

Global Angle Encoder Market To Reach \$2.04 Billion By 2029 With A Growth Rate Of 9.5%

The Business Research Company's Global Angle Encoder Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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Angle Encoder Global Market Report 2025



The angle encoder market size has been experiencing robust growth in recent years. It expanded from \$1.29 billion in 2024 to reach an estimated value of \$1.42 billion in 2025, showing a

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compound annual growth rate CAGR of 9.7%. The growth during this historic period is due largely to the increased adoption of CNC machines, the rise of industrial automation, growth in the aerospace and defense sector, a surge in robotics deployment, and the wider use of medical equipment applications.

Where Is The Angle Encoder Market Headed In The Future?

The angle encoder market is set to maintain this strong growth trend over the next few years, reaching a projected

\$2.04 billion by 2029, with a CAGR of 9.5%. The growth forecasted for this period can be attributed to an increase in demand for high-precision robotics, the miniaturization of components, growth in semiconductor manufacturing equipment, increased use in medical automation, and an expansion of automation in agriculture.

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What's Driving the [Angle Encoder Market Growth?](#)

One key market driver going forward is the rising demand for industrial automation, which is

expected to boost the angle encoder market. Industrial automation refers to the use of machines and control systems to operate industrial processes automatically. Automation is increasingly in demand due to its potential to increase efficiency, reduce manual errors, lower operational costs, and speed up processes — all crucial factors for maintaining competitiveness in fast-paced markets. Angle encoders play a significant role in automation by providing high-resolution rotational position data, which allows for precise control of angular movements in machinery and robotic systems. This precise control is essential for enhancing accuracy, synchronization, and overall performance in automated operations. For instance, the International Federation of Robotics, a Germany-based organization, reported that the number of operational robots worldwide reached 4,281,585 in 2023, marking a 10% increase from 2022.

Who Are The Key Players In [The Angle Encoder Market?](#)

The angle encoder market features an array of major companies including Bourns Inc., HEIDENHAIN Corporation, Renishaw plc, Omron Corporation, Kübler Group, Hengstler GmbH, TAMAGAWA SEIKI CO. LTD., Celera Motion LLC, Zettlex Ltd., Dynapar Encoders, Leine & Linde, AB, NOVOSENSE Microelectronics, Gurley Precision Instruments Inc., RSF Elektronik GmbH, Magnescale Co. Ltd., GIVI MISURE S.R.L., ELGO Electronic GmbH & Co. KG, FLUX GmbH, AVL List GmbH, and CAMS Cardiff Ltd.

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What's The Latest Trend In The Angle Encoder Market?

Furthermore, some of the major trends forecast for the period include: technological advancements in encoder design; miniaturization and enhanced functionality; integration with IoT and Industry 4.0; advancements in optical and magnetic sensing technologies; and a trend towards customization and application-specific solutions.

How Is The Angle Encoder Market Segmented?

The angle encoder market can be segmented by type, technology, application area, and end-user industry. These sectors are further broken down into:

By Type:

- Incremental Angle Encoders
- Absolute Angle Encoders

By Technology:

- Optical Encoders
- Magnetic Encoders
- Capacitive Encoders
- Mechanical Encoders,

By Application Area:

- Industrial Automation
- Automotive
- Aerospace
- Consumer Electronics

By End-user Industry:

- Manufacturing
- Energy And Power
- Telecommunications
- Healthcare

What Are The Regional Insights Of The Angle Encoder Market?

The largest region within the angle encoder market in 2024 was North America. However, Asia-Pacific is projected to be the region demonstrating the fastest growth in the forecast period. Other regions covered in this report include Western Europe, Eastern Europe, South America, Middle East, and Africa.

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