

# Global Service Robot Coreless Motor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Service Robot Coreless Motor market size is expected to reach \$ 1968 million by 2032, rising at a market growth of 47.8% CAGR during the forecast period (2026-2032).

In 2025, global Service Robot Coreless Motor production reached approximately 558.7 k units with an average global market price of around US\$220 per unit. A service robot coreless motor is an electromagnetic actuator featuring a self-supporting, ironless winding that eliminates magnetic cogging and significantly reduces rotor inertia for instantaneous bidirectional motion control. The winding equipment for this motor class must perform multi-axis synchronized deposition of fine-gauge wire under closed-loop tension regulation (typically below 10 cN) to prevent coil distortion or breakage during formation. This construction suppresses eddy current losses and thermal accumulation under frequent start-stop-reversal cycles, ensuring repeatable torque output without structural fatigue. Consequently, the motor maintains consistent electromechanical conversion efficiency across rapid acceleration, deceleration, and sustained low-speed positioning phases.

The future industry development trends of Robot Brushless Hollow Cup Motor will center on domestic substitution and technological upgrades. With the acceleration of the commercialization process of humanoid robots, hollow cup motors have become core components for dexterous hands and joints by virtue of their characteristics such as high power density, low rotational inertia, and precise control, driving enterprise revenue growth. Currently, the global high-end market is still dominated by foreign enterprises such as Switzerland's Maxon and Germany's Faulhaber. Domestic manufacturers like TBEA and Moons's are accelerating their catch-up and integrating into the supply chain by improving coil winding processes and automation equipment levels, gradually

expanding market share with cost advantages and enhancing profit margins. The requirements for high response speed and stability in service robots will further promote the deepening application of hollow cup motors in medical and industrial automation fields, and enterprises with high precision production capabilities will obtain higher market premiums.

This report studies the global Service Robot Coreless Motor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Service Robot Coreless Motor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Service Robot Coreless Motor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Service Robot Coreless Motor total production and demand, 2021-2032, (K Units)

Global Service Robot Coreless Motor total production value, 2021-2032, (USD Million)

Global Service Robot Coreless Motor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Service Robot Coreless Motor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Service Robot Coreless Motor domestic production, consumption, key domestic manufacturers and share

Global Service Robot Coreless Motor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Service Robot Coreless Motor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Service Robot Coreless Motor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Service Robot Coreless Motor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Faulhaber, Portescap, Allied Motion, Maxon Motor, Nidec Corporation, Adamant Namiki Precision Jewel, Citizen Chiba Precision, DINGS' Intelligent Control Technology, Sinbad Motor, Dongguan ZHX Motor, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Service Robot Coreless Motor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Service Robot Coreless Motor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Service Robot Coreless Motor Market, Segmentation by Type:

Brushed Coreless DC Motor

Brushless Coreless DC Motor

### Global Service Robot Coreless Motor Market, Segmentation by Winding Type:

Straight Winding Shape

Saddle Shape

Oblique Winding Shape

### Global Service Robot Coreless Motor Market, Segmentation by Motor Length:

?10mm

10-20mm

20-35mm

?35mm

### Global Service Robot Coreless Motor Market, Segmentation by Application:

Family Service

Business Service

Medical Service

Government Service

### Companies Profiled:

Faulhaber

Portescap

Allied Motion

Maxon Motor

Nidec Corporation

Adamant Namiki Precision Jewel

Citizen Chiba Precision

DINGS' Intelligent Control Technology

Sinbad Motor

Dongguan ZHX Motor

Vishan Technology

Leadshine Technology

Hechuan Technology

Constarmotor

Jiangsu Leili Motor

Shenzhen Topband

Moons' Electric

Zhaowei Machinery & Electronic

Assun Motor

#### Key Questions Answered:

1. How big is the global Service Robot Coreless Motor market?
2. What is the demand of the global Service Robot Coreless Motor market?
3. What is the year over year growth of the global Service Robot Coreless Motor

market?

4. What is the production and production value of the global Service Robot Coreless Motor market?
5. Who are the key producers in the global Service Robot Coreless Motor market?
6. What are the growth factors driving the market demand?

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