

Global Magnetic Linear Encoder Market Growth 2026-2032

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Abstracts

The global Magnetic Linear Encoder market size is predicted to grow from US\$ 759 million in 2025 to US\$ 1244 million in 2032; it is expected to grow at a CAGR of 7.4% from 2026 to 2032.

A Magnetic Linear Encoder is a non-contact position sensing device that measures and feeds back linear displacement through the relative motion between a magnetically encoded scale and a readhead. Its typical physical form consists of a strip- or ruler-like magnetic scale, a compact readhead, and a connection cable, with some versions incorporating a metal mounting base, protective cover, or sealed enclosure. The product is mainly composed of a magnetic scale or tape, a magnetic sensing readhead, signal-processing electronics, mounting structures, and output interfaces. It can be classified into incremental and absolute types, as well as open and enclosed designs. During operation, Hall, AMR, or TMR sensing elements inside the readhead detect changes in magnetic poles or absolute coded information and convert linear motion into quadrature pulses, analog signals, or serial digital outputs for closed-loop control by servo drives, PLCs, or CNC systems. It is widely used in machine tools, robotics, AGVs, semiconductor equipment, printing and packaging machinery, medical devices, warehousing systems, and new-energy equipment, especially where robust position, speed, and direction feedback is required under contamination, vibration, and relatively large installation tolerances.

Magnetic Linear Encoders are entering a phase in which their value is shifting from that of a standalone component to that of a system-enabling technology. For global manufacturers, they are no longer merely basic devices for linear displacement detection, but increasingly important building blocks for achieving high responsiveness, high uptime, and strong closed-loop control in advanced equipment. As industrial

automation, smart manufacturing, robotics, CNC machine tools, semiconductor equipment, and logistics automation continue to advance, user requirements for position feedback are evolving from pure accuracy to a broader balance of accuracy, robustness, service life, installation tolerance, and maintenance efficiency. Compared with optical solutions, magnetic linear encoders offer compelling advantages in non-contact operation, contamination resistance, vibration resistance, moisture tolerance, adaptability to harsh environments, and ease of integration over long measuring lengths, making them especially attractive in dusty, oily, coolant-rich, outdoor, or highly dynamic operating conditions. At the same time, the continued evolution of Hall, AMR, GMR, and TMR sensing technologies, together with advances in ASICs, interface electronics, and signal processing, is steadily improving resolution, bandwidth, power efficiency, and system compatibility. This is accelerating adoption beyond conventional measurement tasks into higher-value applications such as robotic joints and linear axes, packaging and intralogistics, woodworking and metalworking equipment, medical systems, and new-energy machinery. For investors and strategic decision-makers, the central opportunity does not lie in replacing every competing technology, but in building scalable positions across a wide range of applications where environmental resilience and total cost of ownership matter most.

That said, from the perspective of competition and commercialization, magnetic linear encoders face meaningful constraints. End users do not evaluate these products solely on isolated performance metrics; they assess repeatability on the machine, linearity, thermal drift, EMC resilience, interface compatibility, installation convenience, and long-term reliability. As a result, suppliers must master a coordinated chain of competencies spanning magnetic materials, magnetization processes, readhead design, algorithmic compensation, packaging, and industrial validation. In addition, in high-end machine tools, ultra-precision positioning, and certain semiconductor process tools, optical linear encoders still retain a strong edge in ultimate accuracy and premium brand perception. To win share, magnetic solutions must therefore build their case around fit-for-environment performance, durability, and total cost of ownership rather than relying on price competition alone. The industry also shows a meaningful degree of concentration, with leading players typically controlling core sensing technologies, system-level customer relationships, and global channels. New entrants without strong application engineering and certification-management capabilities often discover that building the product is easier than entering qualified projects or scaling revenue. Moreover, downstream capital spending remains cyclical, while geopolitical shifts, supply-chain restructuring, and stronger localization preferences can all affect the pace of program ramp-up. This makes the market especially suitable for companies that can combine international service capability, sector-specific customization, and solution-oriented

selling rather than remaining narrowly focused on discrete components.

Looking ahead, the most attractive demand momentum for magnetic linear encoders is unlikely to come from a single end market, but from the simultaneous upgrading of multiple automation domains. Machine tools and industrial automation will remain the base of demand, yet the real expansion narrative is being shaped by robotics and cobots, AGVs and AMRs, semiconductor and electronics assembly equipment, smart warehousing, packaging machinery, and high-speed conveying systems. Together, these applications are pushing product development toward miniaturization, lower weight, faster dynamic response, longer service life, plug-and-play deployment, and broader protocol compatibility. The market is increasingly favoring suppliers capable of offering both incremental and absolute feedback, while supporting longer measuring ranges, higher ingress protection, and simplified wiring architectures. Procurement criteria are also shifting from whether a product can measure position to whether it can reliably support machine throughput, reduce downtime, lower maintenance burden, and fit globally deployable equipment platforms. This suggests that suppliers with modular product platforms and the ability to combine readheads, magnetic tapes, interfaces, and diagnostic software into integrated offerings will be better positioned than vendors selling isolated sensing elements. For policymakers, magnetic linear encoders represent more than a niche sensor category; they are part of the enabling infrastructure behind advanced manufacturing, intelligent equipment, and supply-chain resilience, and their strategic importance is likely to rise further with industrial digitalization, regional manufacturing reshoring, and the push for stronger local capability in high-end equipment.

LP Information, Inc. (LPI) ' newest research report, the "Magnetic Linear Encoder Industry Forecast" looks at past sales and reviews total world Magnetic Linear Encoder sales in 2025, providing a comprehensive analysis by region and market sector of projected Magnetic Linear Encoder sales for 2026 through 2032. With Magnetic Linear Encoder sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Magnetic Linear Encoder industry.

This Insight Report provides a comprehensive analysis of the global Magnetic Linear Encoder landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Magnetic Linear Encoder portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an

accelerating global Magnetic Linear Encoder market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Magnetic Linear Encoder and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Magnetic Linear Encoder.

This report presents a comprehensive overview, market shares, and growth opportunities of Magnetic Linear Encoder market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Voltage Output Magnetic Linear Encoder

Open Collector Output Magnetic Linear Encoder

Push-pull Complementary Output Magnetic Linear Encoder

Segmentation by Product Type:

Incremental Magnetic Linear Encoder

Absolute Magnetic Linear Encoder

Segmentation by Enclosure Structure:

Open Magnetic Linear Encoder

Enclosed Magnetic Linear Encoder

Segmentation by Measuring Length Class:

Short Stroke Type

Medium Stroke Type

Long Stroke Type

Segmentation by Application:

CMM

Laser Scanners

Callipers

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Balluff

Baumer Group

BEI Sensors

Electronica Mechatronic Systems

ELGO Electronic

GIVI MISURE

Hohner Automation

K?bler Group

Lika Electronic

MACOME

RLS

SIKO

Sensata Technologies

Hopo Technologies

ATEK Sensor Technologies

Key Questions Addressed in this Report

What is the 10-year outlook for the global Magnetic Linear Encoder market?

What factors are driving Magnetic Linear Encoder market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How doMagnetic Linear Encoder market opportunities vary by end market size?

How does Magnetic Linear Encoder break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Magnetic Linear Encoder Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Magnetic Linear Encoder by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Magnetic Linear Encoder by Country/Region, 2021, 2025 & 2032
- 2.2 Magnetic Linear Encoder Segment by Type
 - 2.2.1 Voltage Output Magnetic Linear Encoder
 - 2.2.2 Open Collector Output Magnetic Linear Encoder
 - 2.2.3 Push-pull Complementary Output Magnetic Linear Encoder
 - 2.2.4 Magnetic Linear Encoder Sales by Type
 - 2.2.4.1 Global Magnetic Linear Encoder Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Magnetic Linear Encoder Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Magnetic Linear Encoder Sale Price by Type (2021-2026)
- 2.3 Magnetic Linear Encoder Segment by Product Type
 - 2.3.1 Incremental Magnetic Linear Encoder
 - 2.3.2 Absolute Magnetic Linear Encoder
 - 2.3.3 Magnetic Linear Encoder Sales by Product Type
 - 2.3.3.1 Global Magnetic Linear Encoder Sales Market Share by Product Type (2021-2026)
 - 2.3.3.2 Global Magnetic Linear Encoder Revenue and Market Share by Product Type (2021-2026)
 - 2.3.3.3 Global Magnetic Linear Encoder Sale Price by Product Type (2021-2026)

2.4 Magnetic Linear Encoder Segment by Enclosure Structure

2.4.1 Open Magnetic Linear Encoder

2.4.2 Enclosed Magnetic Linear Encoder

2.4.3 Magnetic Linear Encoder Sales by Enclosure Structure

2.4.3.1 Global Magnetic Linear Encoder Sales Market Share by Enclosure Structure (2021-2026)

2.4.3.2 Global Magnetic Linear Encoder Revenue and Market Share by Enclosure Structure (2021-2026)

2.4.3.3 Global Magnetic Linear Encoder Sale Price by Enclosure Structure (2021-2026)

2.5 Magnetic Linear Encoder Segment by Measuring Length Class

2.5.1 Short Stroke Type

2.5.2 Medium Stroke Type

2.5.3 Long Stroke Type

2.5.4 Magnetic Linear Encoder Sales by Measuring Length Class

2.5.4.1 Global Magnetic Linear Encoder Sales Market Share by Measuring Length Class (2021-2026)

2.5.4.2 Global Magnetic Linear Encoder Revenue and Market Share by Measuring Length Class (2021-2026)

2.5.4.3 Global Magnetic Linear Encoder Sale Price by Measuring Length Class (2021-2026)

2.6 Magnetic Linear Encoder Segment by Application

2.6.1 CMM

2.6.2 Laser Scanners

2.6.3 Callipers

2.6.4 Others

2.6.5 Magnetic Linear Encoder Sales by Application

2.6.5.1 Global Magnetic Linear Encoder Sale Market Share by Application (2021-2026)

2.6.5.2 Global Magnetic Linear Encoder Revenue and Market Share by Application (2021-2026)

2.6.5.3 Global Magnetic Linear Encoder Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Magnetic Linear Encoder Breakdown Data by Company

3.1.1 Global Magnetic Linear Encoder Annual Sales by Company (2021-2026)

3.1.2 Global Magnetic Linear Encoder Sales Market Share by Company (2021-2026)

3.2 Global Magnetic Linear Encoder Annual Revenue by Company (2021-2026)

- 3.2.1 Global Magnetic Linear Encoder Revenue by Company (2021-2026)
- 3.2.2 Global Magnetic Linear Encoder Revenue Market Share by Company (2021-2026)
- 3.3 Global Magnetic Linear Encoder Sale Price by Company
- 3.4 Key Manufacturers Magnetic Linear Encoder Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Magnetic Linear Encoder Product Location Distribution
 - 3.4.2 Players Magnetic Linear Encoder Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR MAGNETIC LINEAR ENCODER BY GEOGRAPHIC REGION

- 4.1 World Historic Magnetic Linear Encoder Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Magnetic Linear Encoder Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Magnetic Linear Encoder Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Magnetic Linear Encoder Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Magnetic Linear Encoder Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Magnetic Linear Encoder Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Magnetic Linear Encoder Sales Growth
- 4.4 APAC Magnetic Linear Encoder Sales Growth
- 4.5 Europe Magnetic Linear Encoder Sales Growth
- 4.6 Middle East & Africa Magnetic Linear Encoder Sales Growth

5 AMERICAS

- 5.1 Americas Magnetic Linear Encoder Sales by Country
 - 5.1.1 Americas Magnetic Linear Encoder Sales by Country (2021-2026)
 - 5.1.2 Americas Magnetic Linear Encoder Revenue by Country (2021-2026)
- 5.2 Americas Magnetic Linear Encoder Sales by Type (2021-2026)

5.3 Americas Magnetic Linear Encoder Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Magnetic Linear Encoder Sales by Region

6.1.1 APAC Magnetic Linear Encoder Sales by Region (2021-2026)

6.1.2 APAC Magnetic Linear Encoder Revenue by Region (2021-2026)

6.2 APAC Magnetic Linear Encoder Sales by Type (2021-2026)

6.3 APAC Magnetic Linear Encoder Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Magnetic Linear Encoder by Country

7.1.1 Europe Magnetic Linear Encoder Sales by Country (2021-2026)

7.1.2 Europe Magnetic Linear Encoder Revenue by Country (2021-2026)

7.2 Europe Magnetic Linear Encoder Sales by Type (2021-2026)

7.3 Europe Magnetic Linear Encoder Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Magnetic Linear Encoder by Country

8.1.1 Middle East & Africa Magnetic Linear Encoder Sales by Country (2021-2026)

8.1.2 Middle East & Africa Magnetic Linear Encoder Revenue by Country (2021-2026)

- 8.2 Middle East & Africa Magnetic Linear Encoder Sales by Type (2021-2026)
- 8.3 Middle East & Africa Magnetic Linear Encoder Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Magnetic Linear Encoder
- 10.3 Manufacturing Process Analysis of Magnetic Linear Encoder
- 10.4 Industry Chain Structure of Magnetic Linear Encoder

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Magnetic Linear Encoder Distributors
- 11.3 Magnetic Linear Encoder Customer

12 WORLD FORECAST REVIEW FOR MAGNETIC LINEAR ENCODER BY GEOGRAPHIC REGION

- 12.1 Global Magnetic Linear Encoder Market Size Forecast by Region
 - 12.1.1 Global Magnetic Linear Encoder Forecast by Region (2027-2032)
 - 12.1.2 Global Magnetic Linear Encoder Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Magnetic Linear Encoder Forecast by Type (2027-2032)

12.7 Global Magnetic Linear Encoder Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Balluff

13.1.1 Balluff Company Information

13.1.2 Balluff Magnetic Linear Encoder Product Portfolios and Specifications

13.1.3 Balluff Magnetic Linear Encoder Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Balluff Main Business Overview

13.1.5 Balluff Latest Developments

13.2 Baumer Group

13.2.1 Baumer Group Company Information

13.2.2 Baumer Group Magnetic Linear Encoder Product Portfolios and Specifications

13.2.3 Baumer Group Magnetic Linear Encoder Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Baumer Group Main Business Overview

13.2.5 Baumer Group Latest Developments

13.3 BEI Sensors

13.3.1 BEI Sensors Company Information

13.3.2 BEI Sensors Magnetic Linear Encoder Product Portfolios and Specifications

13.3.3 BEI Sensors Magnetic Linear Encoder Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 BEI Sensors Main Business Overview

13.3.5 BEI Sensors Latest Developments

13.4 Electronica Mechatronic Systems

13.4.1 Electronica Mechatronic Systems Company Information

13.4.2 Electronica Mechatronic Systems Magnetic Linear Encoder Product Portfolios and Specifications

13.4.3 Electronica Mechatronic Systems Magnetic Linear Encoder Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Electronica Mechatronic Systems Main Business Overview

13.4.5 Electronica Mechatronic Systems Latest Developments

13.5 ELGO Electronic

13.5.1 ELGO Electronic Company Information

13.5.2 ELGO Electronic Magnetic Linear Encoder Product Portfolios and Specifications

13.5.3 ELGO Electronic Magnetic Linear Encoder Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 ELGO Electronic Main Business Overview

13.5.5 ELGO Electronic Latest Developments

13.6 GIVI MISURE

13.6.1 GIVI MISURE Company Information

13.6.2 GIVI MISURE Magnetic Linear Encoder Product Portfolios and Specifications

13.6.3 GIVI MISURE Magnetic Linear Encoder Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 GIVI MISURE Main Business Overview

13.6.5 GIVI MISURE Latest Developments

13.7 Hohner Automation

13.7.1 Hohner Automation Company Information

13.7.2 Hohner Automation Magnetic Linear Encoder Product Portfolios and Specifications

13.7.3 Hohner Automation Magnetic Linear Encoder Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Hohner Automation Main Business Overview

13.7.5 Hohner Automation Latest Developments

13.8 K?bler Group

13.8.1 K?bler Group Company Information

13.8.2 K?bler Group Magnetic Linear Encoder Product Portfolios and Specifications

13.8.3 K?bler Group Magnetic Linear Encoder Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 K?bler Group Main Business Overview

13.8.5 K?bler Group Latest Developments

13.9 Lika Electronic

13.9.1 Lika Electronic Company Information

13.9.2 Lika Electronic Magnetic Linear Encoder Product Portfolios and Specifications

13.9.3 Lika Electronic Magnetic Linear Encoder Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Lika Electronic Main Business Overview

13.9.5 Lika Electronic Latest Developments

13.10 MACOME

13.10.1 MACOME Company Information

13.10.2 MACOME Magnetic Linear Encoder Product Portfolios and Specifications

13.10.3 MACOME Magnetic Linear Encoder Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 MACOME Main Business Overview

13.10.5 MACOME Latest Developments

13.11 RLS

13.11.1 RLS Company Information

13.11.2 RLS Magnetic Linear Encoder Product Portfolios and Specifications

13.11.3 RLS Magnetic Linear Encoder Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 RLS Main Business Overview

13.11.5 RLS Latest Developments

13.12 SIKO

13.12.1 SIKO Company Information

13.12.2 SIKO Magnetic Linear Encoder Product Portfolios and Specifications

13.12.3 SIKO Magnetic Linear Encoder Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 SIKO Main Business Overview

13.12.5 SIKO Latest Developments

13.13 Sensata Technologies

13.13.1 Sensata Technologies Company Information

13.13.2 Sensata Technologies Magnetic Linear Encoder Product Portfolios and Specifications

13.13.3 Sensata Technologies Magnetic Linear Encoder Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Sensata Technologies Main Business Overview

13.13.5 Sensata Technologies Latest Developments

13.14 Hopo Technologies

13.14.1 Hopo Technologies Company Information

13.14.2 Hopo Technologies Magnetic Linear Encoder Product Portfolios and Specifications

13.14.3 Hopo Technologies Magnetic Linear Encoder Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Hopo Technologies Main Business Overview

13.14.5 Hopo Technologies Latest Developments

13.15 ATEK Sensor Technologies

13.15.1 ATEK Sensor Technologies Company Information

13.15.2 ATEK Sensor Technologies Magnetic Linear Encoder Product Portfolios and Specifications

13.15.3 ATEK Sensor Technologies Magnetic Linear Encoder Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 ATEK Sensor Technologies Main Business Overview

13.15.5 ATEK Sensor Technologies Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Magnetic Linear Encoder Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Magnetic Linear Encoder Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Voltage Output Magnetic Linear Encoder

Table 4. Major Players of Open Collector Output Magnetic Linear Encoder

Table 5. Major Players of Push-pull Complementary Output Magnetic Linear Encoder

Table 6. Global Magnetic Linear Encoder Sales by Type (2021-2026) & (K Units)

Table 7. Global Magnetic Linear Encoder Sales Market Share by Type (2021-2026)

Table 8. Global Magnetic Linear Encoder Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Magnetic Linear Encoder Revenue Market Share by Type (2021-2026)

Table 10. Global Magnetic Linear Encoder Sale Price by Type (2021-2026) & (USD/Unit)

Table 11. Major Players of Incremental Magnetic Linear Encoder

Table 12. Major Players of Absolute Magnetic Linear Encoder

Table 13. Global Magnetic Linear Encoder Sales by Product Type (2021-2026) & (K Units)

Table 14. Global Magnetic Linear Encoder Sales Market Share by Product Type (2021-2026)

Table 15. Global Magnetic Linear Encoder Revenue by Product Type (2021-2026) & (\$ million)

Table 16. Global Magnetic Linear Encoder Revenue Market Share by Product Type (2021-2026)

Table 17. Global Magnetic Linear Encoder Sale Price by Product Type (2021-2026) & (USD/Unit)

Table 18. Major Players of Open Magnetic Linear Encoder

Table 19. Major Players of Enclosed Magnetic Linear Encoder

Table 20. Global Magnetic Linear Encoder Sales by Enclosure Structure (2021-2026) & (K Units)

Table 21. Global Magnetic Linear Encoder Sales Market Share by Enclosure Structure (2021-2026)

Table 22. Global Magnetic Linear Encoder Revenue by Enclosure Structure (2021-2026) & (\$ million)

Table 23. Global Magnetic Linear Encoder Revenue Market Share by Enclosure Structure (2021-2026)

Table 24. Global Magnetic Linear Encoder Sale Price by Enclosure Structure (2021-2026) & (USD/Unit)
Table 25. Major Players of Short Stroke Type
Table 26. Major Players of Medium Stroke Type
Table 27. Major Players of Long Stroke Type
Table 28. Global Magnetic Linear Encoder Sales by Measuring Length Class (2021-2026) & (K Units)
Table 29. Global Magnetic Linear Encoder Sales Market Share by Measuring Length Class (2021-2026)
Table 30. Global Magnetic Linear Encoder Revenue by Measuring Length Class (2021-2026) & (\$ million)
Table 31. Global Magnetic Linear Encoder Revenue Market Share by Measuring Length Class (2021-2026)
Table 32. Global Magnetic Linear Encoder Sale Price by Measuring Length Class (2021-2026) & (USD/Unit)
Table 33. Global Magnetic Linear Encoder Sale by Application (2021-2026) & (K Units)
Table 34. Global Magnetic Linear Encoder Sale Market Share by Application (2021-2026)
Table 35. Global Magnetic Linear Encoder Revenue by Application (2021-2026) & (\$ million)
Table 36. Global Magnetic Linear Encoder Revenue Market Share by Application (2021-2026)
Table 37. Global Magnetic Linear Encoder Sale Price by Application (2021-2026) & (USD/Unit)
Table 38. Global Magnetic Linear Encoder Sales by Company (2021-2026) & (K Units)
Table 39. Global Magnetic Linear Encoder Sales Market Share by Company (2021-2026)
Table 40. Global Magnetic Linear Encoder Revenue by Company (2021-2026) & (\$ millions)
Table 41. Global Magnetic Linear Encoder Revenue Market Share by Company (2021-2026)
Table 42. Global Magnetic Linear Encoder Sale Price by Company (2021-2026) & (USD/Unit)
Table 43. Key Manufacturers Magnetic Linear Encoder Producing Area Distribution and Sales Area
Table 44. Players Magnetic Linear Encoder Products Offered
Table 45. Magnetic Linear Encoder Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 46. New Products and Potential Entrants

Table 47. Market M&A Activity & Strategy

Table 48. Global Magnetic Linear Encoder Sales by Geographic Region (2021-2026) & (K Units)

Table 49. Global Magnetic Linear Encoder Sales Market Share Geographic Region (2021-2026)

Table 50. Global Magnetic Linear Encoder Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 51. Global Magnetic Linear Encoder Revenue Market Share by Geographic Region (2021-2026)

Table 52. Global Magnetic Linear Encoder Sales by Country/Region (2021-2026) & (K Units)

Table 53. Global Magnetic Linear Encoder Sales Market Share by Country/Region (2021-2026)

Table 54. Global Magnetic Linear Encoder Revenue by Country/Region (2021-2026) & (\$ millions)

Table 55. Global Magnetic Linear Encoder Revenue Market Share by Country/Region (2021-2026)

Table 56. Americas Magnetic Linear Encoder Sales by Country (2021-2026) & (K Units)

Table 57. Americas Magnetic Linear Encoder Sales Market Share by Country (2021-2026)

Table 58. Americas Magnetic Linear Encoder Revenue by Country (2021-2026) & (\$ millions)

Table 59. Americas Magnetic Linear Encoder Sales by Type (2021-2026) & (K Units)

Table 60. Americas Magnetic Linear Encoder Sales by Application (2021-2026) & (K Units)

Table 61. APAC Magnetic Linear Encoder Sales by Region (2021-2026) & (K Units)

Table 62. APAC Magnetic Linear Encoder Sales Market Share by Region (2021-2026)

Table 63. APAC Magnetic Linear Encoder Revenue by Region (2021-2026) & (\$ millions)

Table 64. APAC Magnetic Linear Encoder Sales by Type (2021-2026) & (K Units)

Table 65. APAC Magnetic Linear Encoder Sales by Application (2021-2026) & (K Units)

Table 66. Europe Magnetic Linear Encoder Sales by Country (2021-2026) & (K Units)

Table 67. Europe Magnetic Linear Encoder Revenue by Country (2021-2026) & (\$ millions)

Table 68. Europe Magnetic Linear Encoder Sales by Type (2021-2026) & (K Units)

Table 69. Europe Magnetic Linear Encoder Sales by Application (2021-2026) & (K Units)

Table 70. Middle East & Africa Magnetic Linear Encoder Sales by Country (2021-2026) & (K Units)

Table 71. Middle East & Africa Magnetic Linear Encoder Revenue Market Share by Country (2021-2026)

Table 72. Middle East & Africa Magnetic Linear Encoder Sales by Type (2021-2026) & (K Units)

Table 73. Middle East & Africa Magnetic Linear Encoder Sales by Application (2021-2026) & (K Units)

Table 74. Key Market Drivers & Growth Opportunities of Magnetic Linear Encoder

Table 75. Key Market Challenges & Risks of Magnetic Linear Encoder

Table 76. Key Industry Trends of Magnetic Linear Encoder

Table 77. Magnetic Linear Encoder Raw Material

Table 78. Key Suppliers of Raw Materials

Table 79. Magnetic Linear Encoder Distributors List

Table 80. Magnetic Linear Encoder Customer List

Table 81. Global Magnetic Linear Encoder Sales Forecast by Region (2027-2032) & (K Units)

Table 82. Global Magnetic Linear Encoder Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 83. Americas Magnetic Linear Encoder Sales Forecast by Country (2027-2032) & (K Units)

Table 84. Americas Magnetic Linear Encoder Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. APAC Magnetic Linear Encoder Sales Forecast by Region (2027-2032) & (K Units)

Table 86. APAC Magnetic Linear Encoder Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 87. Europe Magnetic Linear Encoder Sales Forecast by Country (2027-2032) & (K Units)

Table 88. Europe Magnetic Linear Encoder Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 89. Middle East & Africa Magnetic Linear Encoder Sales Forecast by Country (2027-2032) & (K Units)

Table 90. Middle East & Africa Magnetic Linear Encoder Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 91. Global Magnetic Linear Encoder Sales Forecast by Type (2027-2032) & (K Units)

Table 92. Global Magnetic Linear Encoder Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 93. Global Magnetic Linear Encoder Sales Forecast by Application (2027-2032) & (K Units)

Table 94. Global Magnetic Linear Encoder Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 95. Balluff Basic Information, Magnetic Linear Encoder Manufacturing Base, Sales Area and Its Competitors
Table 96. Balluff Magnetic Linear Encoder Product Portfolios and Specifications
Table 97. Balluff Magnetic Linear Encoder Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 98. Balluff Main Business
Table 99. Balluff Latest Developments
Table 100. Baumer Group Basic Information, Magnetic Linear Encoder Manufacturing Base, Sales Area and Its Competitors
Table 101. Baumer Group Magnetic Linear Encoder Product Portfolios and Specifications
Table 102. Baumer Group Magnetic Linear Encoder Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 103. Baumer Group Main Business
Table 104. Baumer Group Latest Developments
Table 105. BEI Sensors Basic Information, Magnetic Linear Encoder Manufacturing Base, Sales Area and Its Competitors
Table 106. BEI Sensors Magnetic Linear Encoder Product Portfolios and Specifications
Table 107. BEI Sensors Magnetic Linear Encoder Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 108. BEI Sensors Main Business
Table 109. BEI Sensors Latest Developments
Table 110. Electronica Mechatronic Systems Basic Information, Magnetic Linear Encoder Manufacturing Base, Sales Area and Its Competitors
Table 111. Electronica Mechatronic Systems Magnetic Linear Encoder Product Portfolios and Specifications
Table 112. Electronica Mechatronic Systems Magnetic Linear Encoder Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 113. Electronica Mechatronic Systems Main Business
Table 114. Electronica Mechatronic Systems Latest Developments
Table 115. ELGO Electronic Basic Information, Magnetic Linear Encoder Manufacturing Base, Sales Area and Its Competitors
Table 116. ELGO Electronic Magnetic Linear Encoder Product Portfolios and Specifications
Table 117. ELGO Electronic Magnetic Linear Encoder Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)
Table 118. ELGO Electronic Main Business

Table 119. ELGO Electronic Latest Developments

Table 120. GIVI MISURE Basic Information, Magnetic Linear Encoder Manufacturing Base, Sales Area and Its Competitors

Table 121. GIVI MISURE Magnetic Linear Encoder Product Portfolios and Specifications

Table 122. GIVI MISURE Magnetic Linear Encoder Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 123. GIVI MISURE Main Business

Table 124. GIVI MISURE Latest Developments

Table 125. Hohner Automation Basic Information, Magnetic Linear Encoder Manufacturing Base, Sales Area and Its Competitors

Table 126. Hohner Automation Magnetic Linear Encoder Product Portfolios and Specifications

Table 127. Hohner Automation Magnetic Linear Encoder Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 128. Hohner Automation Main Business

Table 129. Hohner Automation Latest Developments

Table 130. K?bler Group Basic Information, Magnetic Linear Encoder Manufacturing Base, Sales Area and Its Competitors

Table 131. K?bler Group Magnetic Linear Encoder Product Portfolios and Specifications

Table 132. K?bler Group Magnetic Linear Encoder Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 133. K?bler Group Main Business

Table 134. K?bler Group Latest Developments

Table 135. Lika Electronic Basic Information, Magnetic Linear Encoder Manufacturing Base, Sales Area and Its Competitors

Table 136. Lika Electronic Magnetic Linear Encoder Product Portfolios and Specifications

Table 137. Lika Electronic Magnetic Linear Encoder Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 138. Lika Electronic Main Business

Table 139. Lika Electronic Latest Developments

Table 140. MACOME Basic Information, Magnetic Linear Encoder Manufacturing Base, Sales Area and Its Competitors

Table 141. MACOME Magnetic Linear Encoder Product Portfolios and Specifications

Table 142. MACOME Magnetic Linear Encoder Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 143. MACOME Main Business

Table 144. MACOME Latest Developments

Table 145. RLS Basic Information, Magnetic Linear Encoder Manufacturing Base, Sales Area and Its Competitors

Table 146. RLS Magnetic Linear Encoder Product Portfolios and Specifications

Table 147. RLS Magnetic Linear Encoder Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 148. RLS Main Business

Table 149. RLS Latest Developments

Table 150. SIKO Basic Information, Magnetic Linear Encoder Manufacturing Base, Sales Area and Its Competitors

Table 151. SIKO Magnetic Linear Encoder Product Portfolios and Specifications

Table 152. SIKO Magnetic Linear Encoder Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 153. SIKO Main Business

Table 154. SIKO Latest Developments

Table 155. Sensata Technologies Basic Information, Magnetic Linear Encoder Manufacturing Base, Sales Area and Its Competitors

Table 156. Sensata Technologies Magnetic Linear Encoder Product Portfolios and Specifications

Table 157. Sensata Technologies Magnetic Linear Encoder Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 158. Sensata Technologies Main Business

Table 159. Sensata Technologies Latest Developments

Table 160. Hopo Technologies Basic Information, Magnetic Linear Encoder Manufacturing Base, Sales Area and Its Competitors

Table 161. Hopo Technologies Magnetic Linear Encoder Product Portfolios and Specifications

Table 162. Hopo Technologies Magnetic Linear Encoder Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 163. Hopo Technologies Main Business

Table 164. Hopo Technologies Latest Developments

Table 165. ATEK Sensor Technologies Basic Information, Magnetic Linear Encoder Manufacturing Base, Sales Area and Its Competitors

Table 166. ATEK Sensor Technologies Magnetic Linear Encoder Product Portfolios and Specifications

Table 167. ATEK Sensor Technologies Magnetic Linear Encoder Sales (K Units), Revenue (\$ Million), Price (USD/Unit) and Gross Margin (2021-2026)

Table 168. ATEK Sensor Technologies Main Business

Table 169. ATEK Sensor Technologies Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Magnetic Linear Encoder
- Figure 2. Magnetic Linear Encoder Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Magnetic Linear Encoder Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Magnetic Linear Encoder Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Magnetic Linear Encoder Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Magnetic Linear Encoder Sales Market Share by Country/Region (2025)
- Figure 10. Magnetic Linear Encoder Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Voltage Output Magnetic Linear Encoder
- Figure 12. Product Picture of Open Collector Output Magnetic Linear Encoder
- Figure 13. Product Picture of Push-pull Complementary Output Magnetic Linear Encoder
- Figure 14. Global Magnetic Linear Encoder Sales Market Share by Type in 2026
- Figure 15. Global Magnetic Linear Encoder Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Incremental Magnetic Linear Encoder
- Figure 17. Product Picture of Absolute Magnetic Linear Encoder
- Figure 18. Global Magnetic Linear Encoder Sales Market Share by Product Type in 2026
- Figure 19. Global Magnetic Linear Encoder Revenue Market Share by Product Type (2021-2026)
- Figure 20. Product Picture of Open Magnetic Linear Encoder
- Figure 21. Product Picture of Enclosed Magnetic Linear Encoder
- Figure 22. Global Magnetic Linear Encoder Sales Market Share by Enclosure Structure in 2026
- Figure 23. Global Magnetic Linear Encoder Revenue Market Share by Enclosure Structure (2021-2026)
- Figure 24. Product Picture of Short Stroke Type
- Figure 25. Product Picture of Medium Stroke Type
- Figure 26. Product Picture of Long Stroke Type
- Figure 27. Global Magnetic Linear Encoder Sales Market Share by Measuring Length

Class in 2026

Figure 28. Global Magnetic Linear Encoder Revenue Market Share by Measuring Length Class (2021-2026)

Figure 29. Magnetic Linear Encoder Consumed in CMM

Figure 30. Global Magnetic Linear Encoder Market: CMM (2021-2026) & (K Units)

Figure 31. Magnetic Linear Encoder Consumed in Laser Scanners

Figure 32. Global Magnetic Linear Encoder Market: Laser Scanners (2021-2026) & (K Units)

Figure 33. Magnetic Linear Encoder Consumed in Callipers

Figure 34. Global Magnetic Linear Encoder Market: Callipers (2021-2026) & (K Units)

Figure 35. Magnetic Linear Encoder Consumed in Others

Figure 36. Global Magnetic Linear Encoder Market: Others (2021-2026) & (K Units)

Figure 37. Global Magnetic Linear Encoder Sale Market Share by Application (2025)

Figure 38. Global Magnetic Linear Encoder Revenue Market Share by Application in 2025

Figure 39. Magnetic Linear Encoder Sales by Company in 2025 (K Units)

Figure 40. Global Magnetic Linear Encoder Sales Market Share by Company in 2025

Figure 41. Magnetic Linear Encoder Revenue by Company in 2025 (\$ millions)

Figure 42. Global Magnetic Linear Encoder Revenue Market Share by Company in 2025

Figure 43. Global Magnetic Linear Encoder Sales Market Share by Geographic Region (2021-2026)

Figure 44. Global Magnetic Linear Encoder Revenue Market Share by Geographic Region in 2025

Figure 45. Americas Magnetic Linear Encoder Sales 2021-2026 (K Units)

Figure 46. Americas Magnetic Linear Encoder Revenue 2021-2026 (\$ millions)

Figure 47. APAC Magnetic Linear Encoder Sales 2021-2026 (K Units)

Figure 48. APAC Magnetic Linear Encoder Revenue 2021-2026 (\$ millions)

Figure 49. Europe Magnetic Linear Encoder Sales 2021-2026 (K Units)

Figure 50. Europe Magnetic Linear Encoder Revenue 2021-2026 (\$ millions)

Figure 51. Middle East & Africa Magnetic Linear Encoder Sales 2021-2026 (K Units)

Figure 52. Middle East & Africa Magnetic Linear Encoder Revenue 2021-2026 (\$ millions)

Figure 53. Americas Magnetic Linear Encoder Sales Market Share by Country in 2025

Figure 54. Americas Magnetic Linear Encoder Revenue Market Share by Country (2021-2026)

Figure 55. Americas Magnetic Linear Encoder Sales Market Share by Type (2021-2026)

Figure 56. Americas Magnetic Linear Encoder Sales Market Share by Application (2021-2026)

Figure 57. United States Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 58. Canada Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 59. Mexico Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 60. Brazil Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 61. APAC Magnetic Linear Encoder Sales Market Share by Region in 2025

Figure 62. APAC Magnetic Linear Encoder Revenue Market Share by Region (2021-2026)

Figure 63. APAC Magnetic Linear Encoder Sales Market Share by Type (2021-2026)

Figure 64. APAC Magnetic Linear Encoder Sales Market Share by Application (2021-2026)

Figure 65. China Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 66. Japan Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 67. South Korea Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 68. Southeast Asia Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 69. India Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 70. Australia Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 71. China Taiwan Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 72. Europe Magnetic Linear Encoder Sales Market Share by Country in 2025

Figure 73. Europe Magnetic Linear Encoder Revenue Market Share by Country (2021-2026)

Figure 74. Europe Magnetic Linear Encoder Sales Market Share by Type (2021-2026)

Figure 75. Europe Magnetic Linear Encoder Sales Market Share by Application (2021-2026)

Figure 76. Germany Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 77. France Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 78. UK Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 79. Italy Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 80. Russia Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 81. Middle East & Africa Magnetic Linear Encoder Sales Market Share by Country (2021-2026)

Figure 82. Middle East & Africa Magnetic Linear Encoder Sales Market Share by Type (2021-2026)

Figure 83. Middle East & Africa Magnetic Linear Encoder Sales Market Share by Application (2021-2026)

Figure 84. Egypt Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 85. South Africa Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 86. Israel Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 87. Turkey Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 88. GCC Countries Magnetic Linear Encoder Revenue Growth 2021-2026 (\$ millions)

Figure 89. Manufacturing Cost Structure Analysis of Magnetic Linear Encoder in 2026

Figure 90. Manufacturing Process Analysis of Magnetic Linear Encoder

Figure 91. Industry Chain Structure of Magnetic Linear Encoder

Figure 92. Channels of Distribution

Figure 93. Global Magnetic Linear Encoder Sales Market Forecast by Region (2027-2032)

Figure 94. Global Magnetic Linear Encoder Revenue Market Share Forecast by Region (2027-2032)

Figure 95. Global Magnetic Linear Encoder Sales Market Share Forecast by Type (2027-2032)

Figure 96. Global Magnetic Linear Encoder Revenue Market Share Forecast by Type (2027-2032)

Figure 97. Global Magnetic Linear Encoder Sales Market Share Forecast by Application (2027-2032)

Figure 98. Global Magnetic Linear Encoder Revenue Market Share Forecast by Application (2027-2032)

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