

Micro Motor Market: Segmented: By Product Type (DC Micro Motors, AC Micro Motors), By Power Consumption (Less than 12V Micro Motors, 12V-48V Micro Motors, More than 48V Micro Motors), By Technology (Brushed Micro Motors, Brushless Micro Motors), By Application (Automotive, Medical Equipment Systems, Industry Automation, Agriculture Equipment System, Aircraft Systems, Construction & Mining Equipment Systems, 3D Printing) And Region – Global Analysis of Market Size, Share & Trends For 2019–2021 And Forecasts To 2031

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Abstracts

[170+ pages Report] Micro Motor Market to surpass USD 57.5 billion by 2031 from USD 37.1 billion in 2021 at a CAGR of 4.5% in the coming years, i.e., 2021-2031.

Product Overview

Micro vehicle motor is a low-power DC motor that consumes less than 100 watts. Due to the unique and stringent needs for the working environment, car owners are particularly picky about micro motor quality. The quality of a motor is determined not only by its design structure and manufacturing process, but also by the mobility of magnetic material. Previously, the wiper, electric pumps, windshield scrubber, and automatic antenna components assembly were all powered by tiny motors. However, since the automotive industry is increasingly focused on automatic controls and passenger comfort, micro-motors have become an essential component in modern vehicles.

Market Highlights

Global Micro Motor Market is expected to project a notable CAGR of 4.5% in 2031.

The market is likely to develop significantly in the next years as a result of the booming electronics industry, which is a positive indicator for micro motor sales given their wide range of applications. Micro motor integration in a variety of electronic goods, such as electronic locks, drones, fans, and many more, is expected to boost demand over the next decade.

Global Micro Motor Market: Segments

Brushed micro motors segment is predicted to register larger CAGR over the forecast period 2021-31

Based on Technology, the global Micro Motor Market is fragmented into Brushed Micro Motors, Brushless Micro. The majority of micro motors used in automotive applications are brushed motors. Brushless motors, on the other hand, have a smaller growing potential. Brushless motors are being used in sectors that are relatively new for electric motors in automotive applications and have been rapidly growing in recent years, such as increasing sales of plug-in electric vehicles with electromechanically-driven powertrain and chassis systems, which are expected to provide greater growth potential for brushless motors than for brushed motors.

Industry Automation segment is expected to grow considerably with the highest CAGR in future

Based on Application, the global Micro Motor Market is fragmented into Automotive, Medical Equipment Systems, Industry Automation, Agriculture Equipment System, Aircraft Systems, Construction & Mining Equipment Systems, 3D Printing. The adoption of efficient devices such as pick & place, robotic arms, and automatic welding systems, among others, has been fueled by automation, and with the growing emphasis on smart manufacturing, the prospect for adoption of these field devices that are more efficient and productive is evident.

Market Dynamics

Drivers

Increasing automation witnessed in different industries

One of the primary factors projected to promote the growth of the micro motor market is

the increasing automation in industries. This is most evident in the medical industry, which is advocating the use of automation to improve traditional medical service standards. Laboratories can accomplish operational automation for testing amounts of samples in a quick and efficient manner using cost-effective options such as micro motors.

Growing applications of micro motors in diverse sectors

The cost-effective and long-lasting micro motor is finding increasing use in the construction, healthcare, vehicle, and mining industries. Manufacturers are attempting to reduce the size of micromotors while improving operational quality in order to improve performance. The growth of advanced electric micro motors is now possible thanks to technological advancements and manufacturers' embrace of cutting-edge technologies.

Restraint

High capital investment in Micro Motor is restraining the industry growth

The micro motor market is likely to be hampered by a slowdown in the automobile industry and costly initial capital investment. Furthermore, the increase in demand for micro motors from robotic systems and automated robot technologies is expected to give attractive chances for the micro motor market to expand.

Global Micro Motor Market: Key Players

Mabuchi Motor Co Ltd

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

Nidec Corporation

Buhler Motor GmbH

Johnson Electric Holdings Limited

Maxon Motor AG

Arc Systems Inc

ABB Group

Mitsuba Corporation

Constar Micromotor Co Ltd

Siemens AG

Other Prominent Players

Global Micro Motor Market: Regions

Global Micro Motor Market is segmented based on regional analysis into five major regions: North America, Latin America, Europe, Asia Pacific and the Middle East and Africa. Due to increasing demand and application from various industries and segments, increasing technological advancements and requirement from developing regions and countries, increasing applicability of micro motors with the advent of technology, and increasingly adopting automation processes in this region, Asia-Pacific dominates the micro motor market.

Impact of COVID-19 on Micro Motor Market

Due to the pandemic situation in 2020, the global demand for micro motors is expected to decline steadily as the coronavirus spreads. Even though demand for micro motors was dampened in Q3 and Q4 of FY2020 due to a shortage of supply chain capabilities, the market restarted its growth phase following Q2 FY21 as supply got more in line.

Global Micro Motor Market is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States, Mexico, and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, Japan, Australia and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – South Africa and Rest of Middle East and Africa

Global Micro Motor Market report also contains analysis on:

Micro Motor Market Segments:

By Product Type

DC Micro Motors

AC Micro Motors

By Power Consumption

Less than 12V Micro Motors

12V-48V Micro Motors

More than 48V Micro Motors

By Technology

Brushed Micro Motors

Brushless Micro Motors

By Application

Automotive

Medical Equipment Systems

Industry Automation

Agriculture Equipment System

Aircraft Systems

Construction & Mining Equipment Systems

3D Printing

Micro Motor Market Dynamics

Micro Motor Market Size

Supply & Demand

Current Trends/Issues/Challenges

Competition & Companies Involved in the Market

Value Chain of the Market

Market Drivers and Restraints

Micro Motor Market Report Scope and Segmentation

Report Attribute

Details

Market size value in 2021 USD 37.1 billion

Revenue forecast in 2031 USD 57.5 billion

Growth Rate CAGR of 4.5% from 2021 to 2031

Base year for estimation 2020

Quantitative units Revenue in USD million and CAGR from 2021 to 2031

Report coverage

Revenue forecast, company ranking, competitive landscape, growth factors, and trends

Segments covered Product Type, Power Consumption, Technology, Application, and Region

Regional scope North America, Europe, Asia Pacific, Latin America, Middle East & Africa (MEA)

Key companies profiled Mabuchi Motor Co Ltd, Nidec Corporation, Buhler Motor GmbH, Johnson Electric Holdings Limited, Maxon Motor AG, Arc Systems Inc, ABB Group, Mitsuba Corporation, Constar Micromotor Co Ltd, and Siemens AG.

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**The above given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.

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