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Desktop CNC Machines Market Research Report – Global Forecast till 2030

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Description:

Desktop CNC Machines Market Overview

With the evolution of IoT and increasing demand for the prevalence of intelligent automation solutions, there has been a growing emphasis on regulatory compliances in the global Desktop CNC Machines market. Further, there has been a substantial increase in the need for efficient monitoring in manufacturing plants are some of the key factors driving the growth of the PC-based automation market. The market was valued at USD 28.36 Billion during the historic forecast period that had ended in 2018 and is expected to reach USD 38.01 Billion by the end of the current period in 2030, growing at a CAGR of 3.50% between 2022 and 2030. The base year considered for the study is 2021, on which the coronavirus pandemic occurred, and the forecast period is between 2022 and 2030. The global market report also helps and provides detailed information regarding the major factors like the drivers, restraints, opportunities, and challenges that influence the market's growth. It also helps provide a detailed overview of the market's value chain.

COVID 19 Analysis

The novel coronavirus pandemic has been a significant cause of concern for the functions related to the Desktop CNC Machines market size during the ongoing forecast period ending in 2030. Furthermore, since the imposition of the lockdown followed by the rising concerns related to lifestyle and health changes are pushing the global target audience towards the presence of alternate changes, the market has challenges on its way of expansion during the ongoing forecast period of 2022-2030.

There has been a rising need for the global Desktop CNC Machines market share, and hence, it is likely to propel during the ongoing forecast period. The global Desktop CNC Machines market is expanding its funding and investment that will help the market go for better prospects that help recognize and meet the needs of the global target audience. In addition, the market players are opting for mergers that will help the global market.

Desktop CNC Machines Market Dynamics

- **Drivers**

Among all process industries demanding the Desktop CNC Machines market opportunities, many verticals are demanding the products and services at a more significant market scale. As a result, the CNC machine market recovered well in 2021 due to increased machine orders across the industries, notably from Europe, Asia Pacific, and North America.

Automated CNC systems sre integrated with industrial robots featuring simulation software to increase the production degree an this is expected to favor the growth of the Computer Numerical Control (CNC) machines market over the forecast period that ends in 2027. One of the primary reasons for adopting automated CNC machines is to address the lack of skilled laborers which increases the challenges that most industries currently face. This enables the production units and manufacturing industries to increase their efficiency and maximize the production output. To address this demand, incumbents in this space, such as Fanuc Corporation and OKAMA America Corporation, many key market players lay their emphasis on integrating new technologies with the existing product portfolio.

- **Restraints**

The global Desktop CNC Machines market share is witnessing the emergence of market factors like the lack of funding followed by reduced awareness that will hamper the growth goals of the market that the industry experts have set for the ongoing forecast period that will be ending in 2027. Also, the market is witnessing the increase in the prices of raw materials and the hampered degree of affordability for the market players during the forecast period. Rising raw material prices followed by a looming shortage of semiconductors used in CNC machines are expected to pose challenges for the market.

- **Technology Analysis**

The surge in EV sales coupled with the increase in demand for the processing of ultra-precision parts for EVs is expected to bode well for the growth of the automotive segment over the forecast period. In addition, the demand for customized automotive components such as crankshafts, cylinder heads, motor pumps is expected to support the

market growth further. In light of these prominent desktop CNC machines market factors, the need for CNC machines in the automotive segment is expected to reach over USD 25 billion in 2030.

Desktop CNC Machines Market Segment Overview

The global market has been able to function in various parts across the globe and meet the rising needs of the global target audience for the ongoing forecast period ending in 2027. The functioning is based on the market segments that are mentioned as follows:

Based on the product type:

- CNC Lathe
- CNC grinding
- CNC miling

Based on the application:

- Machinery Manufacturing
- Automotive

Desktop CNC Machines Market Regional Analysis

The Asia Pacific region accounted for more than 35% of the overall market share in 2021 and is expected to remain top over the forecast period. As a result, the CNC machines sales to reach 800 thousand units in 2022 and will be double by 2030. The desktop CNC machines market demand is attributed to the surge in manufacturing outsourcing services for industrial equipment, the abundance of low-cost raw materials, and low operational costs that drive the demand for manufacturing outsourcing, thereby increasing the number of CNC machines sales over the forecast period.

Europe is expected to register a 9% CAGR over the forecast period. The global growth of the market is driven by Germany, Italy, France, and Central and other Eastern European countries.

Desktop CNC Machines Market Competitive Landscape

The global desktop CNC machines market companies are mentioned as follows:

- Dalian Machine Tool Group (DMTG) Corporation
- Okuma Corporation
- Yamazaki Mazak Corporation
- Shenyang Machine Tool Co., Ltd. (SMTCL)
- Fanuc Corporation
- Haas Automation, Inc.
- Amera Seiki
- Datron AG
- Hurco Companies, Inc.
- Amada Co., Ltd.
- DMG Mori

Recent Developments

For instance, in March 2021, one of the prominent market companies - Fanuc America Corporation, a subsidiary of Fanuc Corporation, upgraded its CNC product portfolio by integrating the Quick and Simple Startup of Robotization (QSSR) G-code feature with ss. The globally prominent company provides enhanced CNC machines that machine operators and tool builders to program the robots more efficiently through this integration. Similarly, in August 2021, another company - Made4CNC ApS, one of the CNC manufacturers based in Denmark, launched a new Safedoor SD100, an automated door opener for CNC machines. Their market product integrates easily with collaborative robots and offers greater convenience for tending machine operations.

The CNC lathe machines segment of the global desktop CNC machines market had accounted for USD 16.11 billion in 2021 and is expected to register a CAGR exceeding 10% over the forecast period. There has been a growing demand for CNC lathe machines from the automotive sector to manufacture customized parts such as cylinder heads, starter motors, gearboxes, and other prototyping applications are expected to drive market growth over the next mid-term. Furthermore, technological advancements developing and in the existing CNC lathe systems with new features used for various applications are expected to bode well for the market growth. For example, in February 2021, one of the market companies - Citizen Machinery Co., Ltd launched Cincom L32 XII. It is a Sliding Headstock Type Automatic CNC Lathe machine that features an automatic tool changer. The product features enable complex shape machining such as implants used in medical treatment and perform multiple functions simultaneously.

The CNC laser machines demand is expected to surpass over 650 thousand units by 2030, registering a CAGR of 9.0% over the forecast period ending in 2027. The increasing demand for CNC laser cutting machines by

semiconductor manufacturing companies to address ongoing semiconductor shortages is expected to drive the segment growth over the forecast period. Additionally, there has been a rising popularity of CNC fiber laser cutting machines in kitchenware and sheet metal processing industries is expected to bode well for market growth over the coming years.

Intended Audience

- Manufacturing associations and industrial bodies
- Component suppliers and distributors
- End-users of PC-based automation solutions across industries
- Government bodies, such as regulatory authorities and policymakers
- Industrial automation equipment providers
- Market research and consulting firms
- Original equipment manufacturers (OEMs)
- Semiconductor product designers and fabricators

Desktop CNC Machines Market Report Overview

The research methodology for the Desktop CNC Machines market used to estimate and forecast the market size begins with capturing data on the revenues of critical vendors through secondary research. Global vendor offerings have also been considered for the reports' preparation to determine the market segmentation. The bottom-up procedure has further been employed to arrive at the market's overall size from the revenues of the key players. After arriving at the overall market size, the global market has been segmented into several segments and subsegments, which have then been verified through primary research by conducting extensive interviews with key experts such as CEOs, VPs, directors, and executives. Finally, the global market breakdown and data triangulation procedures have been employed to complete the overall market engineering processes and functions and hence, arrive at the exact statistics for all segments and subsegments.

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