

Global Superhard Tools for Electronics and Semiconductor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G3AA1165FB02EN.html>

Date: August 2026

Pages: 126

Price: US\$ 3,480.00 (Single User License)

ID: G3AA1165FB02EN

Abstracts

According to our (Global Info Research) latest study, the global Superhard Tools for Electronics and Semiconductor market size was valued at US\$ 100 million in 2025 and is forecast to a readjusted size of US\$ 178 million by 2032 with a CAGR of 6.5% during review period.

In 2025, global sales volume for super-hard cutting tools used in the electronics and semiconductor industries reached 3.89 million units, with an average selling price of approximately \$25 per unit.

Superhard tools for the electronics and semiconductor industries are high-precision cutting tools made from diamond (PCD/CVD) and cubic boron nitride (PCBN) using processes such as hot pressing and chemical vapor deposition (CVD). They are specifically designed for precision machining of electronic materials such as silicon wafers, ceramic substrates, glass cover plates, and metal alloys. They meet the demand for micron-level precision and minimal surface damage in applications such as semiconductor packaging, display panel cutting, and 5G communication component manufacturing. The upstream sector is the supply of superhard materials, including PCD/PCBN composite sheets and CVD diamond films. Domestic companies such as Zhongnan Diamond and Huanghe Cyclone have achieved technological breakthroughs, ensuring a stable supply. The midstream sector is tool manufacturing, encompassing welded, indexable, and monolithic structures. Technological approaches include hot pressing, CVD deposition, and laser processing. Domestic companies already possess the production capacity for mid- to high-end tools. Downstream applications encompass semiconductor wafer manufacturing, display panel cutting, and 5G communication component processing, forming a closed loop of "materials-manufacturing-applications."

Key market drivers include the following:

Growth in the market for superhard cutting tools used in the electronics and semiconductor industries is primarily driven by the rising demand for precision machining. The processing of electronic components, semiconductor packaging, ceramic substrates, quartz glass, sapphire, silicon carbide, and other hard, brittle materials demands high standards for tool hardness, wear resistance, cutting-edge precision, and surface finish quality. Superhard cutting tools offer excellent wear resistance and dimensional stability, making them well-suited to the requirements for high precision, miniaturization, and consistent quality in electronics and semiconductor manufacturing.

Secondly, the development of new materials and advanced packaging technologies has expanded the application scope for superhard cutting tools. Materials characterized by high hardness, high brittleness, or composite structures are increasingly used in power semiconductors, RF devices, optoelectronic devices, and advanced packaging architectures; traditional cutting tools often struggle with rapid wear, edge chipping, and inconsistent processing results in these contexts. Superhard cutting tools can be utilized in processes such as cutting, chamfering, grooving, grinding, and precision forming, helping manufacturers improve processing quality and reduce losses associated with rework. Furthermore, the shift of electronics manufacturing toward high-end production and domestic substitution is driving the demand for super-hard cutting tools. Semiconductor and electronics clients place high demands on supply stability, customized designs, and rapid response capabilities; consequently, local tool manufacturers that continuously improve in areas such as material preparation, cutting-edge treatment, coating technology, and machining solutions stand a chance of entering a wider range of high-end application scenarios. Future market competition will center on tool service life, surface quality, micro-tool manufacturing capabilities, and the ability to adapt to specific customer processes.

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

Global Superhard Tools for Electronics and Semiconductor 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 Superhard Tools for Electronics and Semiconductor 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 Superhard Tools for Electronics and Semiconductor 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 Superhard Tools for Electronics and Semiconductor

- 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 Superhard Tools for Electronics and Semiconductor 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 Sumitomo, Kennametal, Mitsubishi, Mapal, Sandvik, Beijing World Diamond Tools, Iscar, Funik, Shanghai Nagoya Precision Tools, Ingersoll Cutting Tools, etc.

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

Market Segmentation

Superhard Tools for Electronics and Semiconductor 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

Cubic Boron Nitride

Diamond

Market segment by Product Form

Hot Pressed Sintering Tools

CVD Coated Tools

Laser Processing Tools

Market segment by Hardness

Below 8000 HV

8000 ~ 9000 HV

9000 ~ 10000 HV

Market segment by Application

Wafer Manufacturing

Display Panel Cutting

Component Processing

Other

Major players covered

Sumitomo

Kennametal

Mitsubishi

Mapal

Sandvik

Beijing World Diamond Tools

Iscar

Funik

Shanghai Nagoya Precision Tools

Ingersoll Cutting Tools

YG-1

Kyocera

Weihai Weiying Tools

Shenzhen Zhongtian Superhard Tools

Preziss Tool

Sifangda

CERATIZIT S.A.

Wirutex S.r.l.

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 Superhard Tools for Electronics and Semiconductor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Superhard Tools for Electronics and Semiconductor, with price, sales quantity, revenue, and global market share of Superhard Tools for Electronics and Semiconductor from 2021 to 2026.

Chapter 3, the Superhard Tools for Electronics and Semiconductor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Superhard Tools for Electronics and Semiconductor 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 Superhard Tools for Electronics and Semiconductor 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 Superhard Tools for Electronics and Semiconductor.

Chapter 14 and 15, to describe Superhard Tools for Electronics and Semiconductor sales channel, distributors, customers, research findings and conclusion.

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