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Global Absolute Single-Turn 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 Absolute Single-Turn Encoder market size was valued at US$ 398 million in 2025 and is forecast to a readjusted size of US$ 579 million by 2032 with a CAGR of 5.5% during review period.

Absolute single-turn encoders are sensors that measure the angular position of a rotating shaft or component within a single revolution, providing a unique and specific position value for every point in that 360-degree rotation. Unlike incremental encoders, which only provide information about changes in position, absolute encoders give an absolute positional value, ensuring that the exact position is known at all times, even after power loss or system interruptions.

This report is a detailed and comprehensive analysis for global Absolute Single-Turn 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 Absolute Single-Turn Encoder market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

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Global Absolute Single-Turn 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 Absolute Single-Turn 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 Absolute Single-Turn 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 Absolute Single-Turn 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 Absolute Single-Turn 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, Tamagawa, Nemicon, P+F, TR Electronic, Baumer, Kuebler, Danaher, Omron, Koyo, etc.

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

Market Segmentation

Absolute Single-Turn 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.

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Market segment by Type

Optical Absolute Single-Turn Encoders

Magnetic Absolute Single-Turn Encoders

Inductive Absolute Single-Turn Encoders

Others

Market segment by Application

Healthcare

Machine Tool

Consumer Electronics

Assembly Equipment

Others

Major players covered

Heidenhain

Tamagawa

Nemicon

P+F

TR Electronic

Baumer

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Kuebler

Danaher

Omron

Koyo

Sensata(BEI)

Sick

Yuheng Optics

ELCO

Wuxi CREATE

Roundss

Sanfeng

Shanghai HOUDE

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)

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

Chapter 1, to describe Absolute Single-Turn Encoder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Absolute Single-Turn Encoder, with price, sales quantity, revenue, and global market share of Absolute Single-Turn Encoder from 2021 to 2026.

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

Chapter 4, the Absolute Single-Turn 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 Absolute Single-Turn 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 Absolute Single-Turn Encoder.

Chapter 14 and 15, to describe Absolute Single-Turn Encoder sales channel, distributors, customers, research findings and conclusion.

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