



Tools for **m**ICRO **m**ACHINING

HOLE MAKING TOOLS

Proudly
Made In
INDIA
Since 1989

In-House
PVD Coatings
optimized for
Micro Tools

AXIS+
Cutting Tools with
Super Finishing
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X
Diamond
Coated



*Wide Range
Easy Availability
Application Support
Tools for diverse materials
Now with In-house PVD coating*

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Description	Dia Range	Shank Dia	Article	Applications
IND_{RILL} Aluminium	1.00 - 12.00	3.0 / 4.0 / 6.0 8.0 / 10.0 / 12.0	T6401	Aluminium, Plastics
IND_{RILL} CFRP and Graphite	0.50 - 5.95	3.0 / 4.0 / 6.0	T6601	CFK, GFK, Graphite and Plastics with Fillers
IND_{RILL} Coolant Hole	0.80 - 12.00	3.0 / 6.0 / 8.0 10.0 / 12.0	H2101	High speed and high accuracy drilling of steel, Inconel and Nickel Alloy materials
IND_{RILL} Coolant Hole	0.85 - 5.95	3.0 / 4.0 / 6.0	H2131	High speed and high accuracy drilling of Stainless Steel and other hardened materials
IND_{RILL} Three Flutes	0.15 - 12.00	3.0 / 4.0 / 6.0 8.0 / 10.0 / 12.0	T0611	Ferrous and non ferrous materials with higher dimensional accuracy
High Performance Drills	0.50 - 12.00	3.0 / 4.0 / 6.0 8.0 / 10.0 / 12.0	T2101	Inconel, hardened and high alloyed steel
Deep Hole Drills	3.00 - 12.00	3.0 / 4.0 / 6.0 8.0 / 10.0 / 12.0	H2201	Suitable for deep hole drilling
Reinforced Shank Drills	0.020 - 3.00	3.0	T6961	Universal Drilling
Reinforced Shank Drills DIN 1899A	0.030 - 1.49	1.0 / 1.5	T6981	Universal Drilling
NC Point Drills 90° / 120° / 142°	0.050 - 6.00	3.0 / 4.0 / 5.0 6.0	T5811 / T5801 T1801	Center drilling for small and micro holes for subsequent precision drilling
Spade Drills	0.30 - 6.00	1.0 / 1.5 / 2.0 3.0 / 4.0 / 6.0	T2001	Spot drilling and very shallow holes in foils, Brass, Titanium, Platinum, Aluminium and Plastics
Half Moon Drills	0.30 - 6.00	1.0 / 1.5 / 2.0 3.0 / 4.0 / 6.0	T9801	Spot drilling and very shallow holes in foils, Brass, Titanium, Platinum, Aluminium and Plastics
Plastic Drills	0.010 - 0.100	3.00	T7391	For drilling in plastic materials
Jobber Drills DIN 338 Stub Drills DIN 6539	0.50 - 16.00	Parallel Shank	T8321 T7321	Ferrous and non ferrous materials
Sweep Cut Drills	1.00 - 12.00	3.0 / 4.0 / 6.0 8.0 / 10.0 / 12.0	T5991	Burr free hole exit in ferrous and non ferrous material

ALSO AVAILABLE

- Center Drills for Precision Guidance
- Multi Step / Counter Drills
- Left Hand Drills
- Straight Flute Drills
- Special Drills for Exotic Materials

Also available



Standard Drill



IND_{RILL}
Aluminium



Webthinned
Drill




IND_{RILL} High
Performance

Coated tools also available

All dimensions are in mm

Diameter upto 20.0 mm on request

Description	Dia Range	Shank Dia	Article	Applications
Super Long Drills	3.00 - 12.00	3.00/ 4.00/ 6.00 8.00/ 10.00/ 12.00	H3201	Deep hole drilling in ferrous and non ferrous material
Standard Flute Length Drills	0.020 - 3.00	3.0	T4861	Standard range of drills suitable for precision holes
Longer Flute Length Drills	0.030 - 3.00	3.0	T4871	Standard range of drills for high precision deep hole drilling
Drills for Stainless Steel	0.10 - 3.00	3.0	T6821	Standard range drills with web thinning for low axial forces while drilling stainless steel
Short Flute Length Drills	0.10 - 3.00	3.0	T4841	Standard range drills with shorter flute length geometry similar to T6821
Longer Flute Length Drills	0.10 - 3.00	3.0	T4851	Standard range drills with longer flute length geometry similar to T6821
Drills with 1mm Shank	0.05 - 0.99	1.0	T4761	Standard range of drills with 1mm shank
Drills for Suture needles	0.20 - 1.50	1.00 / 1.50	T6991	Stainless steel SS302
Drills for Writing instruments	0.25 - 1.30	1.00/1.50	T0411 / T0421	Stainless steel, Brass, Nickel, Silver
Drills for Hardened Steel	0.10 - 1.00	4.00	T7931	Hardened steel application
CFRP Special Profile Drills 	0.50 - 12.00	6.0 / 8.0 10.0 / 12.0	T4601	CFK, GFK, Graphite and Plastics with Fillers
High Performance Reamer	0.90 - 16.00 Tol. ± 0.0015	3.0 / 4.0 / 6.0 / 8.0 10.0 / 12.0 / 16.0	R8011 / R8001 R8041	Ferrous and non-ferrous materials with close hole tolerance
High Performance Reamer with Coolant	0.90 - 16.00 Tol. ± 0.0015	3.0 / 4.0 / 6.0 / 8.0 10.0 / 12.0 / 16.0	H8011 / H8001 H8041	Ferrous and non-ferrous materials with close hole tolerance
Reamers	0.90 - 16.00	3.0 / 4.0 / 6.0 / 8.0 10.0 / 12.0 / 16.0	R9031 / R9011 R9001 / R9041	Ferrous and non-ferrous materials
Reamers with Coolant Hole	0.90 - 16.00	3.0 / 4.0 / 6.0 / 8.0 10.0 / 12.0 / 16.0	H9031 / H9011 H9001 / H9041	Ferrous and non-ferrous materials

Special Drills



Corner Chamfer Drills



Sweep Cut Drills



Counter Sunk Drills



Step Drills

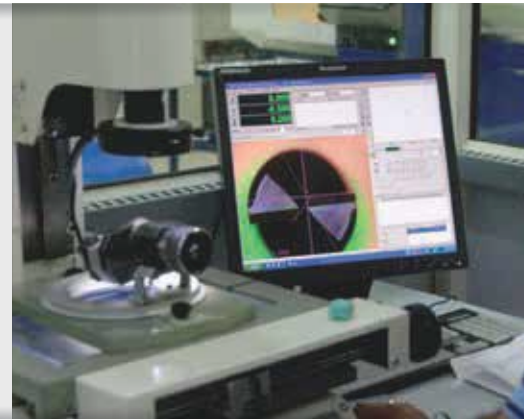


Half Moon Drill



Super Finishing Drills





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