

# Global Capacitive Modular 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 Capacitive Modular Encoders market size was valued at US\$ 1231 million in 2025 and is forecast to a readjusted size of US\$ 2236 million by 2032 with a CAGR of 8.9% during review period.

In 2025, global sales of capacitive encoders across various applications reached approximately 23 million units. Based on system design and purchase orders, the unit price was approximately USD 52, with a gross profit margin of approximately 28%?38%. Typical product structures include: a rotor disk or linear scale with periodic electrode patterns (multilayer PCB, glass, or metal substrate), stator-side excitation and receiving electrode arrays, a dedicated capacitance measurement ASIC, signal conditioning and interpolation circuits, interface conversion modules (ABZ, SSI, BiSS-C, SPI, RS-485, TTL/RS-422 differential output), housing, and bearings/mounting flanges. General parameters typically include: resolution 12?22 bit (up to 23?24 bit absolute value for high-end models), system accuracy ?10??60 arcseconds (up to several arcseconds for high-end aerospace/robotics models), operating speed 3,000?10,000 rpm (up to several m/s for linear models), supply voltage 4.5?5.5 V or 9?30 V, operating temperature ?40 to +105 ?, and vibration resistance meeting industrial or military standards. Typical usage: A six-axis industrial robot typically uses 6?7 capacitive encoders (including joints and additional axes); a semiconductor conveyor/exposure platform uses 3?6 linear/rotary capacitive encoders; a mid-to-high-end servo motor test bench or turntable uses 1?2; and a medical imaging device (such as a CT/Gantry) uses 1?3. Upstream in the industry chain, capacitive encoders mainly rely on high-stability PCBs/glass substrates, copper/aluminum electrode materials, high-stability dielectric materials, dedicated capacitance measurement ASICs and mixed-signal chips, connectors, and cable assemblies. Downstream, they are concentrated in robot and collaborative robot

manufacturers, machine tool and motion control system manufacturers, semiconductor and electronic manufacturing equipment manufacturers, AGV/AMR manufacturers, and medical imaging and aerospace equipment companies.

This report is a detailed and comprehensive analysis for global Capacitive Modular Encoders market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Maximum Speed 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 Capacitive Modular Encoders market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Capacitive Modular 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 Capacitive Modular Encoders market size and forecasts, by Maximum Speed and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Capacitive Modular 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 Capacitive Modular 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 Capacitive Modular 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 Kappasense, Same Sky, Netzer, TR Electronic, Heidenhain, PoLabs, Posital-Fraba, Hengstler, Bourns, SICK, etc.

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

## **Market Segmentation**

Capacitive Modular Encoders market is split by Maximum Speed and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Maximum Speed, 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 Maximum Speed

7500 RPM

8000 RPM

10000 RPM

Others

### Market segment by Input Voltage

3.6V

4.5V

Others

### Market segment by Orientation

Axial

Radial

#### Market segment by Application

Industrial Automation

Aerospace

Medical

Others

#### Major players covered

Kappasense

Same Sky

Netzer

TR Electronic

Heidenhain

PoLabs

Posital-Fraba

Hengstler

Bourns

SICK

Georg Schlegel

## Micro-Epsilon

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 Capacitive Modular Encoders product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Capacitive Modular 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 Maximum Speed and by Application, with sales market share and growth rate by Maximum Speed, 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 Capacitive Modular Encoders market forecast, by regions, by Maximum Speed, 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 Capacitive Modular Encoders.

Chapter 14 and 15, to describe Capacitive Modular 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 Maximum Speed

1.3.1 Overview: Global Capacitive Modular Encoders Consumption Value by Maximum Speed: 2021 Versus 2025 Versus 2032

1.3.2 7500 RPM

1.3.3 8000 RPM

1.3.4 10000 RPM

1.3.5 Others

1.4 Market Analysis by Input Voltage

1.4.1 Overview: Global Capacitive Modular Encoders Consumption Value by Input Voltage: 2021 Versus 2025 Versus 2032

1.4.2 3.6V

1.4.3 4.5V

1.4.4 Others

1.5 Market Analysis by Orientation

1.5.1 Overview: Global Capacitive Modular Encoders Consumption Value by Orientation: 2021 Versus 2025 Versus 2032

1.5.2 Axial

1.5.3 Radial

1.6 Market Analysis by Application

1.6.1 Overview: Global Capacitive Modular Encoders Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Industrial Automation

1.6.3 Aerospace

1.6.4 Medical

1.6.5 Others

1.7 Global Capacitive Modular Encoders Market Size & Forecast

1.7.1 Global Capacitive Modular Encoders Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Capacitive Modular Encoders Sales Quantity (2021-2032)

1.7.3 Global Capacitive Modular Encoders Average Price (2021-2032)

### 2 MANUFACTURERS PROFILES

2.1 Kappasense

- 2.1.1 Kappasense Details
- 2.1.2 Kappasense Major Business
- 2.1.3 Kappasense Capacitive Modular Encoders Product and Services
- 2.1.4 Kappasense Capacitive Modular Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Kappasense Recent Developments/Updates
- 2.2 Same Sky
  - 2.2.1 Same Sky Details
  - 2.2.2 Same Sky Major Business
  - 2.2.3 Same Sky Capacitive Modular Encoders Product and Services
  - 2.2.4 Same Sky Capacitive Modular Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.2.5 Same Sky Recent Developments/Updates
- 2.3 Netzer
  - 2.3.1 Netzer Details
  - 2.3.2 Netzer Major Business
  - 2.3.3 Netzer Capacitive Modular Encoders Product and Services
  - 2.3.4 Netzer Capacitive Modular Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.3.5 Netzer Recent Developments/Updates
- 2.4 TR Electronic
  - 2.4.1 TR Electronic Details
  - 2.4.2 TR Electronic Major Business
  - 2.4.3 TR Electronic Capacitive Modular Encoders Product and Services
  - 2.4.4 TR Electronic Capacitive Modular Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.4.5 TR Electronic Recent Developments/Updates
- 2.5 Heidenhain
  - 2.5.1 Heidenhain Details
  - 2.5.2 Heidenhain Major Business
  - 2.5.3 Heidenhain Capacitive Modular Encoders Product and Services
  - 2.5.4 Heidenhain Capacitive Modular Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.5.5 Heidenhain Recent Developments/Updates
- 2.6 PoLabs
  - 2.6.1 PoLabs Details
  - 2.6.2 PoLabs Major Business
  - 2.6.3 PoLabs Capacitive Modular Encoders Product and Services
  - 2.6.4 PoLabs Capacitive Modular Encoders Sales Quantity, Average Price, Revenue,

## Gross Margin and Market Share (2021-2026)

### 2.6.5 PoLabs Recent Developments/Updates

## 2.7 Posital-Fraba

### 2.7.1 Posital-Fraba Details

### 2.7.2 Posital-Fraba Major Business

### 2.7.3 Posital-Fraba Capacitive Modular Encoders Product and Services

### 2.7.4 Posital-Fraba Capacitive Modular Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.7.5 Posital-Fraba Recent Developments/Updates

## 2.8 Hengstler

### 2.8.1 Hengstler Details

### 2.8.2 Hengstler Major Business

### 2.8.3 Hengstler Capacitive Modular Encoders Product and Services

### 2.8.4 Hengstler Capacitive Modular Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.8.5 Hengstler Recent Developments/Updates

## 2.9 Bourns

### 2.9.1 Bourns Details

### 2.9.2 Bourns Major Business

### 2.9.3 Bourns Capacitive Modular Encoders Product and Services

### 2.9.4 Bourns Capacitive Modular Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.9.5 Bourns Recent Developments/Updates

## 2.10 SICK

### 2.10.1 SICK Details

### 2.10.2 SICK Major Business

### 2.10.3 SICK Capacitive Modular Encoders Product and Services

### 2.10.4 SICK Capacitive Modular Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.10.5 SICK Recent Developments/Updates

## 2.11 Georg Schlegel

### 2.11.1 Georg Schlegel Details

### 2.11.2 Georg Schlegel Major Business

### 2.11.3 Georg Schlegel Capacitive Modular Encoders Product and Services

### 2.11.4 Georg Schlegel Capacitive Modular Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.11.5 Georg Schlegel Recent Developments/Updates

## 2.12 Micro-Epsilon

### 2.12.1 Micro-Epsilon Details

- 2.12.2 Micro-Epsilon Major Business
- 2.12.3 Micro-Epsilon Capacitive Modular Encoders Product and Services
- 2.12.4 Micro-Epsilon Capacitive Modular Encoders Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.12.5 Micro-Epsilon Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: CAPACITIVE MODULAR ENCODERS BY MANUFACTURER**

- 3.1 Global Capacitive Modular Encoders Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Capacitive Modular Encoders Revenue by Manufacturer (2021-2026)
- 3.3 Global Capacitive Modular Encoders Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
  - 3.4.1 Producer Shipments of Capacitive Modular Encoders by Manufacturer Revenue (\$MM) and Market Share (%): 2025
  - 3.4.2 Top 3 Capacitive Modular Encoders Manufacturer Market Share in 2025
  - 3.4.3 Top 6 Capacitive Modular Encoders Manufacturer Market Share in 2025
- 3.5 Capacitive Modular Encoders Market: Overall Company Footprint Analysis
  - 3.5.1 Capacitive Modular Encoders Market: Region Footprint
  - 3.5.2 Capacitive Modular Encoders Market: Company Product Type Footprint
  - 3.5.3 Capacitive Modular 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 Capacitive Modular Encoders Market Size by Region
  - 4.1.1 Global Capacitive Modular Encoders Sales Quantity by Region (2021-2032)
  - 4.1.2 Global Capacitive Modular Encoders Consumption Value by Region (2021-2032)
  - 4.1.3 Global Capacitive Modular Encoders Average Price by Region (2021-2032)
- 4.2 North America Capacitive Modular Encoders Consumption Value (2021-2032)
- 4.3 Europe Capacitive Modular Encoders Consumption Value (2021-2032)
- 4.4 Asia-Pacific Capacitive Modular Encoders Consumption Value (2021-2032)
- 4.5 South America Capacitive Modular Encoders Consumption Value (2021-2032)
- 4.6 Middle East & Africa Capacitive Modular Encoders Consumption Value (2021-2032)

### **5 MARKET SEGMENT BY MAXIMUM SPEED**

- 5.1 Global Capacitive Modular Encoders Sales Quantity by Maximum Speed

(2021-2032)

5.2 Global Capacitive Modular Encoders Consumption Value by Maximum Speed

(2021-2032)

5.3 Global Capacitive Modular Encoders Average Price by Maximum Speed

(2021-2032)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global Capacitive Modular Encoders Sales Quantity by Application (2021-2032)

6.2 Global Capacitive Modular Encoders Consumption Value by Application

(2021-2032)

6.3 Global Capacitive Modular Encoders Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

7.1 North America Capacitive Modular Encoders Sales Quantity by Maximum Speed  
(2021-2032)

7.2 North America Capacitive Modular Encoders Sales Quantity by Application  
(2021-2032)

7.3 North America Capacitive Modular Encoders Market Size by Country

7.3.1 North America Capacitive Modular Encoders Sales Quantity by Country  
(2021-2032)

7.3.2 North America Capacitive Modular 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 Capacitive Modular Encoders Sales Quantity by Maximum Speed  
(2021-2032)

8.2 Europe Capacitive Modular Encoders Sales Quantity by Application (2021-2032)

8.3 Europe Capacitive Modular Encoders Market Size by Country

8.3.1 Europe Capacitive Modular Encoders Sales Quantity by Country (2021-2032)

8.3.2 Europe Capacitive Modular 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 Capacitive Modular Encoders Sales Quantity by Maximum Speed (2021-2032)

9.2 Asia-Pacific Capacitive Modular Encoders Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Capacitive Modular Encoders Market Size by Region

9.3.1 Asia-Pacific Capacitive Modular Encoders Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Capacitive Modular 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 Capacitive Modular Encoders Sales Quantity by Maximum Speed (2021-2032)

10.2 South America Capacitive Modular Encoders Sales Quantity by Application (2021-2032)

10.3 South America Capacitive Modular Encoders Market Size by Country

10.3.1 South America Capacitive Modular Encoders Sales Quantity by Country (2021-2032)

10.3.2 South America Capacitive Modular 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 Capacitive Modular Encoders Sales Quantity by Maximum Speed (2021-2032)

11.2 Middle East & Africa Capacitive Modular Encoders Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Capacitive Modular Encoders Market Size by Country

11.3.1 Middle East & Africa Capacitive Modular Encoders Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Capacitive Modular 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 Capacitive Modular Encoders Market Drivers

12.2 Capacitive Modular Encoders Market Restraints

12.3 Capacitive Modular 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 Capacitive Modular Encoders and Key Manufacturers

13.2 Manufacturing Costs Percentage of Capacitive Modular Encoders

13.3 Capacitive Modular 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 Capacitive Modular Encoders Typical Distributors

14.3 Capacitive Modular 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 Capacitive Modular Encoders Consumption Value by Maximum Speed, (USD Million), 2021 & 2025 & 2032

Table 2. Global Capacitive Modular Encoders Consumption Value by Input Voltage, (USD Million), 2021 & 2025 & 2032

Table 3. Global Capacitive Modular Encoders Consumption Value by Orientation, (USD Million), 2021 & 2025 & 2032

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

Table 5. Kappasense Basic Information, Manufacturing Base and Competitors

Table 6. Kappasense Major Business

Table 7. Kappasense Capacitive Modular Encoders Product and Services

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

Table 9. Kappasense Recent Developments/Updates

Table 10. Same Sky Basic Information, Manufacturing Base and Competitors

Table 11. Same Sky Major Business

Table 12. Same Sky Capacitive Modular Encoders Product and Services

Table 13. Same Sky Capacitive Modular Encoders Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Same Sky Recent Developments/Updates

Table 15. Netzer Basic Information, Manufacturing Base and Competitors

Table 16. Netzer Major Business

Table 17. Netzer Capacitive Modular Encoders Product and Services

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

Table 19. Netzer Recent Developments/Updates

Table 20. TR Electronic Basic Information, Manufacturing Base and Competitors

Table 21. TR Electronic Major Business

Table 22. TR Electronic Capacitive Modular Encoders Product and Services

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

Table 24. TR Electronic Recent Developments/Updates

Table 25. Heidenhain Basic Information, Manufacturing Base and Competitors

Table 26. Heidenhain Major Business

- Table 27. Heidenhain Capacitive Modular Encoders Product and Services
- Table 28. Heidenhain Capacitive Modular Encoders Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 29. Heidenhain Recent Developments/Updates
- Table 30. PoLabs Basic Information, Manufacturing Base and Competitors
- Table 31. PoLabs Major Business
- Table 32. PoLabs Capacitive Modular Encoders Product and Services
- Table 33. PoLabs Capacitive Modular Encoders Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 34. PoLabs Recent Developments/Updates
- Table 35. Posital-Fraba Basic Information, Manufacturing Base and Competitors
- Table 36. Posital-Fraba Major Business
- Table 37. Posital-Fraba Capacitive Modular Encoders Product and Services
- Table 38. Posital-Fraba Capacitive Modular Encoders Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 39. Posital-Fraba Recent Developments/Updates
- Table 40. Hengstler Basic Information, Manufacturing Base and Competitors
- Table 41. Hengstler Major Business
- Table 42. Hengstler Capacitive Modular Encoders Product and Services
- Table 43. Hengstler Capacitive Modular Encoders Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 44. Hengstler Recent Developments/Updates
- Table 45. Bourns Basic Information, Manufacturing Base and Competitors
- Table 46. Bourns Major Business
- Table 47. Bourns Capacitive Modular Encoders Product and Services
- Table 48. Bourns Capacitive Modular Encoders Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 49. Bourns Recent Developments/Updates
- Table 50. SICK Basic Information, Manufacturing Base and Competitors
- Table 51. SICK Major Business
- Table 52. SICK Capacitive Modular Encoders Product and Services
- Table 53. SICK Capacitive Modular Encoders Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 54. SICK Recent Developments/Updates
- Table 55. Georg Schlegel Basic Information, Manufacturing Base and Competitors
- Table 56. Georg Schlegel Major Business
- Table 57. Georg Schlegel Capacitive Modular Encoders Product and Services
- Table 58. Georg Schlegel Capacitive Modular Encoders Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share

(2021-2026)

Table 59. Georg Schlegel Recent Developments/Updates

Table 60. Micro-Epsilon Basic Information, Manufacturing Base and Competitors

Table 61. Micro-Epsilon Major Business

Table 62. Micro-Epsilon Capacitive Modular Encoders Product and Services

Table 63. Micro-Epsilon Capacitive Modular Encoders Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Micro-Epsilon Recent Developments/Updates

Table 65. Global Capacitive Modular Encoders Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 66. Global Capacitive Modular Encoders Revenue by Manufacturer (2021-2026) & (USD Million)

Table 67. Global Capacitive Modular Encoders Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 68. Market Position of Manufacturers in Capacitive Modular Encoders, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 69. Head Office and Capacitive Modular Encoders Production Site of Key Manufacturer

Table 70. Capacitive Modular Encoders Market: Company Product Type Footprint

Table 71. Capacitive Modular Encoders Market: Company Product Application Footprint

Table 72. Capacitive Modular Encoders New Market Entrants and Barriers to Market Entry

Table 73. Capacitive Modular Encoders Mergers, Acquisition, Agreements, and Collaborations

Table 74. Global Capacitive Modular Encoders Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 75. Global Capacitive Modular Encoders Sales Quantity by Region (2021-2026) & (K Units)

Table 76. Global Capacitive Modular Encoders Sales Quantity by Region (2027-2032) & (K Units)

Table 77. Global Capacitive Modular Encoders Consumption Value by Region (2021-2026) & (USD Million)

Table 78. Global Capacitive Modular Encoders Consumption Value by Region (2027-2032) & (USD Million)

Table 79. Global Capacitive Modular Encoders Average Price by Region (2021-2026) & (US\$/Unit)

Table 80. Global Capacitive Modular Encoders Average Price by Region (2027-2032) & (US\$/Unit)

Table 81. Global Capacitive Modular Encoders Sales Quantity by Maximum Speed (2021-2026) & (K Units)

Table 82. Global Capacitive Modular Encoders Sales Quantity by Maximum Speed (2027-2032) & (K Units)

Table 83. Global Capacitive Modular Encoders Consumption Value by Maximum Speed (2021-2026) & (USD Million)

Table 84. Global Capacitive Modular Encoders Consumption Value by Maximum Speed (2027-2032) & (USD Million)

Table 85. Global Capacitive Modular Encoders Average Price by Maximum Speed (2021-2026) & (US\$/Unit)

Table 86. Global Capacitive Modular Encoders Average Price by Maximum Speed (2027-2032) & (US\$/Unit)

Table 87. Global Capacitive Modular Encoders Sales Quantity by Application (2021-2026) & (K Units)

Table 88. Global Capacitive Modular Encoders Sales Quantity by Application (2027-2032) & (K Units)

Table 89. Global Capacitive Modular Encoders Consumption Value by Application (2021-2026) & (USD Million)

Table 90. Global Capacitive Modular Encoders Consumption Value by Application (2027-2032) & (USD Million)

Table 91. Global Capacitive Modular Encoders Average Price by Application (2021-2026) & (US\$/Unit)

Table 92. Global Capacitive Modular Encoders Average Price by Application (2027-2032) & (US\$/Unit)

Table 93. North America Capacitive Modular Encoders Sales Quantity by Maximum Speed (2021-2026) & (K Units)

Table 94. North America Capacitive Modular Encoders Sales Quantity by Maximum Speed (2027-2032) & (K Units)

Table 95. North America Capacitive Modular Encoders Sales Quantity by Application (2021-2026) & (K Units)

Table 96. North America Capacitive Modular Encoders Sales Quantity by Application (2027-2032) & (K Units)

Table 97. North America Capacitive Modular Encoders Sales Quantity by Country (2021-2026) & (K Units)

Table 98. North America Capacitive Modular Encoders Sales Quantity by Country (2027-2032) & (K Units)

Table 99. North America Capacitive Modular Encoders Consumption Value by Country (2021-2026) & (USD Million)

Table 100. North America Capacitive Modular Encoders Consumption Value by Country

(2027-2032) & (USD Million)

Table 101. Europe Capacitive Modular Encoders Sales Quantity by Maximum Speed (2021-2026) & (K Units)

Table 102. Europe Capacitive Modular Encoders Sales Quantity by Maximum Speed (2027-2032) & (K Units)

Table 103. Europe Capacitive Modular Encoders Sales Quantity by Application (2021-2026) & (K Units)

Table 104. Europe Capacitive Modular Encoders Sales Quantity by Application (2027-2032) & (K Units)

Table 105. Europe Capacitive Modular Encoders Sales Quantity by Country (2021-2026) & (K Units)

Table 106. Europe Capacitive Modular Encoders Sales Quantity by Country (2027-2032) & (K Units)

Table 107. Europe Capacitive Modular Encoders Consumption Value by Country (2021-2026) & (USD Million)

Table 108. Europe Capacitive Modular Encoders Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Asia-Pacific Capacitive Modular Encoders Sales Quantity by Maximum Speed (2021-2026) & (K Units)

Table 110. Asia-Pacific Capacitive Modular Encoders Sales Quantity by Maximum Speed (2027-2032) & (K Units)

Table 111. Asia-Pacific Capacitive Modular Encoders Sales Quantity by Application (2021-2026) & (K Units)

Table 112. Asia-Pacific Capacitive Modular Encoders Sales Quantity by Application (2027-2032) & (K Units)

Table 113. Asia-Pacific Capacitive Modular Encoders Sales Quantity by Region (2021-2026) & (K Units)

Table 114. Asia-Pacific Capacitive Modular Encoders Sales Quantity by Region (2027-2032) & (K Units)

Table 115. Asia-Pacific Capacitive Modular Encoders Consumption Value by Region (2021-2026) & (USD Million)

Table 116. Asia-Pacific Capacitive Modular Encoders Consumption Value by Region (2027-2032) & (USD Million)

Table 117. South America Capacitive Modular Encoders Sales Quantity by Maximum Speed (2021-2026) & (K Units)

Table 118. South America Capacitive Modular Encoders Sales Quantity by Maximum Speed (2027-2032) & (K Units)

Table 119. South America Capacitive Modular Encoders Sales Quantity by Application (2021-2026) & (K Units)

Table 120. South America Capacitive Modular Encoders Sales Quantity by Application (2027-2032) & (K Units)

Table 121. South America Capacitive Modular Encoders Sales Quantity by Country (2021-2026) & (K Units)

Table 122. South America Capacitive Modular Encoders Sales Quantity by Country (2027-2032) & (K Units)

Table 123. South America Capacitive Modular Encoders Consumption Value by Country (2021-2026) & (USD Million)

Table 124. South America Capacitive Modular Encoders Consumption Value by Country (2027-2032) & (USD Million)

Table 125. Middle East & Africa Capacitive Modular Encoders Sales Quantity by Maximum Speed (2021-2026) & (K Units)

Table 126. Middle East & Africa Capacitive Modular Encoders Sales Quantity by Maximum Speed (2027-2032) & (K Units)

Table 127. Middle East & Africa Capacitive Modular Encoders Sales Quantity by Application (2021-2026) & (K Units)

Table 128. Middle East & Africa Capacitive Modular Encoders Sales Quantity by Application (2027-2032) & (K Units)

Table 129. Middle East & Africa Capacitive Modular Encoders Sales Quantity by Country (2021-2026) & (K Units)

Table 130. Middle East & Africa Capacitive Modular Encoders Sales Quantity by Country (2027-2032) & (K Units)

Table 131. Middle East & Africa Capacitive Modular Encoders Consumption Value by Country (2021-2026) & (USD Million)

Table 132. Middle East & Africa Capacitive Modular Encoders Consumption Value by Country (2027-2032) & (USD Million)

Table 133. Capacitive Modular Encoders Raw Material

Table 134. Key Manufacturers of Capacitive Modular Encoders Raw Materials

Table 135. Capacitive Modular Encoders Typical Distributors

Table 136. Capacitive Modular Encoders Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Capacitive Modular Encoders Picture

Figure 2. Global Capacitive Modular Encoders Revenue by Maximum Speed, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Capacitive Modular Encoders Revenue Market Share by Maximum Speed in 2025

Figure 4. 7500 RPM Examples

Figure 5. 8000 RPM Examples

Figure 6. 10000 RPM Examples

Figure 7. Others Examples

Figure 8. Global Capacitive Modular Encoders Revenue by Input Voltage, (USD Million), 2021 & 2025 & 2032

Figure 9. Global Capacitive Modular Encoders Revenue Market Share by Input Voltage in 2025

Figure 10. 3.6V Examples

Figure 11. 4.5V Examples

Figure 12. Others Examples

Figure 13. Global Capacitive Modular Encoders Revenue by Orientation, (USD Million), 2021 & 2025 & 2032

Figure 14. Global Capacitive Modular Encoders Revenue Market Share by Orientation in 2025

Figure 15. Axial Examples

Figure 16. Radial Examples

Figure 17. Global Capacitive Modular Encoders Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 18. Global Capacitive Modular Encoders Revenue Market Share by Application in 2025

Figure 19. Industrial Automation Examples

Figure 20. Aerospace Examples

Figure 21. Medical Examples

Figure 22. Others Examples

Figure 23. Global Capacitive Modular Encoders Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 24. Global Capacitive Modular Encoders Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 25. Global Capacitive Modular Encoders Sales Quantity (2021-2032) & (K Units)

- Figure 26. Global Capacitive Modular Encoders Price (2021-2032) & (US\$/Unit)
- Figure 27. Global Capacitive Modular Encoders Sales Quantity Market Share by Manufacturer in 2025
- Figure 28. Global Capacitive Modular Encoders Revenue Market Share by Manufacturer in 2025
- Figure 29. Producer Shipments of Capacitive Modular Encoders by Manufacturer Sales (\$MM) and Market Share (%): 2025
- Figure 30. Top 3 Capacitive Modular Encoders Manufacturer (Revenue) Market Share in 2025
- Figure 31. Top 6 Capacitive Modular Encoders Manufacturer (Revenue) Market Share in 2025
- Figure 32. Global Capacitive Modular Encoders Sales Quantity Market Share by Region (2021-2032)
- Figure 33. Global Capacitive Modular Encoders Consumption Value Market Share by Region (2021-2032)
- Figure 34. North America Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)
- Figure 35. Europe Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)
- Figure 36. Asia-Pacific Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)
- Figure 37. South America Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)
- Figure 38. Middle East & Africa Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)
- Figure 39. Global Capacitive Modular Encoders Sales Quantity Market Share by Maximum Speed (2021-2032)
- Figure 40. Global Capacitive Modular Encoders Consumption Value Market Share by Maximum Speed (2021-2032)
- Figure 41. Global Capacitive Modular Encoders Average Price by Maximum Speed (2021-2032) & (US\$/Unit)
- Figure 42. Global Capacitive Modular Encoders Sales Quantity Market Share by Application (2021-2032)
- Figure 43. Global Capacitive Modular Encoders Revenue Market Share by Application (2021-2032)
- Figure 44. Global Capacitive Modular Encoders Average Price by Application (2021-2032) & (US\$/Unit)
- Figure 45. North America Capacitive Modular Encoders Sales Quantity Market Share by Maximum Speed (2021-2032)

Figure 46. North America Capacitive Modular Encoders Sales Quantity Market Share by Application (2021-2032)

Figure 47. North America Capacitive Modular Encoders Sales Quantity Market Share by Country (2021-2032)

Figure 48. North America Capacitive Modular Encoders Consumption Value Market Share by Country (2021-2032)

Figure 49. United States Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)

Figure 50. Canada Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)

Figure 51. Mexico Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)

Figure 52. Europe Capacitive Modular Encoders Sales Quantity Market Share by Maximum Speed (2021-2032)

Figure 53. Europe Capacitive Modular Encoders Sales Quantity Market Share by Application (2021-2032)

Figure 54. Europe Capacitive Modular Encoders Sales Quantity Market Share by Country (2021-2032)

Figure 55. Europe Capacitive Modular Encoders Consumption Value Market Share by Country (2021-2032)

Figure 56. Germany Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)

Figure 57. France Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)

Figure 58. United Kingdom Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)

Figure 59. Russia Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)

Figure 60. Italy Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)

Figure 61. Asia-Pacific Capacitive Modular Encoders Sales Quantity Market Share by Maximum Speed (2021-2032)

Figure 62. Asia-Pacific Capacitive Modular Encoders Sales Quantity Market Share by Application (2021-2032)

Figure 63. Asia-Pacific Capacitive Modular Encoders Sales Quantity Market Share by Region (2021-2032)

Figure 64. Asia-Pacific Capacitive Modular Encoders Consumption Value Market Share by Region (2021-2032)

Figure 65. China Capacitive Modular Encoders Consumption Value (2021-2032) &

(USD Million)

Figure 66. Japan Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)

Figure 67. South Korea Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)

Figure 68. India Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)

Figure 69. Southeast Asia Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)

Figure 70. Australia Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)

Figure 71. South America Capacitive Modular Encoders Sales Quantity Market Share by Maximum Speed (2021-2032)

Figure 72. South America Capacitive Modular Encoders Sales Quantity Market Share by Application (2021-2032)

Figure 73. South America Capacitive Modular Encoders Sales Quantity Market Share by Country (2021-2032)

Figure 74. South America Capacitive Modular Encoders Consumption Value Market Share by Country (2021-2032)

Figure 75. Brazil Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)

Figure 76. Argentina Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)

Figure 77. Middle East & Africa Capacitive Modular Encoders Sales Quantity Market Share by Maximum Speed (2021-2032)

Figure 78. Middle East & Africa Capacitive Modular Encoders Sales Quantity Market Share by Application (2021-2032)

Figure 79. Middle East & Africa Capacitive Modular Encoders Sales Quantity Market Share by Country (2021-2032)

Figure 80. Middle East & Africa Capacitive Modular Encoders Consumption Value Market Share by Country (2021-2032)

Figure 81. Turkey Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)

Figure 82. Egypt Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)

Figure 83. Saudi Arabia Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)

Figure 84. South Africa Capacitive Modular Encoders Consumption Value (2021-2032) & (USD Million)

- Figure 85. Capacitive Modular Encoders Market Drivers
- Figure 86. Capacitive Modular Encoders Market Restraints
- Figure 87. Capacitive Modular Encoders Market Trends
- Figure 88. Porters Five Forces Analysis
- Figure 89. Manufacturing Cost Structure Analysis of Capacitive Modular Encoders in 2025
- Figure 90. Manufacturing Process Analysis of Capacitive Modular Encoders
- Figure 91. Capacitive Modular Encoders Industrial Chain
- Figure 92. Sales Channel: Direct to End-User vs Distributors
- Figure 93. Direct Channel Pros & Cons
- Figure 94. Indirect Channel Pros & Cons
- Figure 95. Methodology
- Figure 96. Research Process and Data Source

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