

Global Micro PCB Drills Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Micro PCB Drills market size was valued at US\$ 498 million in 2025 and is forecast to a readjusted size of US\$ 839 million by 2032 with a CAGR of 8.2% during review period.

Micro PCB drill bits refer to precision micro-drills made of cemented carbide?typically featuring a drilling diameter of 0.45 mm or less?that are utilized for the mechanical drilling of printed circuit boards. They are primarily employed in the processing of micro-vias, through-holes, and interconnect vias within PCBs, HDI boards, IC carrier boards, and high-layer-count boards. These products typically utilize a substrate of micro-crystalline or ultra-fine-grained tungsten carbide; they are required to exhibit high precision in hole positioning, superior cutting-edge strength, efficient chip evacuation capabilities, strong resistance to runout, and effective control over bit breakage.

The upstream sector primarily comprises tungsten carbide powder, cobalt powder, cemented carbide micro-rods, coating materials, positioning rings, and packaging materials; among these, cemented carbide micro-rods serve as the core raw material that determines the drill bit's strength, toughness, wear resistance, and stability during small-diameter machining. The midstream sector encompasses micro-drill forming, precision grinding, cutting-edge profiling, coating application, inspection, and sorting. The downstream sector consists of manufacturers of PCBs, HDI boards, IC carrier boards, and high-layer-count boards.

In 2025, the global sales volume of micro PCB drill bits is projected to reach approximately 2.2 billion units, with an average selling price ranging from \$0.21 to \$0.23 per unit; the gross profit margins for major industry manufacturers are expected to

range between 35% and 45%.

This report is a detailed and comprehensive analysis for global Micro PCB Drills market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Micro PCB Drills market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Micro PCB Drills market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Micro PCB Drills market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Micro PCB Drills market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Micro PCB Drills

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Micro PCB Drills market based on the following parameters - company overview, sales quantity, revenue, price, gross margin,

product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Union Tool, KYOCERA Precision Tools, HAM Precision, IND-SPHINX Precision, CTC India, Guangdong Dtech Technology, Jinzhou Precision Technology, Topoint Technology, T.C.T. Group, Key Ware Electronics, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Micro PCB Drills market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

0.20 mm?D?0.45 mm

0.10 mm?D?0.20 mm

D?0.10 mm

Market segment by Surface Condition

Bright-Finish Drills

Coated Drills

Market segment by Application

HDI Boards

IC Substrates

Multilayer PCBs

Flexible & Rigid-Flex Boards

Others

Major players covered

Union Tool

KYOCERA Precision Tools

HAM Precision

IND-SPHINX Precision

CTC India

Guangdong Dtech Technology

Jinzhou Precision Technology

Topoint Technology

T.C.T. Group

Key Ware Electronics

Chong Qing Kanzasin Technology

Tungaloy

Xiamen Xiazhi Technology Tool

Tera Auto Corporation

Xinxiang Good Team Electronics

Zhongde Nanomicro Technology

AOSHITOOL

Yichang Josn Seiko Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Micro PCB Drills product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Micro PCB Drills, with price, sales quantity, revenue, and global market share of Micro PCB Drills from 2021 to 2026.

Chapter 3, the Micro PCB Drills competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Micro PCB Drills breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021

to 2026.and Micro PCB Drills market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Micro PCB Drills.

Chapter 14 and 15, to describe Micro PCB Drills sales channel, distributors, customers, research findings and conclusion.

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