

Global Centerless Grinding Market Set to Reach USD 13.1 Billion by 2034, Driven by Automotive Demand & Aerospace Growth

The global Centerless Grinding Market is driven by rising demand for precision components in automotive and aerospace industries

VANCOUVER, BC, CANADA, August 13, 2025 /EINPresswire.com/ -- The global [Centerless Grinding Market](#) is projected to grow from USD 8.4 billion in 2024 to USD 13.1 billion by 2034,

registering a CAGR of 4.60%, according to the latest market analysis. The expansion is fueled by rising demand for precision components in the automotive and aerospace industries, alongside significant advancements in grinding technology.



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The automotive sector remains the largest market segment, accounting for over 40% of global share, driven by the need for high-quality, precision parts that meet stringent regulatory standards. Meanwhile, the aerospace sector is the fastest-growing, supported by the use of advanced materials like composites and titanium alloys that require highly precise grinding solutions.

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North America currently leads the market in share, supported by a strong manufacturing base, while Asia Pacific is expected to record the highest growth rate due to rapid industrialization and infrastructure development.

Key applications of centerless grinding include automotive component manufacturing, aerospace parts production, and industrial machinery, with demand increasing for energy-efficient, automated solutions. Technological innovations, such as the integration of automation and IoT, are enhancing efficiency, reducing downtime, and enabling real-time monitoring. Automated grinding adoption is forecasted to rise by 15% annually, improving operational efficiency by 20%.

Government funding and regulatory reforms are also boosting adoption. For instance, the U.S. Department of Commerce has allocated \$500 million for industrial modernization, and the European Union's Horizon Europe program is investing €1 billion in precision manufacturing technologies. Leading players such as Glebar Company, Royal Master Grinders, and Cincinnati Milacron are focusing on innovation and strategic partnerships, with new launches like energy-efficient grinding machines designed to cut energy use by 15%.

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Market Segmentation Highlights

By Product Type: Infeed Grinding leads the market with applications in complex shapes and aerospace parts, projected to reach USD 5.1 billion by 2034. Throughfeed Grinding is the fastest-growing, with a CAGR of 5.2%, supported by high-volume automotive production.

By Application: Automotive remains dominant, projected to reach USD 5.4 billion by 2034, driven by electric vehicle growth. Aerospace will see the fastest growth at 5.5% CAGR.

By End User: OEMs lead the market with USD 5.6 billion in 2024, while the Aftermarket grows fastest at 5.0% CAGR, supported by rising replacement part demand.

By Technology: CNC Grinding dominates at USD 4.2 billion in 2024, while Automated Grinding grows fastest at 5.2% CAGR.

By Distribution Channel: Direct Sales lead the market, but Distributors are growing fastest, reflecting strong aftermarket demand.

Market Challenges

High initial costs of advanced machinery, integration challenges for automation and IoT in older systems, and compliance expenses for stringent manufacturing standards are key restraints. A shortage of skilled labor and vulnerability to supply chain disruptions also pose challenges.

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Centerless Grinding Competitive Strategies & Notable Developments

Glebar Company

Royal Master Grinders

Cincinnati Milacron

Danobat Group

Junker Group

Fives Group

Jainnher Machine Co., Ltd.

Micron Machinery Co., Ltd.

Palmary Machinery Co., Ltd.

Koyo Machinery USA

Centerless Grinding Market Segmentation

By Product Type

Infeed Grinding

Throughfeed Grinding

End-feed Grinding

By Application

Automotive

Aerospace

Industrial Machinery

Medical Devices

By End User

OEMs

Aftermarket

By Technology

Conventional Grinding

CNC Grinding

Automated Grinding

By Distribution Channel

Direct Sales

Distributors

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