

Global Diamond Resin Bond Wheel Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Diamond Resin Bond Wheel market size is expected to reach \$ 861 million by 2032, rising at a market growth of 4.6% CAGR during the forecast period (2026-2032).

Diamond resin bond wheels refer to circular bonded abrasives specially used for grinding high and hard alloys, non-metallic materials and other substances. Diamond resin bond wheels have the advantages of short production cycle, not easy to clog, high grinding efficiency, and good polishing performance. Diamond resin bond wheels are suitable for different workpiece grinding processing requirements and are suitable for different types of cutting machines and equipment. They can also be divided into various shapes. Common ones include parallel grinding wheels, bowl-shaped grinding wheels, double-sided concave grinding wheels, etc.

Upstream components primarily include synthetic diamond micron powder or single-crystal diamond abrasives; bonding agents such as phenolic or polyimide resins; fillers like copper powder, graphite, silicon carbide, and aluminum oxide; and substrates made of steel, aluminum, or resin, along with small amounts of curing agents, wetting agents, and toughening agents. Diamond grit size, strength, and coating status determine cutting sharpness and service life; the resin system dictates heat resistance, elasticity, and abrasive grain retention; and fillers regulate heat dissipation, chip evacuation, strength, and self-sharpening capabilities.

In 2025, global sales volume is projected to reach approximately 9 million units, with an average global selling price of around \$68 per unit; major manufacturers in the industry typically achieve gross margins of approximately 30%-45%.

Demand for diamond resin-bonded grinding wheels primarily stems from the processing of cemented carbide tools, ceramic components, optical glass, semiconductor materials, magnetic materials, and precision molds. Their advantages?including sharp cutting action, lower grinding temperatures, and superior surface finish?make them ideal for precision grinding and tool sharpening; consequently, they remain difficult to replace with conventional abrasives when processing hard, brittle materials. However, they have limitations regarding heat resistance, service life, and profile retention compared to metal- or ceramic-bonded wheels, making them prone to rapid wear, thermal damage, or loss of shape during continuous, heavy-load grinding operations. Future growth will be driven largely by the localization of high-end tools, the processing of hard and brittle materials (such as ceramics and semiconductors), the widespread adoption of automated CNC grinding machines, and increasing customer demand for low-damage, highly consistent grinding processes.

This report studies the global Diamond Resin Bond Wheel production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Diamond Resin Bond Wheel and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Diamond Resin Bond Wheel that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Diamond Resin Bond Wheel total production and demand, 2021-2032, (K Units)

Global Diamond Resin Bond Wheel total production value, 2021-2032, (USD Million)

Global Diamond Resin Bond Wheel production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Diamond Resin Bond Wheel consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Diamond Resin Bond Wheel domestic production, consumption, key domestic manufacturers and share

Global Diamond Resin Bond Wheel production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Diamond Resin Bond Wheel production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Diamond Resin Bond Wheel production by Application, production, value,

CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Diamond Resin Bond Wheel market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Saint-Gobain, 3M, TYROLIT, Noritake, Asahi Diamond Industrial, KINIK COMPANY, Mirka, Tokyo Diamond Tools Mfg., Klingspor, Keihin Kogyosho, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Diamond Resin Bond Wheel market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Diamond Resin Bond Wheel Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Diamond Resin Bond Wheel Market, Segmentation by Type:

Parallel Grinding Wheel

Cup Grinding Wheel

Disc Grinding Wheel

Other

Global Diamond Resin Bond Wheel Market, Segmentation by Resin Material:

Phenolic Resin

Polyimide Resin

Global Diamond Resin Bond Wheel Market, Segmentation by Diamond Concentration:

Low Concentration

High Concentration

Global Diamond Resin Bond Wheel Market, Segmentation by Application:

Electronics and Semiconductors

Tooling and Mold Manufacturing

Precision Optics

Advanced Ceramic Machining

Other

Companies Profiled:

Saint-Gobain

3M

TYROLIT

Noritake

Asahi Diamond Industrial

KINIK COMPANY

Mirka

Tokyo Diamond Tools Mfg.

Klingspor

Keihin Kogyosho

EHWA Diamond

Wendt India

ZZSM

SF Diamond

Monte-Bianco

Nanjing Sanchao Advanced Materials

Key Questions Answered:

1. How big is the global Diamond Resin Bond Wheel market?

2. What is the demand of the global Diamond Resin Bond Wheel market?
3. What is the year over year growth of the global Diamond Resin Bond Wheel market?
4. What is the production and production value of the global Diamond Resin Bond Wheel market?
5. Who are the key producers in the global Diamond Resin Bond Wheel market?
6. What are the growth factors driving the market demand?

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