

North America Coordinate Grinding Machine Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Industry (Medical, Mold and Die Industry, Aerospace and Defense, Automotive, Electric and Electronics, Industrial Machinery, and Others), and Machine Technology (CNC or NC Machine and Conventional Machines)

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Abstracts

The North America Coordinate Grinding Machine Market is projected to grow significantly, reaching an estimated US\$ 131.3 million by 2031, up from US\$ 98.4 million in 2024, reflecting a compound annual growth rate (CAGR) of 4.3% from 2025 to 2031. This growth is driven by the region's robust manufacturing sector and the increasing demand for precision machining.

North America, which includes the United States, Canada, and Mexico, has a long-standing reputation for technological advancement in manufacturing. The U.S. is the second-largest producer of manufacturing machinery and equipment globally and leads in the production of fabricated metal products. This strong industrial base supports the adoption of coordinate grinding machines, which are crucial for achieving the high levels of precision and dimensional accuracy required in modern manufacturing processes.

The aerospace and defense sectors are particularly influential in driving demand for coordinate grinding machines. The stability of the economy, coupled with advanced infrastructure and significant government investments, has led to increased adoption of high-precision manufacturing equipment. For example, in 2023, the Canadian

government announced a US\$ 7.44 million investment to support the expansion of H55, a Swiss company, into Montreal, which is expected to attract global aircraft manufacturers and heighten the demand for ultra-precise machining solutions.

In the U.S. defense sector, contracts such as the one finalized in February 2025 between the U.S. Army and BAE Systems for the production of 309 Armored Multi-Purpose Vehicles (AMPVs) underscore the growing need for high-precision manufacturing technologies. Similarly, General Dynamics Land Systems secured a US\$ 322.7 million contract for the M10 Booker Combat Vehicle program, which will continue through 2026. These defense initiatives highlight the increasing reliance on advanced grinding technologies, including CNC-based coordinate grinding, which are essential for producing intricate geometries and complex components in aerospace and defense applications.

As the trend towards precision and miniaturization continues, coordinate grinding machines are becoming increasingly integrated into high-tech manufacturing processes across North America. Their ability to deliver accuracy, repeatability, and automation makes them vital for maintaining technological competitiveness in the region.

The North America Coordinate Grinding Machine Market is segmented by industry, including Medical, Mold and Die, Aerospace and Defense, Automotive, Electric and Electronics, Industrial Machinery, and Others. The automotive sector held the largest market share in 2024, reflecting the critical role of coordinate grinding machines in producing high-precision components.

In terms of machine technology, the market is divided into CNC or NC Machines and Conventional Machines, with CNC or NC Machines dominating the market in 2024. The integration of advanced technologies such as the Internet of Things (IoT), artificial intelligence (AI), and robotics is transforming the landscape of grinding processes. Modern coordinate grinding machines are evolving into intelligent systems that significantly outperform traditional models. Equipped with smart sensors and IoT connectivity, these machines can monitor critical parameters like vibration, spindle speed, and temperature in real-time, facilitating predictive maintenance and reducing unplanned downtime.

The versatility of coordinate grinding machines allows them to work with various materials, including metals, composites, and ceramics, enhancing their value across multiple industries. Their modular design enables manufacturers to quickly adapt production setups, which is crucial for meeting dynamic market demands. This flexibility

ensures that coordinate grinding machines remain essential for high-precision applications in sectors such as medical devices, aerospace, and automotive, where tight tolerances and superior surface finishes are paramount.

The North America Coordinate Grinding Machine Market is also segmented by country, with the United States, Canada, and Mexico being the primary markets. Mexico held the largest share in 2024, driven by its strong automotive export base and the demand for high-precision tooling and die-making capabilities. The country exported US\$ 64.5 billion in cars in 2023, ranking as the sixth-largest car exporter globally, alongside significant exports of motor vehicle parts and accessories.

Recent investments in Mexico's automotive sector, such as the US\$ 30 million investment by Xinquan and the US\$ 245 million expansion by ZF Group, further illustrate the growing demand for advanced grinding machinery, including coordinate grinding machines. These developments highlight the importance of high-precision manufacturing capabilities in supporting the automotive industry's growth and competitiveness.

Key players in the Coordinate Grinding Machine Market include DANOBATGROUP, Kellenberger Switzerland AG, HMT Machine Tools Limited, Fehlmann AG, PALMARY Machinery Co., Ltd., Okamoto (Singapore) Pte Ltd, United Grinding Group, Moore Tool Company, Inc., DMG MORI Co., Ltd., and KEHREN GmbH. These companies are actively pursuing strategies such as expansion, product innovation, and mergers and acquisitions to enhance their market presence and offer innovative solutions to their customers.

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