

Global Absolute Encoders Market Research Report 2025(Status and Outlook)

<https://marketpublishers.com/r/G45A170516D5EN.html>

Date: August 2025

Pages: 171

Price: US\$ 3,200.00 (Single User License)

ID: G45A170516D5EN

Abstracts

Report Overview

Absolute encoders are high-precision electromechanical devices used to determine the angular position of a rotating shaft by providing a unique digital output for each distinct position, eliminating the need for a reference point upon power-up. Unlike incremental encoders, which measure relative movement, absolute encoders maintain position data even during power loss, making them critical in applications requiring accuracy, reliability, and repeatability, such as robotics, aerospace, CNC machinery, and industrial automation. The market for absolute encoders is driven by increasing automation across industries, demand for real-time position feedback in smart manufacturing, and advancements in Industry 4.0 technologies. Optical, magnetic, and capacitive are the dominant encoder types, each catering to specific performance and environmental requirements. The growing adoption of multi-turn absolute encoders, which track multiple rotations, further expands their use in complex motion control systems. Geographically, Asia-Pacific leads demand due to rapid industrialization, while North America and Europe focus on high-end applications in aerospace and medical equipment. Key challenges include high costs compared to incremental encoders and sensitivity to environmental factors like vibration and contamination. However, innovations in miniaturization, wireless communication, and integration with IoT systems are expected to sustain market growth. Major players include Heidenhain, Sick AG, Renishaw, and Omron, competing on precision, durability, and customization capabilities.

The global Absolute Encoders market size was estimated at USD 1201.32 million in 2024 and is projected to grow at a compound annual growth rate (CAGR) of 5.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Absolute Encoders market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Absolute Encoders market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Absolute Encoders market.

Global Absolute Encoders Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Heidenhain

Dynapar
Tamagawa
Baumer Group
Nemicon
Pepperl+Fuchs
Hengstler GmbH
Omron
Sensata Technologies (BEI)
Encoder Products Company
TR-Electronic GmbH
FRABA
Renishaw
Kubler
Koyo
Leine & Linde
Sick
Rep Avago
Yuheng Optics
ELCO
Wuxi CREATE
Changchun Rongde Optics
Market Segmentation (by Type)
Solid Shaft
Hollow Shaft
Market Segmentation (by Application)
Elevator Industry
Machine Tool
Motor
Food & Packaging Machinery
Textile Machinery
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of

MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Absolute Encoders Market

Overview of the regional outlook of the Absolute Encoders Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Absolute Encoders Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Absolute Encoders, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents
The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly
Provision of market value data for each segment and sub-segment
Indicates the region and segment that is expected to witness the fastest growth as well

as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Absolute Encoders
- 1.2 Key Market Segments
 - 1.2.1 Absolute Encoders Segment by Type
 - 1.2.2 Absolute Encoders Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 ABSOLUTE ENCODERS MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Absolute Encoders Market Size (M USD) Estimates and Forecasts (2020-2033)
 - 2.1.2 Global Absolute Encoders Sales Estimates and Forecasts (2020-2033)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 ABSOLUTE ENCODERS MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Absolute Encoders Product Life Cycle
- 3.3 Global Absolute Encoders Sales by Manufacturers (2020-2025)
- 3.4 Global Absolute Encoders Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Absolute Encoders Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Absolute Encoders Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Absolute Encoders Market Competitive Situation and Trends
 - 3.8.1 Absolute Encoders Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Absolute Encoders Players Market Share by Revenue
 - 3.8.3 Mergers & Acquisitions, Expansion

4 ABSOLUTE ENCODERS INDUSTRY CHAIN ANALYSIS

- 4.1 Absolute Encoders Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF ABSOLUTE ENCODERS MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Absolute Encoders Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Absolute Encoders Market
- 5.7 ESG Ratings of Leading Companies

6 ABSOLUTE ENCODERS MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Absolute Encoders Sales Market Share by Type (2020-2025)
- 6.3 Global Absolute Encoders Market Size Market Share by Type (2020-2025)
- 6.4 Global Absolute Encoders Price by Type (2020-2025)

7 ABSOLUTE ENCODERS MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Absolute Encoders Market Sales by Application (2020-2025)
- 7.3 Global Absolute Encoders Market Size (M USD) by Application (2020-2025)

7.4 Global Absolute Encoders Sales Growth Rate by Application (2020-2025)

8 ABSOLUTE ENCODERS MARKET SALES BY REGION

8.1 Global Absolute Encoders Sales by Region

8.1.1 Global Absolute Encoders Sales by Region

8.1.2 Global Absolute Encoders Sales Market Share by Region

8.2 Global Absolute Encoders Market Size by Region

8.2.1 Global Absolute Encoders Market Size by Region

8.2.2 Global Absolute Encoders Market Size Market Share by Region

8.3 North America

8.3.1 North America Absolute Encoders Sales by Country

8.3.2 North America Absolute Encoders Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Absolute Encoders Sales by Country

8.4.2 Europe Absolute Encoders Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Absolute Encoders Sales by Region

8.5.2 Asia Pacific Absolute Encoders Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Absolute Encoders Sales by Country

8.6.2 South America Absolute Encoders Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

- 8.7.1 Middle East and Africa Absolute Encoders Sales by Region
- 8.7.2 Middle East and Africa Absolute Encoders Market Size by Region
- 8.7.3 Saudi Arabia Market Overview
- 8.7.4 UAE Market Overview
- 8.7.5 Egypt Market Overview
- 8.7.6 Nigeria Market Overview
- 8.7.7 South Africa Market Overview

9 ABSOLUTE ENCODERS MARKET PRODUCTION BY REGION

- 9.1 Global Production of Absolute Encoders by Region(2020-2025)
- 9.2 Global Absolute Encoders Revenue Market Share by Region (2020-2025)
- 9.3 Global Absolute Encoders Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Absolute Encoders Production
 - 9.4.1 North America Absolute Encoders Production Growth Rate (2020-2025)
 - 9.4.2 North America Absolute Encoders Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Absolute Encoders Production
 - 9.5.1 Europe Absolute Encoders Production Growth Rate (2020-2025)
 - 9.5.2 Europe Absolute Encoders Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Absolute Encoders Production (2020-2025)
 - 9.6.1 Japan Absolute Encoders Production Growth Rate (2020-2025)
 - 9.6.2 Japan Absolute Encoders Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Absolute Encoders Production (2020-2025)
 - 9.7.1 China Absolute Encoders Production Growth Rate (2020-2025)
 - 9.7.2 China Absolute Encoders Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 Heidenhain
 - 10.1.1 Heidenhain Basic Information
 - 10.1.2 Heidenhain Absolute Encoders Product Overview
 - 10.1.3 Heidenhain Absolute Encoders Product Market Performance
 - 10.1.4 Heidenhain Business Overview
 - 10.1.5 Heidenhain SWOT Analysis

- 10.1.6 Heidenhain Recent Developments
- 10.2 Dynapar
 - 10.2.1 Dynapar Basic Information
 - 10.2.2 Dynapar Absolute Encoders Product Overview
 - 10.2.3 Dynapar Absolute Encoders Product Market Performance
 - 10.2.4 Dynapar Business Overview
 - 10.2.5 Dynapar SWOT Analysis
 - 10.2.6 Dynapar Recent Developments
- 10.3 Tamagawa
 - 10.3.1 Tamagawa Basic Information
 - 10.3.2 Tamagawa Absolute Encoders Product Overview
 - 10.3.3 Tamagawa Absolute Encoders Product Market Performance
 - 10.3.4 Tamagawa Business Overview
 - 10.3.5 Tamagawa SWOT Analysis
 - 10.3.6 Tamagawa Recent Developments
- 10.4 Baumer Group
 - 10.4.1 Baumer Group Basic Information
 - 10.4.2 Baumer Group Absolute Encoders Product Overview
 - 10.4.3 Baumer Group Absolute Encoders Product Market Performance
 - 10.4.4 Baumer Group Business Overview
 - 10.4.5 Baumer Group Recent Developments
- 10.5 Nemicon
 - 10.5.1 Nemicon Basic Information
 - 10.5.2 Nemicon Absolute Encoders Product Overview
 - 10.5.3 Nemicon Absolute Encoders Product Market Performance
 - 10.5.4 Nemicon Business Overview
 - 10.5.5 Nemicon Recent Developments
- 10.6 Pepperl+Fuchs
 - 10.6.1 Pepperl+Fuchs Basic Information
 - 10.6.2 Pepperl+Fuchs Absolute Encoders Product Overview
 - 10.6.3 Pepperl+Fuchs Absolute Encoders Product Market Performance
 - 10.6.4 Pepperl+Fuchs Business Overview
 - 10.6.5 Pepperl+Fuchs Recent Developments
- 10.7 Hengstler GmbH
 - 10.7.1 Hengstler GmbH Basic Information
 - 10.7.2 Hengstler GmbH Absolute Encoders Product Overview
 - 10.7.3 Hengstler GmbH Absolute Encoders Product Market Performance
 - 10.7.4 Hengstler GmbH Business Overview
 - 10.7.5 Hengstler GmbH Recent Developments

10.8 Omron

10.8.1 Omron Basic Information

10.8.2 Omron Absolute Encoders Product Overview

10.8.3 Omron Absolute Encoders Product Market Performance

10.8.4 Omron Business Overview

10.8.5 Omron Recent Developments

10.9 Sensata Technologies (BEI)

10.9.1 Sensata Technologies (BEI) Basic Information

10.9.2 Sensata Technologies (BEI) Absolute Encoders Product Overview

10.9.3 Sensata Technologies (BEI) Absolute Encoders Product Market Performance

10.9.4 Sensata Technologies (BEI) Business Overview

10.9.5 Sensata Technologies (BEI) Recent Developments

10.10 Encoder Products Company

10.10.1 Encoder Products Company Basic Information

10.10.2 Encoder Products Company Absolute Encoders Product Overview

10.10.3 Encoder Products Company Absolute Encoders Product Market Performance

10.10.4 Encoder Products Company Business Overview

10.10.5 Encoder Products Company Recent Developments

10.11 TR-Electronic GmbH

10.11.1 TR-Electronic GmbH Basic Information

10.11.2 TR-Electronic GmbH Absolute Encoders Product Overview

10.11.3 TR-Electronic GmbH Absolute Encoders Product Market Performance

10.11.4 TR-Electronic GmbH Business Overview

10.11.5 TR-Electronic GmbH Recent Developments

10.12 FRABA

10.12.1 FRABA Basic Information

10.12.2 FRABA Absolute Encoders Product Overview

10.12.3 FRABA Absolute Encoders Product Market Performance

10.12.4 FRABA Business Overview

10.12.5 FRABA Recent Developments

10.13 Renishaw

10.13.1 Renishaw Basic Information

10.13.2 Renishaw Absolute Encoders Product Overview

10.13.3 Renishaw Absolute Encoders Product Market Performance

10.13.4 Renishaw Business Overview

10.13.5 Renishaw Recent Developments

10.14 Kubler

10.14.1 Kubler Basic Information

10.14.2 Kubler Absolute Encoders Product Overview

- 10.14.3 Kubler Absolute Encoders Product Market Performance
- 10.14.4 Kubler Business Overview
- 10.14.5 Kubler Recent Developments
- 10.15 Koyo
 - 10.15.1 Koyo Basic Information
 - 10.15.2 Koyo Absolute Encoders Product Overview
 - 10.15.3 Koyo Absolute Encoders Product Market Performance
 - 10.15.4 Koyo Business Overview
 - 10.15.5 Koyo Recent Developments
- 10.16 Leine and Linde
 - 10.16.1 Leine and Linde Basic Information
 - 10.16.2 Leine and Linde Absolute Encoders Product Overview
 - 10.16.3 Leine and Linde Absolute Encoders Product Market Performance
 - 10.16.4 Leine and Linde Business Overview
 - 10.16.5 Leine and Linde Recent Developments
- 10.17 Sick
 - 10.17.1 Sick Basic Information
 - 10.17.2 Sick Absolute Encoders Product Overview
 - 10.17.3 Sick Absolute Encoders Product Market Performance
 - 10.17.4 Sick Business Overview
 - 10.17.5 Sick Recent Developments
- 10.18 Rep Avago
 - 10.18.1 Rep Avago Basic Information
 - 10.18.2 Rep Avago Absolute Encoders Product Overview
 - 10.18.3 Rep Avago Absolute Encoders Product Market Performance
 - 10.18.4 Rep Avago Business Overview
 - 10.18.5 Rep Avago Recent Developments
- 10.19 Yuheng Optics
 - 10.19.1 Yuheng Optics Basic Information
 - 10.19.2 Yuheng Optics Absolute Encoders Product Overview
 - 10.19.3 Yuheng Optics Absolute Encoders Product Market Performance
 - 10.19.4 Yuheng Optics Business Overview
 - 10.19.5 Yuheng Optics Recent Developments
- 10.20 ELCO
 - 10.20.1 ELCO Basic Information
 - 10.20.2 ELCO Absolute Encoders Product Overview
 - 10.20.3 ELCO Absolute Encoders Product Market Performance
 - 10.20.4 ELCO Business Overview
 - 10.20.5 ELCO Recent Developments

10.21 Wuxi CREATE

- 10.21.1 Wuxi CREATE Basic Information
- 10.21.2 Wuxi CREATE Absolute Encoders Product Overview
- 10.21.3 Wuxi CREATE Absolute Encoders Product Market Performance
- 10.21.4 Wuxi CREATE Business Overview
- 10.21.5 Wuxi CREATE Recent Developments

10.22 Changchun Rongde Optics

- 10.22.1 Changchun Rongde Optics Basic Information
- 10.22.2 Changchun Rongde Optics Absolute Encoders Product Overview
- 10.22.3 Changchun Rongde Optics Absolute Encoders Product Market Performance
- 10.22.4 Changchun Rongde Optics Business Overview
- 10.22.5 Changchun Rongde Optics Recent Developments

11 ABSOLUTE ENCODERS MARKET FORECAST BY REGION

11.1 Global Absolute Encoders Market Size Forecast

11.2 Global Absolute Encoders Market Forecast by Region

- 11.2.1 North America Market Size Forecast by Country
- 11.2.2 Europe Absolute Encoders Market Size Forecast by Country
- 11.2.3 Asia Pacific Absolute Encoders Market Size Forecast by Region
- 11.2.4 South America Absolute Encoders Market Size Forecast by Country
- 11.2.5 Middle East and Africa Forecasted Sales of Absolute Encoders by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2033)

12.1 Global Absolute Encoders Market Forecast by Type (2026-2033)

- 12.1.1 Global Forecasted Sales of Absolute Encoders by Type (2026-2033)
- 12.1.2 Global Absolute Encoders Market Size Forecast by Type (2026-2033)
- 12.1.3 Global Forecasted Price of Absolute Encoders by Type (2026-2033)

12.2 Global Absolute Encoders Market Forecast by Application (2026-2033)

- 12.2.1 Global Absolute Encoders Sales (K Units) Forecast by Application
- 12.2.2 Global Absolute Encoders Market Size (M USD) Forecast by Application (2026-2033)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type
Table 2. Introduction of the Application
Table 3. Market Size (M USD) Segment Executive Summary
Table 4. Absolute Encoders Market Size Comparison by Region (M USD)
Table 5. Global Absolute Encoders Sales (K Units) by Manufacturers (2020-2025)
Table 6. Global Absolute Encoders Sales Market Share by Manufacturers (2020-2025)
Table 7. Global Absolute Encoders Revenue (M USD) by Manufacturers (2020-2025)
Table 8. Global Absolute Encoders Revenue Share by Manufacturers (2020-2025)
Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Absolute Encoders as of 2024)
Table 10. Global Market Absolute Encoders Average Price (USD/Unit) of Key Manufacturers (2020-2025)
Table 11. Manufacturers? Manufacturing Sites, Areas Served
Table 12. Manufacturers? Product Type
Table 13. Global Absolute Encoders Manufacturers Market Concentration Ratio (CR5 and HHI)
Table 14. Mergers & Acquisitions, Expansion Plans
Table 15. Market Overview of Key Raw Materials
Table 16. Midstream Market Analysis
Table 17. Downstream Customer Analysis
Table 18. Key Development Trends
Table 19. Driving Factors
Table 20. Absolute Encoders Market Challenges
Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026
Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027
Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026
Table 24. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
Table 25. Global Absolute Encoders Sales by Type (K Units)
Table 26. Global Absolute Encoders Market Size by Type (M USD)
Table 27. Global Absolute Encoders Sales (K Units) by Type (2020-2025)
Table 28. Global Absolute Encoders Sales Market Share by Type (2020-2025)
Table 29. Global Absolute Encoders Market Size (M USD) by Type (2020-2025)
Table 30. Global Absolute Encoders Market Size Share by Type (2020-2025)
Table 31. Global Absolute Encoders Price (USD/Unit) by Type (2020-2025)

Table 32. Global Absolute Encoders Sales (K Units) by Application
Table 33. Global Absolute Encoders Market Size by Application
Table 34. Global Absolute Encoders Sales by Application (2020-2025) & (K Units)
Table 35. Global Absolute Encoders Sales Market Share by Application (2020-2025)
Table 36. Global Absolute Encoders Market Size by Application (2020-2025) & (M USD)
Table 37. Global Absolute Encoders Market Share by Application (2020-2025)
Table 38. Global Absolute Encoders Sales Growth Rate by Application (2020-2025)
Table 39. Global Absolute Encoders Sales by Region (2020-2025) & (K Units)
Table 40. Global Absolute Encoders Sales Market Share by Region (2020-2025)
Table 41. Global Absolute Encoders Market Size by Region (2020-2025) & (M USD)
Table 42. Global Absolute Encoders Market Size Market Share by Region (2020-2025)
Table 43. North America Absolute Encoders Sales by Country (2020-2025) & (K Units)
Table 44. North America Absolute Encoders Market Size by Country (2020-2025) & (M USD)
Table 45. Europe Absolute Encoders Sales by Country (2020-2025) & (K Units)
Table 46. Europe Absolute Encoders Market Size by Country (2020-2025) & (M USD)
Table 47. Asia Pacific Absolute Encoders Sales by Region (2020-2025) & (K Units)
Table 48. Asia Pacific Absolute Encoders Market Size by Region (2020-2025) & (M USD)
Table 49. South America Absolute Encoders Sales by Country (2020-2025) & (K Units)
Table 50. South America Absolute Encoders Market Size by Country (2020-2025) & (M USD)
Table 51. Middle East and Africa Absolute Encoders Sales by Region (2020-2025) & (K Units)
Table 52. Middle East and Africa Absolute Encoders Market Size by Region (2020-2025) & (M USD)
Table 53. Global Absolute Encoders Production (K Units) by Region(2020-2025)
Table 54. Global Absolute Encoders Revenue (US\$ Million) by Region (2020-2025)
Table 55. Global Absolute Encoders Revenue Market Share by Region (2020-2025)
Table 56. Global Absolute Encoders Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 57. North America Absolute Encoders Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 58. Europe Absolute Encoders Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 59. Japan Absolute Encoders Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
Table 60. China Absolute Encoders Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. Heidenhain Basic Information
Table 62. Heidenhain Absolute Encoders Product Overview
Table 63. Heidenhain Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 64. Heidenhain Business Overview
Table 65. Heidenhain SWOT Analysis
Table 66. Heidenhain Recent Developments
Table 67. Dynapar Basic Information
Table 68. Dynapar Absolute Encoders Product Overview
Table 69. Dynapar Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 70. Dynapar Business Overview
Table 71. Dynapar SWOT Analysis
Table 72. Dynapar Recent Developments
Table 73. Tamagawa Basic Information
Table 74. Tamagawa Absolute Encoders Product Overview
Table 75. Tamagawa Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 76. Tamagawa Business Overview
Table 77. Tamagawa SWOT Analysis
Table 78. Tamagawa Recent Developments
Table 79. Baumer Group Basic Information
Table 80. Baumer Group Absolute Encoders Product Overview
Table 81. Baumer Group Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 82. Baumer Group Business Overview
Table 83. Baumer Group Recent Developments
Table 84. Nemicon Basic Information
Table 85. Nemicon Absolute Encoders Product Overview
Table 86. Nemicon Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 87. Nemicon Business Overview
Table 88. Nemicon Recent Developments
Table 89. Pepperl+Fuchs Basic Information
Table 90. Pepperl+Fuchs Absolute Encoders Product Overview
Table 91. Pepperl+Fuchs Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 92. Pepperl+Fuchs Business Overview
Table 93. Pepperl+Fuchs Recent Developments

Table 94. Hengstler GmbH Basic Information
Table 95. Hengstler GmbH Absolute Encoders Product Overview
Table 96. Hengstler GmbH Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 97. Hengstler GmbH Business Overview
Table 98. Hengstler GmbH Recent Developments
Table 99. Omron Basic Information
Table 100. Omron Absolute Encoders Product Overview
Table 101. Omron Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 102. Omron Business Overview
Table 103. Omron Recent Developments
Table 104. Sensata Technologies (BEI) Basic Information
Table 105. Sensata Technologies (BEI) Absolute Encoders Product Overview
Table 106. Sensata Technologies (BEI) Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 107. Sensata Technologies (BEI) Business Overview
Table 108. Sensata Technologies (BEI) Recent Developments
Table 109. Encoder Products Company Basic Information
Table 110. Encoder Products Company Absolute Encoders Product Overview
Table 111. Encoder Products Company Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 112. Encoder Products Company Business Overview
Table 113. Encoder Products Company Recent Developments
Table 114. TR-Electronic GmbH Basic Information
Table 115. TR-Electronic GmbH Absolute Encoders Product Overview
Table 116. TR-Electronic GmbH Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 117. TR-Electronic GmbH Business Overview
Table 118. TR-Electronic GmbH Recent Developments
Table 119. FRABA Basic Information
Table 120. FRABA Absolute Encoders Product Overview
Table 121. FRABA Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 122. FRABA Business Overview
Table 123. FRABA Recent Developments
Table 124. Renishaw Basic Information
Table 125. Renishaw Absolute Encoders Product Overview
Table 126. Renishaw Absolute Encoders Sales (K Units), Revenue (M USD), Price

(USD/Unit) and Gross Margin (2020-2025)

Table 127. Renishaw Business Overview

Table 128. Renishaw Recent Developments

Table 129. Kubler Basic Information

Table 130. Kubler Absolute Encoders Product Overview

Table 131. Kubler Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 132. Kubler Business Overview

Table 133. Kubler Recent Developments

Table 134. Koyo Basic Information

Table 135. Koyo Absolute Encoders Product Overview

Table 136. Koyo Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 137. Koyo Business Overview

Table 138. Koyo Recent Developments

Table 139. Leine and Linde Basic Information

Table 140. Leine and Linde Absolute Encoders Product Overview

Table 141. Leine and Linde Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 142. Leine and Linde Business Overview

Table 143. Leine and Linde Recent Developments

Table 144. Sick Basic Information

Table 145. Sick Absolute Encoders Product Overview

Table 146. Sick Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 147. Sick Business Overview

Table 148. Sick Recent Developments

Table 149. Rep Avago Basic Information

Table 150. Rep Avago Absolute Encoders Product Overview

Table 151. Rep Avago Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 152. Rep Avago Business Overview

Table 153. Rep Avago Recent Developments

Table 154. Yuheng Optics Basic Information

Table 155. Yuheng Optics Absolute Encoders Product Overview

Table 156. Yuheng Optics Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 157. Yuheng Optics Business Overview

Table 158. Yuheng Optics Recent Developments

Table 159. ELCO Basic Information

Table 160. ELCO Absolute Encoders Product Overview

Table 161. ELCO Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 162. ELCO Business Overview

Table 163. ELCO Recent Developments

Table 164. Wuxi CREATE Basic Information

Table 165. Wuxi CREATE Absolute Encoders Product Overview

Table 166. Wuxi CREATE Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 167. Wuxi CREATE Business Overview

Table 168. Wuxi CREATE Recent Developments

Table 169. Changchun Rongde Optics Basic Information

Table 170. Changchun Rongde Optics Absolute Encoders Product Overview

Table 171. Changchun Rongde Optics Absolute Encoders Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 172. Changchun Rongde Optics Business Overview

Table 173. Changchun Rongde Optics Recent Developments

Table 174. Global Absolute Encoders Sales Forecast by Region (2026-2033) & (K Units)

Table 175. Global Absolute Encoders Market Size Forecast by Region (2026-2033) & (M USD)

Table 176. North America Absolute Encoders Sales Forecast by Country (2026-2033) & (K Units)

Table 177. North America Absolute Encoders Market Size Forecast by Country (2026-2033) & (M USD)

Table 178. Europe Absolute Encoders Sales Forecast by Country (2026-2033) & (K Units)

Table 179. Europe Absolute Encoders Market Size Forecast by Country (2026-2033) & (M USD)

Table 180. Asia Pacific Absolute Encoders Sales Forecast by Region (2026-2033) & (K Units)

Table 181. Asia Pacific Absolute Encoders Market Size Forecast by Region (2026-2033) & (M USD)

Table 182. South America Absolute Encoders Sales Forecast by Country (2026-2033) & (K Units)

Table 183. South America Absolute Encoders Market Size Forecast by Country (2026-2033) & (M USD)

Table 184. Middle East and Africa Absolute Encoders Sales Forecast by Country

(2026-2033) & (Units)

Table 185. Middle East and Africa Absolute Encoders Market Size Forecast by Country (2026-2033) & (M USD)

Table 186. Global Absolute Encoders Sales Forecast by Type (2026-2033) & (K Units)

Table 187. Global Absolute Encoders Market Size Forecast by Type (2026-2033) & (M USD)

Table 188. Global Absolute Encoders Price Forecast by Type (2026-2033) & (USD/Unit)

Table 189. Global Absolute Encoders Sales (K Units) Forecast by Application (2026-2033)

Table 190. Global Absolute Encoders Market Size Forecast by Application (2026-2033) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Absolute Encoders
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Absolute Encoders Market Size (M USD), 2024-2033
- Figure 5. Global Absolute Encoders Market Size (M USD) (2020-2033)
- Figure 6. Global Absolute Encoders Sales (K Units) & (2020-2033)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Absolute Encoders Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Absolute Encoders Product Life Cycle
- Figure 13. Absolute Encoders Sales Share by Manufacturers in 2024
- Figure 14. Global Absolute Encoders Revenue Share by Manufacturers in 2024
- Figure 15. Absolute Encoders Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024
- Figure 16. Global Market Absolute Encoders Average Price (USD/Unit) of Key Manufacturers in 2024
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Absolute Encoders Revenue in 2024
- Figure 18. Industry Chain Map of Absolute Encoders
- Figure 19. Global Absolute Encoders Market PEST Analysis
- Figure 20. Global Absolute Encoders Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Absolute Encoders Market Share by Type
- Figure 27. Sales Market Share of Absolute Encoders by Type (2020-2025)
- Figure 28. Sales Market Share of Absolute Encoders by Type in 2024
- Figure 29. Market Size Share of Absolute Encoders by Type (2020-2025)
- Figure 30. Market Size Share of Absolute Encoders by Type in 2024
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Absolute Encoders Market Share by Application

- Figure 33. Global Absolute Encoders Sales Market Share by Application (2020-2025)
- Figure 34. Global Absolute Encoders Sales Market Share by Application in 2024
- Figure 35. Global Absolute Encoders Market Share by Application (2020-2025)
- Figure 36. Global Absolute Encoders Market Share by Application in 2024
- Figure 37. Global Absolute Encoders Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Absolute Encoders Sales Market Share by Region (2020-2025)
- Figure 39. Global Absolute Encoders Market Size Market Share by Region (2020-2025)
- Figure 40. North America Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America Absolute Encoders Sales Market Share by Country in 2024
- Figure 43. North America Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Absolute Encoders Market Size Market Share by Country in 2024
- Figure 45. U.S. Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Absolute Encoders Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada Absolute Encoders Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Absolute Encoders Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Absolute Encoders Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)
- Figure 52. Europe Absolute Encoders Sales Market Share by Country in 2024
- Figure 53. Europe Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 54. Europe Absolute Encoders Market Size Market Share by Country in 2024
- Figure 55. Germany Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)
- Figure 56. Germany Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 57. France Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)
- Figure 58. France Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 59. U.K. Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)
- Figure 60. U.K. Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Absolute Encoders Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Absolute Encoders Sales Market Share by Region in 2024

Figure 67. Asia Pacific Absolute Encoders Market Size Market Share by Region in 2024

Figure 68. China Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Absolute Encoders Sales and Growth Rate (K Units)

Figure 79. South America Absolute Encoders Sales Market Share by Country in 2024

Figure 80. South America Absolute Encoders Market Size and Growth Rate (M USD)

Figure 81. South America Absolute Encoders Market Size Market Share by Country in 2024

Figure 82. Brazil Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Absolute Encoders Sales and Growth Rate (2020-2025) & (K

Units)

Figure 87. Columbia Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Absolute Encoders Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Absolute Encoders Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Absolute Encoders Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Absolute Encoders Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Absolute Encoders Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Absolute Encoders Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Absolute Encoders Production Market Share by Region (2020-2025)

Figure 103. North America Absolute Encoders Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Absolute Encoders Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Absolute Encoders Production (K Units) Growth Rate (2020-2025)

Figure 106. China Absolute Encoders Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Absolute Encoders Sales Forecast by Volume (2020-2033) & (K Units)

Figure 108. Global Absolute Encoders Market Size Forecast by Value (2020-2033) & (M USD)

Figure 109. Global Absolute Encoders Sales Market Share Forecast by Type (2026-2033)

Figure 110. Global Absolute Encoders Market Share Forecast by Type (2026-2033)

Figure 111. Global Absolute Encoders Sales Forecast by Application (2026-2033)

Figure 112. Global Absolute Encoders Market Share Forecast by Application
(2026-2033)

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