

# **Abrasive Wheels Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Bonded Wheels And Super Abrasive Wheels), By Material Type (Aluminum Oxide, Zirconia Alumina, Silicon Carbide, and Ceramic Aluminum Oxide), By Region & Competition, 2021-2031F**

<https://marketpublishers.com/r/AD3F7AD88AC8EN.html>

Date: January 2026

Pages: 186

Price: US\$ 4,500.00 (Single User License)

ID: AD3F7AD88AC8EN

## **Abstracts**

The Global Abrasive Wheels Market is projected to expand from USD 12.67 Billion in 2025 to USD 18.24 Billion by 2031, achieving a compound annual growth rate (CAGR) of 6.26%. Abrasive wheels, which are consolidated grinding tools made of abrasive grains secured by a bonding matrix, are essential for precision cutting, grinding, and surface finishing in a wide range of industrial applications. The market's growth is largely driven by vigorous activity in the heavy machinery and automotive sectors, where these consumables are critical for both component manufacturing and maintenance. Data from the International Organization of Motor Vehicle Manufacturers (OICA) shows that total vehicle production in China rose by 4% in 2024, indicating resilient demand for material removal products in key manufacturing economies.

Despite these positive indicators, the market faces a substantial obstacle in the form of raw material price volatility, particularly for key inputs like phenolic resins and aluminum oxide. This instability results in cost unpredictability that complicates long-term planning for manufacturers and compresses profit margins, effectively acting as a restraint on consistent market expansion.

## **Market Driver**

A primary catalyst for the abrasive wheels market is the growth of global automotive

manufacturing, as these tools are vital for the high-precision finishing of transmission systems, camshafts, and engine components. Bonded abrasives are extensively used to meet the strict tolerances required in modern vehicle production, ensuring both safety and operational efficiency, especially in emerging markets where production is scaling to satisfy domestic and export demands. This trend is highlighted by the Society of Indian Automobile Manufacturers, which reported in April 2024 that passenger vehicle production in India reached 4,903,176 units for the 2023-24 fiscal year, demonstrating the intense manufacturing activity that requires a steady supply of grinding consumables.

Concurrently, accelerated infrastructure development and construction projects are generating significant demand for the cutting and grinding wheels needed to process concrete and structural steel. Heavy-duty abrasive wheels are indispensable for on-site tasks such as cutting reinforcement bars and smoothing welds on steel frameworks, with sector growth leading to increased procurement of snagging wheels and cutoff discs. According to the U.S. Census Bureau's July 2024 report, construction spending in May 2024 was estimated at a seasonally adjusted annual rate of \$2,139.8 billion, reflecting strong sector activity. Additionally, the World Steel Association forecast a 1.7% rise in global steel demand to 1,793 Mt in 2024, further underscoring the sustained need for abrasive applications in metal fabrication.

## **Market Challenge**

The volatility of raw material prices poses a significant challenge to the stability and growth of the Global Abrasive Wheels Market. Manufacturers in this industry rely heavily on steady supplies of inputs like silicon carbide, aluminum oxide, and phenolic resins to maintain consistent pricing structures and production schedules. When the costs of these essential commodities fluctuate unpredictably, it creates a difficult operational landscape where profit margins are squeezed. Companies are often faced with the choice of absorbing these rising costs, which hurts financial performance, or passing them on to end-users, which risks dampening demand in price-sensitive sectors.

This instability in input costs is mirrored in broader industrial data regarding manufacturing expenditures. In 2024, the Institute for Supply Management reported that the manufacturing Prices Index reached 60.9 percent in April, indicating a sharp rise in the cost of raw materials for industrial firms. Such rapid price appreciation for manufacturing inputs disrupts long-term planning for abrasive wheel producers. Consequently, this financial unpredictability restricts the ability of market players to invest in capacity expansion, thereby directly stalling the overall growth of the market.

## Market Trends

The market is being reshaped by the increasing use of advanced ceramic grains for high-speed grinding, as industrial users prioritize operational efficiency and material removal rates. Manufacturers are introducing next-generation shaped abrasive grains that fracture to create sharp cutting edges, significantly prolonging wheel life and reducing thermal damage during heavy-duty operations. This technological advancement enables faster throughput in metal fabrication without raising labor costs, directly addressing the need for higher productivity. For instance, 3M stated in January 2024 that their latest ceramic grain abrasive wheels offer up to three times the performance in life and cut rate compared to the previous generation, highlighting the substantial efficiency gains driving the shift toward premium abrasives.

Simultaneously, the development of specialized abrasives for automated and robotic systems is gaining momentum as manufacturers aim to eliminate variability in high-precision finishing tasks. Unlike manual grinding, automated cells require wheels with superior dimensional consistency and self-sharpening properties to maintain cycle times and reduce the frequency of tool changes. This trend is accelerating rapidly within the automotive supply chain, where automation is being deployed for complex component finishing. According to the Association for Advancing Automation, robot orders from automotive component manufacturers jumped by 61% in the third quarter of 2024, emphasizing the critical need for engineered abrasives capable of supporting continuous, automated grinding workflows.

## Key Market Players

Compagnie de Saint-Gobain

Tyrolit - Schleifmittelwerke Swarovski AG & Co K.G.

Pferd Inc.

The 3M Company

RHODIUS Abrasives GmbH

Klingspor AG

WEILER Abrasives d.o.o.

Robert Bosch GmbH

Hermes Schleifmittel GmbH

Noritake Co., Limited

## Report Scope

In this report, the Global Abrasive Wheels Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Abrasive Wheels Market, By Product

Bonded Wheels Super Abrasive Wheels

Abrasive Wheels Market, By Material Type

Aluminum Oxide

Zirconia Alumina

Silicon Carbide

Ceramic Aluminum Oxide

Abrasive Wheels Market, By Region

North America

United States

Canada

Mexico

## Europe

France

United Kingdom

Italy

Germany

Spain

## Asia Pacific

China

India

Japan

Australia

South Korea

## South America

Brazil

Argentina

Colombia

## Middle East & Africa

South Africa

Saudi Arabia

UAE

## **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global Abrasive Wheels Market.

## **Available Customizations:**

Global Abrasive Wheels Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## **Company Information**

Detailed analysis and profiling of additional market players (up to five).

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