

# Global Optical Encoder for Servo Motors Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Optical Encoder for Servo Motors market size is expected to reach \$ 1732 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

An optical encoder for servo motors is a feedback device that converts the rotation of a servo motor shaft into electrical position and speed information, using light + a patterned code disk/scale. The servo drive/controller uses this feedback to correct the motor in real time, so the motor can follow commanded position, speed, and torque accurately. In a servo system, this feedback is what "closes the loop": the controller compares the commanded motion to the measured motion and continuously adjusts output to reduce error and reject disturbances (load changes, friction, vibration, etc.). From a market-definition point of view, the "optical encoder for servo motors" segment includes encoder products that are designed to mount on (or be integrated into) a servo motor and deliver motion feedback to a servo drive. The main product forms include built-in motor feedback encoders (integrated inside the motor housing), rear-mounted encoders (mounted on the motor's tail shaft), and kit/frameless encoders (a ring/board and disk designed to be integrated by the motor OEM). In servo applications, encoders are frequently treated as part of the motor package because the control performance depends on both motor and feedback working together. Industry references describe motor encoders as devices that measure shaft position and speed and provide feedback to the motor control system so it can adjust speed/position in real time. Optical encoders used on servo motors commonly fall into two functional categories: incremental and absolute. Incremental encoders output pulses as the shaft moves; the drive derives speed from pulse frequency and derives position by counting pulses from a known reference. If power is lost, the controller typically loses the "count" and must re-establish a reference (often via a homing routine). Absolute encoders output a unique position value (a digital "address") for each shaft angle (and for multi-turn, also the turn

count). A key reason absolute encoders are popular in servo systems is that the position value can be available immediately after power-on, and many designs avoid the need to move the axis to find a reference point. HEIDENHAIN, for example, states that absolute encoders provide a safe absolute position value, including immediately after switch-on or a power failure, which directly supports faster restart and simpler commissioning.

In 2025, global Optical Encoder for Servo Motors production reached approximately 17441 K Units, with an average global market price of around US\$ 65.8 per unit. The global single-line production capacity ranges from 300 to 500 K Units per year. The industry's gross profit margin is approximately 30%-40%.

One of the strongest trends is the continued move from incremental-only feedback to absolute feedback in servo axes, especially where restart time and process continuity matter. Incremental systems can be excellent for speed control and relative positioning, but they typically require re-referencing after power interruptions. Absolute feedback reduces or removes that restart friction because the drive can request a position value immediately upon switch-on and does not need a reference search in many cases. As factories push for higher uptime and fewer manual interventions, this practical benefit becomes a direct purchasing driver.

A second trend is the rapid growth of digital serial interfaces for absolute encoders in servo systems. Rather than only using classic A/B incremental pulses, many modern servo designs use serial protocols that transmit a position word with error checking and timing designed for motion control. BiSS (including BiSS C and BiSS Safety) is one example that is repeatedly positioned as a high-speed serial interface suited to dynamic axes.

A third trend is integration into the motor through compact kit encoders and built-in feedback modules. Many OEMs want smaller motors, shorter overall actuator length, and fewer assembly steps. Kit encoders are designed for this: they can be integrated into the motor housing with minimal added axial length. Suppliers explicitly market kit encoders for integration into servo motors, stepper motors, or BLDC motors, reflecting a demand shift from ?external feedback accessory? to ?motor-integrated sensing.? This is especially visible in robotics joints, compact servo actuators, AGVs/AMRs, and automation modules where packaging space is tight and cable routing is constrained. This report studies the global Optical Encoder for Servo Motors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Optical Encoder for Servo Motors 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 Optical Encoder for Servo Motors that contribute to its increasing demand across many markets.

## Highlights and key features of the study

Global Optical Encoder for Servo Motors total production and demand, 2021-2032, (K Units)

Global Optical Encoder for Servo Motors total production value, 2021-2032, (USD Million)

Global Optical Encoder for Servo Motors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Optical Encoder for Servo Motors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Optical Encoder for Servo Motors domestic production, consumption, key domestic manufacturers and share

Global Optical Encoder for Servo Motors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Optical Encoder for Servo Motors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Optical Encoder for Servo Motors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Optical Encoder for Servo Motors 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 Broadcom, BEI Sensors, Renishaw, Dynapar, Baumer Group, TAMAGAWA SEIKI, CTS, Allied Motion, EPC, US Digital, 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 Optical Encoder for Servo Motors 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 Optical Encoder for Servo Motors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Optical Encoder for Servo Motors Market, Segmentation by Type:

Incremental Encoders

Absolute Encoders

#### Global Optical Encoder for Servo Motors Market, Segmentation by Measurement Type:

Rotary Optical Encoders

Linear Optical Encoders

#### Global Optical Encoder for Servo Motors Market, Segmentation by Mechanical Construction:

Shaft Encoders

Hollow-Shaft Encoders

Ring Encoders

Others

#### Global Optical Encoder for Servo Motors Market, Segmentation by Optical Principle:

Transmissive

Reflective

Interferential

#### Global Optical Encoder for Servo Motors Market, Segmentation by Application:

Machine Tool

Industrial Control System

Robot

Others

#### **Companies Profiled:**

Broadcom

BEI Sensors

Renishaw

Dynapar

Baumer Group

TAMAGAWA SEIKI

CTS

Allied Motion

EPC

US Digital

CUI

OMRON Corporation

HEIDENHAIN

Bourns

Grayhill

Gurley Precision Instruments

HONEYWELL INTERNATIONAL INC

Graduate Honest Sensor Corp

HONTKO

Yuheng Optics

Inovance Technology

**Key Questions Answered:**

1. How big is the global Optical Encoder for Servo Motors market?
2. What is the demand of the global Optical Encoder for Servo Motors market?
3. What is the year over year growth of the global Optical Encoder for Servo Motors market?
4. What is the production and production value of the global Optical Encoder for Servo Motors market?
5. Who are the key producers in the global Optical Encoder for Servo Motors market?
6. What are the growth factors driving the market demand?

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