

Dental Milling Machine Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

Market Report | 2023-01-23 | 120 pages | Mordor Intelligence

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Report description:

The Dental Milling Machine Market is expected to register a CAGR of 9.5% during the forecast period, 2022-2027.

The number of patient visits to hospitals, ambulatory surgery centers, clinics, and diagnostic laboratories has reduced significantly, despite the fact that emergency and out-patient services were available in cardiology, neurology, and other departments. In March 2020, the American Dental Association (ADA), the nation's largest dental association, recommended that dental practices postpone elective dental procedures until April 6, 2020, and provide emergency-only dental services to help keep patients from burdening hospital emergency departments. This recommendation was updated on April 1, 2020, when the ADA advised offices to remain closed to all but urgent and emergency procedures until April 30 at the earliest because of the rise of COVID-19 cases. However, as per a survey conducted by RAND Corporation, Arlington, United States, in September 2020, nearly half of the respondents (46.7%) reported delaying going to the dentist or receiving dental care due to the COVID-19 pandemic in the country. Among them, 74.7% reported delaying a check-up, 12.4% reported delaying care to address something that was bothering them, and 10.5% reported delaying care to get planned treatment. Thus, COVID-19 hampers the dental milling machines market as there is a decrease in dental procedures and services during COVID-19.

Several factors are driving the global dental milling machine market, including rising dental problems, an aging population at high risk of tooth loss, an increase in accidents resulting in tooth abnormalities, and technical improvements in dentistry. As per a March 2022 update by the World Health Organization (WHO), it is estimated that oral diseases affect nearly 3.5 billion people worldwide and severe periodontal (gum) disease, which may result in tooth loss, is also very common, with almost 10% of the global population affected. Additionally, as per the 2020 statistics by the Centers for Disease Control and Prevention, more than 1 in 4 (26%) adults have untreated tooth decay, and nearly half (46%) of all adults aged 30 years or older show signs of gum disease. Severe gum disease affects about 9% of adults in the United States.

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Moreover, dental caries is a progressive infectious disease, and untreated dental caries in the elderly population can significantly impact the quality of life of older people around the world, which is a leading factor driving the growth in the studied market. According to the World Health Organization 2021, by 2030, 1 out of every 6 people on the planet will be 60 years old or older. The number of people aged 60 and up is expected to rise from 1 billion in 2020 to 1.4 billion by 2050. By 2050, the global population of people aged 60 and above will get double to reach 2.1 billion. Between 2020 and 2050, the number of people aged 80 and above is expected to triple, reaching 426 million.

The emergence of computer-aided design/computer-aided manufacture (CAD/CAM) technology in dentistry has considerably improved the fabrication of different restorative dental materials as alternative aesthetic restorations to traditional laboratory-processed materials. Furthermore, in November 2020, Planmeca USA, a leading manufacturer of dental imaging and computer-aided design/computer-aided manufacture (CAD/CAM) equipment, launched two new computer-aided design/computer-aided manufacture (CAD/CAM) products, Planmeca PlanMill 50S 5-axis mill and Planmeca PlanCAD Premium design software for creating dental prosthetics. This solution allows clinicians to achieve maximum productivity throughout the entire digital dentistry workflow. Thus, due to the above factors, the market is expected to see robust growth during the forecast period.

Dental Milling Machine Market Trends

CAD/CAM Milling Segment is Expected to Dominate the Market Over the Forecast Period

Restorative dentistry benefits greatly from computer-aided design/computer-aided manufacture (CAD/CAM) dental milling because restorations made with CAD/CAM systems are more aesthetically appealing, marginally adaptable, and durable, and can be fabricated faster than traditional restorations. Furthermore, technology assists in lowering outsourcing costs. As a result, the factors listed above are likely to help growth during the forecast period.

Furthermore, market growth is expected to be fueled by technological advancements in computer-aided design/computer-aided manufacturing (CAD/CAM) technology. CAD developers are actively involved in the development of a platform that would enable mobility and remote access to CAD and CAM milling machines by providing access to data on mobile platforms.

There has been an increase in research and development of computer-aided design/computer-aided manufacture (CAD/CAM) applications in dentistry. For instance, as per a June 2021 published study titled, "PEEK Biomaterial Use for Chairside CAD/CAM Dental Restorations: Bridging the Gap to Future," the use of PEEK has been recommended for a wide range of CAD-CAM fabricated fixed and removable dental prostheses, occlusal splints, intra-radicular posts, implant abutments, customized healing abutments, space maintainers for pediatric dentistry, orthodontic appliances, and provisional restorations.

According to the study titled "Effect of Different CAD/CAM Milling and 3D Printing Digital Fabrication Techniques on the Accuracy of Poly(methyl methacrylate) or PMMA Working Models and Vertical Marginal Fit of PMMA Provisional Dental Prosthesis: An In Vitro Study," published in the MDPI polymer in March 2022, the CAM software converts the CAD model into a milling machine tool path automatically. This entails calculating the series of commands that govern dental millings, such as sequencing, milling tools, and tool motion direction and magnitude.

Thus, all aforementioned factors are anticipated to drive the segment growth over the forecast period.

North America Dominates the Market and Expected to do Same in the Forecast Period.

With the increase in product launches supported by the government authorities, the rising burden of dental diseases and the

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increasing geriatric population are leading to a rise in demand for dental milling machines in the United States. According to the Center for Disease Control and Prevention (CDC), National Center for Health Statistics titled 'Oral and Dental Health' updated in August 2021 reported that from 2015 to 2018 there were 13.2% of children aged 5-19 years and 25.9% of adults aged 20-44 years who had untreated dental caries in the United States. This untreated dental caries can lead to tooth extraction and generate the need for dental autoclaves in the region.?

Furthermore, the National Center for Health Statistics report titled 'Early Release of Selected Estimates Based on Data From the 2019 National Health Interview Survey released in September 2020 reported that in the United States, 64.9% of the adults aged 18 and over visited dental care centers for a dental exam or cleaning in the past 12 months in 2019. This number of visits to dental care centers creates the demand for proper sterilization of the instruments used, thus boosting the market's growth.?

Also, the National Institute of Health article titled 'Estimates of Funding for Various Research, Condition, and Disease Categories' published in June 2021 reported that an estimated USD 638 million annual research support for dental/Oral and Craniofacial Disease based on grants, contracts, and other funding mechanisms used across the National Institutes of Health.

Also, the entry of new players in the market is driving the growth in the region. For instance, in September 2020, Ditron Dental USA launched its commercial operations in the United States for its dental portfolio.

Thus, owing to the above-mentioned factors, the dental milling machine market in the United States is expected to project growth over the forecast period.?

Dental Milling Machine Market Competitor Analysis

The market is found to be moderately competitive and consists of very few major players. Companies are found implementing certain strategic initiatives, such as mergers, new product launches, acquisitions, and partnerships, which help them strengthen their market positions. The market players includes 3M Company, Amann Girrbach AG, Danaher Corporation, Dental Wings Inc., Dentsply Sirona Inc., Institut Straumann AG, Ivoclar Vivadent AG, PLANMECA OY, Zimmer Biomet Holdings, Inc., and ZIRKONZAHN GMBH

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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