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Global Robotic Inductive Encoder Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Robotic Inductive Encoder market size was valued at US$ 146 million in 2025 and is forecast to a readjusted size of US$ 431 million by 2032 with a CAGR of 16.5% during review period.

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

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robustness under contamination/vibration/EMI, and (3) ongoing evolution toward simpler cabling, higher data rates, and manufacturing-friendly integration as inductive scanning platforms advance.

This report is a detailed and comprehensive analysis for global Robotic Inductive Encoder market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Robotic Inductive Encoder market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Robotic Inductive Encoder market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Robotic Inductive Encoder market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Robotic Inductive Encoder market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:
To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Robotic Inductive Encoder
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global Robotic Inductive Encoder market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Heidenhain, Renishaw, Sensata Technologies, Kubler, Celera Motion (Zettlex IncOder), Gongwang Electronics, Reagles

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Sensor, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Robotic Inductive Encoder market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Rotary/Angle

Linear

Market segment by Output

Absolute

Incremental

Market segment by Interface

Digital

Analog

Market segment by Integration Point

Motor Feedback

Output-side

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Market segment by Application

Collaborative Robots (Cobots)

Medical Robots

Others

Major players covered

Heidenhain

Renishaw

Sensata Technologies

Kubler

Celera Motion (Zettlex IncOder)

Gongwang Electronics

Reagles Sensor

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Robotic Inductive Encoder product scope, market overview, market estimation caveats and base year.

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Chapter 2, to profile the top manufacturers of Robotic Inductive Encoder, with price, sales quantity, revenue, and global market share of Robotic Inductive Encoder from 2021 to 2026.

Chapter 3, the Robotic Inductive Encoder competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Robotic Inductive Encoder breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Robotic Inductive Encoder market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Robotic Inductive Encoder.

Chapter 14 and 15, to describe Robotic Inductive Encoder sales channel, distributors, customers, research findings and conclusion.

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