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Computer Numerical Control (CNC) Machines – A Global Market Overview

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Abstracts

Computer Numerical Control (CNC) Machines Market Trends and Outlook

Computer Numerical Control (CNC) is a machining process used in manufacturing that employs programmed computer software for directing the actions of machinery and tools. A number of manufacturing techniques, such as lathing, milling, grinding and laser cutting can be automated using this application. A CNC machine obtains instructions from a computer aided design (CAD) file, which are then precisely transposed into a sequential set. Once these instructions are received by a CNC machine, it starts operating automatically without the need of an operator. Major advantages for manufacturers using these machines include decrease in operating costs, enhanced speed, superior accuracy levels and improved productivity overall.

The global market for Computer Numerical Control (CNC) Machines is estimated at US$84.6 billion in 2024 and is likely to maintain a 2024-2030 CAGR of 8.4% in reaching a projected US$137.3 billion by 2030.

The demand for CNC Machines is being driven by a range of factors that include advancements in production technologies, increasing demand for highly precise components that can be produced on a large scale and growing adoption of advanced technologies, such as IoT, AI & machine learning into production processes. The integration of these technologies with CNC machines is bound to prove fruitful in escalating market growth over the coming years.

Computer Numerical Control (CNC) Machines Regional Market Analysis

With an estimated share of about 39% in 2024, Asia-Pacific represents the leading

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global market for CNC Machines, which is further likely to be the fastest growing, too. A spurt of growth in various sectors, especially automotive and general industrial machinery, are propelling demand for CNC machines in the region. Owing to relatively cheap labor and availability of abundant resources, major industrial manufacturers, including CNC machine OEMs, have established operations in Asia-Pacific, which has contributed to significant growth in the region. In addition, the region's increased demand can be attributed to technological advancements, digitization and connectivity, enabling the implementation of technologies, such as cloud computing, IoT and data analytics into CNC systems for improving equipment efficacy. North America and Europe are other regions where the market for CNC machines has been posting steady growth, since these have always been well-entrenched markets for CNC machines and would continue to be so.

Computer Numerical Control (CNC) Market Analysis by Machines Type

The major types CNC machines used include Grinding Machines, Laser Machines, Lathe Machines, Milling Machines, Welding Machines and Winding Machines, among others (comprising Drilling, Electrical Discharge & Routing Machines). The global demand for CNC Lathe Machines is estimated to be the largest, the major factors for which comprise availability in various sizes & types, versatility in using materials and provision of high accuracy up to 99.99%. The use of CNC lathe machines across several industries, such as automotive, aerospace and general machinery for making high-precision parts and components will further add to market momentum. As far as growth is concerned, however, the worldwide market for Milling Machines is anticipated to exhibit the fastest CAGR of about 9.5% during the analysis period. Milling machines are most widely used to fabricate complex parts and automation and technological advancements in these machines have facilitated rapid growth in various sectors.

Computer Numerical Control (CNC) Machines Market Analysis by Number of Axes

CNC machines are offered according to the type of multiple axis points along which they operate, which include 3 axis, 4 axis and 5 axis. The 3 axis CNC machine is most widely used because of its ability to function in three axes, which move at the same time. This enables the machine, which can also be integrated with an automatic tool changer, in producing components with complex shapes. Moreover, automation of the process ensures that there is no need for manual intervention. On the other hand, the market for 5 axis CNC machines would anticipatedly post the fastest growth over the analysis period.

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Computer Numerical Control (CNC) Machines Market Analysis by End-Use Sector

As regards end-use sector, the global market for CNC Machines is categorized into Aerospace & Defense, Automotive, Construction, Energy & Power, General Industrial Machinery and Healthcare & Medical, among others (comprising Capital Goods, Electrical & Electronic, Metal & Mining, Precision Engineering and Semiconductor). General Industrial Machinery is the largest end-consumer of CNC Machines, accounting for an estimated share of about 27% of the global demand. In terms of growth, though, the demand for CNC Machines for making parts and components for the Automotive sector will likely post the fastest CAGR of almost 13% during the analysis period. A primary factor for this includes the growing demand for electric vehicles (EVs), which require ultra-precision and customized parts and components.

Computer Numerical Control (CNC) Machines Report Scope

This global report on Computer Numerical Control (CNC) Machines analyzes the market based on machine type, number of axes and end-use sector, in addition to providing profiles of major companies operating in this space, the latest corporate and industrial developments have been covered to offer a clear panorama of how and where the market is progressing.

Key Metrics

Historical Period: 2021-2023

Base Year: 2023

Forecast Period: 2024-2030

Units: Value market in US$

Companies Mentioned: 35+

Computer Numerical Control (CNC) Machines Market by Geographic Region

North America (The United States, Canada and Mexico)

Europe (France, Germany, Italy, Russia, Spain, The United Kingdom and Rest of Europe)

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Asia-Pacific (China, Japan, India, South Korea and Rest of Asia-Pacific)

South America (Argentina, Brazil and Rest of South America)

Rest of World (Middle East & Africa)

Computer Numerical Control (CNC) Machines Market by Machine Type

Grinding Machines

Laser Machines

Lathe Machines

Milling Machines

Welding Machines

Winding Machines

Other CNC Machines (Including Drilling, Electrical Discharge & Routing Machines)

Computer Numerical Control (CNC) Machines by Number of Axes

3 Axis

4 Axis

5 Axis

Computer Numerical Control (CNC) Machines Market by End-Use Sector

Aerospace & Defense

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Automotive

Construction Equipment

Energy & Power

General Industrial Machinery

Healthcare & Medical

Other End-Use Sectors (Including Capital Goods, Electrical & Electronic, Metal & Mining, Precision Engineering and Semiconductor)

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Datron AG
DMG Mori Seiki Co. Ltd.
DN Solutions (Doosan Machine Tools)

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General Technology Group Dalian Machine Tool Corp
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Hyundai WIA Corporation
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