

# Global Grating Angle Encoders 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 Grating Angle Encoders market size was valued at US\$ 568 million in 2025 and is forecast to a readjusted size of US\$ 778 million by 2032 with a CAGR of 4.5% during review period.

Grating Angle Encoders are precision electromechanical sensors that measure angular position, rotation, and motion of a shaft or rotating element by detecting optical or magnetic gratings and converting them into precise electrical signals for high-accuracy feedback in automation, servo controls, CNC machine tools, robotics, and motion systems. They employ optical gratings, sensors, and read-head electronics to provide high-resolution angle measurements critical for positioning and motion control.

The grating angle encoder industry chain begins upstream with the supply of high-precision optical gratings, magnetic scale materials, semiconductor ICs, precision bearings and photodetectors, proceeds through midstream precision fabrication including grating fabrication, electronics assembly, sensor integration, calibration, and embedded firmware/software development, and moves downstream into system integration by machine tool OEMs, robotics manufacturers and automation integrators for closed-loop feedback in motion control and positioning systems, supported by global distribution networks, application engineering services, calibration laboratories, and aftermarket support for installation, diagnostics and maintenance.

Across the global sensor and automation sector, leading encoder OEMs and system integrators are executing projects including expanded precision measurement manufacturing facilities in Asia Pacific and Europe, R&D centers for next-generation optical and magnetic grating encoders with enhanced resolution and integrated digital

interfaces, pilot programs for encoder integration in AI-enabled motion control systems, smart factory deployments with widespread sensor feedback networks, collaborative ventures with CNC machine builders for embedded encoder solutions, certification labs for industrial standards, aftermarket calibration service hubs, retrofit programs upgrading legacy machines with modern grating encoders, and partnerships targeting EV manufacturing and semiconductor automation demand.

In 2025, the global market sales 650,000 units, with an average global market price of USD 850 per unit, and a market average gross profit margin of 18%.

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

Global Grating Angle Encoders 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 Grating Angle Encoders 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 Grating Angle Encoders 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 Grating Angle 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 Grating Angle 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, Asahi Kasei, FAGOR, RENISHAW, Kubler Group, Baumer Group, Dynapar, RLS, Yuheng Optics Co., Ltd, PMT, etc.

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

## **Market Segmentation**

Grating Angle Encoders 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**

Magnetic Grating Encoders

Capacitive Grating Encoders

Inductive Grating Encoders

### **Market segment by Output Type**

Incremental Angle Encoders

Absolute Angle Encoders

Others

### **Market segment by Mounting Style**

Hollow Shaft Encoders

Solid Shaft Encoders

Others

### **Market segment by Application**

CNC Machine Tools

Industrial Robots

Defense and Military Industry

Aerospace

Other

### **Major players covered**

HEIDENHAIN

Asahi Kasei

FAGOR

RENISHAW

Kubler Group

Baumer Group

Dynapar

RLS

Yuheng Optics Co., Ltd

## PMT

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

Chapter 2, to profile the top manufacturers of Grating Angle Encoders, with price, sales quantity, revenue, and global market share of Grating Angle Encoders from 2021 to 2026.

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

Chapter 4, the Grating Angle Encoders 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 Grating Angle Encoders 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 Grating Angle Encoders.

Chapter 14 and 15, to describe Grating Angle Encoders 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 Grating Angle Encoders Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Magnetic Grating Encoders

1.3.3 Capacitive Grating Encoders

1.3.4 Inductive Grating Encoders

1.4 Market Analysis by Output Type

1.4.1 Overview: Global Grating Angle Encoders Consumption Value by Output Type: 2021 Versus 2025 Versus 2032

1.4.2 Incremental Angle Encoders

1.4.3 Absolute Angle Encoders

1.4.4 Others

1.5 Market Analysis by Mounting Style

1.5.1 Overview: Global Grating Angle Encoders Consumption Value by Mounting Style: 2021 Versus 2025 Versus 2032

1.5.2 Hollow Shaft Encoders

1.5.3 Solid Shaft Encoders

1.5.4 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global Grating Angle Encoders Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 CNC Machine Tools

1.6.3 Industrial Robots

1.6.4 Defense and Military Industry

1.6.5 Aerospace

1.6.6 Other

1.7 Global Grating Angle Encoders Market Size & Forecast

1.7.1 Global Grating Angle Encoders Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Grating Angle Encoders Sales Quantity (2021-2032)

1.7.3 Global Grating Angle Encoders Average Price (2021-2032)

### 2 MANUFACTURERS PROFILES

## 2.1 HEIDENHAIN

### 2.1.1 HEIDENHAIN Details

### 2.1.2 HEIDENHAIN Major Business

### 2.1.3 HEIDENHAIN Grating Angle Encoders Product and Services

### 2.1.4 HEIDENHAIN Grating Angle Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.1.5 HEIDENHAIN Recent Developments/Updates

## 2.2 Asahi Kasei

### 2.2.1 Asahi Kasei Details

### 2.2.2 Asahi Kasei Major Business

### 2.2.3 Asahi Kasei Grating Angle Encoders Product and Services

### 2.2.4 Asahi Kasei Grating Angle Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.2.5 Asahi Kasei Recent Developments/Updates

## 2.3 FAGOR

### 2.3.1 FAGOR Details

### 2.3.2 FAGOR Major Business

### 2.3.3 FAGOR Grating Angle Encoders Product and Services

### 2.3.4 FAGOR Grating Angle Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.3.5 FAGOR Recent Developments/Updates

## 2.4 RENISHAW

### 2.4.1 RENISHAW Details

### 2.4.2 RENISHAW Major Business

### 2.4.3 RENISHAW Grating Angle Encoders Product and Services

### 2.4.4 RENISHAW Grating Angle Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.4.5 RENISHAW Recent Developments/Updates

## 2.5 Kubler Group

### 2.5.1 Kubler Group Details

### 2.5.2 Kubler Group Major Business

### 2.5.3 Kubler Group Grating Angle Encoders Product and Services

### 2.5.4 Kubler Group Grating Angle Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.5.5 Kubler Group Recent Developments/Updates

## 2.6 Baumer Group

### 2.6.1 Baumer Group Details

### 2.6.2 Baumer Group Major Business

### 2.6.3 Baumer Group Grating Angle Encoders Product and Services

2.6.4 Baumer Group Grating Angle Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Baumer Group Recent Developments/Updates

2.7 Dynapar

2.7.1 Dynapar Details

2.7.2 Dynapar Major Business

2.7.3 Dynapar Grating Angle Encoders Product and Services

2.7.4 Dynapar Grating Angle Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Dynapar Recent Developments/Updates

2.8 RLS

2.8.1 RLS Details

2.8.2 RLS Major Business

2.8.3 RLS Grating Angle Encoders Product and Services

2.8.4 RLS Grating Angle Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 RLS Recent Developments/Updates

2.9 Yuheng Optics Co., Ltd

2.9.1 Yuheng Optics Co., Ltd Details

2.9.2 Yuheng Optics Co., Ltd Major Business

2.9.3 Yuheng Optics Co., Ltd Grating Angle Encoders Product and Services

2.9.4 Yuheng Optics Co., Ltd Grating Angle Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Yuheng Optics Co., Ltd Recent Developments/Updates

2.10 PMT

2.10.1 PMT Details

2.10.2 PMT Major Business

2.10.3 PMT Grating Angle Encoders Product and Services

2.10.4 PMT Grating Angle Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 PMT Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: GRATING ANGLE ENCODERS BY MANUFACTURER**

3.1 Global Grating Angle Encoders Sales Quantity by Manufacturer (2021-2026)

3.2 Global Grating Angle Encoders Revenue by Manufacturer (2021-2026)

3.3 Global Grating Angle Encoders Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Grating Angle Encoders by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Grating Angle Encoders Manufacturer Market Share in 2025

3.4.3 Top 6 Grating Angle Encoders Manufacturer Market Share in 2025

3.5 Grating Angle Encoders Market: Overall Company Footprint Analysis

3.5.1 Grating Angle Encoders Market: Region Footprint

3.5.2 Grating Angle Encoders Market: Company Product Type Footprint

3.5.3 Grating Angle Encoders 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 Grating Angle Encoders Market Size by Region

4.1.1 Global Grating Angle Encoders Sales Quantity by Region (2021-2032)

4.1.2 Global Grating Angle Encoders Consumption Value by Region (2021-2032)

4.1.3 Global Grating Angle Encoders Average Price by Region (2021-2032)

4.2 North America Grating Angle Encoders Consumption Value (2021-2032)

4.3 Europe Grating Angle Encoders Consumption Value (2021-2032)

4.4 Asia-Pacific Grating Angle Encoders Consumption Value (2021-2032)

4.5 South America Grating Angle Encoders Consumption Value (2021-2032)

4.6 Middle East & Africa Grating Angle Encoders Consumption Value (2021-2032)

## **5 MARKET SEGMENT BY TYPE**

5.1 Global Grating Angle Encoders Sales Quantity by Type (2021-2032)

5.2 Global Grating Angle Encoders Consumption Value by Type (2021-2032)

5.3 Global Grating Angle Encoders Average Price by Type (2021-2032)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global Grating Angle Encoders Sales Quantity by Application (2021-2032)

6.2 Global Grating Angle Encoders Consumption Value by Application (2021-2032)

6.3 Global Grating Angle Encoders Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

7.1 North America Grating Angle Encoders Sales Quantity by Type (2021-2032)

7.2 North America Grating Angle Encoders Sales Quantity by Application (2021-2032)

## 7.3 North America Grating Angle Encoders Market Size by Country

7.3.1 North America Grating Angle Encoders Sales Quantity by Country (2021-2032)

7.3.2 North America Grating Angle Encoders 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 Grating Angle Encoders Sales Quantity by Type (2021-2032)

8.2 Europe Grating Angle Encoders Sales Quantity by Application (2021-2032)

8.3 Europe Grating Angle Encoders Market Size by Country

8.3.1 Europe Grating Angle Encoders Sales Quantity by Country (2021-2032)

8.3.2 Europe Grating Angle Encoders 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 Grating Angle Encoders Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Grating Angle Encoders Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Grating Angle Encoders Market Size by Region

9.3.1 Asia-Pacific Grating Angle Encoders Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Grating Angle Encoders 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 Grating Angle Encoders Sales Quantity by Type (2021-2032)

10.2 South America Grating Angle Encoders Sales Quantity by Application (2021-2032)

### 10.3 South America Grating Angle Encoders Market Size by Country

10.3.1 South America Grating Angle Encoders Sales Quantity by Country (2021-2032)

10.3.2 South America Grating Angle Encoders 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 Grating Angle Encoders Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Grating Angle Encoders Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Grating Angle Encoders Market Size by Country

11.3.1 Middle East & Africa Grating Angle Encoders Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Grating Angle Encoders 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 Grating Angle Encoders Market Drivers

12.2 Grating Angle Encoders Market Restraints

12.3 Grating Angle Encoders 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 Grating Angle Encoders and Key Manufacturers

13.2 Manufacturing Costs Percentage of Grating Angle Encoders

13.3 Grating Angle Encoders 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 Grating Angle Encoders Typical Distributors

14.3 Grating Angle Encoders 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 Grating Angle Encoders Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Grating Angle Encoders Consumption Value by Output Type, (USD Million), 2021 & 2025 & 2032

Table 3. Global Grating Angle Encoders Consumption Value by Mounting Style, (USD Million), 2021 & 2025 & 2032

Table 4. Global Grating Angle Encoders Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. HEIDENHAIN Basic Information, Manufacturing Base and Competitors

Table 6. HEIDENHAIN Major Business

Table 7. HEIDENHAIN Grating Angle Encoders Product and Services

Table 8. HEIDENHAIN Grating Angle Encoders Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. HEIDENHAIN Recent Developments/Updates

Table 10. Asahi Kasei Basic Information, Manufacturing Base and Competitors

Table 11. Asahi Kasei Major Business

Table 12. Asahi Kasei Grating Angle Encoders Product and Services

Table 13. Asahi Kasei Grating Angle Encoders Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Asahi Kasei Recent Developments/Updates

Table 15. FAGOR Basic Information, Manufacturing Base and Competitors

Table 16. FAGOR Major Business

Table 17. FAGOR Grating Angle Encoders Product and Services

Table 18. FAGOR Grating Angle Encoders Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. FAGOR Recent Developments/Updates

Table 20. RENISHAW Basic Information, Manufacturing Base and Competitors

Table 21. RENISHAW Major Business

Table 22. RENISHAW Grating Angle Encoders Product and Services

Table 23. RENISHAW Grating Angle Encoders Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. RENISHAW Recent Developments/Updates

Table 25. Kubler Group Basic Information, Manufacturing Base and Competitors

Table 26. Kubler Group Major Business

Table 27. Kubler Group Grating Angle Encoders Product and Services

Table 28. Kubler Group Grating Angle Encoders Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Kubler Group Recent Developments/Updates

Table 30. Baumer Group Basic Information, Manufacturing Base and Competitors

Table 31. Baumer Group Major Business

Table 32. Baumer Group Grating Angle Encoders Product and Services

Table 33. Baumer Group Grating Angle Encoders Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Baumer Group Recent Developments/Updates

Table 35. Dynapar Basic Information, Manufacturing Base and Competitors

Table 36. Dynapar Major Business

Table 37. Dynapar Grating Angle Encoders Product and Services

Table 38. Dynapar Grating Angle Encoders Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Dynapar Recent Developments/Updates

Table 40. RLS Basic Information, Manufacturing Base and Competitors

Table 41. RLS Major Business

Table 42. RLS Grating Angle Encoders Product and Services

Table 43. RLS Grating Angle Encoders Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. RLS Recent Developments/Updates

Table 45. Yuheng Optics Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 46. Yuheng Optics Co., Ltd Major Business

Table 47. Yuheng Optics Co., Ltd Grating Angle Encoders Product and Services

Table 48. Yuheng Optics Co., Ltd Grating Angle Encoders Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Yuheng Optics Co., Ltd Recent Developments/Updates

Table 50. PMT Basic Information, Manufacturing Base and Competitors

Table 51. PMT Major Business

Table 52. PMT Grating Angle Encoders Product and Services

Table 53. PMT Grating Angle Encoders Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. PMT Recent Developments/Updates

Table 55. Global Grating Angle Encoders Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 56. Global Grating Angle Encoders Revenue by Manufacturer (2021-2026) & (USD Million)

Table 57. Global Grating Angle Encoders Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 58. Market Position of Manufacturers in Grating Angle Encoders, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 59. Head Office and Grating Angle Encoders Production Site of Key Manufacturer

Table 60. Grating Angle Encoders Market: Company Product Type Footprint

Table 61. Grating Angle Encoders Market: Company Product Application Footprint

Table 62. Grating Angle Encoders New Market Entrants and Barriers to Market Entry

Table 63. Grating Angle Encoders Mergers, Acquisition, Agreements, and Collaborations

Table 64. Global Grating Angle Encoders Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 65. Global Grating Angle Encoders Sales Quantity by Region (2021-2026) & (K Units)

Table 66. Global Grating Angle Encoders Sales Quantity by Region (2027-2032) & (K Units)

Table 67. Global Grating Angle Encoders Consumption Value by Region (2021-2026) & (USD Million)

Table 68. Global Grating Angle Encoders Consumption Value by Region (2027-2032) & (USD Million)

Table 69. Global Grating Angle Encoders Average Price by Region (2021-2026) & (US\$/Unit)

Table 70. Global Grating Angle Encoders Average Price by Region (2027-2032) & (US\$/Unit)

Table 71. Global Grating Angle Encoders Sales Quantity by Type (2021-2026) & (K Units)

Table 72. Global Grating Angle Encoders Sales Quantity by Type (2027-2032) & (K Units)

Table 73. Global Grating Angle Encoders Consumption Value by Type (2021-2026) & (USD Million)

Table 74. Global Grating Angle Encoders Consumption Value by Type (2027-2032) & (USD Million)

Table 75. Global Grating Angle Encoders Average Price by Type (2021-2026) & (US\$/Unit)

Table 76. Global Grating Angle Encoders Average Price by Type (2027-2032) & (US\$/Unit)

Table 77. Global Grating Angle Encoders Sales Quantity by Application (2021-2026) & (K Units)

Table 78. Global Grating Angle Encoders Sales Quantity by Application (2027-2032) &

(K Units)

Table 79. Global Grating Angle Encoders Consumption Value by Application (2021-2026) & (USD Million)

Table 80. Global Grating Angle Encoders Consumption Value by Application (2027-2032) & (USD Million)

Table 81. Global Grating Angle Encoders Average Price by Application (2021-2026) & (US\$/Unit)

Table 82. Global Grating Angle Encoders Average Price by Application (2027-2032) & (US\$/Unit)

Table 83. North America Grating Angle Encoders Sales Quantity by Type (2021-2026) & (K Units)

Table 84. North America Grating Angle Encoders Sales Quantity by Type (2027-2032) & (K Units)

Table 85. North America Grating Angle Encoders Sales Quantity by Application (2021-2026) & (K Units)

Table 86. North America Grating Angle Encoders Sales Quantity by Application (2027-2032) & (K Units)

Table 87. North America Grating Angle Encoders Sales Quantity by Country (2021-2026) & (K Units)

Table 88. North America Grating Angle Encoders Sales Quantity by Country (2027-2032) & (K Units)

Table 89. North America Grating Angle Encoders Consumption Value by Country (2021-2026) & (USD Million)

Table 90. North America Grating Angle Encoders Consumption Value by Country (2027-2032) & (USD Million)

Table 91. Europe Grating Angle Encoders Sales Quantity by Type (2021-2026) & (K Units)

Table 92. Europe Grating Angle Encoders Sales Quantity by Type (2027-2032) & (K Units)

Table 93. Europe Grating Angle Encoders Sales Quantity by Application (2021-2026) & (K Units)

Table 94. Europe Grating Angle Encoders Sales Quantity by Application (2027-2032) & (K Units)

Table 95. Europe Grating Angle Encoders Sales Quantity by Country (2021-2026) & (K Units)

Table 96. Europe Grating Angle Encoders Sales Quantity by Country (2027-2032) & (K Units)

Table 97. Europe Grating Angle Encoders Consumption Value by Country (2021-2026) & (USD Million)

Table 98. Europe Grating Angle Encoders Consumption Value by Country (2027-2032) & (USD Million)

Table 99. Asia-Pacific Grating Angle Encoders Sales Quantity by Type (2021-2026) & (K Units)

Table 100. Asia-Pacific Grating Angle Encoders Sales Quantity by Type (2027-2032) & (K Units)

Table 101. Asia-Pacific Grating Angle Encoders Sales Quantity by Application (2021-2026) & (K Units)

Table 102. Asia-Pacific Grating Angle Encoders Sales Quantity by Application (2027-2032) & (K Units)

Table 103. Asia-Pacific Grating Angle Encoders Sales Quantity by Region (2021-2026) & (K Units)

Table 104. Asia-Pacific Grating Angle Encoders Sales Quantity by Region (2027-2032) & (K Units)

Table 105. Asia-Pacific Grating Angle Encoders Consumption Value by Region (2021-2026) & (USD Million)

Table 106. Asia-Pacific Grating Angle Encoders Consumption Value by Region (2027-2032) & (USD Million)

Table 107. South America Grating Angle Encoders Sales Quantity by Type (2021-2026) & (K Units)

Table 108. South America Grating Angle Encoders Sales Quantity by Type (2027-2032) & (K Units)

Table 109. South America Grating Angle Encoders Sales Quantity by Application (2021-2026) & (K Units)

Table 110. South America Grating Angle Encoders Sales Quantity by Application (2027-2032) & (K Units)

Table 111. South America Grating Angle Encoders Sales Quantity by Country (2021-2026) & (K Units)

Table 112. South America Grating Angle Encoders Sales Quantity by Country (2027-2032) & (K Units)

Table 113. South America Grating Angle Encoders Consumption Value by Country (2021-2026) & (USD Million)

Table 114. South America Grating Angle Encoders Consumption Value by Country (2027-2032) & (USD Million)

Table 115. Middle East & Africa Grating Angle Encoders Sales Quantity by Type (2021-2026) & (K Units)

Table 116. Middle East & Africa Grating Angle Encoders Sales Quantity by Type (2027-2032) & (K Units)

Table 117. Middle East & Africa Grating Angle Encoders Sales Quantity by Application

(2021-2026) & (K Units)

Table 118. Middle East & Africa Grating Angle Encoders Sales Quantity by Application

(2027-2032) & (K Units)

Table 119. Middle East & Africa Grating Angle Encoders Sales Quantity by Country

(2021-2026) & (K Units)

Table 120. Middle East & Africa Grating Angle Encoders Sales Quantity by Country

(2027-2032) & (K Units)

Table 121. Middle East & Africa Grating Angle Encoders Consumption Value by Country (2021-2026) & (USD Million)

Table 122. Middle East & Africa Grating Angle Encoders Consumption Value by Country (2027-2032) & (USD Million)

Table 123. Grating Angle Encoders Raw Material

Table 124. Key Manufacturers of Grating Angle Encoders Raw Materials

Table 125. Grating Angle Encoders Typical Distributors

Table 126. Grating Angle Encoders Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. Grating Angle Encoders Picture
- Figure 2. Global Grating Angle Encoders Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Grating Angle Encoders Revenue Market Share by Type in 2025
- Figure 4. Magnetic Grating Encoders Examples
- Figure 5. Capacitive Grating Encoders Examples
- Figure 6. Inductive Grating Encoders Examples
- Figure 7. Global Grating Angle Encoders Revenue by Output Type, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global Grating Angle Encoders Revenue Market Share by Output Type in 2025
- Figure 9. Incremental Angle Encoders Examples
- Figure 10. Absolute Angle Encoders Examples
- Figure 11. Others Examples
- Figure 12. Global Grating Angle Encoders Revenue by Mounting Style, (USD Million), 2021 & 2025 & 2032
- Figure 13. Global Grating Angle Encoders Revenue Market Share by Mounting Style in 2025
- Figure 14. Hollow Shaft Encoders Examples
- Figure 15. Solid Shaft Encoders Examples
- Figure 16. Others Examples
- Figure 17. Global Grating Angle Encoders Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 18. Global Grating Angle Encoders Revenue Market Share by Application in 2025
- Figure 19. CNC Machine Tools Examples
- Figure 20. Industrial Robots Examples
- Figure 21. Defense and Military Industry Examples
- Figure 22. Aerospace Examples
- Figure 23. Other Examples
- Figure 24. Global Grating Angle Encoders Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 25. Global Grating Angle Encoders Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 26. Global Grating Angle Encoders Sales Quantity (2021-2032) & (K Units)

Figure 27. Global Grating Angle Encoders Price (2021-2032) & (US\$/Unit)

Figure 28. Global Grating Angle Encoders Sales Quantity Market Share by Manufacturer in 2025

Figure 29. Global Grating Angle Encoders Revenue Market Share by Manufacturer in 2025

Figure 30. Producer Shipments of Grating Angle Encoders by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 31. Top 3 Grating Angle Encoders Manufacturer (Revenue) Market Share in 2025

Figure 32. Top 6 Grating Angle Encoders Manufacturer (Revenue) Market Share in 2025

Figure 33. Global Grating Angle Encoders Sales Quantity Market Share by Region (2021-2032)

Figure 34. Global Grating Angle Encoders Consumption Value Market Share by Region (2021-2032)

Figure 35. North America Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 36. Europe Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 37. Asia-Pacific Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 38. South America Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 39. Middle East & Africa Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 40. Global Grating Angle Encoders Sales Quantity Market Share by Type (2021-2032)

Figure 41. Global Grating Angle Encoders Consumption Value Market Share by Type (2021-2032)

Figure 42. Global Grating Angle Encoders Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. Global Grating Angle Encoders Sales Quantity Market Share by Application (2021-2032)

Figure 44. Global Grating Angle Encoders Revenue Market Share by Application (2021-2032)

Figure 45. Global Grating Angle Encoders Average Price by Application (2021-2032) & (US\$/Unit)

Figure 46. North America Grating Angle Encoders Sales Quantity Market Share by Type (2021-2032)

Figure 47. North America Grating Angle Encoders Sales Quantity Market Share by Application (2021-2032)

Figure 48. North America Grating Angle Encoders Sales Quantity Market Share by Country (2021-2032)

Figure 49. North America Grating Angle Encoders Consumption Value Market Share by Country (2021-2032)

Figure 50. United States Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 51. Canada Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 52. Mexico Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 53. Europe Grating Angle Encoders Sales Quantity Market Share by Type (2021-2032)

Figure 54. Europe Grating Angle Encoders Sales Quantity Market Share by Application (2021-2032)

Figure 55. Europe Grating Angle Encoders Sales Quantity Market Share by Country (2021-2032)

Figure 56. Europe Grating Angle Encoders Consumption Value Market Share by Country (2021-2032)

Figure 57. Germany Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 58. France Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 59. United Kingdom Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 60. Russia Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 61. Italy Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 62. Asia-Pacific Grating Angle Encoders Sales Quantity Market Share by Type (2021-2032)

Figure 63. Asia-Pacific Grating Angle Encoders Sales Quantity Market Share by Application (2021-2032)

Figure 64. Asia-Pacific Grating Angle Encoders Sales Quantity Market Share by Region (2021-2032)

Figure 65. Asia-Pacific Grating Angle Encoders Consumption Value Market Share by Region (2021-2032)

Figure 66. China Grating Angle Encoders Consumption Value (2021-2032) & (USD

Million)

Figure 67. Japan Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 68. South Korea Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 69. India Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 70. Southeast Asia Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 71. Australia Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 72. South America Grating Angle Encoders Sales Quantity Market Share by Type (2021-2032)

Figure 73. South America Grating Angle Encoders Sales Quantity Market Share by Application (2021-2032)

Figure 74. South America Grating Angle Encoders Sales Quantity Market Share by Country (2021-2032)

Figure 75. South America Grating Angle Encoders Consumption Value Market Share by Country (2021-2032)

Figure 76. Brazil Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 77. Argentina Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 78. Middle East & Africa Grating Angle Encoders Sales Quantity Market Share by Type (2021-2032)

Figure 79. Middle East & Africa Grating Angle Encoders Sales Quantity Market Share by Application (2021-2032)

Figure 80. Middle East & Africa Grating Angle Encoders Sales Quantity Market Share by Country (2021-2032)

Figure 81. Middle East & Africa Grating Angle Encoders Consumption Value Market Share by Country (2021-2032)

Figure 82. Turkey Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 83. Egypt Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 84. Saudi Arabia Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

Figure 85. South Africa Grating Angle Encoders Consumption Value (2021-2032) & (USD Million)

- Figure 86. Grating Angle Encoders Market Drivers
- Figure 87. Grating Angle Encoders Market Restraints
- Figure 88. Grating Angle Encoders Market Trends
- Figure 89. Porters Five Forces Analysis
- Figure 90. Manufacturing Cost Structure Analysis of Grating Angle Encoders in 2025
- Figure 91. Manufacturing Process Analysis of Grating Angle Encoders
- Figure 92. Grating Angle Encoders Industrial Chain
- Figure 93. Sales Channel: Direct to End-User vs Distributors
- Figure 94. Direct Channel Pros & Cons
- Figure 95. Indirect Channel Pros & Cons
- Figure 96. Methodology
- Figure 97. Research Process and Data Source

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