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CNC Router Market Research Report—Global Forecast till 2030

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Description: The Global CNC Router Market growth is projected to register a CAGR of 4.27% and reach a value of USD 5,621.4 million by 2030.

CNC Router Market Overview

A CNC router uses computer software and a computer numerically controlled system to drive a mechanical system. A CNC router is a numerically controlled cutting machine where the tool paths are controlled via a computer. CNC routers are used for cutting various hard materials, such as wood, composites, aluminum, steel, plastics, and foams. CNC routers are very efficient, working simultaneously in three directions to produce complex shapes. The CNC router is generally available in 3, 4, and 5 axis rotating bits to remove material from stock to shape a component. In 3-axis CNC routers, tools can move simultaneously in all three directions: X-axis, Y-axis, and Z-axis. The CNC router is available as various products, such as plasma, laser, water jet, and metal cutting tools, which are used for different applications such as wood, stone, and metalworking. The CNC router is widely used in many industry verticals, including aluminum and metal cladding, sign making, graphics & print finishing, cabinetry, general woodworking, plastic fabrication, metal fabrication, and foam packaging.

A CNC router has some specific parts, such as the CNC controller and computer system, spindle motors, drive system, and workplace table. Additionally, the CNC router also consists of fixtures and vacuum pumps to hold the parts in place for cutting. A CNC router can be used to produce many different items, such as door carvings, interior and exterior decorations, wood panels, signboards, wooden frames, moldings, musical instruments, and furniture. CNC routers are widely used in various end-use industries, such as wood, automotive, construction, aviation and defense, and electric and electronics. The growth can be attributed to the presence of a large number of manufacturing firms and the availability of low-cost raw materials and inexpensive labor.

COVID-19 Impact Analysis

The COVID-19 pandemic has adversely affected and is expected to continue to pose risks to the CNC Router business. There are numerous risks related to the outbreak of COVID-19. The pandemic spread across the globe during 2020 and continues to impact economic activity around the globe. COVID-19 caused disruption and volatility in the global capital markets, resulting in an economic slowdown in 2020. The COVID-19 pandemic and its associated economic uncertainty negatively impacted the CNC Router market in most regions and across a variety of customers. Governments worldwide have introduced certain measures, such as travel prohibitions, shutdowns of certain businesses, bans on group events and gatherings, shelter-in-place orders, curfews, and recommendations for practicing social distancing. These restrictions have resulted in weakening activity and temporary closures of manufacturing facilities. COVID-19 has affected the CNC Router market in many ways.

CNC Router Market Dynamics

The Global CNC Router Market is projected to register a CAGR of 4.27% during the forecast period 2022 - 2030. The global CNC router market is proliferating at a rapid pace. The global market growth is driven by factors such as the growth of the automotive sector and the rise in furniture production. However, the growth of the global market is likely to be hindered by the lack of skilled labor during the forecast period.

Drivers:

- **Increase in furniture production**

Shifting consumer preference towards high-quality furniture, particularly luxury furniture, is expected to boost the demand for CNC routers. The furniture industry is the second-largest end-use industry of these machines, following the automotive industry. A CNC wood router is a computer-controlled router tool that carves the wooden objects onto the face of a wooden piece. The CNC uses the Cartesian coordinate system, which features an X, Y, and Z-axis for 3D motion control.

The growing demand for bespoke furniture portraying grandeur and opulence, increasing spending capacity of consumers, and global boom in housing and office construction activity will positively boost the furniture market, which will assist in the adoption of CNC routers. Conventional CNC operating systems can make carvings on flat planes and surfaces. The machine is mounted on a track and can efficiently cut and make designs on quadrilateral surfaces. Parts of a furniture project can be designed on a computer with a CAD/CAM program, followed by automatic cutting using a router or other cutters to produce a finished part. This allows the user to change out routers for different applications. For lighter strained cuts, they could use a lower grade router but for more intensive applications. Thus, the increase in furniture production is expected to drive the growth of the global CNC routers market during the forecast period.

Restraint:

- **Lack of skilled labour**

The semiconductor & electronics industry is a multi-billion-dollar business. CNC routers offer a competitive edge to the leading manufacturers. Utilizing a CNC router in the manufacturing process is a slightly complex process that requires a high level of finesse and expertise. The design needs to be prepared in a computer-generated CAD/CAM environment, and the CNC router is then programmed to carry out the tasks. This overall process includes multiple detailed sub-processes across different equipment. The cost incurred in the process is mainly owing to the investment in equipment and technology to shrink the line width. Some of the major segments of the CNC router industry are labor-intensive and differ in each country in terms of wages, taxes, and other parameters. Most of the machine manufacturers outsource their businesses to foundries and contractors.

Due to the rising demand for automotive and furniture applications, the demand for skilled labor has increased substantially. However, the acute lack of skilled labor has led to a considerable slowdown in the adoption of CNC routers. The existing pool of talent is considerably limited, which has led to a significant increase in the wages and salaries of skilled workers in the industry. Thus, the lack of skilled labor is expected to restrict the growth of the global CNC routers market to a certain extent during the forecast period.

Opportunities:

- **Automation in emerging economies**

The increasing adoption of automation technologies in emerging economies, including India, Brazil, Mexico, Vietnam, and Cambodia, is projected to present new growth opportunities for CNC router manufacturers. The COVID-19 pandemic has created the demand for essential equipment, with CNC makers being declared a vital part of essential services. Industrial design companies are increasingly relying on CNC machines for manufacturing modular kitchens, furniture, educational & play equipment, and PoS units. For instance, DT Solutions has procured the necessary CNC equipment to cater to the increasing production demand. Moreover, there has been an increased focus on training professionals to operate CNC software and limit interruptions in production. Thus, the rapid automation in emerging economies is expected to present lucrative growth opportunities for the players operating in the global CNC routers market.

CNC Router Market Segment Overview

Insights By Type

Based on Source, the global CNC router market has been segmented into stationary gantry type, movable gantry type, and cross-feed unit type. The movable gantry type has accounted for the largest market share of 54.57% in 2020 while the cross-feed unit type segment is expected to exhibit the highest CAGR of 5.39% during the review period

Insights By Product

Based on Product, the global CNC router market has been segmented into plasma, laser, water jet, and metal tool. The metal tool segment accounted for the largest market share of 54.05% in 2020, while the laser segment is likely to register the highest CAGR of 5.86% during the forecast period.

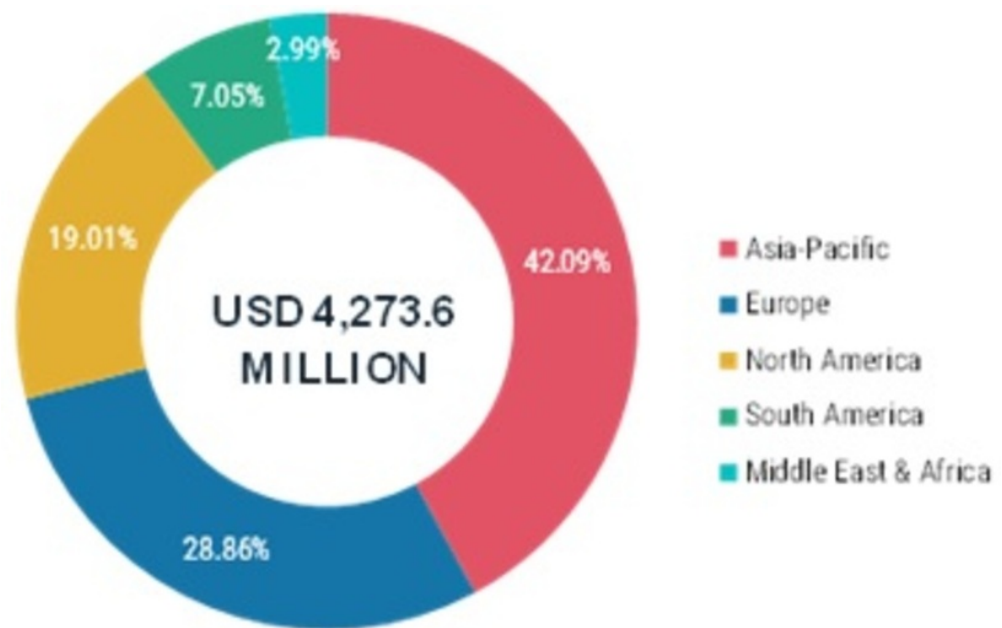
Insights By Application

Based on the application, the global CNC Router Market has been segmented into wood working, stone working, metal working, and others. The wood working segment accounted for the largest market share of 58.26% in 2020, while the others segment is likely to register a CAGR of 5.86% during the review period.

Insights By End Use

Based on the end use, the global CNC Router Market has been segmented into construction, industrial, automotive and others. The construction segment accounted for the largest market share of 51.70% in 2020, while the automotive segment is likely to register the highest CAGR of 5.57% during the review period

Global CNC Router Market Share, by Region, 2020 (%)



Sources: MRFR Analysis

CNC Router Market Regional Analysis

By region, the Global CNC Router Market has been divided into North America, Europe, Asia-Pacific, South America, Middle East a& Africa. Asia-Pacific accounted for the largest market share of 42.09% in 2020 and is expected to register the highest CAGR of 5.17%. Europe was the second-largest market with a share of 28.86% in 2020 and is projected to exhibit a CAGR of 3.10% during the review period.

Asia-Pacific Outlook

Asia-Pacific is expected to witness the maximum demand for CNC routers from 2021 to 2027, primarily due to the rising product demand from leading manufacturing countries such as China, India, and Japan for industrial parts and automotive parts. Furthermore, the region is home to the largest manufacturing industry for machine tools, automotive, electronics, and consumer products. Additionally, the expansion of the automotive industry in the region is likely to propel the demand for CNC routers for boosting the quality of production of industrial parts and automotive parts over the study period.

Europe Outlook

The CNC routers market in Europe is expected to grow at a notable rate during the forecast period, mainly due to the increase in the adoption of advanced technology and import and export activities in the region. Moreover, the region is a hub for the automotive industry due to the presence of leading manufacturers with high production capacities, such as Audi, BMW, and Volvo. This is also anticipated to have a positive influence on the growth of the market. Increasing expenditure on research and development by European players is expected to play a crucial role in the market's growth in this region. Moreover, the increasing renovation of existing infrastructure is expected to boost the growth of the market. The major CNC routers manufacturing companies such as Biesse Group, Anderson Europe, and Excel CNC Ltd. are focusing on research and development of CNC routers to improve the efficiency of CNC routers.

CNC Router Market Competitive Landscape

The market comprises tier-1, tier-2, and local players. The tier-1 and tier-2 players have a global reach and diverse product portfolios. Companies such as Biesse Group (Italy), HOMAG Group (Germany), Anderson Group (Taiwan), MultiCam Inc. (US), Thermwood Corporation (Dale), dominate the global market due to brand reputation, product differentiation, financial stability, and diversified regional presence.

Prominent players in the Global CNC Router Market include Biesse Group (Italy), HOMAG Group (Germany), Anderson Group (Taiwan), Exel CNC Ltd (UK), MultiCam Inc. (US), Thermwood Corporation (Dale), The Shoda Company (Japan), ShopSabre (US), AXYZ Automation Group (Canada), Carbide 3D LLC (US), and Komo Machine, Inc. (US)

Recent Developments

Few developments that occurred in recent times influencing the market growth of gardening tools are listed below:

- In August 2020, MultiCam Corporate acquires its long-term distribution partners MultiCam Mountain West. MultiCam Mountain West has established a strong reputation for supplying full line of MultiCam CNC machines, services and support in the Mountain West region of US> This has helped the company to expand its business and serve into additional nine states: CO, UT, NM, ID, MT, ND, SD, NE and WY.

Scope of the Report

Global CNC router Market, by Source

- Stationary Gantry Type
- Movable Gantry Type
- Cross-Feed Gantry Type

Global CNC router Market, By Product

- Plasma
- Laser
- Water Jet
- Metal Tool

Global CNC router Market, by Application

- Wood Working
- Stone Working
- Metal Working
- Others

Global CNC router Market, by End Use

- Automotive
- Construction
- Industrial
- Others

Global CNC router Market, by Region

- North America
 - US

- Canada
- Mexico
- Europe
 - UK
 - Germany
 - France
 - Italy
 - Rest of Europe
- Asia-Pacific
 - China
 - Japan
 - South Korea
 - India
 - Rest of Asia-Pacific
- Rest of the World
 - South America
 - Middle East & Africa

Intended Audience

- Construction Industry
- Industrial Plants
- Automotive manufacturers
- Investors & Government Institutions

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