

Global LiDAR Motors Market Growth 2026-2032

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Abstracts

The global LiDAR Motors market size is predicted to grow from US\$ 269 million in 2025 to US\$ 494 million in 2032; it is expected to grow at a CAGR of 9.2% from 2026 to 2032.

LiDAR motors are motors used to drive key components in LiDAR systems, such as prisms, galvanometers, blind spot motors, etc. These motors are responsible for controlling the scanning and steering of laser beams to achieve accurate detection and measurement of the environment. LiDAR motors have high requirements in terms of performance, accuracy and reliability, as they directly affect the measurement results of the LiDAR system.

Key Findings

In 2025, global sales of LiDAR motors reached 1.584 million units, with a production capacity of approximately 2.2 million units. The average selling price was US\$173.9 per unit, and the average gross profit margin was 25%-35%.

Asia Pacific represents the largest manufacturing region with around 60%–70% of global capacity

Brushless DC motors and precision stepper motors are the main LiDAR Motor technology routes

Market Trends

The LiDAR Motor market is transitioning from early-stage technology validation toward broader commercial adoption driven by automotive LiDAR, robotics, and industrial sensing applications. Product development is increasingly focused on miniaturization,

higher rotational stability, lower vibration, improved durability, and closed-loop precision control. As LiDAR systems move toward vehicle-grade and industrial-grade deployment, motor suppliers are required to provide components with improved reliability, environmental adaptability, and consistency. The market is also gradually shifting from simple motor supply toward integrated motion modules combining motors, encoders, and control technologies.

Market Dynamics

Drivers

The expansion of autonomous driving, mobile robotics, industrial automation, and three-dimensional scanning applications is creating continuous demand for LiDAR systems and related motion components. Increasing requirements for accurate spatial sensing and high-frequency scanning performance are supporting the adoption of precision motors with better stability and control capability. The development of automotive-grade LiDAR solutions is expected to further enhance demand for reliable miniature motors.

Restraints

The LiDAR Motor market remains dependent on the development pace of mechanical and semi-solid-state LiDAR technologies. The increasing adoption of solid-state LiDAR architectures may reduce the requirement for certain moving components. In addition, high precision requirements, strict reliability standards, and cost pressure from large-scale automotive applications create challenges for suppliers in balancing performance and manufacturing cost.

Opportunities

Growth opportunities are mainly concentrated in automotive LiDAR, robotics navigation, industrial inspection, and intelligent surveying applications. Suppliers capable of providing compact, high-reliability, and integrated motor solutions have opportunities to expand cooperation with LiDAR manufacturers. The increasing demand for autonomous systems also creates opportunities for customized motor designs optimized for specific scanning architectures.

Challenges

The LiDAR Motor industry faces challenges from technology route changes, increasing

competition among precision motor suppliers, and uncertainty regarding the long-term adoption of different LiDAR architectures. Suppliers need to continuously improve product reliability, manufacturing consistency, and cost efficiency while adapting to evolving requirements from automotive and industrial customers.

Industry Chain Analysis

The LiDAR Motor industry chain consists of upstream material suppliers, midstream precision motor manufacturers, and downstream LiDAR system developers. The upstream segment includes magnetic materials, metal components, bearings, electronic components, sensors, and control-related materials. The midstream segment focuses on motor design, precision machining, winding, assembly, testing, and integration of components such as encoders and drivers. The downstream segment includes automotive LiDAR manufacturers, robotics companies, industrial measurement equipment providers, and surveying solution suppliers.

The value creation of LiDAR Motors mainly comes from precision manufacturing capability, reliability improvement, control accuracy, and adaptation to specific LiDAR scanning structures. Compared with conventional miniature motors, LiDAR Motors require higher standards in vibration control, rotational accuracy, lifetime performance, and environmental resistance, resulting in stronger technical barriers.

Segment Insights

LiDAR Motors can be segmented by motor type, scanning mechanism, application field, and performance parameters. Brushless DC motors and precision stepper motors currently represent the major technology categories due to their suitability for continuous rotation and accurate angular control. Coreless motors and closed-loop servo solutions represent higher-value segments for applications requiring faster response and higher precision.

By application, automotive LiDAR represents one of the most important future demand areas, while robotics and industrial measurement provide diversified market opportunities. The market structure is gradually shifting from basic motor components toward integrated precision motion solutions with higher technical requirements.

Downstream Market Opportunities

The downstream opportunities for LiDAR Motors are mainly concentrated in automotive

intelligent driving, robotics, industrial automation, surveying, and three-dimensional measurement. Automotive applications require high reliability, compact design, and long operating life, while robotics and industrial applications emphasize accuracy, responsiveness, and flexibility. As autonomous machines and intelligent sensing systems expand, LiDAR Motor demand is expected to benefit from broader deployment of LiDAR-based perception technologies.

Regional Insights

Asia Pacific is the largest LiDAR Motor manufacturing region, accounting for approximately 60%–70% of global production capacity. The region benefits from a mature miniature motor manufacturing ecosystem, strong electronics supply chains, and large-scale production capabilities, particularly in China and Japan. Europe maintains advantages in high-precision motor technologies and industrial motion control solutions, while North America is mainly supported by automotive LiDAR development and robotics applications.

Regional market differences are mainly reflected in manufacturing capability, customer requirements, and application focus. Asian suppliers generally compete through production scale and cost efficiency, while European and North American suppliers emphasize precision performance, reliability, and specialized applications.

Competitive Landscape Analysis

The global LiDAR Motor market includes precision motor manufacturers, motion control component suppliers, and LiDAR system companies involved in integrated scanning solutions. Competition is mainly based on motor precision, reliability, production capability, customization ability, and compatibility with different LiDAR architectures. Precision motor companies generally focus on supplying miniature BLDC motors, stepper motors, and motion control components, while LiDAR system companies mainly integrate motor solutions into scanning modules. The competitive landscape remains fragmented, with technology capability and customer collaboration becoming key factors for market development.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “LiDAR Motors Industry Forecast” looks at past sales and reviews total world LiDAR Motors sales in 2025, providing a comprehensive analysis by region and market sector of projected LiDAR

Motors sales for 2026 through 2032. With LiDAR Motors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world LiDAR Motors industry.

This Insight Report provides a comprehensive analysis of the global LiDAR Motors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on LiDAR Motors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global LiDAR Motors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for LiDAR Motors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global LiDAR Motors.

This report presents a comprehensive overview, market shares, and growth opportunities of LiDAR Motors market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

BLDC Motor

Stepper Motor

Servo Motor

Segmentation by Scanning Structure:

Rotary Scanning Motor

Mirror Scanning Motor

Oscillating Scanning Motor

Others

Segmentation by Rated Voltage:

3–12V

12–24V

Above 24V

Segmentation by Application:

Driverless Cars

Robot Navigation

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered

from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Portescap

Lin Engineering

Aspina

Nidec

MinebeaMitsumi

Jiangsu Leili

Power Motor

Constar Motor

Zongtai Motor

Topband

MOONS'

Xiangyou Pump

Jinyuan Electromechanical

Jiangkou Electric

Key Questions Addressed in this Report

What is the 10-year outlook for the global LiDAR Motors market?

What factors are driving LiDAR Motors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do LiDAR Motors market opportunities vary by end market size?

How does LiDAR Motors break out by Type, by Application?

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