

PRODUCT P O R T F O L I O

WHERE PRECISION MEETS PERFECTION



COMPANY OVERVIEW

CTC Group, comprising four esteemed brands **CTC India**, **CTC Praezision**, and **Kemmer Präzision & ATS**, is a globally recognised name in precision-engineered cutting tools. Established in 1983 as a manufacturer of tungsten carbide tools for the global printed circuit board (PCB) industry, CTC has evolved over four decades into an industry leader. From an initial production of just 10,000 tools per year, we now have the capacity to manufacture over 20 million tools annually.

Our cutting-edge tools, ranging from **±0.03mm (30 µm) to 40mm in diameter** with various shank configurations, serve a diverse range of industries, including **Semiconductor, 3C Smart Devices, Fixture & Die-Mold, Aerospace, Dental, Medical, PCB, Energy, Watchmaking, Beauty and General Engineering**.

With a highly skilled team of **500+ professionals** and a state-of-the-art manufacturing setup featuring **250+ high-precision** Swiss machines, we cater to key markets across India, the USA, China, Japan, Middle East, APAC region and the European Union.

Our mission is to establish a sustainable footprint in the precision metal cutting, PCB and dental markets by delivering exceptional quality at optimal cost, driven by continuous innovation, process excellence, and an uncompromising commitment to precision.

Kemmer
Incorporated

1954

CNC Machines

225+

Employees

500+

Annual Capacity

20M+

INDUSTRY WE SERVE



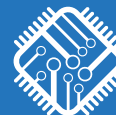
3C



Automotive



Medical/Dental



PCB



Aerospace



Ship Building



Defence



Energy



Jewellery



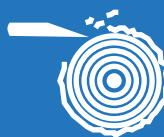
Beauty



Fixture & Die-Mould



Graphite



Wood



Pen



Textile

KEMMER PRÄZISION

A **CTC** COMPANY

Kemmer Präzision: A trusted German-origin brand with over 70 years of expertise and is a leading provider of high-precision carbide tools for the medical, PCB, beauty and general engineering industries. We deliver high-quality drilling, milling, chamfering and other machining solutions that enhance accuracy and efficiency.

PRAEZISION

———— **CTC** ————

CTC Praelzision: A significant player in industrial cutting tools market, specializing in micro tools and delivering precision-engineered, high-performance solutions for all industrial applications.

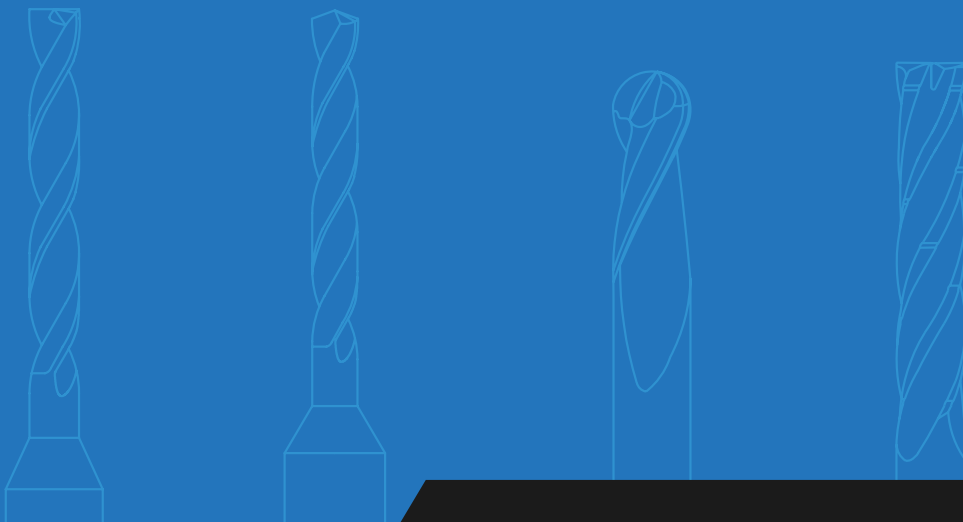
CTC INDIA

CTC India: One of the largest international OEM cutting tools manufacturing company with over four decades of experience designing tools for the dental and PCB industries, delivering precision-engineered, high-performance solutions that meet the most demanding industry standards.

ATS

A **CTC** COMPANY

Alignment Tools Singapore: With over 30 years of expertise, ATS is a leading precision cutting tool manufacturer based in the Far East, now part of the CTC Group. Specializing in advanced PCD tooling and custom form-tools for electronics, aerospace, and automotive sectors, ATS delivers high-performance solutions using Swiss and German CNC machines with ± 0.001 mm tolerance.



DRILL

NANO / MICRO DRILLS

FEATURES

- Extreme accuracy & high manufacturing speed.
- Strong geometry, smooth flute form, and reliable high-quality hole.
- Comes with Wear-resistant PVD coating.
- Precision tolerances: Micro drills can have tolerances down to 1 micron.
- Increased tool life

FUNCTIONS & BENEFITS

- Universal Geometry can be used on variety of materials
- High Productivity

POINT ANGLE

D11 :130 Degree ;

D50: 140 Degree

RANGE

Metric : 0.030 to 3.00 mm

Imperial : 0.001" to 0.11"

SERIES

D11, D50



COOLANT HOLE DRILL

FEATURES

- Reinforced core Geometry for high feed rate:
- Dissipate heat and evacuate chips from the cutting zone
- Nano grain fine carbide raw material
- Mirror like polished surface for better chip evacuation

FUNCTIONS & BENEFITS

- Stable Core for lower breakage and rejection rate
- Superior Chip evacuation with flute design
- Avoid chip jamming, especially in long chipping material

POINT ANGLE

140 Degree

RANGE

Metric : 1 to 20 mm

Imperial : 1/64" to 1"

SERIES

D96 (4XD) ; D97 (6XD); D98 (8XD)



TWIST DRILL

FEATURES

- Superior Surface Treatment
- High Performance Coating
- Nano grain fine carbide raw material
- Edge Prep to suit width work material range

FUNCTIONS & BENEFITS

- Stable Cutting Edge
- Universal geometry
- Reinforced shank for better stability

POINT ANGLE

D50: 140 Degree

RANGE

Metric : 1 to 20 mm

Imperial : 1/64" to 1"

SERIES

D26 (4XD); D27(6XD)



STRAIGHT SHANK DRILL

FEATURES

- Designed for wide range of material
- Without Margin reduces friction & heat
- Optimized design ensures free chip flow at the centre of the drill

FUNCTIONS & BENEFITS

- Superior raw material
- Versatility uses in Steel, Cast Iron, Non-ferrous

POINT ANGLE

118 Degree

RANGE

Metric : 1 to 20 mm

Imperial : 1/64" to 1"

SERIES

D51 (3XD), D52 (5XD)



DRILL

NC POINTING DRILL

FEATURES

- Pre-centre Drilling operation, positioning accuracy & aligning
- Short flute length for stability & minimizing deflection

FUNCTIONS & BENEFITS

- Perfectly suitable for High Speed machining
- Available with different Point angle
- Superior Hole quality

POINT ANGLE

60 Degree & 90 Degree

RANGE

Metric : 0.1 to 20 mm

Imperial : 1/64" to 1"

SERIES

D60 (60 Degree) , D63 (90 Degree)



3 FLUTE DRILL

FEATURES

- 3 Flute Design allows 50% higher feed rates compared to traditional drills
- Flat bottom geometry allows ideal for drill cavities
- Self-centre geometry no need for pilot drills

FUNCTIONS & BENEFITS

- Increased productivity
- 3 coolant holes allows maximum coolant flow and efficiently chip evacuation

POINT ANGLE

130 & 140 Degree

RANGE

Metric : 0.2 to 20 mm

Imperial : 1/64" to 1"

SERIES

D66



STEP DRILL

FEATURES

- Available with single & double margins for better stability
- Helical or Straight flute with flute design for better chip evacuation & cutter efficiency
- Solid & thru coolant options

FUNCTIONS & BENEFITS

- Application specific geometries
- Versatility of single diameter or multiple stepped diameters allows drilling holes of various sizes
- Edge preparation for longer tool life.

POINT ANGLE

120 & 130 Degree

RANGE

Metric : 0.5 to 6.0 mm

Imperial : 1/64" to 1/4"

SERIES

D21



CENTER DRILL

FEATURES

- Accurately centre a hole for reference point
- Nano grade fine carbide enhancing durability & heat resistance

FUNCTIONS & BENEFITS

- Excellent tool life
- Creates seating area for live centres of lathe, milling machine, cylindrical grinders

POINT ANGLE

60, 90, 120 Degree

RANGE

Metric : 0.2 to 20 mm

Imperial : 1/64" to 1"

SERIES

D05



DRILL

LEFT HELIX TWIST DRILL

FEATURES

- Nano grain fine carbide raw material
- Universal geometry
- Strong core for better tool life

FUNCTIONS & BENEFITS

Optimum Flute design for efficient chip evacuation

POINT ANGLE

118 Degree and 130 Degree

RANGE

Metric : 0.5 to 20 mm
Imperial : 1/64" to 1"

SERIES

D12



SPADE DRILL

FEATURES

- Excellent Productivity

POINT ANGLE

118 Degree and 130 Degree

RANGE

Metric : 0.2 to 20 mm
Imperial : 1/64" to 1"

SERIES

D71



DRILL FOR ALUMINUM

FEATURES

- Ensures exceptional rigidity & durability during drilling
- Micro grain carbide provides excellent wear resistance

FUNCTIONS & BENEFITS

- Excellent hole finish for Aluminium & Its alloys
- Flute Design ensures efficient chip removal

POINT ANGLE

118 Degree

RANGE

Metric : 0.2 to 20 mm
Imperial : 1/64" to 1"

SERIES

D81



STRAIGHT FLUTE DRILL

FEATURES

- Zero Helix Angle don't pull in the material being drill
- Precise and accurate hole creation

FUNCTIONS & BENEFITS

- Works excellent on the material gentle handling due to their thin cross-section.
- Workpiece material Metal, Plastics & Wood

POINT ANGLE

130 Degree

RANGE

Metric : 0.5 to 20 mm
Imperial : 1/64" to 1"

SERIES

D05



ENDMILL

VERSATILE ENDMILLS FOR STEEL, STAINLESS STEEL & HIGH TEMPERATURE ALLOYS

FEATURES

- High Performance Geometry
- Ultra fine Carbide Raw material
- Variable Helix & Variable Flute
- Strong Core Geometry
- New Generation Coating

FUNCTIONS & BENEFITS

- High Productive
- Excellent Surface finish
- Higher MMR

RANGE

Metric : 0.5 to 20 mm

Imperial : 1/64" to 1"

SERIES

4 Flute – E51- Square end; E49 Corner radius ; E50 Corner Chamfer

5 Flute – E45 -Square end ; E48 Corner radius ; E52 Corner Chamfer

6 Flute- E61 Square end ; E63 Corner radius

7 Flute E72 Corner Radius



ENDMILL FOR PH STAINLESS STEEL & TITANIUM ALLOYS

FEATURES

- High Grade Carbide
- New Generation Coating
- Available with Neck options
- High Productivity

FUNCTIONS & BENEFITS

- Operates at High cutting speed
- Geometry suitable for high MRR
- Low cutting forces

RANGE

Metric : 1 to 20 mm

Imperial : 3/64" to 1"

SERIES

4 Flute – E301- Square end;

E300 Corner radius



ROUGHER

FEATURES

- Centre cut
- Superior Coating
- Sinusoidal Pitch

FUNCTIONS & BENEFITS

- Superior tool life
- High Parameter
- Suitable for high speed cutting

RANGE

Metric : 1 to 20 mm

Imperial : 3/64" to 1"

SERIES

5 Flute Endmill with Chip Breaker (E70)

4 Flute Rougher Endmill (E44)



ENDMILL

BALL NOSE

FEATURES

- Variable helix & Variable Flute
- Controlled Ball Tolerance
- Superior micro grade carbide

FUNCTIONS & BENEFITS

- Optimized coating for better tools life
- Operates at high cutting speed

RANGE

Metric : 1 to 20 mm
Imperial : 0.02" to 1"

SERIES

B33



GENERAL PURPOSE ENDMILLS

FEATURES

- Excellent tool for variety of material
- Special raw material with optimum balance between hardness & toughness
- High Performance Coating

FUNCTIONS & BENEFITS

- Value for money
- Suitable for Steel, Stainless Steel, Cast Iron, Aluminium
- Available in Square, Corner Radius and Corner Chamfer

RANGE

Metric : 1 to 20 mm
Imperial : 0.02" to 1"

SERIES

4 Flute E33 -Square end;
4 Flute E34- Corner Radius
4 Flute E74- Corner Chamfer



AL/ NON-FERROUS ENDMILL

FEATURES

- Centre Cutting
- Higher MRR
- Superior Micro fine grain Carbide
- 1, 2 and 3 flute options

FUNCTIONS & BENEFITS

- Excellent for Roughing & finishing
- Higher MRR
- Excellent surface finish
- HP Coating available

RANGE

Metric : 0.1 to 20 mm
Imperial : 0.004" to 1"

SERIES

1 Flute : E00 Square ; E01 Square with Multi relief & Lap finish
2 Flute : E16 Square ; B03 Ball Nose
3 Flute : E81 Square, E82 Coner Radius; B15 Ball Nose
2 & 3 Flute E83 Rougher



TAPER ENDMILL

FEATURES

- Precise and intricate cuts
- Better accessibility and efficient chip removal, particularly in deep or narrow slots.
- Improved surface finish, and higher feed rates.

FUNCTIONS & BENEFITS

- Suitable for variety of material
- Variety of applications & workpiece material
- Available in various sizes, taper angles, and lengths

RANGE

Metric : 0.2 to 16mm
Imperial : 0.004" to 5/8"

SERIES

2 Flute : E12
4 Flute : E32



REAMER

FEATURES

- Superior Raw material
- Left hand helix -Right hand cutting
- Round to ISO H7 tolerance for most common applications
- High Performance coating & lead chamfer for High-Speed Machining
- Available with Left Hand Helix, Right Hand Helix and Straight Flute

FUNCTIONS & BENEFITS

- Higher productivity
- Longer tool life improved hole quality
- Versatile Applications in various operations like hole enlargement, deburring, and finishing operations.

RANGE

Metric : 0.5 to 20mm
Imperial : 1/64 " to 1"

SERIES

- Left Hand Helix M44
- Right Hand Helix M55
- Straight Flute M32
- Straight Flute with undercut M33



ENGRAVERS

CONICAL ENGRAVING TOOL

FEATURES

- Engrave the widest range of material from Soft Plastic to Steel
- Made from Premium Solid Carbide,
- Different shank diameters, Overall lengths, included angles and tip off widths are available.
- Multiple material application from soft Plastics, Woods, Brass, Aluminum, to harder materials such as Steels, Stainless Steel, Hard Woods and more.

FUNCTIONS & BENEFITS

- Multiple Shank Diameter both in Imperial & Metric
- Included Angle : 40, 45, 60 and 90
- Both coated & uncoated options

RANGE

- Overall length : 2" , 3" , 4.5" , 6.5" and metric 50mm
- Tip Widths: .0019" – .039" and metric sizes 0.050 mm – 1.0 mm.



SINGLE FLUTE CONICAL BALL NOSE ENGRAVER

FEATURES

- Solid Carbide, Single Flute Conical Ball Nose Engraving Tools with a radius tip that produces a cut with a rounded bottom.
- Use for standard engraving of letters, lines on a wide range of materials, from soft Plastics, Wood and Aluminum to harder materials such as Steel and Stainless Steel.
- Excellent to use for 3D engraving and reverse engraving of Acrylic.

FUNCTIONS & BENEFITS

- Solid Carbide: Produced from premium, ultra-fine nano grade carbide for maximum tool strength.
- Multiple Shank Diameter both in Imperial & Metric
- Included Angles: 30° & 60°.

RANGE

- Overall Lengths: 2.0", 4.5", 6.5", and metric 50 mm.
- Tip Widths: .003" – .040", and metric sizes 12 mm – .50 mm.

ENGRAVERS

ENGRAVING-CHAMFERING TOOLS

FEATURES

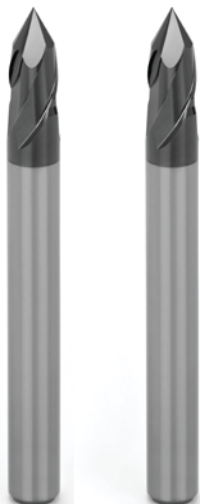
- Multi application for chamfering, engraving, spot drilling and countersinking.
- Produced from premium, ultra-fine nano grade carbide for maximum tool strength.
- Extremely durable.

FUNCTIONS & BENEFITS

- Included Angles: 60°, 82°, 90° & 100°.
- Available in various shank diameter
- Use on a wide range of materials from soft Plastics, Aluminum to Steels.

RANGE

- Overall Lengths: 2.0", 3.0", 4.5", 6.5" and metric 50 mm.
- Tip Widths: .005" – .020", and metric. 0.12mm – .50 mm.



ROUTER

FEATURES

- Very precise geometries, allowing for accurate and clean cuts in fiberglass material
- Ultra fine grain carbide for superior performance

FUNCTIONS & BENEFITS

- Available with Uncoated and polished
- Also available with High Performance PVD & CVD coating

RANGE

- Metric : 2 to 12 mm
- Imperial : 1/16 to 1/2 "

SERIES

Plain End A :R020

Burr End B :R021

Mill End C : R022

Burr End D :R023



THREADMILL

FEATURES

- Available with multiple thread forms M, MF, UNC, UNF, UNEF, MJ, UNJ
- Multi & Regular tooth configuration
- Solid & Coolant Hole options
- Single Tooth Partial Profile

FUNCTIONS & BENEFITS

- high precision and dimensional accuracy
- versatile suitable for various industries and applications.
- High Quality threads
- Low cycle time & High Productivity

SERIES

E665

E660



CHAMFER TOOL

FEATURES

- Available in a variety of angles, including 45 degrees, 60 degrees, and 90 degrees
- Ultra fine grain carbide for superior performance

FUNCTIONS & BENEFITS

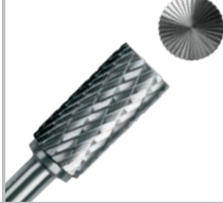
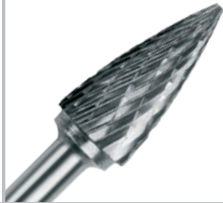
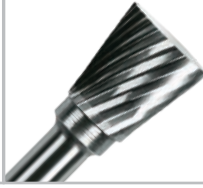
- High Performance Coating
- Excellent tool for variety of material

RANGE

Metric 3 to 16mm

Imperial 0.1" to 0.62"



Cone  SM SKM	Cylindrical with radius end  SC WRC	Cylindrical without end cut  SA ZYA	Cylindrical with end cut  SB ZYAS
Flame  SH SHF	Cone with Radius  SL KEL	Ball  SD KUD	Tree Shape with Point End  SG SPG
Tree Shape with Radius End  SF RBF	Oval  SE TRE	Rim  RIM	Inverted Cone  SN

Workpiece Material	Workpiece Material groups		Cut Type			
			Single Cut	Double Cut	Diamond Cut	Alu Cut
Steel (P)	Non Hardened, non heat treated steel upto 1200 N/mm ² (<35 HRC)	Constructional Steels, Carbon Steel, Tool Steels, Non Alloyed Steels, Case Hardened Steels, Steel Casting	✓	✓		
	Hardened, Heat treated steels exceeding 1200 N/mm ² (>35 HRC)	Tool Steels, Tempering Steels, Alloyed Steels, Steel Casting	✓	✓		
Stainless Steel (M)		Austenitic and Ferritic High Grade Steels			✓	
Non-Ferrous Metals (N)	Soft Non-Ferrous Metals	Aluminium Alloys, Brass, Copper, Zinc				✓
						✓
	Hard Non-Ferrous Metals	Bronze, Titanium/Titanium Alloys, Very Hard Aluminium Alloys (High Si content)	✓	✓		
					✓	
Cast Iron (K)	Heat Resistant Alloys	Nickel based Alloys, NiCo Alloys (Aircraft engine and turbine construction)	✓	✓		
		Grey Cast Iron, Spheroidal Graphite Cast Iron	✓	✓		
Plastic /Other Materials						✓
		Fiber Reinforced Plastic, Thermoplastics Hard Rubber				✓



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