

Global Magnetic Rope Tester Market Growth 2026-2032

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Abstracts

The global Magnetic Rope Tester market size is predicted to grow from US\$ 55.47 million in 2025 to US\$ 97 million in 2032; it is expected to grow at a CAGR of 8.6% from 2026 to 2032.

A magnetic rope tester is a specialized device used to inspect and evaluate the condition and integrity of ropes, particularly those used in critical applications such as lifting, mooring, or safety harness systems. This tester utilizes magnetic technology to detect any internal or external defects, damage, or wear within the rope fibers. By moving the tester along the length of the rope, it generates a magnetic field that interacts with the fibers, allowing the detection of anomalies such as breaks, cracks, or excessive wear. Magnetic rope testers are designed to provide accurate and reliable results, helping to ensure the safety and reliability of ropes across various industries. They are an invaluable tool for maintaining rope integrity and performance, preventing potential accidents and failures. The upstream of the magnetic rope tester industry chain includes suppliers of high-sensitivity Hall sensors, permanent magnets, signal conditioning chips, data acquisition modules, and embedded processors; the midstream consists of professional testing instrument manufacturers whose products are used in elevator maintenance, mine safety, and rail transportation; and the downstream primarily serves special equipment inspection agencies, elevator maintenance companies, mining groups, and third-party testing service providers. This equipment is a high-end non-destructive testing device with high technological barriers and gross profit margins generally ranging from 20% to 40%. Companies with algorithm optimization and AI defect recognition capabilities are more competitive in the market. In 2024, the global production of magnetic rope testers reached 9,168 units, with an average selling price of US\$5,669 per unit and a total production capacity of 12,000 units.

Against the backdrop of increasingly stringent global safety regulations and the approaching replacement cycle of aging wire ropes, magnetic rope testers are steadily developing. The industry exhibits three main characteristics: deepening domestic substitution, intelligent upgrading, and service model transformation. Future trends focus on: first, multi-parameter fusion testing (combining tension and vibration data to improve diagnostic accuracy); second, portability and wireless connectivity, integrating 5G/Bluetooth transmission and mobile apps for rapid on-site decision-making; and third, shifting from 'selling equipment' to 'testing services + data platform,' building an ecosystem for the full lifecycle safety management of wire ropes. With the strengthened enforcement of the Special Equipment Safety Law and the advancement of smart mine construction, magnetic rope testers are upgrading from auxiliary tools to industrial safety infrastructure.

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

This Insight Report provides a comprehensive analysis of the global Magnetic Rope Tester 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 Rope Tester portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Magnetic Rope Tester market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Magnetic Rope Tester 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 Rope Tester.

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

Segmentation by Type:

R (round/closed) Series

U (bottom open) Series

Segmentation by Technology:

Magnetic Flux Leakage (MFL) Rope Tester

Electromagnetic Induction Rope Tester

Permanent Magnet Rope Tester

Segmentation by Rope Diameter:

Small Diameter Type (120 mm)

Segmentation by Application:

Mining

Ports and Lifting Machinery

Elevator Industry

Bridges and Building Structures

Other

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.

AMC Instruments

TCK.W

TST Flaw Detection Technology

INTRON PLUS

ROPESYS GmbH

NDT Technology LLC

Zawada NDT

Wuhan Yuyuan Intelligent Testing Co., Ltd.

Shanxi Kewei Magnetic Induction Technology Co., Ltd.

Heath & Sherwood

Shanghai Hongtan Nondestructive Testing Equipment Co., Ltd.

Zephyr International LLC

URNDT CO., LTD.

LRM-NDE

Key Questions Addressed in this Report

What is the 10-year outlook for the global Magnetic Rope Tester market?

What factors are driving Magnetic Rope Tester market growth, globally and by region?

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

How do Magnetic Rope Tester market opportunities vary by end market size?

How does Magnetic Rope Tester 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 Rope Tester Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Magnetic Rope Tester by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Magnetic Rope Tester by Country/Region, 2021, 2025 & 2032
- 2.2 Magnetic Rope Tester Segment by Type
 - 2.2.1 R (round/closed) Series
 - 2.2.2 U (bottom open) Series
 - 2.2.3 Magnetic Rope Tester Sales by Type
 - 2.2.3.1 Global Magnetic Rope Tester Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Magnetic Rope Tester Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Magnetic Rope Tester Sale Price by Type (2021-2026)
- 2.3 Magnetic Rope Tester Segment by Technology
 - 2.3.1 Magnetic Flux Leakage (MFL) Rope Tester
 - 2.3.2 Electromagnetic Induction Rope Tester
 - 2.3.3 Permanent Magnet Rope Tester
 - 2.3.4 Magnetic Rope Tester Sales by Technology
 - 2.3.4.1 Global Magnetic Rope Tester Sales Market Share by Technology (2021-2026)
 - 2.3.4.2 Global Magnetic Rope Tester Revenue and Market Share by Technology (2021-2026)
 - 2.3.4.3 Global Magnetic Rope Tester Sale Price by Technology (2021-2026)

2.4 Magnetic Rope Tester Segment by Rope Diameter

2.4.1 Small Diameter Type (120 mm)

2.4.5 Magnetic Rope Tester Sales by Rope Diameter

2.4.5.1 Global Magnetic Rope Tester Sales Market Share by Rope Diameter (2021-2026)

2.4.5.2 Global Magnetic Rope Tester Revenue and Market Share by Rope Diameter (2021-2026)

2.4.5.3 Global Magnetic Rope Tester Sale Price by Rope Diameter (2021-2026)

2.5 Magnetic Rope Tester Segment by Application

2.5.1 Mining

2.5.2 Ports and Lifting Machinery

2.5.3 Elevator Industry

2.5.4 Bridges and Building Structures

2.5.5 Other

2.5.6 Magnetic Rope Tester Sales by Application

2.5.6.1 Global Magnetic Rope Tester Sale Market Share by Application (2021-2026)

2.5.6.2 Global Magnetic Rope Tester Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global Magnetic Rope Tester Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Magnetic Rope Tester Breakdown Data by Company

3.1.1 Global Magnetic Rope Tester Annual Sales by Company (2021-2026)

3.1.2 Global Magnetic Rope Tester Sales Market Share by Company (2021-2026)

3.2 Global Magnetic Rope Tester Annual Revenue by Company (2021-2026)

3.2.1 Global Magnetic Rope Tester Revenue by Company (2021-2026)

3.2.2 Global Magnetic Rope Tester Revenue Market Share by Company (2021-2026)

3.3 Global Magnetic Rope Tester Sale Price by Company

3.4 Key Manufacturers Magnetic Rope Tester Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Magnetic Rope Tester Product Location Distribution

3.4.2 Players Magnetic Rope Tester 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 ROPE TESTER BY GEOGRAPHIC REGION

4.1 World Historic Magnetic Rope Tester Market Size by Geographic Region (2021-2026)

4.1.1 Global Magnetic Rope Tester Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Magnetic Rope Tester Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Magnetic Rope Tester Market Size by Country/Region (2021-2026)

4.2.1 Global Magnetic Rope Tester Annual Sales by Country/Region (2021-2026)

4.2.2 Global Magnetic Rope Tester Annual Revenue by Country/Region (2021-2026)

4.3 Americas Magnetic Rope Tester Sales Growth

4.4 APAC Magnetic Rope Tester Sales Growth

4.5 Europe Magnetic Rope Tester Sales Growth

4.6 Middle East & Africa Magnetic Rope Tester Sales Growth

5 AMERICAS

5.1 Americas Magnetic Rope Tester Sales by Country

5.1.1 Americas Magnetic Rope Tester Sales by Country (2021-2026)

5.1.2 Americas Magnetic Rope Tester Revenue by Country (2021-2026)

5.2 Americas Magnetic Rope Tester Sales by Type (2021-2026)

5.3 Americas Magnetic Rope Tester Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Magnetic Rope Tester Sales by Region

6.1.1 APAC Magnetic Rope Tester Sales by Region (2021-2026)

6.1.2 APAC Magnetic Rope Tester Revenue by Region (2021-2026)

6.2 APAC Magnetic Rope Tester Sales by Type (2021-2026)

6.3 APAC Magnetic Rope Tester 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 Rope Tester by Country
 - 7.1.1 Europe Magnetic Rope Tester Sales by Country (2021-2026)
 - 7.1.2 Europe Magnetic Rope Tester Revenue by Country (2021-2026)
- 7.2 Europe Magnetic Rope Tester Sales by Type (2021-2026)
- 7.3 Europe Magnetic Rope Tester 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 Rope Tester by Country
 - 8.1.1 Middle East & Africa Magnetic Rope Tester Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Magnetic Rope Tester Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Magnetic Rope Tester Sales by Type (2021-2026)
- 8.3 Middle East & Africa Magnetic Rope Tester 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 Rope Tester

10.3 Manufacturing Process Analysis of Magnetic Rope Tester

10.4 Industry Chain Structure of Magnetic Rope Tester

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Magnetic Rope Tester Distributors

11.3 Magnetic Rope Tester Customer

12 WORLD FORECAST REVIEW FOR MAGNETIC ROPE TESTER BY GEOGRAPHIC REGION

12.1 Global Magnetic Rope Tester Market Size Forecast by Region

12.1.1 Global Magnetic Rope Tester Forecast by Region (2027-2032)

12.1.2 Global Magnetic Rope Tester 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 Rope Tester Forecast by Type (2027-2032)

12.7 Global Magnetic Rope Tester Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 AMC Instruments

13.1.1 AMC Instruments Company Information

13.1.2 AMC Instruments Magnetic Rope Tester Product Portfolios and Specifications

13.1.3 AMC Instruments Magnetic Rope Tester Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 AMC Instruments Main Business Overview

13.1.5 AMC Instruments Latest Developments

13.2 TCK.W

13.2.1 TCK.W Company Information

13.2.2 TCK.W Magnetic Rope Tester Product Portfolios and Specifications

13.2.3 TCK.W Magnetic Rope Tester Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.2.4 TCK.W Main Business Overview
- 13.2.5 TCK.W Latest Developments
- 13.3 TST Flaw Detection Technology
 - 13.3.1 TST Flaw Detection Technology Company Information
 - 13.3.2 TST Flaw Detection Technology Magnetic Rope Tester Product Portfolios and Specifications
 - 13.3.3 TST Flaw Detection Technology Magnetic Rope Tester Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 TST Flaw Detection Technology Main Business Overview
 - 13.3.5 TST Flaw Detection Technology Latest Developments
- 13.4 INTRON PLUS
 - 13.4.1 INTRON PLUS Company Information
 - 13.4.2 INTRON PLUS Magnetic Rope Tester Product Portfolios and Specifications
 - 13.4.3 INTRON PLUS Magnetic Rope Tester Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 INTRON PLUS Main Business Overview
 - 13.4.5 INTRON PLUS Latest Developments
- 13.5 ROPESYS GmbH
 - 13.5.1 ROPESYS GmbH Company Information
 - 13.5.2 ROPESYS GmbH Magnetic Rope Tester Product Portfolios and Specifications
 - 13.5.3 ROPESYS GmbH Magnetic Rope Tester Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 ROPESYS GmbH Main Business Overview
 - 13.5.5 ROPESYS GmbH Latest Developments
- 13.6 NDT Technology LLC
 - 13.6.1 NDT Technology LLC Company Information
 - 13.6.2 NDT Technology LLC Magnetic Rope Tester Product Portfolios and Specifications
 - 13.6.3 NDT Technology LLC Magnetic Rope Tester Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 NDT Technology LLC Main Business Overview
 - 13.6.5 NDT Technology LLC Latest Developments
- 13.7 Zawada NDT
 - 13.7.1 Zawada NDT Company Information
 - 13.7.2 Zawada NDT Magnetic Rope Tester Product Portfolios and Specifications
 - 13.7.3 Zawada NDT Magnetic Rope Tester Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Zawada NDT Main Business Overview
 - 13.7.5 Zawada NDT Latest Developments

13.8 Wuhan Yuyuan Intelligent Testing Co., Ltd.

13.8.1 Wuhan Yuyuan Intelligent Testing Co., Ltd. Company Information

13.8.2 Wuhan Yuyuan Intelligent Testing Co., Ltd. Magnetic Rope Tester Product Portfolios and Specifications

13.8.3 Wuhan Yuyuan Intelligent Testing Co., Ltd. Magnetic Rope Tester Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Wuhan Yuyuan Intelligent Testing Co., Ltd. Main Business Overview

13.8.5 Wuhan Yuyuan Intelligent Testing Co., Ltd. Latest Developments

13.9 Shanxi Kewei Magnetic Induction Technology Co., Ltd.

13.9.1 Shanxi Kewei Magnetic Induction Technology Co., Ltd. Company Information

13.9.2 Shanxi Kewei Magnetic Induction Technology Co., Ltd. Magnetic Rope Tester Product Portfolios and Specifications

13.9.3 Shanxi Kewei Magnetic Induction Technology Co., Ltd. Magnetic Rope Tester Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Shanxi Kewei Magnetic Induction Technology Co., Ltd. Main Business Overview

13.9.5 Shanxi Kewei Magnetic Induction Technology Co., Ltd. Latest Developments

13.10 Heath & Sherwood

13.10.1 Heath & Sherwood Company Information

13.10.2 Heath & Sherwood Magnetic Rope Tester Product Portfolios and Specifications

13.10.3 Heath & Sherwood Magnetic Rope Tester Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Heath & Sherwood Main Business Overview

13.10.5 Heath & Sherwood Latest Developments

13.11 Shanghai Hongtan Nondestructive Testing Equipment Co., Ltd.

13.11.1 Shanghai Hongtan Nondestructive Testing Equipment Co., Ltd. Company Information

13.11.2 Shanghai Hongtan Nondestructive Testing Equipment Co., Ltd. Magnetic Rope Tester Product Portfolios and Specifications

13.11.3 Shanghai Hongtan Nondestructive Testing Equipment Co., Ltd. Magnetic Rope Tester Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Shanghai Hongtan Nondestructive Testing Equipment Co., Ltd. Main Business Overview

13.11.5 Shanghai Hongtan Nondestructive Testing Equipment Co., Ltd. Latest Developments

13.12 Zephyr International LLC

13.12.1 Zephyr International LLC Company Information

13.12.2 Zephyr International LLC Magnetic Rope Tester Product Portfolios and

Specifications

13.12.3 Zephyr International LLC Magnetic Rope Tester Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Zephyr International LLC Main Business Overview

13.12.5 Zephyr International LLC Latest Developments

13.13 URNDT CO., LTD.

13.13.1 URNDT CO., LTD. Company Information

13.13.2 URNDT CO., LTD. Magnetic Rope Tester Product Portfolios and

Specifications

13.13.3 URNDT CO., LTD. Magnetic Rope Tester Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 URNDT CO., LTD. Main Business Overview

13.13.5 URNDT CO., LTD. Latest Developments

13.14 LRM-NDE

13.14.1 LRM-NDE Company Information

13.14.2 LRM-NDE Magnetic Rope Tester Product Portfolios and Specifications

13.14.3 LRM-NDE Magnetic Rope Tester Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 LRM-NDE Main Business Overview

13.14.5 LRM-NDE Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

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

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

Table 3. Major Players of R (round/closed) Series

Table 4. Major Players of U (bottom open) Series

Table 5. Global Magnetic Rope Tester Sales by Type (2021-2026) & (Units)

Table 6. Global Magnetic Rope Tester Sales Market Share by Type (2021-2026)

Table 7. Global Magnetic Rope Tester Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Magnetic Rope Tester Revenue Market Share by Type (2021-2026)

Table 9. Global Magnetic Rope Tester Sale Price by Type (2021-2026) & (US\$/Unit)

Table 10. Major Players of Magnetic Flux Leakage (MFL) Rope Tester

Table 11. Major Players of Electromagnetic Induction Rope Tester

Table 12. Major Players of Permanent Magnet Rope Tester

Table 13. Global Magnetic Rope Tester Sales by Technology (2021-2026) & (Units)

Table 14. Global Magnetic Rope Tester Sales Market Share by Technology (2021-2026)

Table 15. Global Magnetic Rope Tester Revenue by Technology (2021-2026) & (\$ million)

Table 16. Global Magnetic Rope Tester Revenue Market Share by Technology (2021-2026)

Table 17. Global Magnetic Rope Tester Sale Price by Technology (2021-2026) & (US\$/Unit)

Table 18. Major Players of Small Diameter Type (120 mm)

Table 22. Global Magnetic Rope Tester Sales by Rope Diameter (2021-2026) & (Units)

Table 23. Global Magnetic Rope Tester Sales Market Share by Rope Diameter (2021-2026)

Table 24. Global Magnetic Rope Tester Revenue by Rope Diameter (2021-2026) & (\$ million)

Table 25. Global Magnetic Rope Tester Revenue Market Share by Rope Diameter (2021-2026)

Table 26. Global Magnetic Rope Tester Sale Price by Rope Diameter (2021-2026) & (US\$/Unit)

Table 27. Global Magnetic Rope Tester Sale by Application (2021-2026) & (Units)

Table 28. Global Magnetic Rope Tester Sale Market Share by Application (2021-2026)

Table 29. Global Magnetic Rope Tester Revenue by Application (2021-2026) & (\$ million)

Table 30. Global Magnetic Rope Tester Revenue Market Share by Application (2021-2026)

Table 31. Global Magnetic Rope Tester Sale Price by Application (2021-2026) & (US\$/Unit)

Table 32. Global Magnetic Rope Tester Sales by Company (2021-2026) & (Units)

Table 33. Global Magnetic Rope Tester Sales Market Share by Company (2021-2026)

Table 34. Global Magnetic Rope Tester Revenue by Company (2021-2026) & (\$ millions)

Table 35. Global Magnetic Rope Tester Revenue Market Share by Company (2021-2026)

Table 36. Global Magnetic Rope Tester Sale Price by Company (2021-2026) & (US\$/Unit)

Table 37. Key Manufacturers Magnetic Rope Tester Producing Area Distribution and Sales Area

Table 38. Players Magnetic Rope Tester Products Offered

Table 39. Magnetic Rope Tester Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 40. New Products and Potential Entrants

Table 41. Market M&A Activity & Strategy

Table 42. Global Magnetic Rope Tester Sales by Geographic Region (2021-2026) & (Units)

Table 43. Global Magnetic Rope Tester Sales Market Share Geographic Region (2021-2026)

Table 44. Global Magnetic Rope Tester Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 45. Global Magnetic Rope Tester Revenue Market Share by Geographic Region (2021-2026)

Table 46. Global Magnetic Rope Tester Sales by Country/Region (2021-2026) & (Units)

Table 47. Global Magnetic Rope Tester Sales Market Share by Country/Region (2021-2026)

Table 48. Global Magnetic Rope Tester Revenue by Country/Region (2021-2026) & (\$ millions)

Table 49. Global Magnetic Rope Tester Revenue Market Share by Country/Region (2021-2026)

Table 50. Americas Magnetic Rope Tester Sales by Country (2021-2026) & (Units)

Table 51. Americas Magnetic Rope Tester Sales Market Share by Country (2021-2026)

Table 52. Americas Magnetic Rope Tester Revenue by Country (2021-2026) & (\$

millions)

Table 53. Americas Magnetic Rope Tester Sales by Type (2021-2026) & (Units)

Table 54. Americas Magnetic Rope Tester Sales by Application (2021-2026) & (Units)

Table 55. APAC Magnetic Rope Tester Sales by Region (2021-2026) & (Units)

Table 56. APAC Magnetic Rope Tester Sales Market Share by Region (2021-2026)

Table 57. APAC Magnetic Rope Tester Revenue by Region (2021-2026) & (\$ millions)

Table 58. APAC Magnetic Rope Tester Sales by Type (2021-2026) & (Units)

Table 59. APAC Magnetic Rope Tester Sales by Application (2021-2026) & (Units)

Table 60. Europe Magnetic Rope Tester Sales by Country (2021-2026) & (Units)

Table 61. Europe Magnetic Rope Tester Revenue by Country (2021-2026) & (\$ millions)

Table 62. Europe Magnetic Rope Tester Sales by Type (2021-2026) & (Units)

Table 63. Europe Magnetic Rope Tester Sales by Application (2021-2026) & (Units)

Table 64. Middle East & Africa Magnetic Rope Tester Sales by Country (2021-2026) & (Units)

Table 65. Middle East & Africa Magnetic Rope Tester Revenue Market Share by Country (2021-2026)

Table 66. Middle East & Africa Magnetic Rope Tester Sales by Type (2021-2026) & (Units)

Table 67. Middle East & Africa Magnetic Rope Tester Sales by Application (2021-2026) & (Units)

Table 68. Key Market Drivers & Growth Opportunities of Magnetic Rope Tester

Table 69. Key Market Challenges & Risks of Magnetic Rope Tester

Table 70. Key Industry Trends of Magnetic Rope Tester

Table 71. Magnetic Rope Tester Raw Material

Table 72. Key Suppliers of Raw Materials

Table 73. Magnetic Rope Tester Distributors List

Table 74. Magnetic Rope Tester Customer List

Table 75. Global Magnetic Rope Tester Sales Forecast by Region (2027-2032) & (Units)

Table 76. Global Magnetic Rope Tester Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 77. Americas Magnetic Rope Tester Sales Forecast by Country (2027-2032) & (Units)

Table 78. Americas Magnetic Rope Tester Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 79. APAC Magnetic Rope Tester Sales Forecast by Region (2027-2032) & (Units)

Table 80. APAC Magnetic Rope Tester Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 81. Europe Magnetic Rope Tester Sales Forecast by Country (2027-2032) &

(Units)

Table 82. Europe Magnetic Rope Tester Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Middle East & Africa Magnetic Rope Tester Sales Forecast by Country (2027-2032) & (Units)

Table 84. Middle East & Africa Magnetic Rope Tester Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Global Magnetic Rope Tester Sales Forecast by Type (2027-2032) & (Units)

Table 86. Global Magnetic Rope Tester Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 87. Global Magnetic Rope Tester Sales Forecast by Application (2027-2032) & (Units)

Table 88. Global Magnetic Rope Tester Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 89. AMC Instruments Basic Information, Magnetic Rope Tester Manufacturing Base, Sales Area and Its Competitors

Table 90. AMC Instruments Magnetic Rope Tester Product Portfolios and Specifications

Table 91. AMC Instruments Magnetic Rope Tester Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 92. AMC Instruments Main Business

Table 93. AMC Instruments Latest Developments

Table 94. TCK.W Basic Information, Magnetic Rope Tester Manufacturing Base, Sales Area and Its Competitors

Table 95. TCK.W Magnetic Rope Tester Product Portfolios and Specifications

Table 96. TCK.W Magnetic Rope Tester Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 97. TCK.W Main Business

Table 98. TCK.W Latest Developments

Table 99. TST Flaw Detection Technology Basic Information, Magnetic Rope Tester Manufacturing Base, Sales Area and Its Competitors

Table 100. TST Flaw Detection Technology Magnetic Rope Tester Product Portfolios and Specifications

Table 101. TST Flaw Detection Technology Magnetic Rope Tester Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. TST Flaw Detection Technology Main Business

Table 103. TST Flaw Detection Technology Latest Developments

Table 104. INTRON PLUS Basic Information, Magnetic Rope Tester Manufacturing Base, Sales Area and Its Competitors

Table 105. INTRON PLUS Magnetic Rope Tester Product Portfolios and Specifications

Table 106. INTRON PLUS Magnetic Rope Tester Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. INTRON PLUS Main Business

Table 108. INTRON PLUS Latest Developments

Table 109. ROPESYS GmbH Basic Information, Magnetic Rope Tester Manufacturing Base, Sales Area and Its Competitors

Table 110. ROPESYS GmbH Magnetic Rope Tester Product Portfolios and Specifications

Table 111. ROPESYS GmbH Magnetic Rope Tester Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. ROPESYS GmbH Main Business

Table 113. ROPESYS GmbH Latest Developments

Table 114. NDT Technology LLC Basic Information, Magnetic Rope Tester Manufacturing Base, Sales Area and Its Competitors

Table 115. NDT Technology LLC Magnetic Rope Tester Product Portfolios and Specifications

Table 116. NDT Technology LLC Magnetic Rope Tester Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. NDT Technology LLC Main Business

Table 118. NDT Technology LLC Latest Developments

Table 119. Zawada NDT Basic Information, Magnetic Rope Tester Manufacturing Base, Sales Area and Its Competitors

Table 120. Zawada NDT Magnetic Rope Tester Product Portfolios and Specifications

Table 121. Zawada NDT Magnetic Rope Tester Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. Zawada NDT Main Business

Table 123. Zawada NDT Latest Developments

Table 124. Wuhan Yuyuan Intelligent Testing Co., Ltd. Basic Information, Magnetic Rope Tester Manufacturing Base, Sales Area and Its Competitors

Table 125. Wuhan Yuyuan Intelligent Testing Co., Ltd. Magnetic Rope Tester Product Portfolios and Specifications

Table 126. Wuhan Yuyuan Intelligent Testing Co., Ltd. Magnetic Rope Tester Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 127. Wuhan Yuyuan Intelligent Testing Co., Ltd. Main Business

Table 128. Wuhan Yuyuan Intelligent Testing Co., Ltd. Latest Developments

Table 129. Shanxi Kewei Magnetic Induction Technology Co., Ltd. Basic Information, Magnetic Rope Tester Manufacturing Base, Sales Area and Its Competitors

Table 130. Shanxi Kewei Magnetic Induction Technology Co., Ltd. Magnetic Rope Tester Product Portfolios and Specifications

Table 131. Shanxi Kewei Magnetic Induction Technology Co., Ltd. Magnetic Rope Tester Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 132. Shanxi Kewei Magnetic Induction Technology Co., Ltd. Main Business

Table 133. Shanxi Kewei Magnetic Induction Technology Co., Ltd. Latest Developments

Table 134. Heath & Sherwood Basic Information, Magnetic Rope Tester Manufacturing Base, Sales Area and Its Competitors

Table 135. Heath & Sherwood Magnetic Rope Tester Product Portfolios and Specifications

Table 136. Heath & Sherwood Magnetic Rope Tester Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 137. Heath & Sherwood Main Business

Table 138. Heath & Sherwood Latest Developments

Table 139. Shanghai Hongtan Nondestructive Testing Equipment Co., Ltd. Basic Information, Magnetic Rope Tester Manufacturing Base, Sales Area and Its Competitors

Table 140. Shanghai Hongtan Nondestructive Testing Equipment Co., Ltd. Magnetic Rope Tester Product Portfolios and Specifications

Table 141. Shanghai Hongtan Nondestructive Testing Equipment Co., Ltd. Magnetic Rope Tester Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 142. Shanghai Hongtan Nondestructive Testing Equipment Co., Ltd. Main Business

Table 143. Shanghai Hongtan Nondestructive Testing Equipment Co., Ltd. Latest Developments

Table 144. Zephyr International LLC Basic Information, Magnetic Rope Tester Manufacturing Base, Sales Area and Its Competitors

Table 145. Zephyr International LLC Magnetic Rope Tester Product Portfolios and Specifications

Table 146. Zephyr International LLC Magnetic Rope Tester Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 147. Zephyr International LLC Main Business

Table 148. Zephyr International LLC Latest Developments

Table 149. URNDT CO., LTD. Basic Information, Magnetic Rope Tester Manufacturing Base, Sales Area and Its Competitors

Table 150. URNDT CO., LTD. Magnetic Rope Tester Product Portfolios and Specifications

Table 151. URNDT CO., LTD. Magnetic Rope Tester Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 152. URNDT CO., LTD. Main Business

Table 153. URNDT CO., LTD. Latest Developments

Table 154. LRM-NDE Basic Information, Magnetic Rope Tester Manufacturing Base, Sales Area and Its Competitors

Table 155. LRM-NDE Magnetic Rope Tester Product Portfolios and Specifications

Table 156. LRM-NDE Magnetic Rope Tester Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 157. LRM-NDE Main Business

Table 158. LRM-NDE Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Magnetic Rope Tester
- Figure 2. Magnetic Rope Tester Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Magnetic Rope Tester Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Magnetic Rope Tester Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Magnetic Rope Tester Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Magnetic Rope Tester Sales Market Share by Country/Region (2025)
- Figure 10. Magnetic Rope Tester Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of R (round/closed) Series
- Figure 12. Product Picture of U (bottom open) Series
- Figure 13. Global Magnetic Rope Tester Sales Market Share by Type in 2026
- Figure 14. Global Magnetic Rope Tester Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Magnetic Flux Leakage (MFL) Rope Tester
- Figure 16. Product Picture of Electromagnetic Induction Rope Tester
- Figure 17. Product Picture of Permanent Magnet Rope Tester
- Figure 18. Global Magnetic Rope Tester Sales Market Share by Technology in 2026
- Figure 19. Global Magnetic Rope Tester Revenue Market Share by Technology (2021-2026)
- Figure 20. Product Picture of Small Diameter Type (120 mm)
- Figure 24. Global Magnetic Rope Tester Sales Market Share by Rope Diameter in 2026
- Figure 25. Global Magnetic Rope Tester Revenue Market Share by Rope Diameter (2021-2026)
- Figure 26. Magnetic Rope Tester Consumed in Mining
- Figure 27. Global Magnetic Rope Tester Market: Mining (2021-2026) & (Units)
- Figure 28. Magnetic Rope Tester Consumed in Ports and Lifting Machinery
- Figure 29. Global Magnetic Rope Tester Market: Ports and Lifting Machinery (2021-2026) & (Units)
- Figure 30. Magnetic Rope Tester Consumed in Elevator Industry
- Figure 31. Global Magnetic Rope Tester Market: Elevator Industry (2021-2026) & (Units)
- Figure 32. Magnetic Rope Tester Consumed in Bridges and Building Structures

Figure 33. Global Magnetic Rope Tester Market: Bridges and Building Structures (2021-2026) & (Units)

Figure 34. Magnetic Rope Tester Consumed in Other

Figure 35. Global Magnetic Rope Tester Market: Other (2021-2026) & (Units)

Figure 36. Global Magnetic Rope Tester Sale Market Share by Application (2025)

Figure 37. Global Magnetic Rope Tester Revenue Market Share by Application in 2026

Figure 38. Magnetic Rope Tester Sales by Company in 2026 (Units)

Figure 39. Global Magnetic Rope Tester Sales Market Share by Company in 2026

Figure 40. Magnetic Rope Tester Revenue by Company in 2026 (\$ millions)

Figure 41. Global Magnetic Rope Tester Revenue Market Share by Company in 2026

Figure 42. Global Magnetic Rope Tester Sales Market Share by Geographic Region (2021-2026)

Figure 43. Global Magnetic Rope Tester Revenue Market Share by Geographic Region in 2026

Figure 44. Americas Magnetic Rope Tester Sales 2021-2026 (Units)

Figure 45. Americas Magnetic Rope Tester Revenue 2021-2026 (\$ millions)

Figure 46. APAC Magnetic Rope Tester Sales 2021-2026 (Units)

Figure 47. APAC Magnetic Rope Tester Revenue 2021-2026 (\$ millions)

Figure 48. Europe Magnetic Rope Tester Sales 2021-2026 (Units)

Figure 49. Europe Magnetic Rope Tester Revenue 2021-2026 (\$ millions)

Figure 50. Middle East & Africa Magnetic Rope Tester Sales 2021-2026 (Units)

Figure 51. Middle East & Africa Magnetic Rope Tester Revenue 2021-2026 (\$ millions)

Figure 52. Americas Magnetic Rope Tester Sales Market Share by Country in 2026

Figure 53. Americas Magnetic Rope Tester Revenue Market Share by Country (2021-2026)

Figure 54. Americas Magnetic Rope Tester Sales Market Share by Type (2021-2026)

Figure 55. Americas Magnetic Rope Tester Sales Market Share by Application (2021-2026)

Figure 56. United States Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 57. Canada Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 58. Mexico Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 59. Brazil Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 60. APAC Magnetic Rope Tester Sales Market Share by Region in 2026

Figure 61. APAC Magnetic Rope Tester Revenue Market Share by Region (2021-2026)

Figure 62. APAC Magnetic Rope Tester Sales Market Share by Type (2021-2026)

Figure 63. APAC Magnetic Rope Tester Sales Market Share by Application (2021-2026)

Figure 64. China Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 65. Japan Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 66. South Korea Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 67. Southeast Asia Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 68. India Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 69. Australia Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 70. China Taiwan Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 71. Europe Magnetic Rope Tester Sales Market Share by Country in 2026

Figure 72. Europe Magnetic Rope Tester Revenue Market Share by Country (2021-2026)

Figure 73. Europe Magnetic Rope Tester Sales Market Share by Type (2021-2026)

Figure 74. Europe Magnetic Rope Tester Sales Market Share by Application (2021-2026)

Figure 75. Germany Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 76. France Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 77. UK Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 78. Italy Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 79. Russia Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 80. Middle East & Africa Magnetic Rope Tester Sales Market Share by Country (2021-2026)

Figure 81. Middle East & Africa Magnetic Rope Tester Sales Market Share by Type (2021-2026)

Figure 82. Middle East & Africa Magnetic Rope Tester Sales Market Share by Application (2021-2026)

Figure 83. Egypt Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 84. South Africa Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 85. Israel Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 86. Turkey Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 87. GCC Countries Magnetic Rope Tester Revenue Growth 2021-2026 (\$ millions)

Figure 88. Manufacturing Cost Structure Analysis of Magnetic Rope Tester in 2026

Figure 89. Manufacturing Process Analysis of Magnetic Rope Tester

Figure 90. Industry Chain Structure of Magnetic Rope Tester

Figure 91. Channels of Distribution

Figure 92. Global Magnetic Rope Tester Sales Market Forecast by Region (2027-2032)

Figure 93. Global Magnetic Rope Tester Revenue Market Share Forecast by Region (2027-2032)

Figure 94. Global Magnetic Rope Tester Sales Market Share Forecast by Type (2027-2032)

Figure 95. Global Magnetic Rope Tester Revenue Market Share Forecast by Type (2027-2032)

Figure 96. Global Magnetic Rope Tester Sales Market Share Forecast by Application (2027-2032)

Figure 97. Global Magnetic Rope Tester Revenue Market Share Forecast by Application (2027-2032)

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