

Global Angle Measuring Encoders Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G270A91EA373EN.html>

Date: May 2025

Pages: 177

Price: US\$ 3,480.00 (Single User License)

ID: G270A91EA373EN

Abstracts

According to our (Global Info Research) latest study, the global Angle Measuring Encoders market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

An angle measuring encoder is a device used to determine the angular position of a rotating object. It consists of a sensor, which detects the rotation of the object, and a measurement system, which calculates the angle based on the sensor's input. Angle measuring encoders are widely used in various industries, including manufacturing, robotics, and automation. An angle measurement encoder is an electronic device that is mainly used to detect and measure motion parameters such as angular position, rotational speed, angular acceleration, etc. It accurately locates the angular change of the rotating shaft by converting mechanical rotation into electrical signals. The encoder usually contains a grating disk and a sensor assembly. When the encoder rotates with the mechanical equipment, the pattern on the grating disk interacts with the sensor to generate a series of pulse signals corresponding to the position, and then calculates the actual angular position. Depending on the resolution and design, angle measurement encoders can be used in various high-precision positioning systems, such as robot joint position control, CNC machine tools, radar antenna positioning, and precision instrumentation.

This report is a detailed and comprehensive analysis for global Angle Measuring Encoders 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 Angle Measuring Encoders market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Angle Measuring Encoders market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Angle Measuring Encoders market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Angle Measuring Encoders market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Angle Measuring Encoders

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 Angle Measuring Encoders 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, Baumer, Megatron Elektronik, Celera Motion, ELGO Electronic, ASM Sensors, RSF Elektronik, AMO Automatisierung Messtechnik Optik GmbH, K?bler Group, Fagor Automation, etc.

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

Market Segmentation

Angle Measuring Encoders market is split by Type and by Application. For the period 2020-2031, 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

Absolute Angle Encoders

Incremental Angle Encoders

Market segment by Application

3C Electronics

Semiconductor

Servo Motors

Machine Tools

Measuring Instruments

Others

Major players covered

Heidenhain

Baumer

Megatron Elektronik

Celera Motion

ELGO Electronic

ASM Sensors

RSF Elektronik

AMO Automatisierung Messtechnik Optik GmbH

K?bler Group

Fagor Automation

Renishaw

Tamagawa Seiki

AVL

Dynapar

Nemicon Corporation

Pepperl+Fuchs

SICK

OMRON Corporation

Netzer

WayCon Positionsmesstechnik

Givi Misure

Hohner Automation

HAWE Hydraulik

Laser Technology

POSITAL

Changchun Yuheng Optics

Guangzhou Jinggu Intelligent Equipment

Suzhou PMT Technologies

Changchun Rongde Optical

TJR Precision Technology

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 Angle Measuring Encoders product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Angle Measuring Encoders, with price, sales quantity, revenue, and global market share of Angle Measuring Encoders from 2020 to 2025.

Chapter 3, the Angle Measuring Encoders competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Angle Measuring Encoders breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Angle Measuring Encoders market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Angle Measuring Encoders.

Chapter 14 and 15, to describe Angle Measuring Encoders sales channel, distributors, customers, research findings and conclusion.

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