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Global Inductive Angle Encoders Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Inductive Angle Encoders market size is expected to reach $ 174 million by 2032, rising at a market growth of 4.8% CAGR during the forecast period (2026-2032).

In 2025, global inductive angle encoder production reached approximately 566 k units, the average price is 215 usd/unit. Inductive angle encoders are non-contact angle sensing devices. They form excitation and receiving windings by arranging multiple layers of planar coils or PCB windings on the stator, and by changing the mutual inductance or impedance between the coils with the help of a metal target/conductive magnetic pattern on the rotor side. This converts the rotor angle into a sine/cosine induction signal, which is then calculated by internal AD and microstepping to obtain the absolute angle position or incremental pulse output. The advantages are that it is resistant to oil and dust, has no permanent magnets, has controlled temperature drift, and is suitable for high-precision angle measurement under harsh working conditions.

Market Concentration and Major Players:

Internationally, the market for inductive angle encoders is highly concentrated, mainly in developed countries such as Europe and the United States. Large manufacturers include FLUX and Novanta. Domestically, however, there is still significant room for growth in the inductive angle encoder market.

Manufacturing Process and Market Trends:

Inductive angle encoders are manufactured using PCB technology to create strictly symmetrical planar coils from the stator excitation and receiving windings and the rotor metal or copper pattern. After mounting the ASIC and connectors, controlling rotor-

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stator alignment and air gap uniformity, quadrature correction for amplitude and phase misalignment, harmonic/error mapping, and temperature compensation are used to lock in subdivision stability. Finally, protective potting and environmental screening are performed before delivery.

The global trend is driven by the need for reliable contactless solutions in environments with oil, dust, vibration, and stray magnetic fields. More and more scenarios are using it to replace optical solutions or directly replace solutions with magnets to avoid demagnetization and magnetic interference. At the same time, automotive-grade drive-by-wire control and high-speed motor feedback have made ISO 26262 redundant diagnostics and smaller, thinner integrated PCB target disk structures the mainstream. The overall competitive landscape is concentrating on a few suppliers that can simultaneously stabilize winding accuracy, air gap tolerance, and system-level calibration.

This report studies the global Inductive Angle Encoders production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Inductive Angle Encoders 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 Inductive Angle Encoders that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Inductive Angle Encoders total production and demand, 2021-2032, (K Units)
Global Inductive Angle Encoders total production value, 2021-2032, (USD Million)
Global Inductive Angle Encoders production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Inductive Angle Encoders consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Inductive Angle Encoders domestic production, consumption, key domestic manufacturers and share
Global Inductive Angle Encoders production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Inductive Angle Encoders production by Voltage, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Inductive Angle Encoders production by Application, production, value, CAGR,

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2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Inductive Angle Encoders 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 Sentech (USA), Novanta (USA), HEIDENHAIN (Germany), LENZ Encoders (Germany), FLUX (Austria), Renishaw (UK), Leine Linde (Sweden), Sengle Electric (Shanghai)(China), Shenzhen Mosrac Motor(China), 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 Inductive Angle Encoders 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 Voltage, 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 Inductive Angle Encoders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Global Inductive Angle Encoders Market, Segmentation by Voltage:

5V

12V

24V

Other

Global Inductive Angle Encoders Market, Segmentation by Measurement:

Absolute

Incremental

Global Inductive Angle Encoders Market, Segmentation by Dimension:

Single Lap

Multiple Laps

Global Inductive Angle Encoders Market, Segmentation by Application:

Medical

Industrial

Aerospace

National Defense

Other

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Companies Profiled:

Sentech (USA)

Novanta (USA)

HEIDENHAIN (Germany)

LENZ Encoders (Germany)

FLUX (Austria)

Renishaw (UK)

Leine Linde (Sweden)

Sengle Electric (Shanghai)(China)

Shenzhen Mosrac Motor(China)

Key Questions Answered:
1. How big is the global Inductive Angle Encoders market?
2. What is the demand of the global Inductive Angle Encoders market?
3. What is the year over year growth of the global Inductive Angle Encoders market?
4. What is the production and production value of the global Inductive Angle Encoders market?
5. Who are the key producers in the global Inductive Angle Encoders market?
6. What are the growth factors driving the market demand?

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