

# Global Robotic Inductive Encoder Market Growth 2026-2032

<https://marketpublishers.com/r/GA56895251B0EN.html>

Date: April 2026

Pages: 96

Price: US\$ 3,660.00 (Single User License)

ID: GA56895251B0EN

## Abstracts

The global Robotic Inductive Encoder market size is predicted to grow from US\$ 138 million in 2025 to US\$ 432 million in 2032; it is expected to grow at a CAGR of 17.6% from 2026 to 2032.

Robotic inductive encoder is a non-contact position feedback device that uses electromagnetic induction (transformer-/resolver-like coupling) between stator and rotor and demodulates the coupling/phase change to output angular/position information (often absolute or incremental). It is valued for robustness in contamination, shock/vibration, humidity, and compact integration in robot joints. In 2025, global robotic inductive encoders production reached approximately 889.20 K Units. The upstream includes copper and conductors, PCB and laminate substrates, magnetic and shielding materials, signal-chain semiconductors, and precision mechanical and packaging components. Inductive encoders often rely on planar or laminated coil structures to realize electromagnetic coupling, which places stringent requirements on PCB quality, copper foil consistency, and insulation reliability. At the same time, excitation, demodulation, ADC, and interface ICs determine signal integrity, resolution, and EMC performance, while cables, connectors, and encapsulation largely define lifetime and robustness in harsh industrial environments. Downstream demand comes from robot manufacturers, joint and servo system suppliers, and automation system integrators, serving applications such as traditional industrial robots (welding, painting, handling, assembly), collaborative robots, mobile robots (AMR/AGV with manipulators), medical and life-science robots, and selected field or service robots.

Demand for robotic inductive encoder is shaped by (1) higher joint integration (frameless/bearingless designs for hollow shafts), (2) stronger requirements for robustness under contamination/vibration/EMI, and (3) ongoing evolution toward simpler

cabling, higher data rates, and manufacturing-friendly integration as inductive scanning platforms advance.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Robotic Inductive Encoder 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 Robotic Inductive Encoder.

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

Segmentation by Type:

Rotary/Angle

Linear

Segmentation by Output:

Absolute

Incremental

Segmentation by Interface:

Digital

Analog

Segmentation by Integration Point:

Motor Feedback

Output-side

Segmentation by Application:

Collaborative Robots (Cobots)

Medical Robots

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.

Heidenhain

Renishaw

Sensata Technologies

Kubler

Celera Motion (Zettlex IncOder)

Gongwang Electronics

Reagles Sensor

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Robotic Inductive Encoder market?

What factors are driving Robotic Inductive Encoder market growth, globally and by region?

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

How do Robotic Inductive Encoder market opportunities vary by end market size?

How does Robotic Inductive Encoder break out by Type, by Application?

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