 OAL x 3 SH D	CYLINDRICAL WITH RADIUS	ITMB2L	6.3	12.7	50	3	656	720
		KBC00M316606	KBC01M316606	3 D x 16 HL x 60 OAL x 6 SH D	CYLINDRICAL WITH RADIUS	ITB0	3	16	60	6	698	768
		KBC00M620506	KBC01M620506	6 D x 20 HL x 50 OAL x 6 SH D	CYLINDRICAL WITH RADIUS	ITB1*	6	20	50	6	1327	1373
		KBC00M620706	KBC01M620706	6 D x 20 HL x 70 OAL x 6 SH D	CYLINDRICAL WITH RADIUS	ITB1	6	20	70	6	714	782
		KBC00M819696	KBC01M819696	8 D x 19 HL x 69 OAL x 6 SH D	CYLINDRICAL WITH RADIUS	ITB2	8	19	69	6	689	756
		KBC00M9.519696	KBC01M9.519696	9.5 D x 19 HL x 69 OAL x 6 SH D	CYLINDRICAL WITH RADIUS	ITB3	9.5	19	69	6	857	943
		KBC00M12.719696	KBC01M12.719696	12.7 D x 19 HL x 69 OAL x 6 SH D	CYLINDRICAL WITH RADIUS	ITB4	12.7	19	69	6	1105	1196
		KBC00M1625756	KBC01M1625756	16 D x 25 HL x 75 OAL x 6 SH D	CYLINDRICAL WITH RADIUS	ITB5	16	25	75	6	1680	1851
		KBC00M12.725756	KBC01M12.725756	12.7 D x 25 HL x 75 OAL x 6 SH D	CYLINDRICAL WITH RADIUS	ITB6	12.7	25	75	6	1528	1680
		KBC00M419556	KBC01M419556	4 D x 19 HL x 55 OAL x 6 SH D	CYLINDRICAL WITH RADIUS	ITB7	4	19	55	6	701	770
		KBC00M519706	KBC01M519706	5 D x 19 HL x 70 OAL x 6 SH D	CYLINDRICAL WITH RADIUS	ITB8	5	19	70	6	701	770
		KBC00M1925756	KBC01M1925756	19 D x 25 HL x 75 OAL x 6 SH D	CYLINDRICAL WITH RADIUS	ITB9	19	25	75	6	2859	3150
		KBC00M6.316666	KBC01M6.316666	6.3 D x 16 HL x 66 OAL x 6 SH D	CYLINDRICAL WITH RADIUS	ITB11	6.3	16	66	6	715	786
	KBC00M1025756	KBC01M1025756	10 D x 25 HL x 75 OAL x 6 SH D	CYLINDRICAL WITH RADIUS	ITB12	10	25	75	6	1232	1355	
	KBC00M1125756	KBC01M1125756	11 D x 25 HL x 75 OAL x 6 SH D	CYLINDRICAL WITH RADIUS	ITB13	11	25	75	6	1367	1502	

## TUNGSTEN CARBIDE ROTARY BURRS

SHAPE CODE	ITEM CODE (SINGLE)	ITEM CODE (SUPREME)	SIZE DESC	DESCRIPTION	SMART CODE	DIA	HEAD LENGTH	OAL	SH DIA	BPT LIST PRICE-STD CUT	BPT LIST PRICE-SUPREME CUT
	KBA00M316383	KBA01M316383	3 D x 16 HL x 38 OAL x 3 SH D	CYLINDRICAL WITHOUT ENDCUT	ITMC1	3	16	38	3	567	621
	KBA00M316603	KBA01M316603	3 D x 16 HL x 60 OAL x 3 SH D	CYLINDRICAL WITHOUT ENDCUT	ITMC1L	3	16	60	3	567	621
	KBA00M316753	KBA01M316753	3 D x 16 HL x 75 OAL x 3 SH D	CYLINDRICAL WITHOUT ENDCUT	ITMC1L1	3	16	75	3	678	621
	KBA00M6.36.3383	KBA01M6.36.3383	6.3 D x 6.3 HL x 38 OAL x 3 SH D	CYLINDRICAL WITHOUT ENDCUT	ITMC2	6.3	6.3	38	3	548	594
	KBA00M6.36.3503	KBA01M6.36.3503	6.3 D x 6.3 HL x 50 OAL x 3 SH D	CYLINDRICAL WITHOUT ENDCUT	ITMC2L	6.3	6.3	50	3	562	619
	KBA00M6.36.3753	KBA01M6.36.3753	6.3 D x 6.3 HL x 75 OAL x 3 SH D	CYLINDRICAL WITHOUT ENDCUT	ITMC2L1	6.3	6.3	75	3	612	673
	KBA00M6.312.7383	KBA01M6.312.7383	6.3 D x 12.7 HL x 38 OAL x 3 SH D	CYLINDRICAL WITHOUT ENDCUT	ITMC3	6.3	12.7	38	3	596	655
	KBA00M1.56383	KBA01M1.56383	1.5 D x 6 HL x 38 OAL x 3 SH D	CYLINDRICAL WITHOUT ENDCUT	ITMC4	1.5	6	38	3	470	508
	KBA00M1.56503	KBA01M1.56503	1.5 D x 6 HL x 50 OAL x 3 SH D	CYLINDRICAL WITHOUT ENDCUT	ITMC4L	1.5	6	50	3	541	596
	KBA00M1.56753	KBA01M1.56753	1.5 D x 6 HL x 75 OAL x 3 SH D	CYLINDRICAL WITHOUT ENDCUT	ITMC4L1	1.5	6	75	3	678	744
	KBA00M2.511383	KBA01M2.511383	2.5 D x 11 HL x 38 OAL x 3 SH D	CYLINDRICAL WITHOUT ENDCUT	ITMC5	2.5	11	38	3	497	535
	KBA00M2.511503	KBA01M2.511503	2.5 D x 11 HL x 50 OAL x 3 SH D	CYLINDRICAL WITHOUT ENDCUT	ITMC5L	2.5	11	50	3	541	596
	KBA00M2.511753	KBA01M2.511753	2.5 D x 11 HL x 75 OAL x 3 SH D	CYLINDRICAL WITHOUT ENDCUT	ITMC5L1	2.5	11	75	3	678	744
	KBA00M312.7506	KBA01M312.7506	3 D x 12.7 HL x 50 OAL x 6 SH D	CYLINDRICAL WITHOUT ENDCUT	ITC0	3	12.7	50	6	682	747
	KBA00M3.814506	KBA01M3.814506	3.8 D x 14 HL x 50 OAL x 6 SH D	CYLINDRICAL WITHOUT ENDCUT	ITC1	3.8	14	50	6	596	655
	KBA00M620506	KBA01M620506	6 D x 20 HL x 50 OAL x 6 SH D	CYLINDRICAL WITHOUT ENDCUT	ITC2*	6	20	50	6	1264	1301
	KBA00M620706	KBA01M620706	6 D x 20 HL x 70 OAL x 6 SH D	CYLINDRICAL WITHOUT ENDCUT	ITC2	6	20	70	6	691	747
	KBA00M819696	KBA01M819696	8 D x 19 HL x 69 OAL x 6 SH D	CYLINDRICAL WITHOUT ENDCUT	ITC3	8	19	69	6	774	849
	KBA00M9.519696	KBA01M9.519696	9.5 D x 19 HL x 69 OAL x 6 SH D	CYLINDRICAL WITHOUT ENDCUT	ITC4	9.5	19	69	6	849	936
	KBA00M12.719696	KBA01M12.719696	12.7 D x 19 HL x 69 OAL x 6 SH D	CYLINDRICAL WITHOUT ENDCUT	ITC5	12.7	19	69	6	1069	1169
	KBA00M1625756	KBA01M1625756	16 D x 25 HL x 75 OAL x 6 SH D	CYLINDRICAL WITHOUT ENDCUT	ITC6	16	25	75	6	1706	1875
	KBA00M12.714646	KBA01M12.714646	12.7 D x 14 HL x 64 OAL x 6 SH D	CYLINDRICAL WITHOUT ENDCUT	ITC7	12.7	14	64	6	1046	1145
	KBA00M12.725756	KBA01M12.725756	12.7 D x 25 HL x 75 OAL x 6 SH D	CYLINDRICAL WITHOUT ENDCUT	ITC8	12.7	25	75	6	1680	1847
	KBA00M1925706	KBA01M1925706	19 D x 25 HL x 70 OAL x 6 SH D	CYLINDRICAL WITHOUT ENDCUT	ITC9	19	25	70	6	2643	2904
	KBA00M516506	KBA01M516506	5 D x 16 HL x 50 OAL x 6 SH D	CYLINDRICAL WITHOUT ENDCUT	ITC11	5	16	50	6	618	670
	KBA00M6.316666	KBA01M6.316666	6.3 D x 16 HL x 66 OAL x 6 SH D	CYLINDRICAL WITHOUT ENDCUT	ITC12	6.3	16	66	6	682	747
KBA00M1025756	KBA01M1025756	10 D x 25 HL x 75 OAL x 6 SH D	CYLINDRICAL WITHOUT ENDCUT	ITC13	10	25	75	6	1215	1339	
KBA00M1125756	KBA01M1125756	11 D x 25 HL x 75 OAL x 6 SH D	CYLINDRICAL WITHOUT ENDCUT	ITC14	11	25	75	6	1352	1489	





## TUNGSTEN CARBIDE ROTARY BURRS

SHAPE CODE	ITEM CODE (SINGLE)	ITEM CODE (SUPREME)	SIZE DESC	DESCRIPTION	SMART CODE	DIA	HEAD LENGTH	OAL	SH DIA	BPT LIST PRICE-STD CUT	BPT LIST PRICE-SUPREME CUT
	KBB00M316383	KBB01M316383	3 D x 16 HL x 38 OAL x 3 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITMCE1	3	16	38	3	567	618
	KBB00M316503	KBB01M316503	3 D x 16 HL x 50 OAL x 3 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITMCE1L	3	16	50	3	567	626
	KBB00M316753	KBB01M316753	3 D x 16 HL x 75 OAL x 3 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITMCE1L1	3	16	75	3	711	782
	KBB00M6.36.3383	KBB01M6.36.3383	6.3 D x 6.3 HL x 38 OAL x 3 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITMCE2	6.3	6.3	38	3	548	594
	KBB00M6.36.3503	KBB01M6.36.3503	6.3 D x 6.3 HL x 50 OAL x 3 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITMCE2L	6.3	6.3	50	3	591	648
	KBB00M6.36.3753	KBB01M6.36.3753	6.3 D x 6.3 HL x 75 OAL x 3 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITMCE2L1	6.3	6.3	75	3	645	706
	KBB00M6.312.7383	KBB01M6.312.7383	6.3 D x 12.7 HL x 38 OAL x 3 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITMCE3	6.3	12.7	38	3	628	689
	KBB00M2.511383	KBB01M2.511383	2.5 D x 11 HL x 38 OAL x 3 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITMCE5	2.5	11	38	3	474	522
	KBB00M2.511503	KBB01M2.511503	2.5 D x 11 HL x 50 OAL x 3 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITMCE5L	2.5	11	50	3	567	628
	KBB00M2.511753	KBB01M2.511753	2.5 D x 11 HL x 75 OAL x 3 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITMCE5L1	2.5	11	75	3	711	782
	KBB00M312.7506	KBB01M312.7506	3 D x 12.7 HL x 50 OAL x 6 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITCE0	3	12.7	50	6	716	787
	KBB00M3.816506	KBB01M3.816506	3.8 D x 16 HL x 50 OAL x 6 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITCE1	3.8	16	50	6	628	689
	KBB00M5.820506	KBB01M5.820506	5.8 D x 20 HL x 50 OAL x 6 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITCE2*	5.8	20	50	6	1264	1301
	KBB00M5.820706	KBB00M5.820706	5.8 D x 20 HL x 70 OAL x 6 SH D	CYLINDRICAL WITH END CUT	ITCE2	5.8	20	70	6	716	0
	KBB00M819696	KBB01M819696	8 D x 19 HL x 69 OAL x 6 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITCE3	8	19	69	6	812	891
	KBB00M9.519696	KBB01M9.519696	9.5 D x 19 HL x 69 OAL x 6 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITCE4	9.5	19	69	6	891	981
	KBB00M12.719696	KBB01M12.719696	12.7 D x 19 HL x 69 OAL x 6 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITCE5	12.7	19	69	6	1123	1230
	KBB00M1625756	KBB01M1625756	16 D x 25 HL x 75 OAL x 6 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITCE6	16	25	75	6	1790	1970
	KBB00M12.714646	KBB01M12.714646	12.7 D x 14 HL x 64 OAL x 6 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITCE7	12.7	14	64	6	1098	1204
	KBB00M12.725756	KBB01M12.725756	12.7 D x 25 HL x 75 OAL x 6 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITCE8	12.7	25	75	6	1763	1941
KBB00M1925756	KBB01M1925756	19 D x 25 HL x 75 OAL x 6 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITCE9	19	25	75	6	2776	3051	
KBB00M516506	KBB01M516506	5 D x 16 HL x 50 OAL x 6 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITCE11	5	16	50	6	630	693	
KBB00M6.316666	KBB01M6.316666	6.3 D x 16 HL x 66 OAL x 6 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITCE12	6.3	16	66	6	716	787	
KBB00M1025756	KBB01M1025756	10 D x 25 HL x 75 OAL x 6 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITCE13	10	25	75	6	1277	1406	
KBB00M1125756	KBB01M1125756	11 D x 25 HL x 75 OAL x 6 SH D	CYLINDRICAL WITH END CUT (WITH DOUBLE CUT)	ITCE14	11	25	75	6	1420	1563	
	KBH00M36.3383	KBH01M36.3383	3 D x 6.3 HL x 38 OAL x 3 SH D	TCRB - FLAME SHAPE (WITH DOUBLE CUT)	ITMF1	3	6.3	38	3	510	554
	KBH00M36.3503	KBH01M36.3503	3 D x 6.3 HL x 50 OAL x 3 SH D	TCRB - FLAME SHAPE (WITH DOUBLE CUT)	ITMF1L	3	6.3	50	3	541	596
	KBH00M6.316506	KBH01M6.316506	6.3 D x 16 HL x 50 OAL x 6 SH D	TCRB - FLAME SHAPE (WITH DOUBLE CUT)	ITF1	6.3	16	44	3	789	0
	KBH00M6.316506	KBH00M6.316506	6.3 D x 16 HL x 50 OAL x 6 SH D	TCRB - FLAME SHAPE	ITF1	6.3	16	50	6	860	945
	KBH00M819696	KBH01M819696	8 D x 19 HL x 69 OAL x 6 SH D	TCRB - FLAME SHAPE (WITH DOUBLE CUT)	ITF2	8	19	69	6	971	1067
	KBH00M9.525756	KBH01M9.525756	9.5 D x 25 HL x 75 OAL x 6 SH D	TCRB - FLAME SHAPE (WITH DOUBLE CUT)	ITF3	9.5	25	75	6	1089	1196
	KBH00M12.732826	KBH01M12.732826	12.7 D x 32 HL x 82 OAL x 6 SH D	TCRB - FLAME SHAPE (WITH DOUBLE CUT)	ITF4	12.7	32	82	6	1593	1652
	KBH00M1634846	KBH01M1634846	16 D x 34 HL x 84 OAL x 6 SH D	TCRB - FLAME SHAPE (WITH DOUBLE CUT)	ITF5	16	34	84	6	2859	3146
	KBH00M1941916	KBH01M1941916	19 D x 41 HL x 91 OAL x 6 SH D	TCRB - FLAME SHAPE (WITH DOUBLE CUT)	ITF6	19	41	91	6	3937	4328
	KBI00M38383	KBI01M38383	3 D x 8 HL x 38 OAL x 3 SH D	CONE WITH REDIUS END (WITH DOUBLE CUT)	ITMK1	3	8	38	3	450	494
	KBI00M38503	KBI01M38503	3 D x 8 HL x 50 OAL x 3 SH D	CONE WITH REDIUS END (WITH DOUBLE CUT)	ITMK1L	3	8	50	3	450	494
	KBI00M6.312.7383	KBI01M6.312.7383	6.3 D x 12.7 HL x 38 OAL x 3 SH D	CONE WITH REDIUS END (WITH DOUBLE CUT)	ITMK2	6.3	12.7	38	3	596	655
	KBI00M312.7383	KBI01M312.7383	3 D x 12.7 HL x 38 OAL x 3 SH D	CONE WITH REDIUS END (WITH DOUBLE CUT)	ITMK3	3	12.7	38	3	470	508
	KBI00M312.7503	KBI01M312.7503	3 D x 12.7 HL x 50 OAL x 3 SH D	CONE WITH REDIUS END (WITH DOUBLE CUT)	ITMK3L	3	12.7	50	3	541	596
	KBI00M312.7753	KBI01M312.7753	3 D x 12.7 HL x 75 OAL x 3 SH D	CONE WITH REDIUS END (WITH DOUBLE CUT)	ITMK3L1	3	12.7	75	3	678	744
	KBI00M6.316506	KBI01M6.316506	6.3 D x 16 HL x 50 OAL x 6 SH D	CONE WITH REDIUS END (WITH DOUBLE CUT)	ITK0	6.3	16	50	6	648	715
	KBI00M9.519696	KBI01M9.519696	9.5 D x 19 HL x 69 OAL x 6 SH D	CONE WITH REDIUS END (WITH DOUBLE CUT)	ITK1	9.5	19	69	6	756	805

## TUNGSTEN CARBIDE ROTARY BURRS

SHAPE CODE	ITEM CODE (SINGLE)	ITEM CODE (SUPREME)	SIZE DESC	DESCRIPTION	SMART CODE	DIA	HEAD LENGTH	OAL	SH DIA	BPT LIST PRICE-STD CUT	BPT LIST PRICE-SUPREME CUT
	KBIO0M12.719696	KBIO1M12.719696	12.7 D x 19 HL x 69 OAL x 6 SH D	CONE WITH REDIUS END (WITH DOUBLE CUT)	ITK2	12.7	19	69	6	1105	1215
	KBIO0M1633836	KBIO1M1633836	16 D x 33 HL x 83 OAL x 6 SH D	CONE WITH REDIUS END (WITH DOUBLE CUT)	ITK3	16	33	83	6	1812	1882
	KBIO0M12.530856	KBIO1M12.530856	12.5 D x 30 HL x 85 OAL x 6 SH D	CONE WITH REDIUS END (WITH DOUBLE CUT)	ITK4	12.5	30	85	6	1674	1750
	KBIO0M1940906	KBIO1M1940906	19 D x 40 HL x 90 OAL x 6 SH D	CONE WITH REDIUS END (WITH DOUBLE CUT)	ITK5	19	40	90	6	3900	4289
	KBIO0M9.526766	KBIO1M9.526766	9.5 D x 26 HL x 76 OAL x 6 SH D	CONE WITH REDIUS END (WITH DOUBLE CUT)	ITK6	9.5	26	76	6	980	1074
	KBIO0M12.728786	KBIO1M12.728786	12.7 D x 28 HL x 78 OAL x 6 SH D	CONE WITH REDIUS END (WITH DOUBLE CUT)	ITK7	12.7	28	78	6	1504	1655
	KBIO0M1633836	KBIO1M1633836	16 D x 33 HL x 83 OAL x 6 SH D	CONE WITH REDIUS END (WITH DOUBLE CUT)	ITK3	16	33	83	6	2087	2294
	KBIO0M410606	KBIO0M410606	4 D x 10 HL x 60 OAL x 6 SH D	TCRB - CONE WITH REDIUS END	ITGD1	4	10	60	6	668	0
	KBIO0M38.5686	KBIO0M38.5686	3 D x 8.5 HL x 68 OAL x 6 SH D	TCRB - CONE WITH REDIUS END	ITGD2	3	8.5	68	6	746	0
	KBIO0M313586	KBIO0M313586	3 D x 13 HL x 58 OAL x 6 SH D	TCRB - CONE WITH REDIUS END	ITGD3	3	13	58	6	746	0
	KBIO0M3.819696	KBIO0M3.819696	3.8 D x 19 HL x 69 OAL x 6 SH D	TCRB - CONE WITH REDIUS END	ITGD4	3.8	19	69	6	1019	0
	KBD00M32.5383	KBD01M32.5383	3 D x 2.5 HL x 38 OAL x 3 SH D	BALL	ITMS0	3	2.5	38	3	450	495
	KBD00M32.5503	KBD01M32.5503	3 D x 2.5 HL x 50 OAL x 3 SH D	BALL	ITMSOL	3	2.5	50	3	541	596
	KBD00M32.5753	KBD01M32.5753	3 D x 2.5 HL x 75 OAL x 3 SH D	BALL	ITMSOL1	3	2.5	75	3	678	744
	KBD00M43.4383	KBD01M43.4383	4 D x 3.4 HL x 38 OAL x 3 SH D	BALL	ITMS1	4	3.4	38	3	528	581
	KBD00M2.52.3383	KBD01M2.52.3383	2.5 D x 2.3 HL x 38 OAL x 3 SH D	BALL	ITMS2	2.5	2.3	38	3	450	495
	KBD00M33753	KBD01M33753	3 D x 3 HL x 75 OAL x 3 SH D	BALL	ITMS3	3	3	75	3	700	773
	KBD00M6.36.3506	KBD01M6.36.3506	6.3 D x 6.3 HL x 50 OAL x 6 SH D	BALL	ITS1*	6.3	6.3	50	6	1209	1270
	KBD00M6.36.3606	KBD01M6.36.3606	6.3 D x 6.3 HL x 60 OAL x 6 SH D	BALL	ITS1	6.3	6.3	60	6	655	720
	KBD00M86.4506	KBD01M86.4506	8 D x 6.4 HL x 50 OAL x 6 SH D	BALL	ITS2*	8	6.4	50	6	1209	1270
	KBD00M86.4606	KBD01M86.4606	8 D x 6.4 HL x 60 OAL x 6 SH D	BALL	ITS2	8	6.4	60	6	690	756
	KBD00M9.58586	KBD01M9.58586	9.5 D x 8 HL x 58 OAL x 6 SH D	BALL	ITS3	9.5	8	58	6	690	756
	KBD00M12.711626	KBD01M12.711626	12.7 D x 11 HL x 62 OAL x 6 SH D	BALL	ITS4	12.7	11	62	6	834	849
	KBD00M1614656	KBD01M1614656	16 D x 14 HL x 65 OAL x 6 SH D	BALL	ITS5	16	14	65	6	1080	1188
	KBD00M1916666	KBD01M1916666	19 D x 16 HL x 66 OAL x 6 SH D	BALL	ITS6	19	16	66	6	2110	2322
	KBD00M119.5606	KBD01M119.5606	11 D x 9.5 HL x 60 OAL x 6 SH D	BALL	ITS9	11	9.5	60	6	981	1079
	KBG00M316383	KBG01M316383	3 D x 16 HL x 38 OAL x 3 SH D	TREE SHAPE WITH POINT END (DOUBLE CUT)	ITMT1	3	16	38	3	618	672
	KBG00M316383	KBG01M316383	3 D x 16 HL x 38 OAL x 3 SH D	TREE SHAPE WITH POINT END (DOUBLE CUT)	ITMT1	3	16	38	3	618	672
	KBG00M6.310383	KBG01M6.310383	6.3 D x 10 HL x 38 OAL x 3 SH D	TREE SHAPE WITH POINT END (DOUBLE CUT)	ITMT3	6.3	10	38	3	596	655
	KBG00M312.7383	KBG01M312.7383	3 D x 12.7 HL x 38 OAL x 3 SH D	TREE SHAPE WITH POINT END (DOUBLE CUT)	ITMT4	3	12.7	38	3	543	591
	KBG00M36383	KBG01M36383	3 D x 6 HL x 38 OAL x 3 SH D	TREE SHAPE WITH POINT END (DOUBLE CUT)	ITMT5	3	6	38	3	459	500
	KBG00M619506	KBG01M619506	6 D x 19 HL x 50 OAL x 6 SH D	TREE SHAPE WITH POINT END (DOUBLE CUT)	ITT1*	6	19	50	6	1124	1175
	KBG00M619706	KBG00M619706	6 D x 19 HL x 70 OAL x 6 SH D	TREE SHAPE WITH POINT END	ITT1	6	19	70	6	737	0
	KBG00M9.519696	KBG01M9.519696	9.5 D x 19 HL x 69 OAL x 6 SH D	TREE SHAPE WITH POINT END (DOUBLE CUT)	ITT2	9.5	19	69	6	859	944
	KBG00M12.725756	KBG01M12.725756	12.7 D x 25 HL x 75 OAL x 6 SH D	TREE SHAPE WITH POINT END (DOUBLE CUT)	ITT3	12.7	25	75	6	1050	1112
	KBG00M1632826	KBG01M1632826	16 D x 32 HL x 82 OAL x 6 SH D	TREE SHAPE WITH POINT END (DOUBLE CUT)	ITT4	16	32	82	6	1769	1831
	KBG00M819696	KBG01M819696	8 D x 19 HL x 69 OAL x 6 SH D	TREE SHAPE WITH POINT END (DOUBLE CUT)	ITT5	8	19	69	6	849	936
	KBG00M1625756	KBG01M1625756	16 D x 25 HL x 75 OAL x 6 SH D	TREE SHAPE WITH POINT END (DOUBLE CUT)	ITT6	16	25	75	6	1490	1641
	KBG00M6.316666	KBG01M6.316666	6.3 D x 16 HL x 66 OAL x 6 SH D	TREE SHAPE WITH POINT END (DOUBLE CUT)	ITT7	6.3	16	66	6	767	837
	KBG00M1925756	KBG01M1925756	19 D x 25 HL x 75 OAL x 6 SH D	TREE SHAPE WITH POINT END (DOUBLE CUT)	ITT8	19	25	75	6	3074	3380

## TUNGSTEN CARBIDE ROTARY BURRS

SHAPE CODE	ITEM CODE (SINGLE)	ITEM CODE (SUPREME)	SIZE DESC	DESCRIPTION	SMART CODE	DIA	HEAD LENGTH	OAL	SH DIA	BPT LIST PRICE-STD CUT	BPT LIST PRICE-SUPREME CUT
	KBF00M36383	KBF01M36383	3 D x 6 HL x 38 OAL x 3 SH D	TREE SHAPE WITH RADIUS END	ITMTB1	3	6	38	3	459	500
	KBF00M312.7383	KBF01M312.7383	3 D x 12.7 HL x 38 OAL x 3 SH D	TREE SHAPE WITH RADIUS END	ITMTB2	3	12.7	38	3	494	535
	KBF00M619696	KBF01M619696	6 D x 19 HL x 69 OAL x 6 SH D	TREE SHAPE WITH RADIUS END	ITTB1	6	19	69	6	715	783
	KBF00M9.519696	KBF01M9.519696	9.5 D x 19 HL x 69 OAL x 6 SH D	TREE SHAPE WITH RADIUS END	ITTB2	9.5	19	69	6	859	944
	KBF00M12.725756	KBF01M12.725756	12.7 D x 25 HL x 75 OAL x 6 SH D	TREE SHAPE WITH RADIUS END	ITTB3	12.7	25	75	6	1080	1188
	KBF00M1632826	KBF01M1632826	16 D x 32 HL x 82 OAL x 6 SH D	TREE SHAPE WITH RADIUS END	ITTB4	16	32	82	6	1519	1670
	KBF00M819696	KBF01M819696	8 D x 19 HL x 69 OAL x 6 SH D	TREE SHAPE WITH RADIUS END	ITTB5	8	19	69	6	849	936
	KBF00M6.316656	KBF01M6.316656	6.3 D x 16 HL x 65 OAL x 6 SH D	TREE SHAPE WITH RADIUS END	ITTB6	6.3	16	65	6	715	786
	KBF00M1125756	KBF01M1125756	11 D x 25 HL x 75 OAL x 6 SH D	TREE SHAPE WITH RADIUS END	ITTB7	11	25	75	6	1070	1181
	KBF00M1625756	KBF01M1625756	16 D x 25 HL x 75 OAL x 6 SH D	TREE SHAPE WITH RADIUS END	ITTB8	16	25	75	6	1490	1641
KBF00M1925756	KBF01M1925756	19 D x 25 HL x 75 OAL x 6 SH D	TREE SHAPE WITH RADIUS END	ITTB9	19	25	75	6	3074	3380	
	KBE00M38383	KBE01M38383	3 D x 8 HL x 38 OAL x 3 SH D	OVAL	ITM01	3	8	38	3	510	554
	KBE00M38503	KBE01M38503	3 D x 8 HL x 50 OAL x 3 SH D	OVAL	ITM01L	3	8	50	3	541	596
	KBE00M38753	KBE01M38753	3 D x 8 HL x 75 OAL x 3 SH D	OVAL	ITM01L1	3	8	75	3	678	744
	KBE00M6.39.5383	KBE01M6.39.5383	6.3 D x 9.5 HL x 38 OAL x 3 SH D	OVAL	ITM02	6.3	9.5	38	3	648	702
	KBE00M6.39.5503	KBE01M6.39.5503	6.3 D x 9.5 HL x 50 OAL x 3 SH D	OVAL	ITM02L	6.3	9.5	50	3	656	720
	KBE00M6.39.5753	KBE01M6.39.5753	6.3 D x 9.5 HL x 75 OAL x 3 SH D	OVAL	ITM02L1	6.3	9.5	75	3	716	787
	KBE00M812626	KBE01M812626	8 D x 12 HL x 62 OAL x 6 SH D	OVAL	ITO1	8	12	62	6	756	833
	KBE00M12.719696	KBE01M12.719696	12.7 D x 19 HL x 69 OAL x 6 SH D	OVAL	ITO2	12.7	19	69	6	1105	1215
	KBE00M1625756	KBE01M1625756	16 D x 25 HL x 75 OAL x 6 SH D	OVAL	ITO3	16	25	75	6	1229	1864
	KBE00M6.310606	KBE01M6.310606	6.3 D x 10 HL x 60 OAL x 6 SH D	OVAL	ITO4	6.3	10	60	6	869	945
	KBE00M9.516656	KBE01M9.516656	9.5 D x 16 HL x 65 OAL x 6 SH D	OVAL	ITO5	9.5	16	65	6	890	977
	KBE00M12.722716	KBE01M12.722716	12.7 D x 22 HL x 71 OAL x 6 SH D	OVAL	ITO6	12.7	22	71	6	1297	1428
	KBE00M1925756	KBE01M1925756	19 D x 25 HL x 75 OAL x 6 SH D	OVAL	ITO7	19	25	75	6	2697	2967
	KBL00M9.52526	KBL01M9.52526	9.5 D x 2 HL x 52 OAL x 6 SH D	RIM	ITR1	9.5	2	52	6	665	729
	KBL00M19.16566	KBL01M19.16566	19.1 D x 6 HL x 56 OAL x 6 SH D	RIM		19.1	6	56	6	-	1431
	KBL00M12.710606	KBL01M12.710606	12.7 D x 10 HL x 60 OAL x 6 SH D	RIM	ITR3	12.7	10	60	6	1105	1215
	KBL00M154546	KBL01M154546	15 D x 4 HL x 54 OAL x 6 SH D	RIM	ITR4	15	4	54	6	891	968
	KBK00M38.5383	KBK01M38.5383	3 D x 8.5 HL x 38 OAL x 3 SH D	INVERTED CONE	ITMA3	3	8.5	38	3	459	500
	KBK00M6.38383	KBK01M6.38383	6.3 D x 8 HL x 38 OAL x 3 SH D	INVERTED CONE	ITMA4	6.3	8	38	3	548	594
	KBK00M6.38586	KBK01M6.38586	6.3 D x 8 HL x 58 OAL x 6 SH D	INVERTED CONE	ITN1	6.3	8	58	6	741	814
	KBK00M12.712.7626	KBK01M12.712.7626	12.7 D x 12.7 HL x 62 OAL x 6 SH D	INVERTED CONE	ITN4	12.7	12.7	62	6	1551	1706

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## **BDT PRODUCTS**



**Price List**  
**Effective 1<sup>st</sup> April 2025**

[www.birlaprecision.com](http://www.birlaprecision.com)

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## **SDS HAMMER DRILLS**



[www.birlaprecision.com](http://www.birlaprecision.com)

**SDS PLUS HAMMER DRILLS**

**FLAT TIP**



MATERIAL CODE	DESCRIPTION	LIST PRICE (RS.) EACH
HMD00M4110	4.00 x 110 MM OAL	71
HMD00M5110	5.00 x 110 MM OAL	71
HMD00M5160	5.00 x 160 MM OAL	81
HMD00M5.5110	5.5 x 110 MM OAL	71
HMD00M5.5160	5.5 x 160 MM OAL	81
HMD00M6110	6.00 x 110 MM OAL	71
HMD00M6160	6.00 x 160 MM OAL	81
HMD00M6210	6.00 x 210 MM OAL	108
HMD00M6.5110	6.5 x 110 MM OAL	73
HMD00M6.5160	6.5 x 160 MM OAL	86
HMD00M8110	8.00 x 110 MM OAL	86
HMD00M8160	8.00 x 160 MM OAL	94
HMD00M8210	8.00 x 210 MM OAL	115
HMD00M8260	8.00 x 260 MM OAL	151
HMD00M9210	9.00 x 210 MM OAL	119
HMD00M10110	10.00 x 110 MM OAL	96
HMD00M10160	10.00 x 160 MM OAL	105
HMD00M10210	10.00 x 210 MM OAL	118
HMD00M10260	10.00 x 260 MM OAL	143
HMD00M10310	10.00 x 310 MM OAL	164
HMD00M11210	11.00 x 210 MM OAL	124
HMD00M12160	12.00 x 160 MM OAL	133
HMD00M12210	12.00 x 210 MM OAL	143
HMD00M12260	12.00 x 260 MM OAL	163
HMD00M12310	12.00 x 310 MM OAL	193
HMD00M13160	13.00 x 160 MM OAL	143
HMD00M13210	13.00 x 210 MM OAL	172
HMD00M13260	13.00 x 260 MM OAL	193
HMD00M13310	13.00 x 310 MM OAL	236
HMD00M14160	14.00 x 160 MM OAL	153
HMD00M14210	14.00 x 210 MM OAL	207
HMD00M14260	14.00 x 260 MM OAL	236
HMD00M14310	14.00 x 310 MM OAL	269
HMD00M16160	16.00 x 160 MM OAL	234
HMD00M16210	16.00 x 210 MM OAL	280
HMD00M16260	16.00 x 260 MM OAL	310
HMD00M16310	16.00 x 310 MM OAL	348
HMD00M18350	18.00 x 350 MM OAL	348

MATERIAL CODE	DESCRIPTION	LIST PRICE (RS.) EACH
HMD00M18400	18.00 x 400 MM OAL	459
HMD00M18450	18.00 x 450 MM OAL	461
HMD00M18600	18.00 x 600 MM OAL	582
HMD00M18800	18.00 x 800 MM OAL	763
HMD00M181000	18.00 x 1000 MM OAL	908
HMD00M19310	19.00 x 310 MM OAL	333
HMD00M19350	19.00 x 350 MM OAL	459
HMD00M20210	20.00 x 210 MM OAL	350
HMD00M20260	20.00 x 260 MM OAL	367
HMD00M20310	20.00 x 310 MM OAL	408
HMD00M20350	20.00 x 350 MM OAL	439
HMD00M20400	20.00 x 400 MM OAL	509
HMD00M20450	20.00 x 450 MM OAL	547
HMD00M20600	20.00 x 600 MM OAL	692
HMD00M20800	20.00 x 800 MM OAL	883



## SDS PLUS HAMMER DRILLS

### FLAT TIP



MATERIAL CODE	DESCRIPTION	LIST PRICE (RS.) EACH
HMD00M201000	20.00 x 1000 MM OAL	1035
HMD00M22210	22.00 x 210 MM OAL	389
HMD00M22260	22.00 x 260 MM OAL	424
HMD00M22310	22.00 x 310 MM OAL	465
HMD00M22350	22.00 x 350 MM OAL	509
HMD00M22400	22.00 x 400 MM OAL	664
HMD00M22450	22.00 x 450 MM OAL	645
HMD00M22600	22.00 x 600 MM OAL	883
HMD00M22800	22.00 x 800 MM OAL	1077
HMD00M221000	22.00 x 1000 MM OAL	1325
HMD00M25210	25.00 x 210 MM OAL	498
HMD00M25260	25.00 x 260 MM OAL	509

MATERIAL CODE	DESCRIPTION	LIST PRICE (RS.) EACH
HMD00M25310	25.00 x 310 MM OAL	572
HMD00M25350	25.00 x 350 MM OAL	610
HMD00M25400	25.00 x 400 MM OAL	705
HMD00M25450	25.00 x 450 MM OAL	777
HMD00M25600	25.00 x 600 MM OAL	996
HMD00M25800	25.00 x 800 MM OAL	1275
HMD00M251000	25.00 x 1000 MM OAL	1537

### CROSS TIP



MATERIAL CODE	DESCRIPTION	LIST PRICE (RS.) EACH
HDC00M5110	5.0 x 110 MM OAL	109
HDC00M5160	5.0 x 160 MM OAL	112
HDC00M6110	6.0 x 110 MM OAL	109
HDC00M6160	6.0 x 160 MM OAL	112
HDC00M6210	6.0 x 210 MM OAL	157
HDC00M6260	6.0 x 260 MM OAL	161
HDC00M6.5110	6.5 x 110 MM OAL	109
HDC00M6.5160	6.5 x 160 MM OAL	112
HDC00M8110	8.0 x 110 MM OAL	109
HDC00M8160	8.0 x 160 MM OAL	124
HDC00M8210	8.0 x 210 MM OAL	167
HDC00M8260	8.0 x 260 MM OAL	184
HDC00M8310	8.0 x 310 MM OAL	223
HDC00M8350	8.0 x 350 MM OAL	250
HDC00M8450	8.0 x 450 MM OAL	319
HDC00M10110	10 x 110 MM OAL	139
HDC00M10160	10 x 160 MM OAL	152
HDC00M10210	10 x 210 MM OAL	182
HDC00M10260	10 x 260 MM OAL	199
HDC00M10310	10 x 310 MM OAL	236

MATERIAL CODE	DESCRIPTION	LIST PRICE (RS.) EACH
HDC00M10350	10 x 350 MM OAL	264
HDC00M10400	10 x 400 MM OAL	305
HDC00M10450	10 x 450 MM OAL	329
HDC00M10600	10 x 600 MM OAL	418
HDC00M12110	12 x 110 MM OAL	151
HDC00M12160	12 x 160 MM OAL	169
HDC00M12210	12 x 210 MM OAL	199
HDC00M12260	12 x 260 MM OAL	220
HDC00M12310	12 x 310 MM OAL	251
HDC00M12350	12 x 350 MM OAL	275
HDC00M12400	12 x 400 MM OAL	312
HDC00M12450	12 x 450 MM OAL	336
HDC00M12600	12 x 600 MM OAL	428
HDC00M12800	12 x 800 MM OAL	541
HDC00M121000	12 x 1000 MM OAL	610
HDC00M14160	14 x 160 MM OAL	227
HDC00M14210	14 x 210 MM OAL	248
HDC00M14260	14 x 260 MM OAL	284
HDC00M14310	14 x 310 MM OAL	324
HDC00M14350	14 x 350 MM OAL	358



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### CROSS TIP

MATERIAL CODE	DESCRIPTION	LIST PRICE (RS.) EACH
HDC00M14400	14 x 400 MM OAL	380
HDC00M14450	14 x 450 MM OAL	397
HDC00M14600	14 x 600 MM OAL	521
HDC00M14800	14 x 800 MM OAL	682
HDC00M141000	14 x 1000 MM OAL	792
HDC00M16160	16 x 160 MM OAL	240
HDC00M16210	16 x 210 MM OAL	295
HDC00M16260	16 x 260 MM OAL	323
HDC00M16310	16 x 310 MM OAL	383
HDC00M16350	16 x 350 MM OAL	401
HDC00M16400	16 x 400 MM OAL	428
HDC00M16450	16 x 450 MM OAL	473
HDC00M16600	16 x 600 MM OAL	583
HDC00M16800	16 x 800 MM OAL	750
HDC00M161000	16 x 1000 MM OAL	840
HDC00M18210	18 x 210 MM OAL	348
HDC00M18260	18 x 260 MM OAL	405
HDC00M18310	18 x 310 MM OAL	487
HDC00M18350	18 x 350 MM OAL	504
HDC00M18400	18 x 400 MM OAL	552
HDC00M18450	18 x 450 MM OAL	576
HDC00M18600	18 x 600 MM OAL	757
HDC00M18800	18 x 800 MM OAL	918
HDC00M181000	18 x 1000 MM OAL	1090
HDC00M20210	20 x 210 MM OAL	418
HDC00M20260	20 x 260 MM OAL	475
HDC00M20310	20 x 310 MM OAL	584
HDC00M20350	20 x 350 MM OAL	606
HDC00M20400	20 x 400 MM OAL	673
HDC00M20450	20 x 450 MM OAL	750
HDC00M20600	20 x 600 MM OAL	918
HDC00M20800	20 x 800 MM OAL	1059
HDC00M201000	20 x 1000 MM OAL	1244
HDC00M22210	22 x 210 MM OAL	466
HDC00M22260	22 x 260 MM OAL	504
HDC00M22310	22 x 310 MM OAL	673
HDC00M22350	22 x 350 MM OAL	757
HDC00M22400	22 x 400 MM OAL	824
HDC00M22450	22 x 450 MM OAL	857
HDC00M22600	22 x 600 MM OAL	1059

MATERIAL CODE	DESCRIPTION	LIST PRICE (RS.) EACH
HDC00M22800	22 x 800 MM OAL	1295
HDC00M221000	22 x 1000 MM OAL	1593
HDC00M25210	25 x 210 MM OAL	593
HDC00M25260	25 x 260 MM OAL	710
HDC00M25310	25 x 310 MM OAL	801
HDC00M25350	25 x 350 MM OAL	868
HDC00M25400	25 x 400 MM OAL	985
HDC00M25450	25 x 450 MM OAL	1068
HDC00M25600	25 x 600 MM OAL	1292
HDC00M25800	25 x 800 MM OAL	1535
HDC00M251000	25 x 1000 MM OAL	1854



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## MASONRY DRILLS





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## MASONRY DRILLS



DESCRIPTION	MATERIAL CODE DELUXE	LIST PRICE (RS.) EACH DELUXE	MATERIAL CODE ECONOMY	LIST PRICE (RS.) EACH ECONOMY
1/8" (3.00 MM)	DPM0011/8	75	DPM0311/8	66
5/32" (4.00 MM)	DPM0015/32	89	DPM0315/32	79
3/16" (5.00 MM)	DPM0013/16	98	DPM0313/16	89
7/32" (5.50 MM)	DPM0017/32	117	DPM0317/32	106
15/64" (6.00 MM)	DPM00115/64	129	DPM03115/64	117
1/4" (6.50 MM)	DPM0011/4	117	DPM0311/4	106
9/32" (7.00 MM)	DPM0019/32	224	DPM0319/32	206
5/16" (8.00 MM)	DPM0015/16	200	DPM0315/16	181
11/32" (9.00 MM)	DPM00111/32	263	DPM03111/32	239
3/8" (10.00 MM)	DPM0013/8	235	DPM0313/8	212
7/16" (11.00 MM)	DPM0017/16	329	DPM0317/16	299
15/32" (12.00 MM)	DPM00115/32	292	DPM03115/32	265
1/2" (13.00 MM)	DPM0011/2	292	DPM0311/2	265



## NEW PACKAGING

**NEW**

DELUXE



ECONOMY



## MASONRY DRILL BIT - LONG SERIES

SR	SIZE	LENGTH	LIST PRICE
1	5/16"	8"	200.00
2	5/16"	10"	220.00
3	5/16"	12"	244.00
4	3/8"	8"	228.00
5	3/8"	10"	264.00
6	3/8"	12"	288.00
7	1/8"	8"	272.00
8	1/8"	10"	320.00
9	1/8"	12"	372.00

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## CUTTING WHEELS



**ABRASIVES**

**CUT OF WHEELS (COW)**

MATERIAL CODE	DESCRIPTION ( OD X THK X ID )	LIST PRICE (RS.) EACH	CARTON QUANTITY															
ACOW0M1051.2B	107 x 1.2 x 16 MM BLACK	22	800															
ACOW0M1051.2G	107 x 1.2 x 16 MM GREEN	22	800															
ACOW0M1051.2G1N	107 x 1.2 x 16 MM GREEN 1N	19	800															
ACOW0M1251.2B	125 x 1.2 x 22 MM BLACK	41	500															
ACOW0M1251.2G	125 x 1.2 x 22 MM GREEN	41	500															
ACOW1M3552.5B	355 x 2.5 x 25.4 MM BLACK	260	25															
ACOW1M3552.5G	355 x 2.5 x 25.4 MM GREEN	260	25															
ACOW2M3552.8B	355 x 2.8 x 25.4 MM BLACK	265	25															
ACOW2M3552.8G	355 x 2.8 x 25.4 MM GREEN	265	25															
ACOW1M3553B	355 x 3 x 25.4 MM BLACK	278	25															
ACOW1M3553G	355 x 3 x 25.4 MM GREEN	278 </tr <tr> <td>ACOW2M3552.8BAD</td> <td>355 x 2.8 x 25.4 MM BLACK 2NET</td> <td>287</td> <td>25</td> </tr> <tr> <td>ACOW2M3552.8GAD</td> <td>355 x 2.8 x 25.4 MM GREEN 2NET</td> <td>287</td> <td>25</td> </tr> <tr> <td>ACOW2M3553BAD</td> <td>355 x 3 x 25.4 MM BLACK 2NET</td> <td>310</td> <td>25</td> </tr> <tr> <td>ACOW2M3553GAD</td> <td>355 x 3 x 25.4 MM GREEN 2NET</td> <td>310</td> <td>25</td> </tr>	ACOW2M3552.8BAD	355 x 2.8 x 25.4 MM BLACK 2NET	287	25	ACOW2M3552.8GAD	355 x 2.8 x 25.4 MM GREEN 2NET	287	25	ACOW2M3553BAD	355 x 3 x 25.4 MM BLACK 2NET	310	25	ACOW2M3553GAD	355 x 3 x 25.4 MM GREEN 2NET	310	25
ACOW2M3552.8BAD	355 x 2.8 x 25.4 MM BLACK 2NET	287	25															
ACOW2M3552.8GAD	355 x 2.8 x 25.4 MM GREEN 2NET	287	25															
ACOW2M3553BAD	355 x 3 x 25.4 MM BLACK 2NET	310	25															
ACOW2M3553GAD	355 x 3 x 25.4 MM GREEN 2NET	310	25															



**DEPRESSED CENTER DISCS (DCD)**



MATERIAL CODE	DESCRIPTION ( OD X THK X ID )	LIST PRICE (RS.) EACH	CARTON QUANTITY
ADCD0M1004B	100 x 4 x 16 MM BLACK	47	300
ADCD0M1004G	100 x 4 x 16 MM GREEN	47	300
ADCD0M1006B	100 x 6 x 16 MM BLACK	55	200
ADCD0M1006G	100 x 6 x 16 MM GREEN	55	200
ADCD0M1256B	125 x 6 x 22.23 MM BLACK	76	100
ADCD0M1256G	125 x 6 x 22.23 MM GREEN	76	100
ADCD0M1806.6B	180 x 6.6 x 22.23 MM BLACK	175	50
ADCD0M1806.6G	180 x 6.6 x 22.23 MM GREEN	175	50
ADCD0M1806BSG	180 x 6.0 x 22.23 MM GREEN EXTRA TEZ	216	50
ADCD0M1806BSB	180 x 6.0 x 22.23 MM BLACK EXTRA TEZ	216	50
ADCD0M2306B	230 x 6.0 x 22.23 MM BLACK	301	50

## FLAP DISC

MATERIAL CODE	DESCRIPTION	LIST PRICE (RS.) EACH	CARTON QUANTITY
AFD01F10016BG60	100 x 16 MM BLACK FBR 60	48	200
AFD01F10016BG80	100 x 16 MM BLACK FBR 80	48	200
AFD01F10016BG120	100 x 16 MM BLACK FBR 120	48	200
AFD00F10016BG60	100 x 16 MM BLACK FBR EXTRA TEZ 60	52	200
AFD00F10016BG80	100 x 16 MM BLACK FBR EXTRA TEZ 80	52	200
AFD00F10016BG120	100 x 16 MM BLACK FBR EXTRA TEZ 120	52	200
AFD01M10016BG60	100 x 16 MM BLACK MTL 60	48	200
AFD01M10016BG80	100 x 16 MM BLACK MTL 80	48	200
AFD01M10016BG120	100 x 16 MM BLACK MTL120	48	200
AFD00M10016BG60	100 x 16 MM BLACK MTL EXTRA TEZ 60	53	200
AFD00M10016BG80	100 x 16 MM BLACK MTL EXTRA TEZ 80	53	200
AFD00M10016BG120	100 x 16 MM BLACK MTL EXTRA TEZ 120	53	200
AFD01F12522BG60	125 x 22 MM BLACK FBR 60	97	200
AFD01F12522BG80	125 x 22 MM BLACK FBR 80	97	200
AFD01F12522BG120	125 x 22 MM BLACK FBR 120	97	200
AFD00F12522BG60	125 x 22 MM BLACK FBR EXTRA TEZ 60	100	200
AFD00F12522BG80	125 x 22 MM BLACK FBR EXTRA TEZ 80	100	200
AFD00F12522BG120	125 x 22 MM BLACK FBR EXTRA TEZ 120	100	200



## DIAMOND BLADE

MATERIAL CODE	SIZE	ID/BORE	TYPE	APPLICATION	LIST PRICE (RS.) EACH
DMBS0I4	4" (110mm)	20mm	SEGMENTED	MARBLE / GRANITE CUTTING	175
DMBS0I5	5" (125mm)	22.23mm	SEGMENTED	MARBLE / GRANITE CUTTING	265
DMBC0I4	4" (110mm)	20mm	CONTINUOUS	MARBLE / GRANITE / TILE CUTTING	201
DMBC0I5	5" (125mm)	22.23mm	CONTINUOUS	MARBLE / GRANITE / TILE CUTTING	265
DMBT0I4	4" (110mm)	20mm	TURBO	MARBLE / GRANITE / TILE CUTTING	196





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### TCT-CIRCULAR SAW BLADE (WOOD)

MATERIAL CODE	DESCRIPTION	ID/BORE SIZE	LIST PRICE (RS.) EACH
SBW001430	TCT CIRCULAR SAW WOOD 4" x 30T	20	217
SBW001440	TCT CIRCULAR SAW WOOD 4" x 40T	20	231
SBW001530	TCT CIRCULAR SAW WOOD 5" x 30T	20	242
SBW001540	TCT CIRCULAR SAW WOOD 5" x 40T	20	279
SBW001740	TCT CIRCULAR SAW WOOD 7" x 40T	25.4	460
SBW001760	TCT CIRCULAR SAW WOOD 7" x 60T	25.4	578
SBW001960	TCT CIRCULAR SAW WOOD 9" x 60T	25.4	804
SBW0011040	TCT CIRCULAR SAW WOOD 10" x 40T	25.4	807
SBW0011060	TCT CIRCULAR SAW WOOD 10" x 60T	25.4	954
SBW0011260	TCT CIRCULAR SAW WOOD 12" x 60T	25.4	1385
SBW0011280	TCT CIRCULAR SAW WOOD 12" x 80T	25.4	1573
SBW00112100	TCT CIRCULAR SAW WOOD 12" x 100T	25.4	1773
SBW0011480	TCT CIRCULAR SAW WOOD 14" x 80T	25.4	2120
SBW00114100	TCT CIRCULAR SAW WOOD 14" x 100T	25.4	2354
SBW00114120	TCT CIRCULAR SAW WOOD 14" x 120T	25.4	2589



### TCT-CIRCULAR SAW BLADE (ALUMINIUM)

MATERIAL CODE	DESCRIPTION	ID/BORE SIZE	LIST PRICE (RS.) EACH
SBA001960	TCT CIRCULAR SAW ALUMN 9" x 60T	25.4	859
SBA0011080	TCT CIRCULAR SAW ALUMN 10" x 80T	25.4	1257
SBA00110100	TCT CIRCULAR SAW ALUMN 10" x 100T	25.4	1432
SBA00110120	TCT CIRCULAR SAW ALUMN 10" x 120T	25.4	1620
SBA00112100	TCT CIRCULAR SAW ALUMN 12" x 100T	25.4	1948
SBA00112120	TCT CIRCULAR SAW ALUMN 12" x 120T	25.4	2157
SBA00114100	TCT CIRCULAR SAW ALUMN 14" x 100T	25.4	2486
SBA00114120	TCT CIRCULAR SAW ALUMN 14" x 120T	25.4	2720
SBA00116100	TCT CIRCULAR SAW ALUMN 16" x 100T	25.4	4174
SBA00116120	TCT CIRCULAR SAW ALUMN 16" x 120T	25.4	4643



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## ENGINEERING FILES





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## MACHINIST FILES

### FLAT FILES

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
FLAT1001	100 MM BASTARD	4"	2120
FLAT1002	100 MM 2ND CUT	4"	2590
FLAT1003	100 MM SMOOTH	4"	2940
FLAT1501	150 MM BASTARD	6"	2160
FLAT1502	150 MM 2ND CUT	6"	2940
FLAT1503	150 MM SMOOTH	6"	3260
FLAT2001	200 MM BASTARD	8"	2170
FLAT2002	200 MM 2ND CUT	8"	3440
FLAT2003	200 MM SMOOTH	8"	3710

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
FLAT2501	250 MM BASTARD	10"	2180
FLAT2502	250 MM 2ND CUT	10"	3610
FLAT2503	250 MM SMOOTH	10"	4540
FLAT3001	300 MM BASTARD	12"	3270
FLAT3002	300 MM 2ND CUT	12"	5340
FLAT3003	300 MM SMOOTH	12"	5920
FLAT3501	350 MM BASTARD	14"	7570
FLAT3502	350 MM 2ND CUT	14"	7980
FLAT3503	350 MM SMOOTH	14"	8780

### HAND FILES

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
HAND1001	100 MM BASTARD	4"	2120
HAND1002	100 MM 2ND CUT	4"	2590
HAND1003	100 MM SMOOTH	4"	2940
HAND1501	150 MM BASTARD	6"	2160
HAND1502	150 MM 2ND CUT	6"	2940
HAND1503	150 MM SMOOTH	6"	3260
HAND2001	200 MM BASTARD	8"	2170
HAND2002	200 MM 2ND CUT	8"	3440
HAND2003	200 MM SMOOTH	8"	3710

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
HAND2501	250 MM BASTARD	10"	2180
HAND2502	250 MM 2ND CUT	10"	3610
HAND2503	250 MM SMOOTH	10"	4540
HAND3001	300 MM BASTARD	12"	3270
HAND3002	300 MM 2ND CUT	12"	5340
HAND3003	300 MM SMOOTH	12"	5920
HAND3501	350 MM BASTARD	14"	7570
HAND3502	350 MM 2ND CUT	14"	7980
HAND3503	350 MM SMOOTH	14"	8780

### 3 SQUARE FILES

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
3SQU1001	100 MM BASTARD	4"	3210
3SQU1002	100 MM 2ND CUT	4"	3440
3SQU1003	100 MM SMOOTH	4"	3560
3SQU1501	150 MM BASTARD	6"	3420
3SQU1502	150 MM 2ND CUT	6"	3580
3SQU1503	150 MM SMOOTH	6"	4000

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
3SQU2001	200 MM BASTARD	8"	4520
3SQU2002	200 MM 2ND CUT	8"	4790
3SQU2003	200 MM SMOOTH	8"	5100
3SQU2501	250 MM BASTARD	10"	6060
3SQU2502	250 MM 2ND CUT	10"	6410
3SQU2503	250 MM SMOOTH	10"	6880

### 3 SQUARE FILES

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
3SQU3001	300 MM BASTARD	12"	7660
3SQU3002	300 MM 2ND CUT	12"	8040
3SQU3003	300 MM SMOOTH	12"	8460

### SQUARE FILES

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
SQUA1001	100 MM BASTARD	4"	3120
SQUA1002	100 MM 2ND CUT	4"	3290
SQUA1003	100 MM SMOOTH	4"	3430
SQUA1501	150 MM BASTARD	6"	3340
SQUA1502	150 MM 2ND CUT	6"	3430
SQUA1503	150 MM SMOOTH	6"	3610
SQUA2001	200 MM BASTARD	8"	3450

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
SQUA2002	200 MM 2ND CUT	8"	3610
SQUA2003	200 MM SMOOTH	8"	4020
SQUA2501	250 MM BASTARD	10"	4610
SQUA2502	250 MM 2ND CUT	10"	4810
SQUA2503	250 MM SMOOTH	10"	5160
SQUA3001	300 MM BASTARD	12"	5710
SQUA3002	300 MM 2ND CUT	12"	6070
SQUA3003	300 MM SMOOTH	12"	6840

### ROUND FILES

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
ROUN1001	100 MM BASTARD	4"	2710
ROUN1002	100 MM 2ND CUT	4"	3120
ROUN1003	100 MM SMOOTH	4"	3520
ROUN1501	150 MM BASTARD	6"	3170
ROUN1502	150 MM 2ND CUT	6"	3340
ROUN1503	150 MM SMOOTH	6"	3580
ROUN2001	200 MM BASTARD	8"	3550
ROUN2002	200 MM 2ND CUT	8"	3610
ROUN2003	200 MM SMOOTH	8"	4140

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
ROUN2501	250 MM BASTARD	10"	4610
ROUN2502	250 MM 2ND CUT	10"	4810
ROUN2503	250 MM SMOOTH	10"	5180
ROUN3001	300 MM BASTARD	12"	5710
ROUN3002	300 MM 2ND CUT	12"	6070
ROUN3003	300 MM SMOOTH	12"	6690
ROUN3501	350 MM BASTARD	14"	8030
ROUN3502	350 MM 2ND CUT	14"	8390
ROUN3503	350 MM SMOOTH	14"	9190





## HALF ROUND FILES

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
HFPO1001	100 MM BASTARD	4"	4000
HFPO1002	100 MM 2ND CUT	4"	4320
HFPO1003	100 MM SMOOTH	4"	4510
HFPO1501	150 MM BASTARD	6"	4440
HFPO1502	150 MM 2ND CUT	6"	4740
HFPO1503	150 MM SMOOTH	6"	5090
HFPO2001	200 MM BASTARD	8"	5640
HFPO2002	200 MM 2ND CUT	8"	6230
HFPO2003	200 MM SMOOTH	8"	6630

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
HFPO2501	250 MM BASTARD	10"	7180
HFPO2502	250 MM 2ND CUT	10"	8420
HFPO2503	250 MM SMOOTH	10"	8870
HFPO3001	300 MM BASTARD	12"	9680
HFPO3002	300 MM 2ND CUT	12"	10120
HFPO3003	300 MM SMOOTH	12"	11010
HFPO3501	350 MM BASTARD	14"	12090
HFPO3502	350 MM 2ND CUT	14"	13090
HFPO3503	350 MM SMOOTH	14"	13830

## SAW FILES

### HEAVY TAPER FILES

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
SAHE1002	100 MM 2ND CUT	4"	660
SAHE1252	125 MM 2ND CUT	5"	950
SAHE1502	150 MM 2ND CUT	6"	1230
SAHE2002	200 MM 2ND CUT	8"	1760

### REGULAR TAPER FILES

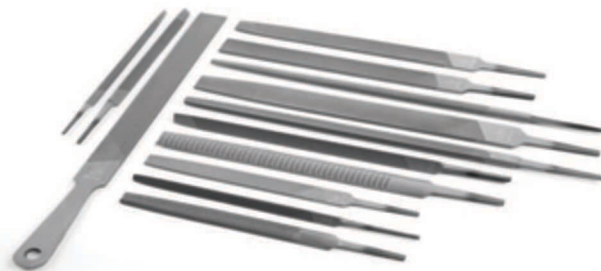
MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
SARE1002	100 MM 2ND CUT	4"	660
SARE1252	125 MM 2ND CUT	5"	950
SARE1502	150 MM 2ND CUT	6"	1230
SARE2002	200 MM 2ND CUT	8"	1760

### SLIM TAPER FILES

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
SASL1002	100 MM 2ND CUT	4"	690
SASL1252	125 MM 2ND CUT	5"	810
SASL1502	150 MM 2ND CUT	6"	860
SASL2002	200 MM 2ND CUT	8"	1410

### MILL TAPER FILES

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
MILL1501	150 MM BASTARD	6"	1760
MILL2001	200 MM BASTARD	8"	1770
MILL2501	250 MM BASTARD	10"	1780
MILL2503	250 MM SMOOTH	10"	1780
MILL3001	300 MM BASTARD	12"	2450



## FLAT HANDLE FILES

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
FLHA2501	250 MM BASTARD	10"	1780
FLHA2502	250 MM 2ND CUT	10"	1780
FLHA2501HP	250 MM BASTARD W HDL	10"	1920
FLHA2501P	250 MM BASTARD W PCH	10"	1850
FLHA2502P	250 MM SECOND W PCH	10"	1850

## FLAT SUPER LIGHT FILES

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
FLSU2501	250 MM BASTARD	10"	1750
FLSU2502	250 MM 2ND CUT	10"	1760

## WOOD AND RASP FILES

### FLAT RASP FILES

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
FLRA1501	150 MM BASTARD	6"	3430
FLRA1502	150 MM 2ND CUT	6"	3450
FLRA1503	150 MM SMOOTH	6"	3580
FLRA2001	200 MM BASTARD	8"	4650
FLRA2002	200 MM 2ND CUT	8"	4790
FLRA2003	200 MM SMOOTH	8"	4980
FLRA2501	250 MM BASTARD	10"	5460
FLRA2502	250 MM 2ND CUT	10"	5840
FLRA2503	250 MM SMOOTH	10"	6110
FLRA3001	300 MM BASTARD	12"	7050
FLRA3002	300 MM 2ND CUT	12"	7470
FLRA3003	300 MM SMOOTH	12"	7980

### HALF ROUND RASP FILES

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
HFRA1501	150 MM BASTARD	6"	4020
HFRA1502	150 MM 2ND CUT	6"	4110
HFRA1503	150 MM SMOOTH	6"	4250
HFRA2001	200 MM BASTARD	8"	5130
HFRA2002	200 MM 2ND CUT	8"	5180
HFRA2003	200 MM SMOOTH	8"	5390
HFRA2501	250 MM BASTARD	10"	6080
HFRA2502	250 MM 2ND CUT	10"	6400
HFRA2503	250 MM SMOOTH	10"	6410
HFRA3001	300 MM BASTARD	12"	7410
HFRA3002	300 MM 2ND CUT	12"	8140
HFRA3003	300 MM SMOOTH	12"	8280

## SPECIAL FILES

### HALF ROUND ALUMINIUM FILES

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
ALUM2001	200 MM BASTARD	8"	6130
ALUM2501	250 MM BASTARD	10"	7770
ALUM3001	300 MM BASTARD	12"	10700

### FLAT ALUMINIUM FILES

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
FLAL2001	200 MM BASTARD	8"	2570
FLAL2501	250 MM BASTARD	10"	2660
FLAL3001	300 MM BASTARD	12"	3950

### ELECTRODE DRESSED FILES

MATERIAL CODE	DESCRIPTION	SIZE INCH	LIST PRICE PER 10 NOS
ELDR3002	2ND CUT 300 MM	12"	3600



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## NEEDLE FILES

### FLAT NEEDLE FILES

MATERIAL CODE	DESCRIPTION	LIST PRICE PER 10 NOS
NFLAT1400	140.00 MM 0 CUT	2010
NFLAT1402	140.00 MM 2ND CUT	2010
NFLAT1600	160.00 MM 0 CUT	2180
NFLAT1602	160.00 MM 2ND CUT	2180

### SQUARE NEEDLE FILES

MATERIAL CODE	DESCRIPTION	LIST PRICE PER 10 NOS
NSQUA1400	140.00 MM 0 CUT	2010
NSQUA1402	140.00 MM 2ND CUT	2010
NSQUA1600	160.00 MM 0 CUT	2180
NSQUA1602	160.00 MM 2ND CUT	2180

### 3 SQUARE NEEDLE FILES

MATERIAL CODE	DESCRIPTION	LIST PRICE PER 10 NOS
N3SQU1400	140.00 MM 0 CUT	2010
N3SQU1402	140.00 MM 2ND CUT	2010
N3SQU1600	160.00 MM 0 CUT	2180
N3SQU1602	160.00 MM 2ND CUT	2180

### HALF ROUND NEEDLE FILES

MATERIAL CODE	DESCRIPTION	LIST PRICE PER 10 NOS
NHFPO1400	140.00 MM 0 CUT	2010
NHFPO1402	140.00 MM 2ND CUT	2010
NHFPO1600	160.00 MM 0 CUT	2180
NHFPO1602	160.00 MM 2ND CUT	2180

### ROUND NEEDLE FILES

MATERIAL CODE	DESCRIPTION	LIST PRICE PER 10 NOS
NROUN1400	140.00 MM 0 CUT	2010
NROUN1402	140.00 MM 2ND CUT	2010
NROUN1600	160.00 MM 0 CUT	2180
NROUN1602	160.00 MM 2ND CUT	2180

### KNIFE NEEDLE FILES

MATERIAL CODE	DESCRIPTION	LIST PRICE PER 10 NOS
NKNIF1400	140.00 MM 0 CUT	2010
NKNIF1402	140.00 MM 2ND CUT	2010
NKNIF1600	160.00 MM 0 CUT	2180
NKNIF1602	160.00 MM 2ND CUT	2180

### NEEDLE FILES SET (12 PCS)

MATERIAL CODE	DESCRIPTION	LIST PRICE (RS.) PER SET
NFSET1400	140.00 MM 0 CUT	2427
NFSET1402	140.00 MM 2ND CUT	2427
NFSET1600	160.00 MM 0 CUT	2610
NFSET1602	160.00 MM 2ND CUT	2610



**DIAMOND COATED**

**FLAT NEEDLE FILES**

MATERIAL CODE	DESCRIPTION	LIST PRICE PER 10 NOS
NFLAT1400DC	140 MM 0 CUT DCOAT	7890
NFLAT1402DC	140 MM 2 CUT DCOAT	7890
NFLAT1600DC	160 MM 0 CUT DCOAT	8170
NFLAT1600H	160 MM 0 CUT W HNDL	2180
NFLAT1602DC	160 MM 2 CUT DCOAT	8170

**SQUARE NEEDLE FILES**

MATERIAL CODE	DESCRIPTION	LIST PRICE PER 10 NOS
NSQUA1400DC	140 MM 0 CUT DCOAT	7890
NSQUA1402DC	140 MM 2 CUT DCOAT	7890
NSQUA1600DC	160 MM 0 CUT DCOAT	8170
NSQUA1602DC	160 MM 2 CUT DCOAT	8170

**3 SQUARE NEEDLE FILES**

MATERIAL CODE	DESCRIPTION	LIST PRICE PER 10 NOS
N3SQU1400DC	140 MM 0 CUT DCOAT	7890
N3SQU1402DC	140 MM 2 CUT DCOAT	7890
N3SQU1600DC	160 MM 0 CUT DCOAT	8170
N3SQU1602DC	160 MM 2 CUT DCOAT	8170

**HALF ROUND NEEDLE FILES**

MATERIAL CODE	DESCRIPTION	LIST PRICE PER 10 NOS
NHFPO1400DC	140 MM 0 CUT DCOAT	7890
NHFPO1402DC	140 MM 2 CUT DCOAT	7890
NHFPO1600DC	160 MM 0 CUT DCOAT	8170
NHFPO1602DC	160 MM 2 CUT DCOAT	8170

**ROUND NEEDLE FILES**

MATERIAL CODE	DESCRIPTION	LIST PRICE PER 10 NOS
NROUN1400DC	140 MM 0 CUT DCOAT	7890
NROUN1402DC	140 MM 2 CUT DCOAT	7890
NROUN1600DC	160 MM 0 CUT DCOAT	8170
NROUN1602DC	160 MM 2 CUT DCOAT	8170

**KNIFE NEEDLE FILES**

MATERIAL CODE	DESCRIPTION	LIST PRICE PER 10 NOS
NKNIF1400DC	140 MM 0 CUT DCOAT	7890
NKNIF1402DC	140 MM 2 CUT DCOAT	7890
NKNIF1600DC	160 MM 0 CUT DCOAT	8170
NKNIF1602DC	160 MM 2 CUT DCOAT	8170

**NEEDLE FILES SET (6 PCS)**

MATERIAL CODE	DESCRIPTION	LIST PRICE (RS.) PER SET
NFSET1400DC	140 MM 0 CUT DCOAT	4728
NFSET1402DC	140 MM 2 CUT DCOAT	4728
NFSET1600DC	160 MM 0 CUT DCOAT	4901
NFSET1602DC	160 MM 2 CUT DCOAT	4901



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## DUROMASTER



**DUROMASTER**  
**JOBBER DRILLS**

MATERIAL CODE	ITEM DESCRIPTION	SIZE	LIST PRICE (RS.) PER 10 PCS	MOQ
DJD010M91200	DUROMASTER JOBBER DRILL 1.00 MM	1.00 MM	368	500
DJD010M91201	DUROMASTER JOBBER DRILL 1.10 MM	1.10 MM	368	500
DJD010I91202	DUROMASTER JOBBER DRILL 3/64"	3/64"	368	500
DJD010M91203	DUROMASTER JOBBER DRILL 1.20 MM	1.20 MM	368	500
DJD010M91204	DUROMASTER JOBBER DRILL 1.30 MM	1.30 MM	368	500
DJD010M91205	DUROMASTER JOBBER DRILL 1.40 MM	1.40 MM	368	500
DJD010M91206	DUROMASTER JOBBER DRILL 1.50 MM	1.50 MM	368	500
DJD010I91207	DUROMASTER JOBBER DRILL 1/16"	1/16"	415	500
DJD010M91208	DUROMASTER JOBBER DRILL 1.60 MM	1.60 MM	415	500
DJD010M91209	DUROMASTER JOBBER DRILL 1.70 MM	1.70 MM	415	500
DJD010M91210	DUROMASTER JOBBER DRILL 1.80 MM	1.80 MM	415	500
DJD010M91211	DUROMASTER JOBBER DRILL 1.90 MM	1.90 MM	415	500
DJD010I91212	DUROMASTER JOBBER DRILL 5/64"	5/64"	415	500
DJD010M91213	DUROMASTER JOBBER DRILL 2.00 MM	2.00 MM	415	500
DJD010M91214	DUROMASTER JOBBER DRILL 2.10 MM	2.10 MM	415	500
DJD010M91215	DUROMASTER JOBBER DRILL 2.20 MM	2.20 MM	415	500
DJD010M91216	DUROMASTER JOBBER DRILL 2.30 MM	2.30 MM	410	500
DJD010I91217	DUROMASTER JOBBER DRILL 3/32"	3/32"	410	500
DJD010M91218	DUROMASTER JOBBER DRILL 2.40 MM	2.40 MM	410	500
DJD010M91219	DUROMASTER JOBBER DRILL 2.50 MM	2.50 MM	410	500
DJD010M91220	DUROMASTER JOBBER DRILL 2.60 MM	2.60 MM	470	500
DJD010M91221	DUROMASTER JOBBER DRILL 2.70 MM	2.70 MM	470	500
DJD010I91222	DUROMASTER JOBBER DRILL 7/64"	7/64"	470	500
DJD010M91223	DUROMASTER JOBBER DRILL 2.80 MM	2.80 MM	470	500
DJD010M91224	DUROMASTER JOBBER DRILL 2.90 MM	2.90 MM	470	500
DJD010M91225	DUROMASTER JOBBER DRILL 3.00 MM	3.00 MM	470	500
DJD010M91226	DUROMASTER JOBBER DRILL 3.10 MM	3.10 MM	510	500
DJD010I91227	DUROMASTER JOBBER DRILL 1/8"	1/8"	510	500
DJD010M91228	DUROMASTER JOBBER DRILL 3.20 MM	3.20 MM	560	500
DJD010M91229	DUROMASTER JOBBER DRILL 3.30 MM	3.30 MM	560	500
DJD010M91230	DUROMASTER JOBBER DRILL 3.40 MM	3.40 MM	560	500
DJD010M91231	DUROMASTER JOBBER DRILL 3.50 MM	3.50 MM	560	500
DJD010I91232	DUROMASTER JOBBER DRILL 9/64"	9/64"	560	500
DJD010M91233	DUROMASTER JOBBER DRILL 3.60 MM	3.60 MM	672	500
DJD010M91234	DUROMASTER JOBBER DRILL 3.70 MM	3.70 MM	672	500
DJD010M91235	DUROMASTER JOBBER DRILL 3.80 MM	3.80 MM	672	500
DJD010M91236	DUROMASTER JOBBER DRILL 3.90 MM	3.90 MM	672	500
DJD010I91237	DUROMASTER JOBBER DRILL 5/32"	5/32"	672	500
DJD010M91238	DUROMASTER JOBBER DRILL 4.00 MM	4.00 MM	672	500



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## JOBBER DRILLS

MATERIAL CODE	ITEM DESCRIPTION	SIZE	LIST PRICE (RS.) PER 10 PCS	MOQ
DJD010M91239	DUROMASTER JOBBER DRILL 4.10 MM	4.10 MM	812	500
DJD010M91240	DUROMASTER JOBBER DRILL 4.20 MM	4.20 MM	812	500
DJD010M91241	DUROMASTER JOBBER DRILL 4.30 MM	4.30 MM	812	500
DJD010I91242	DUROMASTER JOBBER DRILL 11/64"	11/64"	812	500
DJD010M91243	DUROMASTER JOBBER DRILL 4.40 MM	4.40 MM	812	500
DJD010M91244	DUROMASTER JOBBER DRILL 4.50 MM	4.50 MM	987	500
DJD010M91245	DUROMASTER JOBBER DRILL 4.60 MM	4.60 MM	987	500
DJD010M91246	DUROMASTER JOBBER DRILL 4.70 MM	4.70 MM	987	500
DJD010I91247	DUROMASTER JOBBER DRILL 3/16"	3/16"	987	500
DJD010M91248	DUROMASTER JOBBER DRILL 4.80 MM	4.80 MM	987	500
DJD010M91249	DUROMASTER JOBBER DRILL 4.90 MM	4.90 MM	1071	500
DJD010M91250	DUROMASTER JOBBER DRILL 5.00 MM	5.00 MM	1071	500
DJD010M91251	DUROMASTER JOBBER DRILL 5.10 MM	5.10 MM	1071	500
DJD010I91252	DUROMASTER JOBBER DRILL 13/64"	13/64"	1071	500
DJD010M91253	DUROMASTER JOBBER DRILL 5.20 MM	5.20 MM	1071	500
DJD010M91254	DUROMASTER JOBBER DRILL 5.30 MM	5.30 MM	1225	500
DJD010M91255	DUROMASTER JOBBER DRILL 5.40 MM	5.40 MM	1225	500
DJD010M91256	DUROMASTER JOBBER DRILL 5.50 MM	5.50 MM	1225	500
DJD010I91257	DUROMASTER JOBBER DRILL 7/32"	7/32"	1225	500
DJD010M91258	DUROMASTER JOBBER DRILL 5.60 MM	5.60 MM	1225	500
DJD010M91259	DUROMASTER JOBBER DRILL 5.70 MM	5.70 MM	1358	500
DJD010M91260	DUROMASTER JOBBER DRILL 5.80 MM	5.80 MM	1358	500
DJD010M91261	DUROMASTER JOBBER DRILL 5.90 MM	5.90 MM	1358	500
DJD010I91262	DUROMASTER JOBBER DRILL 15/64"	15/64"	1358	500
DJD010M91263	DUROMASTER JOBBER DRILL 6.00 MM	6.00 MM	1358	500
DJD010M91264	DUROMASTER JOBBER DRILL 6.10 MM	6.10 MM	1526	500
DJD010M91265	DUROMASTER JOBBER DRILL 6.20 MM	6.20 MM	1526	500
DJD010M91266	DUROMASTER JOBBER DRILL 6.30 MM	6.30 MM	1526	500
DJD010I91267	DUROMASTER JOBBER DRILL 1/4"	1/4"	1526	500
DJD010M91268	DUROMASTER JOBBER DRILL 6.40 MM	6.40 MM	1526	500
DJD010M91269	DUROMASTER JOBBER DRILL 6.50 MM	6.50 MM	1918	500
DJD010M91270	DUROMASTER JOBBER DRILL 6.60 MM	6.60 MM	1918	500
DJD010M91271	DUROMASTER JOBBER DRILL 6.70 MM	6.70 MM	1918	500
DJD010I91272	DUROMASTER JOBBER DRILL 17/64"	17/64"	1918	500
DJD010M91273	DUROMASTER JOBBER DRILL 6.80 MM	6.80 MM	1918	500
DJD010M91274	DUROMASTER JOBBER DRILL 6.90 MM	6.90 MM	1918	500
DJD010M91275	DUROMASTER JOBBER DRILL 7.00 MM	7.00 MM	2205	500
DJD010M91276	DUROMASTER JOBBER DRILL 7.10 MM	7.10 MM	2205	500
DJD010I91277	DUROMASTER JOBBER DRILL 9/32"	9/32"	2205	500
DJD010M91278	DUROMASTER JOBBER DRILL 7.20 MM	7.20 MM	2205	500
DJD010M91279	DUROMASTER JOBBER DRILL 7.30 MM	7.30 MM	2205	500

## JOBBER DRILLS

MATERIAL CODE	ITEM DESCRIPTION	SIZE	LIST PRICE (RS.) PER 10 PCS	MOQ
DJD010M91280	DUROMASTER JOBBER DRILL 7.40 MM	7.40 MM	2205	500
DJD010M91281	DUROMASTER JOBBER DRILL 7.50 MM	7.50 MM	2205	500
DJD010I91282	DUROMASTER JOBBER DRILL 19/64"	19/64"	2520	500
DJD010M91283	DUROMASTER JOBBER DRILL 7.60 MM	7.60 MM	2520	500
DJD010M91284	DUROMASTER JOBBER DRILL 7.70 MM	7.70 MM	2520	500
DJD010M91285	DUROMASTER JOBBER DRILL 7.80 MM	7.80 MM	2520	500
DJD010M91286	DUROMASTER JOBBER DRILL 7.90 MM	7.90 MM	2667	500
DJD010I91287	DUROMASTER JOBBER DRILL 5/16"	5/16"	2667	500
DJD010M91288	DUROMASTER JOBBER DRILL 8.00 MM	8.00 MM	2667	500
DJD010M91289	DUROMASTER JOBBER DRILL 8.10 MM	8.10 MM	2667	300
DJD010M91290	DUROMASTER JOBBER DRILL 8.20 MM	8.20 MM	2667	300
DJD010M91291	DUROMASTER JOBBER DRILL 8.30 MM	8.30 MM	3136	300
DJD010I91292	DUROMASTER JOBBER DRILL 21/64"	21/64"	3136	300
DJD010M91293	DUROMASTER JOBBER DRILL 8.40 MM	8.40 MM	3136	300
DJD010M91294	DUROMASTER JOBBER DRILL 8.50 MM	8.50 MM	3136	300
DJD010M91295	DUROMASTER JOBBER DRILL 8.60 MM	8.60 MM	3136	300
DJD010M91296	DUROMASTER JOBBER DRILL 8.70 MM	8.70 MM	3136	300
DJD010I91297	DUROMASTER JOBBER DRILL 11/32"	11/32"	3458	300
DJD010M91298	DUROMASTER JOBBER DRILL 8.80 MM	8.80 MM	3458	300
DJD010M91299	DUROMASTER JOBBER DRILL 8.90 MM	8.90 MM	3458	300
DJD010M91300	DUROMASTER JOBBER DRILL 9.00 MM	9.00 MM	3458	300
DJD010M91301	DUROMASTER JOBBER DRILL 9.10 MM	9.10 MM	3885	300
DJD010I91302	DUROMASTER JOBBER DRILL 23/64"	23/64"	3885	300
DJD010M91303	DUROMASTER JOBBER DRILL 9.20 MM	9.20 MM	3885	300
DJD010M91304	DUROMASTER JOBBER DRILL 9.30 MM	9.30 MM	3885	300
DJD010M91305	DUROMASTER JOBBER DRILL 9.40 MM	9.40 MM	3885	300
DJD010M91306	DUROMASTER JOBBER DRILL 9.50 MM	9.50 MM	3885	300
DJD010I91307	DUROMASTER JOBBER DRILL 3/8"	3/8"	4102	300
DJD010M91308	DUROMASTER JOBBER DRILL 9.60 MM	9.60 MM	4102	300
DJD010M91309	DUROMASTER JOBBER DRILL 9.70 MM	9.70 MM	4102	300
DJD010M91310	DUROMASTER JOBBER DRILL 9.80 MM	9.80 MM	4102	300
DJD010M91311	DUROMASTER JOBBER DRILL 9.90 MM	9.90 MM	4494	300
DJD010I91312	DUROMASTER JOBBER DRILL 25/64"	25/64"	4494	300
DJD010M91313	DUROMASTER JOBBER DRILL 10.00 MM	10.00 MM	4494	300
DJD010M91314	DUROMASTER JOBBER DRILL 10.10 MM	10.10 MM	5075	100
DJD010M91315	DUROMASTER JOBBER DRILL 10.20 MM	10.20 MM	5075	100
DJD010M91316	DUROMASTER JOBBER DRILL 10.30 MM	10.30 MM	5075	100
DJD010I91317	DUROMASTER JOBBER DRILL 13/32"	13/32"	5075	100
DJD010M91318	DUROMASTER JOBBER DRILL 10.40 MM	10.40 MM	5075	100
DJD010M91319	DUROMASTER JOBBER DRILL 10.50 MM	10.50 MM	5075	100
DJD010M91320	DUROMASTER JOBBER DRILL 10.60 MM	10.60 MM	5700	100



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## JOBBER DRILLS

MATERIAL CODE	ITEM DESCRIPTION	SIZE	LIST PRICE (RS.) PER 10 PCS	MOQ
DJD010M91321	DUROMASTER JOBBER DRILL 10.70 MM	10.70 MM	5700	100
DJD010I91322	DUROMASTER JOBBER DRILL 27/64"	27/64"	5700	100
DJD010M91323	DUROMASTER JOBBER DRILL 10.80 MM	10.80 MM	5700	100
DJD010M91324	DUROMASTER JOBBER DRILL 10.90 MM	10.90 MM	5700	100
DJD010M91325	DUROMASTER JOBBER DRILL 11.00 MM	11.00 MM	5700	100
DJD010M91326	DUROMASTER JOBBER DRILL 11.10 MM	11.10 MM	6335	100
DJD010I91327	DUROMASTER JOBBER DRILL 7/16"	7/16"	6335	100
DJD010M91328	DUROMASTER JOBBER DRILL 11.20 MM	11.20 MM	6335	100
DJD010M91329	DUROMASTER JOBBER DRILL 11.30 MM	11.30 MM	6335	100
DJD010M91330	DUROMASTER JOBBER DRILL 11.40 MM	11.40 MM	6335	100
DJD010M91331	DUROMASTER JOBBER DRILL 11.50 MM	11.50 MM	6335	100
DJD010I91332	DUROMASTER JOBBER DRILL 29/64"	29/64"	6335	100
DJD010M91333	DUROMASTER JOBBER DRILL 11.60 MM	11.60 MM	7140	100
DJD010M91334	DUROMASTER JOBBER DRILL 11.70 MM	11.70 MM	7140	100
DJD010M91335	DUROMASTER JOBBER DRILL 11.80 MM	11.80 MM	7140	100
DJD010M91336	DUROMASTER JOBBER DRILL 11.90 MM	11.90 MM	7140	100
DJD010I91337	DUROMASTER JOBBER DRILL 15/32"	15/32"	7140	100
DJD010M91338	DUROMASTER JOBBER DRILL 12.00 MM	12.00 MM	7140	100
DJD010M91339	DUROMASTER JOBBER DRILL 12.10 MM	12.10 MM	7630	100
DJD010M91340	DUROMASTER JOBBER DRILL 12.20 MM	12.20 MM	7630	100
DJD010M91341	DUROMASTER JOBBER DRILL 12.30 MM	12.30 MM	7630	100
DJD010I91342	DUROMASTER JOBBER DRILL 31/64"	31/64"	7630	100
DJD010M91343	DUROMASTER JOBBER DRILL 12.40 MM	12.40 MM	7630	100
DJD010M91344	DUROMASTER JOBBER DRILL 12.50 MM	12.50 MM	7630	100
DJD010M91345	DUROMASTER JOBBER DRILL 12.60 MM	12.60 MM	8260	100
DJD010I91346	DUROMASTER JOBBER DRILL 1/2"	1/2"	8260	100
DJD010M91347	DUROMASTER JOBBER DRILL 12.70 MM	12.70 MM	8260	100
DJD010M91348	DUROMASTER JOBBER DRILL 12.80 MM	12.80 MM	8260	100
DJD010M91349	DUROMASTER JOBBER DRILL 12.90 MM	12.90 MM	8260	100
DJD010M91350	DUROMASTER JOBBER DRILL 13.00 MM	13.00 MM	8260	100

## STUB DRILLS

MATERIAL CODE	ITEM DESCRIPTION	SIZE	LIST PRICE (RS.) PER 10 PCS	MOQ
DSD010M91000	DUROMASTER STUB DRILL 1.00 MM	1.00 MM	352	500
DSD010M91001	DUROMASTER STUB DRILL 1.10 MM	1.10 MM	352	500
DSD010I91002	DUROMASTER STUB DRILL 3/64"	3/64"	352	500
DSD010M91003	DUROMASTER STUB DRILL 1.20 MM	1.20 MM	352	500
DSD010M91004	DUROMASTER STUB DRILL 1.30 MM	1.30 MM	352	500
DSD010M91005	DUROMASTER STUB DRILL 1.40 MM	1.40 MM	352	500
DSD010M91006	DUROMASTER STUB DRILL 1.50 MM	1.50 MM	352	500
DSD010I91007	DUROMASTER STUB DRILL 1/16"	1/16"	400	500
DSD010M91008	DUROMASTER STUB DRILL 1.60 MM	1.60 MM	400	500
DSD010M91009	DUROMASTER STUB DRILL 1.70 MM	1.70 MM	400	500
DSD010M91010	DUROMASTER STUB DRILL 1.80 MM	1.80 MM	400	500
DSD010M91011	DUROMASTER STUB DRILL 1.90 MM	1.90 MM	400	500
DSD010I91012	DUROMASTER STUB DRILL 5/64"	5/64"	400	500
DSD010M91013	DUROMASTER STUB DRILL 2.00 MM	2.00 MM	400	500
DSD010M91014	DUROMASTER STUB DRILL 2.10 MM	2.10 MM	400	500
DSD010M91015	DUROMASTER STUB DRILL 2.20 MM	2.20 MM	400	500
DSD010M91016	DUROMASTER STUB DRILL 2.30 MM	2.30 MM	388	500
DSD010I91017	DUROMASTER STUB DRILL 3/32"	3/32"	388	500
DSD010M91018	DUROMASTER STUB DRILL 2.40 MM	2.40 MM	388	500
DSD010M91019	DUROMASTER STUB DRILL 2.50 MM	2.50 MM	388	500
DSD010M91020	DUROMASTER STUB DRILL 2.60 MM	2.60 MM	450	500
DSD010M91021	DUROMASTER STUB DRILL 2.70 MM	2.70 MM	450	500
DSD010I91022	DUROMASTER STUB DRILL 7/64"	7/64"	450	500
DSD010M91023	DUROMASTER STUB DRILL 2.80 MM	2.80 MM	450	500
DSD010M91024	DUROMASTER STUB DRILL 2.90 MM	2.90 MM	450	500
DSD010M91025	DUROMASTER STUB DRILL 3.00 MM	3.00 MM	450	500
DSD010M91026	DUROMASTER STUB DRILL 3.10 MM	3.10 MM	480	500
DSD010I91027	DUROMASTER STUB DRILL 1/8"	1/8"	480	500
DSD010M91028	DUROMASTER STUB DRILL 3.20 MM	3.20 MM	511	500
DSD010M91029	DUROMASTER STUB DRILL 3.30 MM	3.30 MM	511	500
DSD010M91030	DUROMASTER STUB DRILL 3.40 MM	3.40 MM	511	500
DSD010M91031	DUROMASTER STUB DRILL 3.50 MM	3.50 MM	511	500
DSD010I91032	DUROMASTER STUB DRILL 9/64"	9/64"	511	500
DSD010M91033	DUROMASTER STUB DRILL 3.60 MM	3.60 MM	605	500
DSD010M91034	DUROMASTER STUB DRILL 3.70 MM	3.70 MM	605	500
DSD010M91035	DUROMASTER STUB DRILL 3.80 MM	3.80 MM	605	500
DSD010M91036	DUROMASTER STUB DRILL 3.90 MM	3.90 MM	605	500
DSD010I91037	DUROMASTER STUB DRILL 5/32"	5/32"	605	500
DSD010M91038	DUROMASTER STUB DRILL 4.00 MM	4.00 MM	605	500
DSD010M91039	DUROMASTER STUB DRILL 4.10 MM	4.10 MM	731	500



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## STUB DRILLS

MATERIAL CODE	ITEM DESCRIPTION	SIZE	LIST PRICE (RS.) PER 10 PCS	MOQ
DSD010M91040	DUROMASTER STUB DRILL 4.20 MM	4.20 MM	731	500
DSD010M91041	DUROMASTER STUB DRILL 4.30 MM	4.30 MM	731	500
DSD010I91042	DUROMASTER STUB DRILL 11/64"	11/64"	731	500
DSD010M91043	DUROMASTER STUB DRILL 4.40 MM	4.40 MM	731	500
DSD010M91044	DUROMASTER STUB DRILL 4.50 MM	4.50 MM	888	500
DSD010M91045	DUROMASTER STUB DRILL 4.60 MM	4.60 MM	888	500
DSD010M91046	DUROMASTER STUB DRILL 4.70 MM	4.70 MM	888	500
DSD010I91047	DUROMASTER STUB DRILL 3/16"	3/16"	888	500
DSD010M91048	DUROMASTER STUB DRILL 4.80 MM	4.80 MM	888	500
DSD010M91049	DUROMASTER STUB DRILL 4.90 MM	4.90 MM	964	500
DSD010M91050	DUROMASTER STUB DRILL 5.00 MM	5.00 MM	964	500
DSD010M91051	DUROMASTER STUB DRILL 5.10 MM	5.10 MM	964	500
DSD010I91052	DUROMASTER STUB DRILL 13/64"	13/64"	964	500
DSD010M91053	DUROMASTER STUB DRILL 5.20 MM	5.20 MM	964	500
DSD010M91054	DUROMASTER STUB DRILL 5.30 MM	5.30 MM	1103	500
DSD010M91055	DUROMASTER STUB DRILL 5.40 MM	5.40 MM	1103	500
DSD010M91056	DUROMASTER STUB DRILL 5.50 MM	5.50 MM	1103	500
DSD010I91057	DUROMASTER STUB DRILL 7/32"	7/32"	1103	500
DSD010M91058	DUROMASTER STUB DRILL 5.60 MM	5.60 MM	1103	500
DSD010M91059	DUROMASTER STUB DRILL 5.70 MM	5.70 MM	1222	500
DSD010M91060	DUROMASTER STUB DRILL 5.80 MM	5.80 MM	1222	500
DSD010M91061	DUROMASTER STUB DRILL 5.90 MM	5.90 MM	1222	500
DSD010I91062	DUROMASTER STUB DRILL 15/64"	15/64"	1222	500
DSD010M91063	DUROMASTER STUB DRILL 6.00 MM	6.00 MM	1222	500
DSD010M91064	DUROMASTER STUB DRILL 6.10 MM	6.10 MM	1373	500
DSD010M91065	DUROMASTER STUB DRILL 6.20 MM	6.20 MM	1373	500
DSD010M91066	DUROMASTER STUB DRILL 6.30 MM	6.30 MM	1373	500
DSD010I91067	DUROMASTER STUB DRILL 1/4"	1/4"	1373	500
DSD010M91068	DUROMASTER STUB DRILL 6.40 MM	6.40 MM	1373	500
DSD010M91069	DUROMASTER STUB DRILL 6.50 MM	6.50 MM	1603	500
DSD010M91070	DUROMASTER STUB DRILL 6.60 MM	6.60 MM	1603	500
DSD010M91071	DUROMASTER STUB DRILL 6.70 MM	6.70 MM	1603	500
DSD010I91072	DUROMASTER STUB DRILL 17/64"	17/64"	1603	500
DSD010M91073	DUROMASTER STUB DRILL 6.80 MM	6.80 MM	1603	500
DSD010M91074	DUROMASTER STUB DRILL 6.90 MM	6.90 MM	1603	500
DSD010M91075	DUROMASTER STUB DRILL 7.00 MM	7.00 MM	1791	500
DSD010M91076	DUROMASTER STUB DRILL 7.10 MM	7.10 MM	1791	500
DSD010I91077	DUROMASTER STUB DRILL 9/32"	9/32"	1791	500
DSD010M91078	DUROMASTER STUB DRILL 7.20 MM	7.20 MM	1791	500
DSD010M91079	DUROMASTER STUB DRILL 7.30 MM	7.30 MM	1791	500
DSD010M91080	DUROMASTER STUB DRILL 7.40 MM	7.40 MM	1791	500

## STUB DRILLS

MATERIAL CODE	ITEM DESCRIPTION	SIZE	LIST PRICE (RS.) PER 10 PCS	MOQ
DSD010M91081	DUROMASTER STUB DRILL 7.50 MM	7.50 MM	1791	500
DSD010I91082	DUROMASTER STUB DRILL 19/64"	19/64"	1944	500
DSD010M91083	DUROMASTER STUB DRILL 7.60 MM	7.60 MM	1944	500
DSD010M91084	DUROMASTER STUB DRILL 7.70 MM	7.70 MM	1944	500
DSD010M91085	DUROMASTER STUB DRILL 7.80 MM	7.80 MM	1944	500
DSD010M91086	DUROMASTER STUB DRILL 7.90 MM	7.90 MM	2400	500
DSD010I91087	DUROMASTER STUB DRILL 5/16"	5/16"	2400	500
DSD010M91088	DUROMASTER STUB DRILL 8.00 MM	8.00 MM	2400	500
DSD010M91089	DUROMASTER STUB DRILL 8.10 MM	8.10 MM	2400	300
DSD010M91090	DUROMASTER STUB DRILL 8.20 MM	8.20 MM	2400	300
DSD010M91091	DUROMASTER STUB DRILL 8.30 MM	8.30 MM	2744	300
DSD010I91092	DUROMASTER STUB DRILL 21/64"	21/64"	2744	300
DSD010M91093	DUROMASTER STUB DRILL 8.40 MM	8.40 MM	2744	300
DSD010M91094	DUROMASTER STUB DRILL 8.50 MM	8.50 MM	2744	300
DSD010M91095	DUROMASTER STUB DRILL 8.60 MM	8.60 MM	2744	300
DSD010M91096	DUROMASTER STUB DRILL 8.70 MM	8.70 MM	2744	300
DSD010I91097	DUROMASTER STUB DRILL 11/32"	11/32"	2890	300
DSD010M91098	DUROMASTER STUB DRILL 8.80 MM	8.80 MM	2890	300
DSD010M91099	DUROMASTER STUB DRILL 8.90 MM	8.90 MM	2890	300
DSD010M91100	DUROMASTER STUB DRILL 9.00 MM	9.00 MM	2890	300
DSD010M91101	DUROMASTER STUB DRILL 9.10 MM	9.10 MM	2897	300
DSD010I91102	DUROMASTER STUB DRILL 23/64"	23/64"	2897	300
DSD010M91103	DUROMASTER STUB DRILL 9.20 MM	9.20 MM	2897	300
DSD010M91104	DUROMASTER STUB DRILL 9.30 MM	9.30 MM	2897	300
DSD010M91105	DUROMASTER STUB DRILL 9.40 MM	9.40 MM	2897	300
DSD010M91106	DUROMASTER STUB DRILL 9.50 MM	9.50 MM	2897	300
DSD010I91107	DUROMASTER STUB DRILL 3/8"	3/8"	3398	300
DSD010M91108	DUROMASTER STUB DRILL 9.60 MM	9.60 MM	3398	300
DSD010M91109	DUROMASTER STUB DRILL 9.70 MM	9.70 MM	3398	300
DSD010M91110	DUROMASTER STUB DRILL 9.80 MM	9.80 MM	3398	300
DSD010M91111	DUROMASTER STUB DRILL 9.90 MM	9.90 MM	3756	300
DSD010I91112	DUROMASTER STUB DRILL 25/64"	25/64"	3756	300
DSD010M91113	DUROMASTER STUB DRILL 10.00 MM	10.00 MM	3756	300
DSD010M91114	DUROMASTER STUB DRILL 10.10 MM	10.10 MM	4073	100
DSD010M91115	DUROMASTER STUB DRILL 10.20 MM	10.20 MM	4073	100
DSD010M91116	DUROMASTER STUB DRILL 10.30 MM	10.30 MM	4073	100
DSD010I91117	DUROMASTER STUB DRILL 13/32"	13/32"	4073	100
DSD010M91118	DUROMASTER STUB DRILL 10.40 MM	10.40 MM	4073	100
DSD010M91119	DUROMASTER STUB DRILL 10.50 MM	10.50 MM	4073	100
DSD010M91120	DUROMASTER STUB DRILL 10.60 MM	10.60 MM	4359	100



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## STUB DRILLS

MATERIAL CODE	ITEM DESCRIPTION	SIZE	LIST PRICE (RS.) PER 10 PCS	MOQ
DSD010M91121	DUROMASTER STUB DRILL 10.70 MM	10.70 MM	4359	100
DSD010I91122	DUROMASTER STUB DRILL 27/64"	27/64"	4359	100
DSD010M91123	DUROMASTER STUB DRILL 10.80 MM	10.80 MM	4359	100
DSD010M91124	DUROMASTER STUB DRILL 10.90 MM	10.90 MM	4359	100
DSD010M91125	DUROMASTER STUB DRILL 11.00 MM	11.00 MM	4359	100
DSD010M91126	DUROMASTER STUB DRILL 11.10 MM	11.10 MM	4505	100
DSD010I91127	DUROMASTER STUB DRILL 7/16"	7/16"	4505	100
DSD010M91128	DUROMASTER STUB DRILL 11.20 MM	11.20 MM	4505	100
DSD010M91129	DUROMASTER STUB DRILL 11.30 MM	11.30 MM	4505	100
DSD010M91130	DUROMASTER STUB DRILL 11.40 MM	11.40 MM	4505	100
DSD010M91131	DUROMASTER STUB DRILL 11.50 MM	11.50 MM	4505	100
DSD010I91132	DUROMASTER STUB DRILL 29/64"	29/64"	4505	100
DSD010M91133	DUROMASTER STUB DRILL 11.60 MM	11.60 MM	5049	100
DSD010M91134	DUROMASTER STUB DRILL 11.70 MM	11.70 MM	5049	100
DSD010M91135	DUROMASTER STUB DRILL 11.80 MM	11.80 MM	5049	100
DSD010M91136	DUROMASTER STUB DRILL 11.90 MM	11.90 MM	5049	100
DSD010I91137	DUROMASTER STUB DRILL 15/32"	15/32"	5049	100
DSD010M91138	DUROMASTER STUB DRILL 12.00 MM	12.00 MM	5049	100
DSD010M91139	DUROMASTER STUB DRILL 12.10 MM	12.10 MM	5592	100
DSD010M91140	DUROMASTER STUB DRILL 12.20 MM	12.20 MM	5592	100
DSD010M91141	DUROMASTER STUB DRILL 12.30 MM	12.30 MM	5592	100
DSD010I91142	DUROMASTER STUB DRILL 31/64"	31/64"	5592	100
DSD010M91143	DUROMASTER STUB DRILL 12.40 MM	12.40 MM	5592	100
DSD010M91144	DUROMASTER STUB DRILL 12.50 MM	12.50 MM	5592	100
DSD010M91145	DUROMASTER STUB DRILL 12.60 MM	12.60 MM	6160	100
DSD010I91146	DUROMASTER STUB DRILL 1/2"	1/2"	6160	100
DSD010M91147	DUROMASTER STUB DRILL 12.70 MM	12.70 MM	6160	100
DSD010M91148	DUROMASTER STUB DRILL 12.80 MM	12.80 MM	6160	100
DSD010M91149	DUROMASTER STUB DRILL 12.90 MM	12.90 MM	6160	100
DSD010M91150	DUROMASTER STUB DRILL 13.00 MM	13.00 MM	6160	100



# PRECISION REDEFINED

EXPLORE THE WIDE CUTTING TOOL RANGE



**CarboMach**



*Kushal Karigaron Ki Pasand*



## QUALITY POLICY

We at ITM are committed to manufacture Quality Cutting Tools by continual improvements in process, by adapting our skills, knowledge, innovation & creativity and by implementation of quality systems through involvement of all employees.

We shall strive to achieve Customer's satisfaction through continual improvements in

**TIMELY DELIVERY OF QUALITY  
PRODUCTS AND SERVICES.**



**VEDANT BIRLA**  
Chairman



## CERTIFICATE

Management system as per  
**ISO 9001 : 2015**

The Certification Body TÜV NORD CERT GmbH hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

**INDIAN TOOL MANUFACTURERS  
(DIVISION OF BIRLA PRECISION TECHNOLOGIES LTD)  
Plant I : 62/63, MIDC, Satpur, Nashik - 422 007  
Plant II : B-15/3/1, MIDC, Waluj,  
Aurangabad - 431 133,  
Maharashtra,  
India**



operates a management system in accordance with the requirements of ISO 9001 : 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope -

**Plant I : Design, Manufacture and Supply of Drills, Cutters, Reamers,  
Taps and Masonry Drills.  
Plant II : Manufacture and Supply of Drills, Taps and Tool Bits.**

<small>Certificate Registration No.44 100 020841 Audit Report No.2.5-0430/2002</small>	<small>Valid from 14.06.2023 Valid until 30.05.2026 Initial certification 17.05.2002</small>
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Certification Body  
at TÜV NORD CERT GmbH

TÜV NORD CERT GmbH      Am TÜV 1

TÜV India Pvt. Ltd., 801, Raheja Plaza – 1, L.B.S. Marg,      Ghatkopar (W), Mumbai - 400 086, India      [www.tuv-nord.com/in](http://www.tuv-nord.com/in)

Mumbai, 14.06.2023

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# BPT

## BIRLA PRECISION

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### REGISTERED OFFICE

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Largest range of HSS Cutting Tools

#### Note:

- Prices are subject to change without prior notice and are based on current input costs.
- Listed prices apply to standard products only; applicable taxes will be charged extra.
- Prices are quoted on an F.O.R. (Free on Road) destination basis.
- This price list is effective from 01/08/2025.

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**CUSTOMER CARE**  
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