

# Global Collaborative Robot Encoders Market Growth 2026-2032

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## Abstracts

The global Collaborative Robot Encoders market size is predicted to grow from US\$ 67.67 million in 2025 to US\$ 236 million in 2032; it is expected to grow at a CAGR of 19.6% from 2026 to 2032.

A collaborative robot encoder is a precision sensor used to measure joint position, speed, and direction in collaborative robots. It is a key component enabling high-precision motion control, safe human–robot interaction, collision detection, hand-guiding, and repeatability. Compared with conventional industrial robot encoders, cobot encoders emphasize high resolution, low latency, functional safety (SIL2/PLd), and redundant feedback. In 2025, global collaborative robot encoder production reached approximately 706.6 K Units. Upstream materials include optical gratings, LEDs, photodiodes, magnetic chips, ASICs, precision bearings, and housings. Downstream customers are collaborative robot OEMs and automation integrators including Universal Robots, KUKA, ABB, JAKA, AUBO, and Elite, serving electronics, automotive, new energy, medical, and research industries.

The collaborative robot encoder market is expanding rapidly in line with the strong growth of collaborative robots. The demand is shifting from incremental encoders toward absolute, safety-certified, and redundant architectures. Magnetic and inductive encoders are gaining share due to robustness and compactness, while optical encoders remain dominant in high-precision joints.

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

Collaborative Robot Encoders sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Collaborative Robot Encoders industry.

This Insight Report provides a comprehensive analysis of the global Collaborative Robot Encoders 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 Collaborative Robot Encoders portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Collaborative Robot Encoders market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Collaborative Robot Encoders 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 Collaborative Robot Encoders.

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

Segmentation by Type:

Incremental

Absolute

Segmentation by Sensing Principle:

Optical Encoder

Magnetic Encoder

Inductive Encoder

## Capacitive Encoder

### Segmentation by Mounting:

In-joint

Motor Feedback

External Redundant

### Segmentation by Functional Safety:

Non-safety

SIL1 / PLc

SIL2 / PLd

SIL3 / PLe

### Segmentation by Application:

Micro-load Cobot: ?3 kg

Light-load Cobot: 3–7 kg

Medium-load Cobot: 7–15 kg

Heavy-load Cobot: ?15 kg

### 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.

Heidenhain

Dynapar

Tamagawa

Baumer

Pepperl+Fuchs

Renishaw

Avago Technologies (Broadcom)

Sensata Technologies

Bourns

Balluff

TE Connectivity

Kubler

TR-Electronic

Hutchinson

Netzer Precision

Rozum Robotics

Lika Electronics

Celera Motion

BEI Sensors

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Collaborative Robot Encoders market?

What factors are driving Collaborative Robot Encoders market growth, globally and by region?

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

How do Collaborative Robot Encoders market opportunities vary by end market size?

How does Collaborative Robot Encoders break out by Type, by Application?

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