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Global Optical Encoder iCs for Stepper Motors Market Growth 2026-2032

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Abstracts

The global Optical Encoder iCs for Stepper Motors market size is predicted to grow from US$ 38.6 million in 2025 to US$ 60.85 million in 2032; it is expected to grow at a CAGR of 6.8% from 2026 to 2032.

In 2024, global Optical Encoder ICs for Stepper Motors production reached 7.53 million units , with an average global market price of around US$ 4.9 per unit. Optical encoder ICs are critical feedback components enabling closed-loop control in stepper motors. They integrate optical emitters and photodetectors to detect changes in light patterns generated by the rotation of an encoded disk on the motor shaft. These patterns are converted into high-precision quadrature digital pulses (phases A/B) and an index signal (phase Z), providing real-time feedback on the rotor's actual position and motion status. This functionality effectively addresses stepper motor loss-of-step issues while enhancing positioning accuracy and system reliability.

The demand for optical encoder ICs for stepper motors is primarily driven by leading manufacturers such as MinebeaMitsumi, Nidec Corporation, Oriental Motor, Tamagawa Seiki, Shinano Kenshi, SANYO DENKI, Jiangsu Leili Motor, MOONS', and Nippon Pulse Motor. As the industry shifts from open-loop to high-precision closed-loop control, encoder ICs have become critical components for enhancing positional accuracy and resolving loss-of-step issues.

Downstream manufacturers prioritize miniaturization, high resolution, and cost-effectiveness in encoder ICs. The Asian market, particularly China and Japan, dominates both production and demand. Local suppliers must balance price competitiveness with breakthroughs in high-resolution and noise immunity technologies. It is recommended that encoder IC companies deepen collaborations with leading

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stepper motor manufacturers, develop customized solutions for high-growth fields such as collaborative robotics, precision medical devices, and industrial automation, and drive the industry’s transition from price-based to value-based competition through technological innovation.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Optical Encoder iCs for Stepper Motors Industry Forecast” looks at past sales and reviews total world Optical Encoder iCs for Stepper Motors sales in 2025, providing a comprehensive analysis by region and market sector of projected Optical Encoder iCs for Stepper Motors sales for 2026 through 2032. With Optical Encoder iCs for Stepper 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 Stepper Motors industry.

This Insight Report provides a comprehensive analysis of the global Optical Encoder iCs for Stepper 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 Stepper 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 Stepper Motors market.

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

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

Market Segmentation

Segmentation by Type:

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Reflective Type

Transmissive Type

Segmentation by Application:

Hybrid Stepper Motors

Permanent Magnet Stepper Motors

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

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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.

Broadcom

Nisshinbo Micro Devices

SEIKO NPC

IC-Haus

PREMA Semiconductor

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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 Stepper Motors market?

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

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

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

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

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