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Global Superhard Tools for Metalworking 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 Superhard Tools for Metalworking market size was valued at US$ 147 million in 2025 and is forecast to a readjusted size of US$ 249 million by 2032 with a CAGR of 6.7% during review period.

In 2025, the global sales volume of superhard cutting tools for metalworking reaches 7.5 million units, with an average selling price of approximately $19 per unit.

Superhard tools for metalworking are cutting tools made from diamond (PCD/CVD) and cubic boron nitride (PCBN) using hot pressing, vapor deposition, and other technologies. They feature high hardness, high wear resistance, and low friction, enabling high-speed, high-precision, and environmentally friendly machining. The upstream of the industry chain is the supply of superhard materials, including synthetic diamonds and PCBN composite sheets. Domestic companies such as Zhongnan Diamond and Huanghe Cyclone have achieved technological breakthroughs. The midstream is tool manufacturing, covering welded, indexable, and monolithic structures, using technologies such as hot pressing and CVD deposition. Downstream applications include lightweight automotive components (such as motor housings), aerospace titanium alloy processing, electronic information display screen cutting, and new energy battery module processing, forming a closed "materials-manufacturing-application" loop.

Key market drivers include the following:

Growth in the market for super-hard cutting tools for metalworking is primarily driven by the rising demand for high-efficiency, high-precision machining in the manufacturing sector. Industries such as automotive, mold making, construction machinery, energy

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equipment, and precision components make extensive use of materials like cast iron, hardened steel, stainless steel, non-ferrous metals, and high-strength alloys, creating a need for tools with superior wear resistance, cutting efficiency, and machining stability. Super-hard cutting tools offer advantages in high-speed cutting, precision machining, and the processing of difficult-to-machine materials, helping enterprises enhance machining efficiency and product consistency.

Secondly, the drive among manufacturers to reduce costs and increase efficiency is transforming cutting tools from simple consumables into comprehensive process solutions. Although cutting tools are production consumables, they directly impact machining cycle times, equipment utilization rates, workpiece quality, and scrap rates. Super-hard cutting tools offer longer service lives and greater machining stability, reducing the frequency of tool changes and downtime?qualities well-suited for large-scale production and automated assembly lines. For enterprises prioritizing continuous production, the overall economic value of high-performance cutting tools is particularly significant.

Furthermore, the widespread adoption of CNC machine tools and the upgrading of high-end manufacturing have expanded the scope of application for super-hard cutting tools. As machining equipment evolves toward higher speeds, greater rigidity, and increased automation, conventional cutting tools struggle to fully leverage the equipment's capabilities. Manufacturers of super-hard cutting tools must provide customized solutions that address material selection, tool geometry, coating technology, and specific customer operating conditions. Future market competition will center on tool life, machining quality, delivery speed, technical support, and the depth of understanding regarding specific material processing requirements.

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

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2021-2032

Global Superhard Tools for Metalworking 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 Metalworking 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 Metalworking 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 Metalworking

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 Metalworking 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 Metalworking 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

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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

Weldable Type

Inverter Type

Integrated Type

Market segment by Hardness

1500 ~ 1800 HV

1800 ~ 2000 HV

2000 ~ 3000 HV and above

Market segment by Application

Non-Ferrous Metal Materials

Non-Metallic Materials

Major players covered

Sumitomo

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Kennametal

Mitsubishi

Mapal

Sandvik

Beijing World Diamond Tools

Iscar

Funik

Shanghai Nagoya Precision Tools

Ingersoll Cutting Tools

YG-1

Kyocera

Weihai Weiying Tools

TaeguTec

Shenzhen Zhongtian Superhard Tools

Preziss Tool

Sifangda

Tungaloy

CERATIZIT S.A.

Zhuzhou Diamond

Zhengzhou Diamond Precision Manufacturing

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Wirutex S.r.l.

Korloy

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 Metalworking product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Superhard Tools for Metalworking 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.

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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 Metalworking 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 Metalworking.

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

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