

Global Semiconductor PCD Micro 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 Semiconductor PCD Micro Drills market size was valued at US\$ 46.37 million in 2025 and is forecast to a readjusted size of US\$ 67.40 million by 2032 with a CAGR of 5.5% during review period.

Semiconductor PCD Micro Drills are high-precision drills made of polycrystalline diamond (PCD), typically with diameters ranging from 0.1mm to 0.5mm. They are specifically designed for machining micro-holes and precision holes in semiconductor manufacturing. Compared to traditional carbide or CVD diamond tools, PCD micro drills offer higher hardness, stronger wear resistance, better thermal stability, and longer tool life, meeting the stringent requirements of semiconductor equipment, cleaning fixtures, carriers, masks, and sensors for extremely fine holes, high aspect ratio hole wall finishes, and defect control. In 2025, global shipments of Semiconductor PCD Micro Drills were estimated at approximately 91,200 units, with an average price of approximately US\$494.23-1,021.87 per unit and a gross margin of approximately 30.64-45%.

Driven by rapid growth in advanced semiconductor packaging, MEMS, sensor devices, 3DIC, AOI equipment and next-generation wafer processing, precision micro-hole drilling requirements have intensified. PCD micro drills, with their superior wear resistance and high accuracy, are essential consumables in semiconductor fixture manufacturing, cleaning jig fabrication, gas distributor plates (e.g., shower heads), microfluidic channels, and other critical micro-machining applications. Demand is supported by semiconductor capacity expansion, domestic tooling adoption, and optimized qualification processes, although the PCD micro drill market remains a

relatively small, high-value niche within the broader tooling landscape.

This report is a detailed and comprehensive analysis for global Semiconductor PCD Micro 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 Semiconductor PCD Micro Drills market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Semiconductor PCD Micro 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 Semiconductor PCD Micro 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 Semiconductor PCD Micro 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 Semiconductor PCD Micro 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 Semiconductor PCD Micro 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 Asahi Diamond, Union Tool, Telcon Diamond, TechMAC Co., Ltd., Sandvik Coromant, JoyJet Precision Limited, KYOCERA Precision Tools, Sumitomo Electric Industries, KYOWA SEIKO CO.,LTD., More SuperHard Products Co., Ltd, etc.

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

Market Segmentation

Semiconductor PCD Micro 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

0.1-0.3 mm

0.3-0.5 mm

Others

Market segment by Shank

Standard Shank

Long Shank

Extra Long

Market segment by Coated

Uncoated

TiN/TiAlN Coated

DLC Coated

Others

Market segment by Channel

Direct OEM

Distributor

Market segment by Application

Gas Distribution Plates (Shower Heads)

Wafer Cleaning Fixtures

Carrier/Test Fixtures

Microfluidic Channels

Others

Major players covered

Asahi Diamond

Union Tool

Telcon Diamond

TechMAC Co., Ltd.

Sandvik Coromant

JoyJet Precision Limited

KYOCERA Precision Tools

Sumitomo Electric Industries

KYOWA SEIKO CO.,LTD.

More SuperHard Products Co., Ltd

Wuxi Sundi Precision Tools Co.,LTD

UKAM Industrial Superhard Tools

Saehan Nanotech

Shenzhen Jinzhou Precision Technology Corp.

Guangdong Dtech Technology Co., Ltd.

Xiamen Xiazhi Precision Technology Co Ltd

Worldia Diamond Tools Co.,Ltd.

Sf Diamond

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 Semiconductor PCD Micro Drills product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Semiconductor PCD Micro 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 Semiconductor PCD Micro 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 Semiconductor PCD Micro Drills.

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

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