

Global Grinding Machine Market to Hit \$29.44 Billion by 2034, Growing at 5.8% CAGR

Development of smart factories and Industry 4.0 is positively influencing grinding machine market trends around the world.

ROCKVILLE, MD, UNITED STATES, February 12, 2025 /EINPresswire.com/ -- According to a new report by Fact.MR, the global [grinding machine market](#) is valued at US\$ 16.75 billion in 2024 and is projected to grow at a 5.8% CAGR from 2024 to 2034. The availability of various grinding machines, including centerless, wet & dry, form, cylindrical, and surface grinding, is driving market opportunities. Additionally, advancements in smart factories and Industry 4.0 are significantly shaping market trends, boosting demand for technologically advanced grinding solutions worldwide.



The global grinding machine market is growing due to the exceptional characteristics of these machines. They enable automated machining, leading to shorter processing times and improved work quality. Key advantages include enhanced reliability, reduced operational costs, and increased efficiency.

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Rising demand for precise, complex, and consistent cuts across industries like automotive, aerospace, and manufacturing is driving sales. Grinding machines integrate with software for superior accuracy, minimizing human errors. Additionally, they require less pressure, achieve highly precise dimensions, operate at high temperatures, and efficiently machine harder materials, further boosting their adoption.

The growing demand for precision-engineered components with high surface quality and tight tolerances is driving the adoption of grinding machines. These machines are essential for

manufacturing precision parts with smooth surfaces, accurate dimensions, and fine finishes, meeting the stringent requirements of industries like automotive, aerospace, manufacturing, and construction.

Advancements in grinding technology, including digitalization, automation, and precision grinding techniques, are enhancing operational accuracy, productivity, and efficiency. Manufacturers are heavily investing in advanced grinding machines with innovative features to improve process performance. These machines help reduce cycle times, align with evolving consumer needs, and ensure consistent quality. As industries increasingly prioritize efficiency and precision, the integration of smart grinding solutions is expected to accelerate, further strengthening market growth in the coming years.

Key Takeaways from the Market Study:

The global grinding machine market is projected to reach US\$ 29.44 billion by the end of 2034, growing at a CAGR of 5.8% from 2024 to 2034.

East Asia is expected to hold a significant 33.6% share of the global grinding machine market by 2034, driven by rising demand from key industries like tooling, automotive, and aerospace. China leads the region, projected to account for 46.9% of the East Asian market with a value of US\$ 4.64 billion by 2034, growing at a CAGR of 5.9%. The country's strong emphasis on industrial expansion, infrastructure projects, and large-scale manufacturing operations is fueling demand for grinding machines. Affordable labor and raw materials further support market growth, encouraging players to invest in China's booming industrial sector. Meanwhile, Japan is anticipated to hold a 27.4% market share in East Asia by 2034, with an estimated value of US\$ 2.71 billion. Increasing adoption of automation and smart manufacturing technologies is driving demand for precision grinding solutions, as manufacturers seek cost-efficient and highly accurate machinery to enhance productivity.

The United States is a key player in the North American grinding machine market, contributing 73.1% of the region's revenue share by 2034. The market is forecasted to reach US\$ 5.29 billion by 2034, growing at a 6% CAGR. Strong industrial presence, particularly in automotive, manufacturing, and oil & gas, is driving demand. The presence of major market players like Hybrid Manufacturing Technologies and Gleason Corporation further strengthens the country's position, offering lucrative growth opportunities.

Key players in Grinding Machine Market:

Key players in the grinding machine market are Blastrac BV; Robert Bosch Power Tools GmbH; Amada Machine Tool Co., Ltd.; Toyoda; Mitsubishi Heavy Industries, Ltd.; Makita Corporation; Hitachi; Stanley Black & Decker, Inc.; Fein; Junker Group; Nidec Machine Tool Corporation; DMG Mori; Klindex; Scanmaskin; ANCA; Tschudin AG.

Impact of Rising Raw Material Costs and Innovations in the Grinding Machine Market

The rising costs of raw materials, including ceramics and steel, are significantly affecting the global grinding machine market. As material prices continue to increase, the overall cost of grinding machines is also rising, leading to a negative impact on demand. Industries that rely on these machines, such as automotive, manufacturing, and aerospace, are facing higher production costs, which in turn affects profitability. The price-sensitive nature of end-use industries makes it challenging for manufacturers to sustain sales growth. As a result, market players are exploring alternative materials and cost-effective manufacturing techniques to mitigate the impact of raw material inflation. However, balancing cost reduction while maintaining machine efficiency and durability remains a major challenge for manufacturers worldwide.

Despite cost-related challenges, product innovations are creating new growth opportunities in the market. The development of environmentally friendly grinding machines, which are dust-free, produce minimal noise, and reduce pollution, is attracting the attention of various end-use industries, including automotive and oil & gas. Startups and established players are focusing on sustainability to appeal to environmentally conscious buyers. Additionally, government initiatives promoting smart infrastructure development are further driving market expansion. Investments in advanced grinding technologies that enhance efficiency and sustainability are expected to support long-term industry growth.

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Competitive Landscape

Key players in the grinding machine market are making substantial investments in new product launches to expand their existing portfolios. Additionally, they are actively engaging in partnerships, collaborations, and strategic marketing initiatives to gain a competitive advantage and strengthen their market presence.

For example, in February 2024, Nidec Machine Tool Corporation announced the development of a high-precision grinding and polishing method designed for machine internal gears used in large-scale production. This innovation enhances the efficiency of drive units and automobile transmissions. Similarly, Tschudin AG, a leading provider of high-precision cylindrical grinding solutions, partnered with United Grinding Group in May 2022. This collaboration aims to enhance customer support by offering complementary grinding solutions through a shared sales network, reinforcing their global market position.

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Contact:

US Sales Office

11140 Rockville Pike

Suite 400

Rockville, MD 20852

United States

Tel: +1 (628) 251-1583, +353-1-4434-232 (D)

Sales Team: sales@factmr.com

S. N. Jha

Fact.MR

+ +1 628-251-1583

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