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Global Optical Encoder iCs for AC Servo Motors Market Growth 2026-2032

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Abstracts

The global Optical Encoder iCs for AC Servo Motors market size is predicted to grow from US$ 145 million in 2025 to US$ 230 million in 2032; it is expected to grow at a CAGR of 6.9% from 2026 to 2032.

In 2024, global Optical Encoder ICs for AC Servo Motors production reached 27.95 million units , with an average global market price of around US$ 4.95 per unit. Optical encoder ICs are core sensing components for AC servo motors. They integrate optical emitters and photodetectors to read changes in optical signals generated by the rotation of a high-precision optical grating code wheel mounted on the motor shaft. These signals are converted into high-accuracy quadrature digital pulses (phases A/B) and an index signal (phase Z), providing real-time feedback on position, rotational speed, and direction to the servo system. As a key element in closed-loop motion control, they enable high-performance operation of AC servo motors.

The market for optical encoder ICs is intrinsically linked to the dynamics of the global servo motor industry, which is dominated by production hubs in China, the USA, Japan, and Germany. Leading servo motor manufacturers such as Mitsubishi Electric, Yaskawa, Fanuc, Panasonic, SANYO DENKI, Oriental Motor, Fuji Electric, Shibaura Machine, and Nidec represent key downstream customers for encoder IC suppliers. These companies drive demand for high-precision, reliable encoder solutions, as performance directly impacts servo motor accuracy, efficiency, and responsiveness.

Given the concentrated influence of these major players, encoder IC suppliers must align their R&D and production strategies with the technical requirements and cost pressures of these OEMs. Raw material cost fluctuations remain a critical challenge, necessitating efficient cost-pass-through mechanisms to maintain margins.

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Geographically, the encoder IC market mirrors the servo motor industry's shift toward Asia-Pacific, particularly China and Southeast Asia, where industrial automation investments are accelerating. While competition in low-end encoder ICs is intense, opportunities lie in high-resolution, miniaturized, and environmentally robust solutions tailored for premium servo systems.

To capture value in this supply chain, encoder IC providers should strengthen partnerships with top-tier motor manufacturers, focus on innovation for next-generation servo applications (e.g., collaborative robots, precision machinery), and expand distribution networks in high-growth regions. The dominance of Asian markets underscores the need for localized support and agile response to regional customer needs.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the "Optical Encoder iCs for AC Servo Motors Industry Forecast" looks at past sales and reviews total world Optical Encoder iCs for AC Servo Motors sales in 2025, providing a comprehensive analysis by region and market sector of projected Optical Encoder iCs for AC Servo Motors sales for 2026 through 2032. With Optical Encoder iCs for AC Servo Motors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Optical Encoder iCs for AC Servo Motors industry.

This Insight Report provides a comprehensive analysis of the global Optical Encoder iCs for AC Servo 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 Optical Encoder iCs for AC Servo Motors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Optical Encoder iCs for AC Servo Motors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Optical Encoder iCs for AC Servo 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 Optical Encoder iCs for AC Servo Motors.

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This report presents a comprehensive overview, market shares, and growth opportunities of Optical Encoder iCs for AC Servo Motors market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Reflective Type

Transmissive Type

Segmentation by Application:

General Manufacturing Machinery

Robots

Machine Tools

3C Products

Semiconductor Manufacturing Equipment

Lithium Ion Battery Manufacturing Equipment

Solar Power Generation Equipment

Display Equipment

Others

This report also splits the market by region:

Americas

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United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

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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.

Broadcom

Nisshinbo Micro Devices

SEIKO NPC

IC-Haus

PREMA Semiconductor

Hamamatsu

Time Vision Technology

Suzhou Ambition Microelectronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Optical Encoder iCs for AC Servo Motors market?

What factors are driving Optical Encoder iCs for AC Servo Motors market growth, globally and by region?

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

How do Optical Encoder iCs for AC Servo Motors market opportunities vary by end market size?

How does Optical Encoder iCs for AC Servo Motors break out by Type, by Application?

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