

Global Low Voltage DC Servo Motor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Low Voltage DC Servo Motor market size is expected to reach \$ 508 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

Low voltage DC servo motors are precision motion actuators driven by low-voltage DC power supplies (such as 24V, 48V, or 96V). They typically consist of a permanent magnet DC motor or brushless DC motor, an encoder, a drive unit, and control algorithms, enabling closed-loop control of position, speed, and torque. Compared to traditional AC servo systems, they offer advantages such as safe low-voltage operation, compact size, fast response, and battery-powered compatibility, making them ideal for applications such as mobile robots, AGVs/AMRs, medical devices, collaborative robots, automated grippers, and intelligent logistics systems. These products are available in both stand-alone and integrated configurations; some models integrate gearboxes, brakes, and communication interfaces, supporting protocols such as CANopen, EtherCAT, and RS485. Driven by the miniaturization, electrification, and widespread application of intelligent robots, low-voltage DC servo motors are evolving towards higher power density, higher precision, lower noise, modularity, and system integration.

The upstream of low voltage DC servo motors mainly includes electrical steel, copper wire, permanent magnet materials, bearings, encoders, chips, and precision structural components; the downstream applications are widely used in AGV/AMR, collaborative robots, medical equipment, semiconductor equipment, automated production lines, new energy equipment, and aerospace.

The global market sales volume of low-voltage DC servo motors is approximately 1.6391 million units, with an annual production capacity of approximately 1.9 million to 2

million units, and an industry profit margin of approximately 25%.

In the future, the global low voltage DC servo motor market will develop towards higher power density, smaller and lighter designs, greater intelligence, and higher integration. With the increasing demand from AGV/AMR, collaborative robots, humanoid robots, medical equipment, and semiconductor equipment, the application of 24V, 48V, and 96V products will continue to expand. Integrated motors, drivers, encoders, and reduction mechanisms will reduce equipment size and wiring costs, while the widespread adoption of industrial communication protocols such as EtherCAT and CANopen will improve real-time control capabilities. At the same time, high-precision encoders, low cogging torque designs, high-efficiency permanent magnet materials, and advanced thermal management technologies will further improve operating efficiency and positioning accuracy. Future market competition will shift from single hardware performance to software and hardware synergy, customized solutions, functional safety, and full lifecycle service capabilities.

This report studies the global Low Voltage DC Servo Motor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low Voltage DC Servo 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 Low Voltage DC Servo Motor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Low Voltage DC Servo Motor total production and demand, 2021-2032, (K Units)

Global Low Voltage DC Servo Motor total production value, 2021-2032, (USD Million)

Global Low Voltage DC Servo Motor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Low Voltage DC Servo Motor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Low Voltage DC Servo Motor domestic production, consumption, key domestic manufacturers and share

Global Low Voltage DC Servo Motor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Low Voltage DC Servo Motor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Low Voltage DC Servo Motor production by Application, production, value,

CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Low Voltage DC Servo 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 Yaskawa, Mitsubishi Electric, Panasonic, Nidec, Siemens, Kollmorgen, SIGMATEK, HDD, FAULHABER, TECO, 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 Low Voltage DC Servo 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 Low Voltage DC Servo Motor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Low Voltage DC Servo Motor Market, Segmentation by Type:

48V

24V

96V

Others

Global Low Voltage DC Servo Motor Market, Segmentation by Motor Type:

Brushed DC Servo Motor

Brushless DC Servo Motor

Global Low Voltage DC Servo Motor Market, Segmentation by Rated Power:

Below 100 W

100?400 W

400?750 W

Others

Global Low Voltage DC Servo Motor Market, Segmentation by Application:

AGV, AMR, Logistics Automation

Humanoid Robots, Service Robots

Medical Equipment and Aerospace

Electronics and Semiconductors

New Energy and Others

Companies Profiled:

Yaskawa

Mitsubishi Electric

Panasonic

Nidec

Siemens

Kollmorgen

SIGMATEK

HDD

FAULHABER

TECO

Moog Animatics

SANYO DENKI

Delta

Teknic

ElectroCraft

Kinco

Inovance

MOONS'

Leadshine

Jinan Keya Electronic

Key Questions Answered:

1. How big is the global Low Voltage DC Servo Motor market?
2. What is the demand of the global Low Voltage DC Servo Motor market?
3. What is the year over year growth of the global Low Voltage DC Servo Motor market?
4. What is the production and production value of the global Low Voltage DC Servo Motor market?
5. Who are the key producers in the global Low Voltage DC Servo Motor market?
6. What are the growth factors driving the market demand?

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