

Carbide Tools Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 – 2032

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Abstracts

The Global Carbide Tools Market, valued at USD 12.9 billion in 2023, is projected to expand at a 3.9% CAGR from 2024 to 2032. This growth is largely fueled by the shift towards automation and robotics in manufacturing, which has spiked the demand for carbide tools capable of high-speed, precision machining. With the rise of smart manufacturing, the integration of IoT technology into carbide tools is becoming standard. These advanced tools now include sensors to monitor factors such as wear, temperature, and real-time performance, enhancing efficiency and predictive maintenance. In response to growing sustainability priorities, manufacturers are adopting eco-friendly practices, focusing on recyclable materials, and working to reduce the carbon footprint associated with carbide tool production.

The carbide inserts segment, valued at USD 5.6 billion in 2023, is set to grow at 4% CAGR from 2024 to 2032. Tungsten carbide, a primary material in these inserts, offers unparalleled hardness, durability, and resistance to high temperatures, contributing to superior tool performance and longevity. This has made carbide inserts especially valuable in sectors demanding high-precision manufacturing, such as medical device production and electronics. With the push for tighter component tolerances, carbide inserts are gaining traction, significantly contributing to market growth.

In terms of application, the turning segment dominated the market, holding 44% share in 2023, and is expected to grow at a CAGR of 4.1% through 2032. Precision turning is critical for industries like aerospace, automotive, medical manufacturing, and electronics, which require carbide tools due to their hardness, wear resistance, and ability to maintain quality finishes. Carbide tools excel in processing hard-to-machine materials like stainless steel, titanium, and superalloys, further reinforcing their adoption in these high-demand sectors.

The U.S. held a 78% share of the carbide tools market in 2023, driven by key industries including aerospace, automotive, medical devices, electronics, and energy. These sectors rely on high-precision carbide tools, spurring demand for customized solutions. In response, U.S. companies are prioritizing innovation to cater to the specialized needs of these industries, further solidifying the region's leadership in the global market.

Contents

Report Content

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market scope & definitions
- 1.2 Base estimates & calculations
- 1.3 Forecast calculations.
- 1.4 Data sources
 - 1.4.1 Primary
 - 1.4.2 Secondary
 - 1.4.2.1 Paid sources
 - 1.4.2.2 Public sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry synopsis, 2021-2032

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
 - 3.1.1 Factor affecting the value chain.
 - 3.1.2 Profit margin analysis.
 - 3.1.3 Disruptions
 - 3.1.4 Future outlook
 - 3.1.5 Manufacturers
 - 3.1.6 Distributors
- 3.2 Supplier landscape
- 3.3 Profit margin analysis.
- 3.4 Key news & initiatives
- 3.5 Regulatory landscape
- 3.6 Impact forces
 - 3.6.1 Growth drivers
 - 3.6.1.1 Increasing demand for high-precision machining
 - 3.6.1.2 Rising industrialization and manufacturing activities
 - 3.6.2 Industry pitfalls & challenges
 - 3.6.2.1 High initial costs
- 3.7 Growth potential analysis

3.8 Porter's analysis

3.9 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2023

4.1 Introduction

4.2 Company market share analysis

4.3 Competitive positioning matrix

4.4 Strategic outlook matrix

CHAPTER 5 MARKET ESTIMATES & FORECAST, BY PRODUCT TYPE, 2021-2032 (USD MILLION) (THOUSAND UNITS)

5.1 Key trends

5.2 Carbide Inserts

5.3 Carbide cutting tools

5.4 Carbide tool holders

5.5 Carbide wear parts

CHAPTER 6 MARKET ESTIMATES & FORECAST, BY COATING TYPE, 2021-2032 (USD MILLION) (THOUSAND UNITS)

6.1 Key trends

6.2 PVD (Physical Vapor Deposition) coated

6.3 CVD (Chemical Vapor Deposition) coated

6.4 TiN (Titanium Nitride) coated

6.5 Uncoated

6.6 Others (Titanium Aluminum Nitride Coated, Etc)

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY APPLICATION, 2021-2032 (USD MILLION) (THOUSAND UNITS)

7.1 Key trends

7.2 Turning

7.3 Milling

7.4 Drilling

7.5 Boring

7.6 Threading

7.7 Others (Grooving Inserts, Etc)

CHAPTER 8 MARKET ESTIMATES & FORECAST, BY END USE, 2021-2032 (USD MILLION) (THOUSAND UNITS)

- 8.1 Key trends
- 8.2 Automotive
- 8.3 Aerospace & Defense
- 8.4 Construction
- 8.5 Machinery manufacturing
- 8.6 Oil & gas
- 8.7 Power generation
- 8.8 Others (Mining, Medical Equipment Manufacturing, Etc)

CHAPTER 9 MARKET ESTIMATES & FORECAST, BY REGION, 2021-2032 (USD MILLION) (THOUSAND UNITS)

- 9.1 Key trends
- 9.2 North America
 - 9.2.1 U.S.
 - 9.2.2 Canada
- 9.3 Europe
 - 9.3.1 UK
 - 9.3.2 Germany
 - 9.3.3 France
 - 9.3.4 Italy
 - 9.3.5 Spain
 - 9.3.6 Russia
- 9.4 Asia Pacific
 - 9.4.1 China
 - 9.4.2 India
 - 9.4.3 Japan
 - 9.4.4 South Korea
 - 9.4.5 Australia
- 9.5 Latin America
 - 9.5.1 Brazil
 - 9.5.2 Mexico
- 9.6 MEA
 - 9.6.1 UAE
 - 9.6.2 Saudi Arabia

9.6.3 South Africa

CHAPTER 10 COMPANY PROFILES

- 10.1 Carbide Tool Solutions
- 10.2 Ceratizit Group
- 10.3 Gühring KG
- 10.4 Hitachi Tool Engineering, Ltd.
- 10.5 Iscar Ltd.
- 10.6 Kennametal Inc.
- 10.7 Kyocera Corporation
- 10.8 Mitsubishi Materials Corporation
- 10.9 OSG Corporation
- 10.10 Sandvik Coromant
- 10.11 Seco Tools
- 10.12 Sumitomo Electric Industries, Ltd.
- 10.13 Tungaloy Corporation
- 10.14 Walter AG
- 10.15 ZCC Cutting Tools

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