

Global CNC Machine 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 CNC Machine Encoder market size was valued at US\$ 1561 million in 2025 and is forecast to a readjusted size of US\$ 2214 million by 2032 with a CAGR of 5.2% during review period.

A CNC Machine Encoder is a crucial component in computer numerical control (CNC) machinery. It is a device that converts the physical motion of machine elements, such as the rotation of a spindle or the linear movement of a slide, into digital signals. These digital signals are then fed back to the CNC control system, allowing it to precisely monitor and control the position, speed, and direction of the machine's movements. The encoder provides accurate and real-time information, enabling the CNC machine to operate with high precision and repeatability, which is essential for manufacturing complex parts with tight tolerances in various industries like aerospace, automotive, and machining.

This report is a detailed and comprehensive analysis for global CNC Machine 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 CNC Machine Encoder market size and forecasts, in consumption value (\$

Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global CNC Machine 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 CNC Machine 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 CNC Machine 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 CNC Machine 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 CNC Machine 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 Quantum Devices, Heidenhain, Dynapar, Renishaw, Fagor, Changchun Rongde Optics Co., Ltd.(ROUNDSS), Shanghai Hengxiang Optical Electronics Co., Ltd., ZS Instruments, Kwangwoo, Lasertex, etc.

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

Market Segmentation

CNC Machine 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.

Market segment by Type

Incremental Encoders

Absolute Encoders

Market segment by Application

Position Control

Speed Control

Other

Major players covered

Quantum Devices

Heidenhain

Dynapar

Renishaw

Fagor

Changchun Rongde Optics Co., Ltd.(ROUNDSS)

Shanghai Hengxiang Optical Electronics Co., Ltd.

ZS Instruments

Kwangwoo

Lasertex

Sensata Technologies

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 CNC Machine Encoder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of CNC Machine Encoder, with price, sales quantity, revenue, and global market share of CNC Machine Encoder from 2021 to 2026.

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

Chapter 4, the CNC Machine 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 CNC Machine 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 CNC Machine Encoder.

Chapter 14 and 15, to describe CNC Machine Encoder sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Medical End-of-line Packaging Production Line Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Bag Packaging

1.3.3 Carton Packaging

1.3.4 Film Packaging

1.4 Market Analysis by Application

1.4.1 Overview: Global Medical End-of-line Packaging Production Line Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.4.2 Pharma

1.4.3 Medical Instrument

1.5 Global Medical End-of-line Packaging Production Line Market Size & Forecast

1.5.1 Global Medical End-of-line Packaging Production Line Consumption Value (2021 & 2025 & 2032)

1.5.2 Global Medical End-of-line Packaging Production Line Sales Quantity (2021-2032)

1.5.3 Global Medical End-of-line Packaging Production Line Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 HENKEL

2.1.1 HENKEL Details

2.1.2 HENKEL Major Business

2.1.3 HENKEL Medical End-of-line Packaging Production Line Product and Services

2.1.4 HENKEL Medical End-of-line Packaging Production Line Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 HENKEL Recent Developments/Updates

2.2 IMA Group

2.2.1 IMA Group Details

2.2.2 IMA Group Major Business

2.2.3 IMA Group Medical End-of-line Packaging Production Line Product and Services

2.2.4 IMA Group Medical End-of-line Packaging Production Line Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 IMA Group Recent Developments/Updates

2.3 Bausch-Stroebel (B+S)

2.3.1 Bausch-Stroebel (B+S) Details

2.3.2 Bausch-Stroebel (B+S) Major Business

2.3.3 Bausch-Stroebel (B+S) Medical End-of-line Packaging Production Line Product and Services

2.3.4 Bausch-Stroebel (B+S) Medical End-of-line Packaging Production Line Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Bausch-Stroebel (B+S) Recent Developments/Updates

2.4 K?rber AG

2.4.1 K?rber AG Details

2.4.2 K?rber AG Major Business

2.4.3 K?rber AG Medical End-of-line Packaging Production Line Product and Services

2.4.4 K?rber AG Medical End-of-line Packaging Production Line Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 K?rber AG Recent Developments/Updates

2.5 NIRAS

2.5.1 NIRAS Details

2.5.2 NIRAS Major Business

2.5.3 NIRAS Medical End-of-line Packaging Production Line Product and Services

2.5.4 NIRAS Medical End-of-line Packaging Production Line Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 NIRAS Recent Developments/Updates

2.6 Kaufman Engineered Systems

2.6.1 Kaufman Engineered Systems Details

2.6.2 Kaufman Engineered Systems Major Business

2.6.3 Kaufman Engineered Systems Medical End-of-line Packaging Production Line Product and Services

2.6.4 Kaufman Engineered Systems Medical End-of-line Packaging Production Line Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Kaufman Engineered Systems Recent Developments/Updates

2.7 Brenton

2.7.1 Brenton Details

2.7.2 Brenton Major Business

2.7.3 Brenton Medical End-of-line Packaging Production Line Product and Services

2.7.4 Brenton Medical End-of-line Packaging Production Line Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Brenton Recent Developments/Updates

2.8 ILPRA SPA

2.8.1 ILPRA SPA Details

2.8.2 ILPRA SPA Major Business

2.8.3 ILPRA SPA Medical End-of-line Packaging Production Line Product and Services

2.8.4 ILPRA SPA Medical End-of-line Packaging Production Line Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 ILPRA SPA Recent Developments/Updates

2.9 Marchesini Group

2.9.1 Marchesini Group Details

2.9.2 Marchesini Group Major Business

2.9.3 Marchesini Group Medical End-of-line Packaging Production Line Product and Services

2.9.4 Marchesini Group Medical End-of-line Packaging Production Line Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Marchesini Group Recent Developments/Updates

2.10 AFA Group

2.10.1 AFA Group Details

2.10.2 AFA Group Major Business

2.10.3 AFA Group Medical End-of-line Packaging Production Line Product and Services

2.10.4 AFA Group Medical End-of-line Packaging Production Line Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 AFA Group Recent Developments/Updates

2.11 DS Smith

2.11.1 DS Smith Details

2.11.2 DS Smith Major Business

2.11.3 DS Smith Medical End-of-line Packaging Production Line Product and Services

2.11.4 DS Smith Medical End-of-line Packaging Production Line Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 DS Smith Recent Developments/Updates

2.12 Tekpak

2.12.1 Tekpak Details

2.12.2 Tekpak Major Business

2.12.3 Tekpak Medical End-of-line Packaging Production Line Product and Services

2.12.4 Tekpak Medical End-of-line Packaging Production Line Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Tekpak Recent Developments/Updates

2.13 Uhlmann Group

- 2.13.1 Uhlmann Group Details
- 2.13.2 Uhlmann Group Major Business
- 2.13.3 Uhlmann Group Medical End-of-line Packaging Production Line Product and Services
- 2.13.4 Uhlmann Group Medical End-of-line Packaging Production Line Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.13.5 Uhlmann Group Recent Developments/Updates
- 2.14 CarePac
 - 2.14.1 CarePac Details
 - 2.14.2 CarePac Major Business
 - 2.14.3 CarePac Medical End-of-line Packaging Production Line Product and Services
 - 2.14.4 CarePac Medical End-of-line Packaging Production Line Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 CarePac Recent Developments/Updates
- 2.15 Stevanato Group
 - 2.15.1 Stevanato Group Details
 - 2.15.2 Stevanato Group Major Business
 - 2.15.3 Stevanato Group Medical End-of-line Packaging Production Line Product and Services
 - 2.15.4 Stevanato Group Medical End-of-line Packaging Production Line Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.15.5 Stevanato Group Recent Developments/Updates
- 2.16 Jiangsu Winlong Pharmaceutical Machinery
 - 2.16.1 Jiangsu Winlong Pharmaceutical Machinery Details
 - 2.16.2 Jiangsu Winlong Pharmaceutical Machinery Major Business
 - 2.16.3 Jiangsu Winlong Pharmaceutical Machinery Medical End-of-line Packaging Production Line Product and Services
 - 2.16.4 Jiangsu Winlong Pharmaceutical Machinery Medical End-of-line Packaging Production Line Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.16.5 Jiangsu Winlong Pharmaceutical Machinery Recent Developments/Updates
- 2.17 TRUKING TECHNOLOGY (Hunan)
 - 2.17.1 TRUKING TECHNOLOGY (Hunan) Details
 - 2.17.2 TRUKING TECHNOLOGY (Hunan) Major Business
 - 2.17.3 TRUKING TECHNOLOGY (Hunan) Medical End-of-line Packaging Production Line Product and Services
 - 2.17.4 TRUKING TECHNOLOGY (Hunan) Medical End-of-line Packaging Production Line Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.17.5 TRUKING TECHNOLOGY (Hunan) Recent Developments/Updates
- 2.18 Miteway Intelligent Device (Guangdong)
 - 2.18.1 Miteway Intelligent Device (Guangdong) Details
 - 2.18.2 Miteway Intelligent Device (Guangdong) Major Business
 - 2.18.3 Miteway Intelligent Device (Guangdong) Medical End-of-line Packaging Production Line Product and Services
 - 2.18.4 Miteway Intelligent Device (Guangdong) Medical End-of-line Packaging Production Line Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.18.5 Miteway Intelligent Device (Guangdong) Recent Developments/Updates
- 2.19 Guanghzou SEI Intelligence
 - 2.19.1 Guanghzou SEI Intelligence Details
 - 2.19.2 Guanghzou SEI Intelligence Major Business
 - 2.19.3 Guanghzou SEI Intelligence Medical End-of-line Packaging Production Line Product and Services
 - 2.19.4 Guanghzou SEI Intelligence Medical End-of-line Packaging Production Line Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.19.5 Guanghzou SEI Intelligence Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: MEDICAL END-OF-LINE PACKAGING PRODUCTION LINE BY MANUFACTURER

- 3.1 Global Medical End-of-line Packaging Production Line Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Medical End-of-line Packaging Production Line Revenue by Manufacturer (2021-2026)
- 3.3 Global Medical End-of-line Packaging Production Line Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Medical End-of-line Packaging Production Line by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Medical End-of-line Packaging Production Line Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Medical End-of-line Packaging Production Line Manufacturer Market Share in 2025
- 3.5 Medical End-of-line Packaging Production Line Market: Overall Company Footprint Analysis
 - 3.5.1 Medical End-of-line Packaging Production Line Market: Region Footprint
 - 3.5.2 Medical End-of-line Packaging Production Line Market: Company Product Type

Footprint

3.5.3 Medical End-of-line Packaging Production Line Market: Company Product

Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Medical End-of-line Packaging Production Line Market Size by Region

4.1.1 Global Medical End-of-line Packaging Production Line Sales Quantity by Region (2021-2032)

4.1.2 Global Medical End-of-line Packaging Production Line Consumption Value by Region (2021-2032)

4.1.3 Global Medical End-of-line Packaging Production Line Average Price by Region (2021-2032)

4.2 North America Medical End-of-line Packaging Production Line Consumption Value (2021-2032)

4.3 Europe Medical End-of-line Packaging Production Line Consumption Value (2021-2032)

4.4 Asia-Pacific Medical End-of-line Packaging Production Line Consumption Value (2021-2032)

4.5 South America Medical End-of-line Packaging Production Line Consumption Value (2021-2032)

4.6 Middle East & Africa Medical End-of-line Packaging Production Line Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Medical End-of-line Packaging Production Line Sales Quantity by Type (2021-2032)

5.2 Global Medical End-of-line Packaging Production Line Consumption Value by Type (2021-2032)

5.3 Global Medical End-of-line Packaging Production Line Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Medical End-of-line Packaging Production Line Sales Quantity by Application (2021-2032)

6.2 Global Medical End-of-line Packaging Production Line Consumption Value by Application (2021-2032)

6.3 Global Medical End-of-line Packaging Production Line Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Medical End-of-line Packaging Production Line Sales Quantity by Type (2021-2032)

7.2 North America Medical End-of-line Packaging Production Line Sales Quantity by Application (2021-2032)

7.3 North America Medical End-of-line Packaging Production Line Market Size by Country

7.3.1 North America Medical End-of-line Packaging Production Line Sales Quantity by Country (2021-2032)

7.3.2 North America Medical End-of-line Packaging Production Line Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Medical End-of-line Packaging Production Line Sales Quantity by Type (2021-2032)

8.2 Europe Medical End-of-line Packaging Production Line Sales Quantity by Application (2021-2032)

8.3 Europe Medical End-of-line Packaging Production Line Market Size by Country

8.3.1 Europe Medical End-of-line Packaging Production Line Sales Quantity by Country (2021-2032)

8.3.2 Europe Medical End-of-line Packaging Production Line Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Medical End-of-line Packaging Production Line Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Medical End-of-line Packaging Production Line Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Medical End-of-line Packaging Production Line Market Size by Region

9.3.1 Asia-Pacific Medical End-of-line Packaging Production Line Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Medical End-of-line Packaging Production Line Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Medical End-of-line Packaging Production Line Sales Quantity by Type (2021-2032)

10.2 South America Medical End-of-line Packaging Production Line Sales Quantity by Application (2021-2032)

10.3 South America Medical End-of-line Packaging Production Line Market Size by Country

10.3.1 South America Medical End-of-line Packaging Production Line Sales Quantity by Country (2021-2032)

10.3.2 South America Medical End-of-line Packaging Production Line Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Medical End-of-line Packaging Production Line Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Medical End-of-line Packaging Production Line Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Medical End-of-line Packaging Production Line Market Size

by Country

11.3.1 Middle East & Africa Medical End-of-line Packaging Production Line Sales

Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Medical End-of-line Packaging Production Line

Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Medical End-of-line Packaging Production Line Market Drivers

12.2 Medical End-of-line Packaging Production Line Market Restraints

12.3 Medical End-of-line Packaging Production Line Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Medical End-of-line Packaging Production Line and Key Manufacturers

13.2 Manufacturing Costs Percentage of Medical End-of-line Packaging Production Line

13.3 Medical End-of-line Packaging Production Line Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Medical End-of-line Packaging Production Line Typical Distributors

14.3 Medical End-of-line Packaging Production Line Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global CNC Machine Encoder Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global CNC Machine Encoder Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 3. Quantum Devices Basic Information, Manufacturing Base and Competitors

Table 4. Quantum Devices Major Business

Table 5. Quantum Devices CNC Machine Encoder Product and Services

Table 6. Quantum Devices CNC Machine Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 7. Quantum Devices Recent Developments/Updates

Table 8. Heidenhain Basic Information, Manufacturing Base and Competitors

Table 9. Heidenhain Major Business

Table 10. Heidenhain CNC Machine Encoder Product and Services

Table 11. Heidenhain CNC Machine Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 12. Heidenhain Recent Developments/Updates

Table 13. Dynapar Basic Information, Manufacturing Base and Competitors

Table 14. Dynapar Major Business

Table 15. Dynapar CNC Machine Encoder Product and Services

Table 16. Dynapar CNC Machine Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 17. Dynapar Recent Developments/Updates

Table 18. Renishaw Basic Information, Manufacturing Base and Competitors

Table 19. Renishaw Major Business

Table 20. Renishaw CNC Machine Encoder Product and Services

Table 21. Renishaw CNC Machine Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 22. Renishaw Recent Developments/Updates

Table 23. Fagor Basic Information, Manufacturing Base and Competitors

Table 24. Fagor Major Business

Table 25. Fagor CNC Machine Encoder Product and Services

Table 26. Fagor CNC Machine Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 27. Fagor Recent Developments/Updates

Table 28. Changchun Rongde Optics Co., Ltd.(ROUNDSS) Basic Information,

Manufacturing Base and Competitors

Table 29. Changchun Rongde Optics Co., Ltd.(ROUNDSS) Major Business

Table 30. Changchun Rongde Optics Co., Ltd.(ROUNDSS) CNC Machine Encoder Product and Services

Table 31. Changchun Rongde Optics Co., Ltd.(ROUNDSS) CNC Machine Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 32. Changchun Rongde Optics Co., Ltd.(ROUNDSS) Recent Developments/Updates

Table 33. Shanghai Hengxiang Optical Electronics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 34. Shanghai Hengxiang Optical Electronics Co., Ltd. Major Business

Table 35. Shanghai Hengxiang Optical Electronics Co., Ltd. CNC Machine Encoder Product and Services

Table 36. Shanghai Hengxiang Optical Electronics Co., Ltd. CNC Machine Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 37. Shanghai Hengxiang Optical Electronics Co., Ltd. Recent Developments/Updates

Table 38. ZS Instruments Basic Information, Manufacturing Base and Competitors

Table 39. ZS Instruments Major Business

Table 40. ZS Instruments CNC Machine Encoder Product and Services

Table 41. ZS Instruments CNC Machine Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 42. ZS Instruments Recent Developments/Updates

Table 43. Kwangwoo Basic Information, Manufacturing Base and Competitors

Table 44. Kwangwoo Major Business

Table 45. Kwangwoo CNC Machine Encoder Product and Services

Table 46. Kwangwoo CNC Machine Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 47. Kwangwoo Recent Developments/Updates

Table 48. Lasertex Basic Information, Manufacturing Base and Competitors

Table 49. Lasertex Major Business

Table 50. Lasertex CNC Machine Encoder Product and Services

Table 51. Lasertex CNC Machine Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 52. Lasertex Recent Developments/Updates

Table 53. Sensata Technologies Basic Information, Manufacturing Base and Competitors

Table 54. Sensata Technologies Major Business

Table 55. Sensata Technologies CNC Machine Encoder Product and Services

Table 56. Sensata Technologies CNC Machine Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 57. Sensata Technologies Recent Developments/Updates

Table 58. Global CNC Machine Encoder Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 59. Global CNC Machine Encoder Revenue by Manufacturer (2021-2026) & (USD Million)

Table 60. Global CNC Machine Encoder Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 61. Market Position of Manufacturers in CNC Machine Encoder, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 62. Head Office and CNC Machine Encoder Production Site of Key Manufacturer

Table 63. CNC Machine Encoder Market: Company Product Type Footprint

Table 64. CNC Machine Encoder Market: Company Product Application Footprint

Table 65. CNC Machine Encoder New Market Entrants and Barriers to Market Entry

Table 66. CNC Machine Encoder Mergers, Acquisition, Agreements, and Collaborations

Table 67. Global CNC Machine Encoder Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 68. Global CNC Machine Encoder Sales Quantity by Region (2021-2026) & (K Units)

Table 69. Global CNC Machine Encoder Sales Quantity by Region (2027-2032) & (K Units)

Table 70. Global CNC Machine Encoder Consumption Value by Region (2021-2026) & (USD Million)

Table 71. Global CNC Machine Encoder Consumption Value by Region (2027-2032) & (USD Million)

Table 72. Global CNC Machine Encoder Average Price by Region (2021-2026) & (US\$/Unit)

Table 73. Global CNC Machine Encoder Average Price by Region (2027-2032) & (US\$/Unit)

Table 74. Global CNC Machine Encoder Sales Quantity by Type (2021-2026) & (K Units)

Table 75. Global CNC Machine Encoder Sales Quantity by Type (2027-2032) & (K Units)

Table 76. Global CNC Machine Encoder Consumption Value by Type (2021-2026) & (USD Million)

Table 77. Global CNC Machine Encoder Consumption Value by Type (2027-2032) & (USD Million)

Table 78. Global CNC Machine Encoder Average Price by Type (2021-2026) & (US\$/Unit)

Table 79. Global CNC Machine Encoder Average Price by Type (2027-2032) & (US\$/Unit)

Table 80. Global CNC Machine Encoder Sales Quantity by Application (2021-2026) & (K Units)

Table 81. Global CNC Machine Encoder Sales Quantity by Application (2027-2032) & (K Units)

Table 82. Global CNC Machine Encoder Consumption Value by Application (2021-2026) & (USD Million)

Table 83. Global CNC Machine Encoder Consumption Value by Application (2027-2032) & (USD Million)

Table 84. Global CNC Machine Encoder Average Price by Application (2021-2026) & (US\$/Unit)

Table 85. Global CNC Machine Encoder Average Price by Application (2027-2032) & (US\$/Unit)

Table 86. North America CNC Machine Encoder Sales Quantity by Type (2021-2026) & (K Units)

Table 87. North America CNC Machine Encoder Sales Quantity by Type (2027-2032) & (K Units)

Table 88. North America CNC Machine Encoder Sales Quantity by Application (2021-2026) & (K Units)

Table 89. North America CNC Machine Encoder Sales Quantity by Application (2027-2032) & (K Units)

Table 90. North America CNC Machine Encoder Sales Quantity by Country (2021-2026) & (K Units)

Table 91. North America CNC Machine Encoder Sales Quantity by Country (2027-2032) & (K Units)

Table 92. North America CNC Machine Encoder Consumption Value by Country (2021-2026) & (USD Million)

Table 93. North America CNC Machine Encoder Consumption Value by Country (2027-2032) & (USD Million)

Table 94. Europe CNC Machine Encoder Sales Quantity by Type (2021-2026) & (K Units)

Table 95. Europe CNC Machine Encoder Sales Quantity by Type (2027-2032) & (K Units)

Table 96. Europe CNC Machine Encoder Sales Quantity by Application (2021-2026) &

(K Units)

Table 97. Europe CNC Machine Encoder Sales Quantity by Application (2027-2032) & (K Units)

Table 98. Europe CNC Machine Encoder Sales Quantity by Country (2021-2026) & (K Units)

Table 99. Europe CNC Machine Encoder Sales Quantity by Country (2027-2032) & (K Units)

Table 100. Europe CNC Machine Encoder Consumption Value by Country (2021-2026) & (USD Million)

Table 101. Europe CNC Machine Encoder Consumption Value by Country (2027-2032) & (USD Million)

Table 102. Asia-Pacific CNC Machine Encoder Sales Quantity by Type (2021-2026) & (K Units)

Table 103. Asia-Pacific CNC Machine Encoder Sales Quantity by Type (2027-2032) & (K Units)

Table 104. Asia-Pacific CNC Machine Encoder Sales Quantity by Application (2021-2026) & (K Units)

Table 105. Asia-Pacific CNC Machine Encoder Sales Quantity by Application (2027-2032) & (K Units)

Table 106. Asia-Pacific CNC Machine Encoder Sales Quantity by Region (2021-2026) & (K Units)

Table 107. Asia-Pacific CNC Machine Encoder Sales Quantity by Region (2027-2032) & (K Units)

Table 108. Asia-Pacific CNC Machine Encoder Consumption Value by Region (2021-2026) & (USD Million)

Table 109. Asia-Pacific CNC Machine Encoder Consumption Value by Region (2027-2032) & (USD Million)

Table 110. South America CNC Machine Encoder Sales Quantity by Type (2021-2026) & (K Units)

Table 111. South America CNC Machine Encoder Sales Quantity by Type (2027-2032) & (K Units)

Table 112. South America CNC Machine Encoder Sales Quantity by Application (2021-2026) & (K Units)

Table 113. South America CNC Machine Encoder Sales Quantity by Application (2027-2032) & (K Units)

Table 114. South America CNC Machine Encoder Sales Quantity by Country (2021-2026) & (K Units)

Table 115. South America CNC Machine Encoder Sales Quantity by Country (2027-2032) & (K Units)

Table 116. South America CNC Machine Encoder Consumption Value by Country (2021-2026) & (USD Million)

Table 117. South America CNC Machine Encoder Consumption Value by Country (2027-2032) & (USD Million)

Table 118. Middle East & Africa CNC Machine Encoder Sales Quantity by Type (2021-2026) & (K Units)

Table 119. Middle East & Africa CNC Machine Encoder Sales Quantity by Type (2027-2032) & (K Units)

Table 120. Middle East & Africa CNC Machine Encoder Sales Quantity by Application (2021-2026) & (K Units)

Table 121. Middle East & Africa CNC Machine Encoder Sales Quantity by Application (2027-2032) & (K Units)

Table 122. Middle East & Africa CNC Machine Encoder Sales Quantity by Country (2021-2026) & (K Units)

Table 123. Middle East & Africa CNC Machine Encoder Sales Quantity by Country (2027-2032) & (K Units)

Table 124. Middle East & Africa CNC Machine Encoder Consumption Value by Country (2021-2026) & (USD Million)

Table 125. Middle East & Africa CNC Machine Encoder Consumption Value by Country (2027-2032) & (USD Million)

Table 126. CNC Machine Encoder Raw Material

Table 127. Key Manufacturers of CNC Machine Encoder Raw Materials

Table 128. CNC Machine Encoder Typical Distributors

Table 129. CNC Machine Encoder Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. CNC Machine Encoder Picture

Figure 2. Global CNC Machine Encoder Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global CNC Machine Encoder Revenue Market Share by Type in 2025

Figure 4. Incremental Encoders Examples

Figure 5. Absolute Encoders Examples

Figure 6. Global CNC Machine Encoder Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 7. Global CNC Machine Encoder Revenue Market Share by Application in 2025

Figure 8. Position Control Examples

Figure 9. Speed Control Examples

Figure 10. Other Examples

Figure 11. Global CNC Machine Encoder Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 12. Global CNC Machine Encoder Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 13. Global CNC Machine Encoder Sales Quantity (2021-2032) & (K Units)

Figure 14. Global CNC Machine Encoder Price (2021-2032) & (US\$/Unit)

Figure 15. Global CNC Machine Encoder Sales Quantity Market Share by Manufacturer in 2025

Figure 16. Global CNC Machine Encoder Revenue Market Share by Manufacturer in 2025

Figure 17. Producer Shipments of CNC Machine Encoder by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 18. Top 3 CNC Machine Encoder Manufacturer (Revenue) Market Share in 2025

Figure 19. Top 6 CNC Machine Encoder Manufacturer (Revenue) Market Share in 2025

Figure 20. Global CNC Machine Encoder Sales Quantity Market Share by Region (2021-2032)

Figure 21. Global CNC Machine Encoder Consumption Value Market Share by Region (2021-2032)

Figure 22. North America CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 23. Europe CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 24. Asia-Pacific CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Million)

Figure 25. South America CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 26. Middle East & Africa CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 27. Global CNC Machine Encoder Sales Quantity Market Share by Type (2021-2032)

Figure 28. Global CNC Machine Encoder Consumption Value Market Share by Type (2021-2032)

Figure 29. Global CNC Machine Encoder Average Price by Type (2021-2032) & (US\$/Unit)

Figure 30. Global CNC Machine Encoder Sales Quantity Market Share by Application (2021-2032)

Figure 31. Global CNC Machine Encoder Revenue Market Share by Application (2021-2032)

Figure 32. Global CNC Machine Encoder Average Price by Application (2021-2032) & (US\$/Unit)

Figure 33. North America CNC Machine Encoder Sales Quantity Market Share by Type (2021-2032)

Figure 34. North America CNC Machine Encoder Sales Quantity Market Share by Application (2021-2032)

Figure 35. North America CNC Machine Encoder Sales Quantity Market Share by Country (2021-2032)

Figure 36. North America CNC Machine Encoder Consumption Value Market Share by Country (2021-2032)

Figure 37. United States CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 38. Canada CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 39. Mexico CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 40. Europe CNC Machine Encoder Sales Quantity Market Share by Type (2021-2032)

Figure 41. Europe CNC Machine Encoder Sales Quantity Market Share by Application (2021-2032)

Figure 42. Europe CNC Machine Encoder Sales Quantity Market Share by Country (2021-2032)

Figure 43. Europe CNC Machine Encoder Consumption Value Market Share by Country (2021-2032)

Figure 44. Germany CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 45. France CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 46. United Kingdom CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 47. Russia CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 48. Italy CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 49. Asia-Pacific CNC Machine Encoder Sales Quantity Market Share by Type (2021-2032)

Figure 50. Asia-Pacific CNC Machine Encoder Sales Quantity Market Share by Application (2021-2032)

Figure 51. Asia-Pacific CNC Machine Encoder Sales Quantity Market Share by Region (2021-2032)

Figure 52. Asia-Pacific CNC Machine Encoder Consumption Value Market Share by Region (2021-2032)

Figure 53. China CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 54. Japan CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 55. South Korea CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 56. India CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 57. Southeast Asia CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 58. Australia CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 59. South America CNC Machine Encoder Sales Quantity Market Share by Type (2021-2032)

Figure 60. South America CNC Machine Encoder Sales Quantity Market Share by Application (2021-2032)

Figure 61. South America CNC Machine Encoder Sales Quantity Market Share by Country (2021-2032)

Figure 62. South America CNC Machine Encoder Consumption Value Market Share by Country (2021-2032)

Figure 63. Brazil CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 64. Argentina CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 65. Middle East & Africa CNC Machine Encoder Sales Quantity Market Share by Type (2021-2032)

Figure 66. Middle East & Africa CNC Machine Encoder Sales Quantity Market Share by Application (2021-2032)

Figure 67. Middle East & Africa CNC Machine Encoder Sales Quantity Market Share by Country (2021-2032)

Figure 68. Middle East & Africa CNC Machine Encoder Consumption Value Market Share by Country (2021-2032)

Figure 69. Turkey CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 70. Egypt CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 71. Saudi Arabia CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 72. South Africa CNC Machine Encoder Consumption Value (2021-2032) & (USD Million)

Figure 73. CNC Machine Encoder Market Drivers

Figure 74. CNC Machine Encoder Market Restraints

Figure 75. CNC Machine Encoder Market Trends

Figure 76. Porters Five Forces Analysis

Figure 77. Manufacturing Cost Structure Analysis of CNC Machine Encoder in 2025

Figure 78. Manufacturing Process Analysis of CNC Machine Encoder

Figure 79. CNC Machine Encoder Industrial Chain

Figure 80. Sales Channel: Direct to End-User vs Distributors

Figure 81. Direct Channel Pros & Cons

Figure 82. Indirect Channel Pros & Cons

Figure 83. Methodology

Figure 84. Research Process and Data Source

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