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Precision Engineering Machines Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Type (CNC Machine Tools, EDM Machine Tools, Others), By End-use (Automotive, Non-Automotive), By Region & Competition, 2021-2031F

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Abstracts

The Global Precision Engineering Machines Market is projected to expand from USD 16.76 billion in 2025 to USD 25.12 billion by 2031, reflecting a compound annual growth rate of 6.98%. This market comprises sophisticated manufacturing apparatus, including Computer Numerical Control (CNC) units and automated machining centers, engineered to produce components with microscopic precision and exacting tolerance standards. Key factors propelling this growth include the rising demand for high-precision parts in the aerospace and automotive industries, driven by initiatives for fuel efficiency and product miniaturization, as well as the industrial need to minimize manual inaccuracies and boost production rates through automation.

Conversely, the market faces notable challenges due to the heavy capital investment needed to purchase and maintain such advanced infrastructure. This financial burden often deters small and medium-sized enterprises from investing, especially during times of economic instability. For instance, the Japan Machine Tool Builders' Association reported that machine tool orders totaled 1,485.1 billion yen in 2024, a marginal decrease of 0.1 percent from the prior year. This plateau in order activity illustrates how significant upfront costs coupled with economic fluctuations can suppress purchasing behavior and hinder overall market growth.

Market Driver

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The trend toward miniaturization in semiconductor and consumer electronics is significantly transforming the Global Precision Engineering Machines Market by demanding equipment that can sustain nanometer-level tolerances. With chip manufacturers rushing to support artificial intelligence and high-performance computing, the need for ultra-precise lithography and machining tools has surged, attracting substantial investment to the sector. This specific demand for advanced fabrication remains strong despite fluctuations in other areas; for example, SEMI's '300mm Fab Outlook Report to 2027' from September 2024 projects that global spending on 300mm fab equipment will rise by 4 percent to reach 99.3 billion US dollars in 2024.

In parallel, the rising requirement for high-precision components in aerospace and defense acts as a crucial stabilizer for the market, balancing out weaker demand in general industrial sectors. Manufacturers are increasing output of intricate items like turbine blades and structural airframe parts, which necessitate multi-axis machining centers capable of meeting strict safety and accuracy standards. According to the August 2024 'U.S. Manufacturing Technology Orders Report' by AMT - The Association For Manufacturing Technology, aerospace orders in the first half of 2024 reached their highest unit count since early 2018. However, broader challenges persist, as evidenced by the VDW's forecast of an 8 percent drop in German machine tool production in 2024, signaling an uneven recovery across the industry.

Market Challenge

The significant capital outlay necessary to acquire and sustain precision engineering infrastructure represents a major hurdle to market growth. The high price tags associated with advanced automated machining centers and CNC systems create a difficult financial barrier, especially for small and medium-sized enterprises that often lack the funds for such substantial upfront costs. This fiscal pressure compels many manufacturers to postpone essential technology updates, leading to extended equipment replacement cycles and a hesitation to increase production capacity during uncertain economic times, ultimately reducing demand as firms focus on saving capital rather than modernizing.

Recent industrial performance data clearly reflects the impact of these cost barriers. When economic instability coincides with high interest rates, the rationale for purchasing expensive machinery is considerably undermined. For instance, the German Machine Tool Builders' Association (VDW) reported a 16 percent drop in orders for the third quarter of 2024 compared to the prior year, a decline largely attributed to investment

hesitancy among domestic manufacturers. This contraction highlights the direct link between the capital-intensive nature of the industry and diminished market activity when financial confidence is low.

Market Trends

The incorporation of AI and Machine Learning for predictive maintenance is fundamentally reshaping operational strategies in the Global Precision Engineering Machines Market by moving from reactive maintenance schedules to data-informed proactive actions. Modern algorithms now interpret real-time data from sensors monitoring variables like vibration and temperature to foresee component issues or tool wear before they interrupt production. This ability is vital for manufacturers aimed at reducing unplanned downtime and maximizing the utility of costly CNC equipment without depending on manual checks; notably, Rockwell Automation's '9th Annual State of Smart Manufacturing Report' from April 2024 indicates that 83 percent of manufacturers plan to utilize generative AI in 2024, signaling a strong shift toward intelligent operational systems.

Concurrently, the widespread adoption of collaborative robotics, or cobots, for machine tending is mitigating persistent labor shortages and improving process consistency within machine shops. Unlike conventional industrial robots that need safety cages, cobots function securely alongside human workers to automate repetitive loading and unloading duties, freeing skilled operators to handle complex programming and quality assurance. This trend is gaining speed particularly among high-mix, low-volume manufacturers needing adaptable automation; Universal Robots reported in January 2024 that their fourth-quarter revenue increased by 21 percent year-over-year, a growth largely fueled by the adoption of new heavy-payload cobots capable of managing larger metal parts.

Key Market Players

DMG MORI CO., LTD.

Makino Milling Machine Co., Ltd.

Haas Automation, Inc.

TRUMPF GmbH + Co. KG

GF Machining Solutions Management SA

Fanuc Corporation

Okuma Corporation

Chiron Group SE

Yamazaki Mazak Corporation

Mitsubishi Electric Corporation

Report Scope

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

Precision Engineering Machines Market, By Type

CNC Machine Tools

EDM Machine Tools

Others

Precision Engineering Machines Market, By End-use

Automotive

Non-Automotive

Precision Engineering Machines Market, By Region

North America

United States

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- 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

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Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Precision Engineering Machines Market.

Available Customizations:

Global Precision Engineering Machines 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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