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Global Humanoid Robot Rotary Encoders Market Growth 2026-2032

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Abstracts

The global Humanoid Robot Rotary Encoders market size is predicted to grow from US$ 98 million in 2025 to US$ 169 million in 2032; it is expected to grow at a CAGR of 8.1% from 2026 to 2032.

Humanoid Robot Rotary Encoders are precision position-sensing devices specifically used in humanoid robot rotary joints and joint actuators to measure angular position, rotational displacement, speed, and motion feedback for closed-loop control. Typical products use magnetic, inductive, optical, or capacitive sensing principles and generally consist of a sensing element, rotor or target structure, signal-processing electronics, and electrical or digital interfaces. Depending on the joint architecture, they may be configured as single encoders, dual encoders, or redundant multi-channel encoders and are commonly installed in hip, knee, ankle, shoulder, elbow, wrist, torso, neck, and dexterous-hand joints, including motor-side and reducer-output-side feedback positions. The market covers complete rotary encoder products and independently supplied frameless or kit-type encoders specifically designed or commercially used for humanoid robot joints. It excludes encoder ICs, magnetic sensing chips, optical discs, code wheels, and other upstream components, as well as linear encoders, torque sensors, force/torque sensors, inertial sensors, complete joint modules, motors, reducers, actuators, controllers, and humanoid robots.

United States market for Humanoid Robot Rotary Encoders is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Humanoid Robot Rotary Encoders is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

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Europe market for Humanoid Robot Rotary Encoders is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Humanoid Robot Rotary Encoders players cover RLS d.o.o., DR. JOHANNES HEIDENHAIN GmbH, Novanta Inc., KingKong Technology, NIKON CORPORATION, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Humanoid Robot Rotary Encoders 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 Humanoid Robot Rotary Encoders portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Humanoid Robot Rotary Encoders market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Humanoid Robot Rotary Encoders and breaks down the forecast by Sensing Principle Types, 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 Humanoid Robot Rotary Encoders.

This report presents a comprehensive overview, market shares, and growth opportunities of Humanoid Robot Rotary Encoders market by product type, application, key manufacturers and key regions and countries.

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Market Segmentation

Segmentation by Sensing Principle Types:

Magnetic Rotary Encoders

Inductive Rotary Encoders

Optical Rotary Encoders

Capacitive Rotary Encoders

Segmentation by Encoder Outside Diameter Types:

Small Diameter (<30 mm)

Medium Diameter (30–60 mm)

Large Diameter (>60 mm)

Segmentation by Feedback Configuration Types:

Single-Encoder Feedback

Dual-Encoder Feedback

Redundant Multi-Channel Feedback

Segmentation by Application:

Lower-Limb Joint Actuators (Hip, Knee, and Ankle Joints)

Upper-Limb Joint Actuators (Shoulder, Elbow, and Wrist Joints)

Torso and Neck Joint Actuators

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Dexterous Hand and Finger Joints

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

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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.

RLS d.o.o.

DR. JOHANNES HEIDENHAIN GmbH

Novanta Inc.

KingKong Technology

NIKON CORPORATION

Shanghai Gongwang Electronic Technology Co.,Ltd.

Zhejiang Reagle Sensing Technology Incorporated

Netzer Precision Position Sensors A.C.S. Ltd.

Anhui Sinomags Technologies Co.,Ltd.

FLUX GmbH

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ZeroErr Inc.

Microtech Laboratory Co., Ltd.

Leadshine Technology Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Humanoid Robot Rotary Encoders market?

What factors are driving Humanoid Robot Rotary Encoders market growth, globally and by region?

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

How do Humanoid Robot Rotary Encoders market opportunities vary by end market size?

How does Humanoid Robot Rotary Encoders break out by Sensing Principle Types, by Application?

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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 Humanoid Robot Rotary Encoders Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Humanoid Robot Rotary Encoders by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Humanoid Robot Rotary Encoders by Country/Region, 2021, 2025 & 2032
2.2 Humanoid Robot Rotary Encoders Segment by Sensing Principle Types
  2.2.1 Magnetic Rotary Encoders
  2.2.2 Inductive Rotary Encoders
  2.2.3 Optical Rotary Encoders
  2.2.4 Capacitive Rotary Encoders
  2.2.5 Humanoid Robot Rotary Encoders Sales by Sensing Principle Types
    2.2.5.1 Global Humanoid Robot Rotary Encoders Sales Market Share by Sensing Principle Types (2021-2026)
    2.2.5.2 Global Humanoid Robot Rotary Encoders Revenue and Market Share by Sensing Principle Types (2021-2026)
    2.2.5.3 Global Humanoid Robot Rotary Encoders Sale Price by Sensing Principle Types (2021-2026)
2.3 Humanoid Robot Rotary Encoders Segment by Encoder Outside Diameter Types
  2.3.1 Small Diameter (<30 mm)
  2.3.2 Medium Diameter (30–60 mm)
  2.3.3 Large Diameter (>60 mm)
  2.3.4 Humanoid Robot Rotary Encoders Sales by Encoder Outside Diameter Types
    2.3.4.1 Global Humanoid Robot Rotary Encoders Sales Market Share by Encoder

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Outside Diameter Types (2021-2026)
2.3.4.2 Global Humanoid Robot Rotary Encoders Revenue and Market Share by Encoder Outside Diameter Types (2021-2026)
2.3.4.3 Global Humanoid Robot Rotary Encoders Sale Price by Encoder Outside Diameter Types (2021-2026)
2.4 Humanoid Robot Rotary Encoders Segment by Feedback Configuration Types
2.4.1 Single-Encoder Feedback
2.4.2 Dual-Encoder Feedback
2.4.3 Redundant Multi-Channel Feedback
2.4.4 Humanoid Robot Rotary Encoders Sales by Feedback Configuration Types
2.4.4.1 Global Humanoid Robot Rotary Encoders Sales Market Share by Feedback Configuration Types (2021-2026)
2.4.4.2 Global Humanoid Robot Rotary Encoders Revenue and Market Share by Feedback Configuration Types (2021-2026)
2.4.4.3 Global Humanoid Robot Rotary Encoders Sale Price by Feedback Configuration Types (2021-2026)
2.5 Humanoid Robot Rotary Encoders Segment by Application
2.5.1 Lower-Limb Joint Actuators (Hip, Knee, and Ankle Joints)
2.5.2 Upper-Limb Joint Actuators (Shoulder, Elbow, and Wrist Joints)
2.5.3 Torso and Neck Joint Actuators
2.5.4 Dexterous Hand and Finger Joints
2.5.5 Humanoid Robot Rotary Encoders Sales by Application
2.5.5.1 Global Humanoid Robot Rotary Encoders Sale Market Share by Application (2021-2026)
2.5.5.2 Global Humanoid Robot Rotary Encoders Revenue and Market Share by Application (2021-2026)
2.5.5.3 Global Humanoid Robot Rotary Encoders Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Humanoid Robot Rotary Encoders Breakdown Data by Company
3.1.1 Global Humanoid Robot Rotary Encoders Annual Sales by Company (2021-2026)
3.1.2 Global Humanoid Robot Rotary Encoders Sales Market Share by Company (2021-2026)
3.2 Global Humanoid Robot Rotary Encoders Annual Revenue by Company (2021-2026)
3.2.1 Global Humanoid Robot Rotary Encoders Revenue by Company (2021-2026)

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3.2.2 Global Humanoid Robot Rotary Encoders Revenue Market Share by Company (2021-2026)
3.3 Global Humanoid Robot Rotary Encoders Sale Price by Company
3.4 Key Manufacturers Humanoid Robot Rotary Encoders Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Humanoid Robot Rotary Encoders Product Location Distribution
3.4.2 Players Humanoid Robot Rotary Encoders 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 HUMANOID ROBOT ROTARY ENCODERS BY GEOGRAPHIC REGION

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

5 AMERICAS

5.1 Americas Humanoid Robot Rotary Encoders Sales by Country
5.1.1 Americas Humanoid Robot Rotary Encoders Sales by Country (2021-2026)
5.1.2 Americas Humanoid Robot Rotary Encoders Revenue by Country (2021-2026)

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5.2 Americas Humanoid Robot Rotary Encoders Sales by Sensing Principle Types (2021-2026)
5.3 Americas Humanoid Robot Rotary Encoders Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Humanoid Robot Rotary Encoders Sales by Region
  6.1.1 APAC Humanoid Robot Rotary Encoders Sales by Region (2021-2026)
  6.1.2 APAC Humanoid Robot Rotary Encoders Revenue by Region (2021-2026)
6.2 APAC Humanoid Robot Rotary Encoders Sales by Sensing Principle Types (2021-2026)
6.3 APAC Humanoid Robot Rotary Encoders 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 Humanoid Robot Rotary Encoders by Country
  7.1.1 Europe Humanoid Robot Rotary Encoders Sales by Country (2021-2026)
  7.1.2 Europe Humanoid Robot Rotary Encoders Revenue by Country (2021-2026)
7.2 Europe Humanoid Robot Rotary Encoders Sales by Sensing Principle Types (2021-2026)
7.3 Europe Humanoid Robot Rotary Encoders Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

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8.1 Middle East & Africa Humanoid Robot Rotary Encoders by Country
8.1.1 Middle East & Africa Humanoid Robot Rotary Encoders Sales by Country (2021-2026)
8.1.2 Middle East & Africa Humanoid Robot Rotary Encoders Revenue by Country (2021-2026)
8.2 Middle East & Africa Humanoid Robot Rotary Encoders Sales by Sensing Principle Types (2021-2026)
8.3 Middle East & Africa Humanoid Robot Rotary Encoders 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 Humanoid Robot Rotary Encoders
10.3 Manufacturing Process Analysis of Humanoid Robot Rotary Encoders
10.4 Industry Chain Structure of Humanoid Robot Rotary Encoders

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
11.1.1 Direct Channels
11.1.2 Indirect Channels
11.2 Humanoid Robot Rotary Encoders Distributors
11.3 Humanoid Robot Rotary Encoders Customer

12 WORLD FORECAST REVIEW FOR HUMANOID ROBOT ROTARY ENCODERS BY GEOGRAPHIC REGION

+357 96 030922
info@marketpublishers.com

12.1 Global Humanoid Robot Rotary Encoders Market Size Forecast by Region
12.1.1 Global Humanoid Robot Rotary Encoders Forecast by Region (2027-2032)
12.1.2 Global Humanoid Robot Rotary Encoders 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 Humanoid Robot Rotary Encoders Forecast by Sensing Principle Types (2027-2032)
12.7 Global Humanoid Robot Rotary Encoders Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 RLS d.o.o.
13.1.1 RLS d.o.o. Company Information
13.1.2 RLS d.o.o. Humanoid Robot Rotary Encoders Product Portfolios and Specifications
13.1.3 RLS d.o.o. Humanoid Robot Rotary Encoders Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 RLS d.o.o. Main Business Overview
13.1.5 RLS d.o.o. Latest Developments
13.2 DR. JOHANNES HEIDENHAIN GmbH
13.2.1 DR. JOHANNES HEIDENHAIN GmbH Company Information
13.2.2 DR. JOHANNES HEIDENHAIN GmbH Humanoid Robot Rotary Encoders Product Portfolios and Specifications
13.2.3 DR. JOHANNES HEIDENHAIN GmbH Humanoid Robot Rotary Encoders Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 DR. JOHANNES HEIDENHAIN GmbH Main Business Overview
13.2.5 DR. JOHANNES HEIDENHAIN GmbH Latest Developments
13.3 Novanta Inc.
13.3.1 Novanta Inc. Company Information
13.3.2 Novanta Inc. Humanoid Robot Rotary Encoders Product Portfolios and Specifications
13.3.3 Novanta Inc. Humanoid Robot Rotary Encoders Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Novanta Inc. Main Business Overview
13.3.5 Novanta Inc. Latest Developments

+357 96 030922
info@marketpublishers.com

13.4 KingKong Technology
13.4.1 KingKong Technology Company Information
13.4.2 KingKong Technology Humanoid Robot Rotary Encoders Product Portfolios and Specifications
13.4.3 KingKong Technology Humanoid Robot Rotary Encoders Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 KingKong Technology Main Business Overview
13.4.5 KingKong Technology Latest Developments
13.5 NIKON CORPORATION
13.5.1 NIKON CORPORATION Company Information
13.5.2 NIKON CORPORATION Humanoid Robot Rotary Encoders Product Portfolios and Specifications
13.5.3 NIKON CORPORATION Humanoid Robot Rotary Encoders Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 NIKON CORPORATION Main Business Overview
13.5.5 NIKON CORPORATION Latest Developments
13.6 Shanghai Gongwang Electronic Technology Co.,Ltd.
13.6.1 Shanghai Gongwang Electronic Technology Co.,Ltd. Company Information
13.6.2 Shanghai Gongwang Electronic Technology Co.,Ltd. Humanoid Robot Rotary Encoders Product Portfolios and Specifications
13.6.3 Shanghai Gongwang Electronic Technology Co.,Ltd. Humanoid Robot Rotary Encoders Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Shanghai Gongwang Electronic Technology Co.,Ltd. Main Business Overview
13.6.5 Shanghai Gongwang Electronic Technology Co.,Ltd. Latest Developments
13.7 Zhejiang Reagle Sensing Technology Incorporated
13.7.1 Zhejiang Reagle Sensing Technology Incorporated Company Information
13.7.2 Zhejiang Reagle Sensing Technology Incorporated Humanoid Robot Rotary Encoders Product Portfolios and Specifications
13.7.3 Zhejiang Reagle Sensing Technology Incorporated Humanoid Robot Rotary Encoders Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Zhejiang Reagle Sensing Technology Incorporated Main Business Overview
13.7.5 Zhejiang Reagle Sensing Technology Incorporated Latest Developments
13.8 Netzer Precision Position Sensors A.C.S. Ltd.
13.8.1 Netzer Precision Position Sensors A.C.S. Ltd. Company Information
13.8.2 Netzer Precision Position Sensors A.C.S. Ltd. Humanoid Robot Rotary Encoders Product Portfolios and Specifications
13.8.3 Netzer Precision Position Sensors A.C.S. Ltd. Humanoid Robot Rotary Encoders Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 Netzer Precision Position Sensors A.C.S. Ltd. Main Business Overview

+357 96 030922
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13.8.5 Netzer Precision Position Sensors A.C.S. Ltd. Latest Developments
13.9 Anhui Sinomags Technologies Co.,Ltd.
13.9.1 Anhui Sinomags Technologies Co.,Ltd. Company Information
13.9.2 Anhui Sinomags Technologies Co.,Ltd. Humanoid Robot Rotary Encoders Product Portfolios and Specifications
13.9.3 Anhui Sinomags Technologies Co.,Ltd. Humanoid Robot Rotary Encoders Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 Anhui Sinomags Technologies Co.,Ltd. Main Business Overview
13.9.5 Anhui Sinomags Technologies Co.,Ltd. Latest Developments
13.10 FLUX GmbH
13.10.1 FLUX GmbH Company Information
13.10.2 FLUX GmbH Humanoid Robot Rotary Encoders Product Portfolios and Specifications
13.10.3 FLUX GmbH Humanoid Robot Rotary Encoders Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 FLUX GmbH Main Business Overview
13.10.5 FLUX GmbH Latest Developments
13.11 ZeroErr Inc.
13.11.1 ZeroErr Inc. Company Information
13.11.2 ZeroErr Inc. Humanoid Robot Rotary Encoders Product Portfolios and Specifications
13.11.3 ZeroErr Inc. Humanoid Robot Rotary Encoders Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 ZeroErr Inc. Main Business Overview
13.11.5 ZeroErr Inc. Latest Developments
13.12 Microtech Laboratory Co., Ltd.
13.12.1 Microtech Laboratory Co., Ltd. Company Information
13.12.2 Microtech Laboratory Co., Ltd. Humanoid Robot Rotary Encoders Product Portfolios and Specifications
13.12.3 Microtech Laboratory Co., Ltd. Humanoid Robot Rotary Encoders Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 Microtech Laboratory Co., Ltd. Main Business Overview
13.12.5 Microtech Laboratory Co., Ltd. Latest Developments
13.13 Leadshine Technology Co., Ltd.
13.13.1 Leadshine Technology Co., Ltd. Company Information
13.13.2 Leadshine Technology Co., Ltd. Humanoid Robot Rotary Encoders Product Portfolios and Specifications
13.13.3 Leadshine Technology Co., Ltd. Humanoid Robot Rotary Encoders Sales, Revenue, Price and Gross Margin (2021-2026)

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info@marketpublishers.com

13.13.4 Leadshine Technology Co., Ltd. Main Business Overview
13.13.5 Leadshine Technology Co., Ltd. Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Humanoid Robot Rotary Encoders Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Humanoid Robot Rotary Encoders Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Magnetic Rotary Encoders
Table 4. Major Players of Inductive Rotary Encoders
Table 5. Major Players of Optical Rotary Encoders
Table 6. Major Players of Capacitive Rotary Encoders
Table 7. Global Humanoid Robot Rotary Encoders Sales by Sensing Principle Types (2021-2026) & (K Units)
Table 8. Global Humanoid Robot Rotary Encoders Sales Market Share by Sensing Principle Types (2021-2026)
Table 9. Global Humanoid Robot Rotary Encoders Revenue by Sensing Principle Types (2021-2026) & ($ million)
Table 10. Global Humanoid Robot Rotary Encoders Revenue Market Share by Sensing Principle Types (2021-2026)
Table 11. Global Humanoid Robot Rotary Encoders Sale Price by Sensing Principle Types (2021-2026) & (US$/Unit)
Table 12. Major Players of Small Diameter (<30 mm)
Table 13. Major Players of Medium Diameter (30–60 mm)
Table 14. Major Players of Large Diameter (>60 mm)
Table 15. Global Humanoid Robot Rotary Encoders Sales by Encoder Outside Diameter Types (2021-2026) & (K Units)
Table 16. Global Humanoid Robot Rotary Encoders Sales Market Share by Encoder Outside Diameter Types (2021-2026)
Table 17. Global Humanoid Robot Rotary Encoders Revenue by Encoder Outside Diameter Types (2021-2026) & ($ million)
Table 18. Global Humanoid Robot Rotary Encoders Revenue Market Share by Encoder Outside Diameter Types (2021-2026)
Table 19. Global Humanoid Robot Rotary Encoders Sale Price by Encoder Outside Diameter Types (2021-2026) & (US$/Unit)
Table 20. Major Players of Single-Encoder Feedback
Table 21. Major Players of Dual-Encoder Feedback
Table 22. Major Players of Redundant Multi-Channel Feedback
Table 23. Global Humanoid Robot Rotary Encoders Sales by Feedback Configuration

+357 96 030922
info@marketpublishers.com

Types (2021-2026) & (K Units)
Table 24. Global Humanoid Robot Rotary Encoders Sales Market Share by Feedback Configuration Types (2021-2026)
Table 25. Global Humanoid Robot Rotary Encoders Revenue by Feedback Configuration Types (2021-2026) & ($ million)
Table 26. Global Humanoid Robot Rotary Encoders Revenue Market Share by Feedback Configuration Types (2021-2026)
Table 27. Global Humanoid Robot Rotary Encoders Sale Price by Feedback Configuration Types (2021-2026) & (US$/Unit)
Table 28. Global Humanoid Robot Rotary Encoders Sale by Application (2021-2026) & (K Units)
Table 29. Global Humanoid Robot Rotary Encoders Sale Market Share by Application (2021-2026)
Table 30. Global Humanoid Robot Rotary Encoders Revenue by Application (2021-2026) & ($ million)
Table 31. Global Humanoid Robot Rotary Encoders Revenue Market Share by Application (2021-2026)
Table 32. Global Humanoid Robot Rotary Encoders Sale Price by Application (2021-2026) & (US$/Unit)
Table 33. Global Humanoid Robot Rotary Encoders Sales by Company (2021-2026) & (K Units)
Table 34. Global Humanoid Robot Rotary Encoders Sales Market Share by Company (2021-2026)
Table 35. Global Humanoid Robot Rotary Encoders Revenue by Company (2021-2026) & ($ millions)
Table 36. Global Humanoid Robot Rotary Encoders Revenue Market Share by Company (2021-2026)
Table 37. Global Humanoid Robot Rotary Encoders Sale Price by Company (2021-2026) & (US$/Unit)
Table 38. Key Manufacturers Humanoid Robot Rotary Encoders Producing Area Distribution and Sales Area
Table 39. Players Humanoid Robot Rotary Encoders Products Offered
Table 40. Humanoid Robot Rotary Encoders Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 41. New Products and Potential Entrants
Table 42. Market M&A Activity & Strategy
Table 43. Global Humanoid Robot Rotary Encoders Sales by Geographic Region (2021-2026) & (K Units)
Table 44. Global Humanoid Robot Rotary Encoders Sales Market Share Geographic

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info@marketpublishers.com

Region (2021-2026)
Table 45. Global Humanoid Robot Rotary Encoders Revenue by Geographic Region (2021-2026) & ($ millions)
Table 46. Global Humanoid Robot Rotary Encoders Revenue Market Share by Geographic Region (2021-2026)
Table 47. Global Humanoid Robot Rotary Encoders Sales by Country/Region (2021-2026) & (K Units)
Table 48. Global Humanoid Robot Rotary Encoders Sales Market Share by Country/Region (2021-2026)
Table 49. Global Humanoid Robot Rotary Encoders Revenue by Country/Region (2021-2026) & ($ millions)
Table 50. Global Humanoid Robot Rotary Encoders Revenue Market Share by Country/Region (2021-2026)
Table 51. Americas Humanoid Robot Rotary Encoders Sales by Country (2021-2026) & (K Units)
Table 52. Americas Humanoid Robot Rotary Encoders Sales Market Share by Country (2021-2026)
Table 53. Americas Humanoid Robot Rotary Encoders Revenue by Country (2021-2026) & ($ millions)
Table 54. Americas Humanoid Robot Rotary Encoders Sales by Sensing Principle Types (2021-2026) & (K Units)
Table 55. Americas Humanoid Robot Rotary Encoders Sales by Application (2021-2026) & (K Units)
Table 56. APAC Humanoid Robot Rotary Encoders Sales by Region (2021-2026) & (K Units)
Table 57. APAC Humanoid Robot Rotary Encoders Sales Market Share by Region (2021-2026)
Table 58. APAC Humanoid Robot Rotary Encoders Revenue by Region (2021-2026) & ($ millions)
Table 59. APAC Humanoid Robot Rotary Encoders Sales by Sensing Principle Types (2021-2026) & (K Units)
Table 60. APAC Humanoid Robot Rotary Encoders Sales by Application (2021-2026) & (K Units)
Table 61. Europe Humanoid Robot Rotary Encoders Sales by Country (2021-2026) & (K Units)
Table 62. Europe Humanoid Robot Rotary Encoders Revenue by Country (2021-2026) & ($ millions)
Table 63. Europe Humanoid Robot Rotary Encoders Sales by Sensing Principle Types (2021-2026) & (K Units)

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Table 64. Europe Humanoid Robot Rotary Encoders Sales by Application (2021-2026) & (K Units)
Table 65. Middle East & Africa Humanoid Robot Rotary Encoders Sales by Country (2021-2026) & (K Units)
Table 66. Middle East & Africa Humanoid Robot Rotary Encoders Revenue Market Share by Country (2021-2026)
Table 67. Middle East & Africa Humanoid Robot Rotary Encoders Sales by Sensing Principle Types (2021-2026) & (K Units)
Table 68. Middle East & Africa Humanoid Robot Rotary Encoders Sales by Application (2021-2026) & (K Units)
Table 69. Key Market Drivers & Growth Opportunities of Humanoid Robot Rotary Encoders
Table 70. Key Market Challenges & Risks of Humanoid Robot Rotary Encoders
Table 71. Key Industry Trends of Humanoid Robot Rotary Encoders
Table 72. Humanoid Robot Rotary Encoders Raw Material
Table 73. Key Suppliers of Raw Materials
Table 74. Humanoid Robot Rotary Encoders Distributors List
Table 75. Humanoid Robot Rotary Encoders Customer List
Table 76. Global Humanoid Robot Rotary Encoders Sales Forecast by Region (2027-2032) & (K Units)
Table 77. Global Humanoid Robot Rotary Encoders Revenue Forecast by Region (2027-2032) & ($ millions)
Table 78. Americas Humanoid Robot Rotary Encoders Sales Forecast by Country (2027-2032) & (K Units)
Table 79. Americas Humanoid Robot Rotary Encoders Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 80. APAC Humanoid Robot Rotary Encoders Sales Forecast by Region (2027-2032) & (K Units)
Table 81. APAC Humanoid Robot Rotary Encoders Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 82. Europe Humanoid Robot Rotary Encoders Sales Forecast by Country (2027-2032) & (K Units)
Table 83. Europe Humanoid Robot Rotary Encoders Revenue Forecast by Country (2027-2032) & ($ millions)
Table 84. Middle East & Africa Humanoid Robot Rotary Encoders Sales Forecast by Country (2027-2032) & (K Units)
Table 85. Middle East & Africa Humanoid Robot Rotary Encoders Revenue Forecast by Country (2027-2032) & ($ millions)
Table 86. Global Humanoid Robot Rotary Encoders Sales Forecast by Sensing

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Principle Types (2027-2032) & (K Units)
Table 87. Global Humanoid Robot Rotary Encoders Revenue Forecast by Sensing Principle Types (2027-2032) & ($ millions)
Table 88. Global Humanoid Robot Rotary Encoders Sales Forecast by Application (2027-2032) & (K Units)
Table 89. Global Humanoid Robot Rotary Encoders Revenue Forecast by Application (2027-2032) & ($ millions)
Table 90. RLS d.o.o. Basic Information, Humanoid Robot Rotary Encoders Manufacturing Base, Sales Area and Its Competitors
Table 91. RLS d.o.o. Humanoid Robot Rotary Encoders Product Portfolios and Specifications
Table 92. RLS d.o.o. Humanoid Robot Rotary Encoders Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 93. RLS d.o.o. Main Business
Table 94. RLS d.o.o. Latest Developments
Table 95. DR. JOHANNES HEIDENHAIN GmbH Basic Information, Humanoid Robot Rotary Encoders Manufacturing Base, Sales Area and Its Competitors
Table 96. DR. JOHANNES HEIDENHAIN GmbH Humanoid Robot Rotary Encoders Product Portfolios and Specifications
Table 97. DR. JOHANNES HEIDENHAIN GmbH Humanoid Robot Rotary Encoders Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 98. DR. JOHANNES HEIDENHAIN GmbH Main Business
Table 99. DR. JOHANNES HEIDENHAIN GmbH Latest Developments
Table 100. Novanta Inc. Basic Information, Humanoid Robot Rotary Encoders Manufacturing Base, Sales Area and Its Competitors
Table 101. Novanta Inc. Humanoid Robot Rotary Encoders Product Portfolios and Specifications
Table 102. Novanta Inc. Humanoid Robot Rotary Encoders Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 103. Novanta Inc. Main Business
Table 104. Novanta Inc. Latest Developments
Table 105. KingKong Technology Basic Information, Humanoid Robot Rotary Encoders Manufacturing Base, Sales Area and Its Competitors
Table 106. KingKong Technology Humanoid Robot Rotary Encoders Product Portfolios and Specifications
Table 107. KingKong Technology Humanoid Robot Rotary Encoders Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 108. KingKong Technology Main Business
Table 109. KingKong Technology Latest Developments

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Table 110. NIKON CORPORATION Basic Information, Humanoid Robot Rotary Encoders Manufacturing Base, Sales Area and Its Competitors
Table 111. NIKON CORPORATION Humanoid Robot Rotary Encoders Product Portfolios and Specifications
Table 112. NIKON CORPORATION Humanoid Robot Rotary Encoders Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 113. NIKON CORPORATION Main Business
Table 114. NIKON CORPORATION Latest Developments
Table 115. Shanghai Gongwang Electronic Technology Co.,Ltd. Basic Information, Humanoid Robot Rotary Encoders Manufacturing Base, Sales Area and Its Competitors
Table 116. Shanghai Gongwang Electronic Technology Co.,Ltd. Humanoid Robot Rotary Encoders Product Portfolios and Specifications
Table 117. Shanghai Gongwang Electronic Technology Co.,Ltd. Humanoid Robot Rotary Encoders Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 118. Shanghai Gongwang Electronic Technology Co.,Ltd. Main Business
Table 119. Shanghai Gongwang Electronic Technology Co.,Ltd. Latest Developments
Table 120. Zhejiang Reagle Sensing Technology Incorporated Basic Information, Humanoid Robot Rotary Encoders Manufacturing Base, Sales Area and Its Competitors
Table 121. Zhejiang Reagle Sensing Technology Incorporated Humanoid Robot Rotary Encoders Product Portfolios and Specifications
Table 122. Zhejiang Reagle Sensing Technology Incorporated Humanoid Robot Rotary Encoders Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 123. Zhejiang Reagle Sensing Technology Incorporated Main Business
Table 124. Zhejiang Reagle Sensing Technology Incorporated Latest Developments
Table 125. Netzer Precision Position Sensors A.C.S. Ltd. Basic Information, Humanoid Robot Rotary Encoders Manufacturing Base, Sales Area and Its Competitors
Table 126. Netzer Precision Position Sensors A.C.S. Ltd. Humanoid Robot Rotary Encoders Product Portfolios and Specifications
Table 127. Netzer Precision Position Sensors A.C.S. Ltd. Humanoid Robot Rotary Encoders Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 128. Netzer Precision Position Sensors A.C.S. Ltd. Main Business
Table 129. Netzer Precision Position Sensors A.C.S. Ltd. Latest Developments
Table 130. Anhui Sinomags Technologies Co.,Ltd. Basic Information, Humanoid Robot Rotary Encoders Manufacturing Base, Sales Area and Its Competitors
Table 131. Anhui Sinomags Technologies Co.,Ltd. Humanoid Robot Rotary Encoders Product Portfolios and Specifications

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Table 132. Anhui Sinomags Technologies Co.,Ltd. Humanoid Robot Rotary Encoders Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 133. Anhui Sinomags Technologies Co.,Ltd. Main Business
Table 134. Anhui Sinomags Technologies Co.,Ltd. Latest Developments
Table 135. FLUX GmbH Basic Information, Humanoid Robot Rotary Encoders Manufacturing Base, Sales Area and Its Competitors
Table 136. FLUX GmbH Humanoid Robot Rotary Encoders Product Portfolios and Specifications
Table 137. FLUX GmbH Humanoid Robot Rotary Encoders Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 138. FLUX GmbH Main Business
Table 139. FLUX GmbH Latest Developments
Table 140. ZeroErr Inc. Basic Information, Humanoid Robot Rotary Encoders Manufacturing Base, Sales Area and Its Competitors
Table 141. ZeroErr Inc. Humanoid Robot Rotary Encoders Product Portfolios and Specifications
Table 142. ZeroErr Inc. Humanoid Robot Rotary Encoders Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 143. ZeroErr Inc. Main Business
Table 144. ZeroErr Inc. Latest Developments
Table 145. Microtech Laboratory Co., Ltd. Basic Information, Humanoid Robot Rotary Encoders Manufacturing Base, Sales Area and Its Competitors
Table 146. Microtech Laboratory Co., Ltd. Humanoid Robot Rotary Encoders Product Portfolios and Specifications
Table 147. Microtech Laboratory Co., Ltd. Humanoid Robot Rotary Encoders Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 148. Microtech Laboratory Co., Ltd. Main Business
Table 149. Microtech Laboratory Co., Ltd. Latest Developments
Table 150. Leadshine Technology Co., Ltd. Basic Information, Humanoid Robot Rotary Encoders Manufacturing Base, Sales Area and Its Competitors
Table 151. Leadshine Technology Co., Ltd. Humanoid Robot Rotary Encoders Product Portfolios and Specifications
Table 152. Leadshine Technology Co., Ltd. Humanoid Robot Rotary Encoders Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 153. Leadshine Technology Co., Ltd. Main Business
Table 154. Leadshine Technology Co., Ltd. Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Humanoid Robot Rotary Encoders
Figure 2. Humanoid Robot Rotary Encoders Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Humanoid Robot Rotary Encoders Sales Growth Rate 2021-2032 (K Units)
Figure 7. Global Humanoid Robot Rotary Encoders Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Humanoid Robot Rotary Encoders Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Humanoid Robot Rotary Encoders Sales Market Share by Country/Region (2025)
Figure 10. Humanoid Robot Rotary Encoders Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Magnetic Rotary Encoders
Figure 12. Product Picture of Inductive Rotary Encoders
Figure 13. Product Picture of Optical Rotary Encoders
Figure 14. Product Picture of Capacitive Rotary Encoders
Figure 15. Global Humanoid Robot Rotary Encoders Sales Market Share by Sensing Principle Types in 2026
Figure 16. Global Humanoid Robot Rotary Encoders Revenue Market Share by Sensing Principle Types (2021-2026)
Figure 17. Product Picture of Small Diameter (<30 mm)
Figure 18. Product Picture of Medium Diameter (30–60 mm)
Figure 19. Product Picture of Large Diameter (>60 mm)
Figure 20. Global Humanoid Robot Rotary Encoders Sales Market Share by Encoder Outside Diameter Types in 2026
Figure 21. Global Humanoid Robot Rotary Encoders Revenue Market Share by Encoder Outside Diameter Types (2021-2026)
Figure 22. Product Picture of Single-Encoder Feedback
Figure 23. Product Picture of Dual-Encoder Feedback
Figure 24. Product Picture of Redundant Multi-Channel Feedback
Figure 25. Global Humanoid Robot Rotary Encoders Sales Market Share by Feedback Configuration Types in 2026

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Figure 26. Global Humanoid Robot Rotary Encoders Revenue Market Share by Feedback Configuration Types (2021-2026)
Figure 27. Humanoid Robot Rotary Encoders Consumed in Lower-Limb Joint Actuators (Hip, Knee, and Ankle Joints)
Figure 28. Global Humanoid Robot Rotary Encoders Market: Lower-Limb Joint Actuators (Hip, Knee, and Ankle Joints) (2021-2026) & (K Units)
Figure 29. Humanoid Robot Rotary Encoders Consumed in Upper-Limb Joint Actuators (Shoulder, Elbow, and Wrist Joints)
Figure 30. Global Humanoid Robot Rotary Encoders Market: Upper-Limb Joint Actuators (Shoulder, Elbow, and Wrist Joints) (2021-2026) & (K Units)
Figure 31. Humanoid Robot Rotary Encoders Consumed in Torso and Neck Joint Actuators
Figure 32. Global Humanoid Robot Rotary Encoders Market: Torso and Neck Joint Actuators (2021-2026) & (K Units)
Figure 33. Humanoid Robot Rotary Encoders Consumed in Dexterous Hand and Finger Joints
Figure 34. Global Humanoid Robot Rotary Encoders Market: Dexterous Hand and Finger Joints (2021-2026) & (K Units)
Figure 35. Global Humanoid Robot Rotary Encoders Sale Market Share by Application (2025)
Figure 36. Global Humanoid Robot Rotary Encoders Revenue Market Share by Application in 2025
Figure 37. Humanoid Robot Rotary Encoders Sales by Company in 2025 (K Units)
Figure 38. Global Humanoid Robot Rotary Encoders Sales Market Share by Company in 2025
Figure 39. Humanoid Robot Rotary Encoders Revenue by Company in 2025 ($ millions)
Figure 40. Global Humanoid Robot Rotary Encoders Revenue Market Share by Company in 2025
Figure 41. Global Humanoid Robot Rotary Encoders Sales Market Share by Geographic Region (2021-2026)
Figure 42. Global Humanoid Robot Rotary Encoders Revenue Market Share by Geographic Region in 2025
Figure 43. Americas Humanoid Robot Rotary Encoders Sales 2021-2026 (K Units)
Figure 44. Americas Humanoid Robot Rotary Encoders Revenue 2021-2026 ($ millions)
Figure 45. APAC Humanoid Robot Rotary Encoders Sales 2021-2026 (K Units)
Figure 46. APAC Humanoid Robot Rotary Encoders Revenue 2021-2026 ($ millions)
Figure 47. Europe Humanoid Robot Rotary Encoders Sales 2021-2026 (K Units)
Figure 48. Europe Humanoid Robot Rotary Encoders Revenue 2021-2026 ($ millions)
Figure 49. Middle East & Africa Humanoid Robot Rotary Encoders Sales 2021-2026 (K

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Units)
Figure 50. Middle East & Africa Humanoid Robot Rotary Encoders Revenue 2021-2026 ($ millions)
Figure 51. Americas Humanoid Robot Rotary Encoders Sales Market Share by Country in 2025
Figure 52. Americas Humanoid Robot Rotary Encoders Revenue Market Share by Country (2021-2026)
Figure 53. Americas Humanoid Robot Rotary Encoders Sales Market Share by Sensing Principle Types (2021-2026)
Figure 54. Americas Humanoid Robot Rotary Encoders Sales Market Share by Application (2021-2026)
Figure 55. United States Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 56. Canada Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 57. Mexico Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 58. Brazil Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 59. APAC Humanoid Robot Rotary Encoders Sales Market Share by Region in 2025
Figure 60. APAC Humanoid Robot Rotary Encoders Revenue Market Share by Region (2021-2026)
Figure 61. APAC Humanoid Robot Rotary Encoders Sales Market Share by Sensing Principle Types (2021-2026)
Figure 62. APAC Humanoid Robot Rotary Encoders Sales Market Share by Application (2021-2026)
Figure 63. China Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 64. Japan Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 65. South Korea Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 66. Southeast Asia Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 67. India Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 68. Australia Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)

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Figure 69. China Taiwan Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 70. Europe Humanoid Robot Rotary Encoders Sales Market Share by Country in 2025
Figure 71. Europe Humanoid Robot Rotary Encoders Revenue Market Share by Country (2021-2026)
Figure 72. Europe Humanoid Robot Rotary Encoders Sales Market Share by Sensing Principle Types (2021-2026)
Figure 73. Europe Humanoid Robot Rotary Encoders Sales Market Share by Application (2021-2026)
Figure 74. Germany Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 75. France Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 76. UK Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 77. Italy Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 78. Russia Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 79. Middle East & Africa Humanoid Robot Rotary Encoders Sales Market Share by Country (2021-2026)
Figure 80. Middle East & Africa Humanoid Robot Rotary Encoders Sales Market Share by Sensing Principle Types (2021-2026)
Figure 81. Middle East & Africa Humanoid Robot Rotary Encoders Sales Market Share by Application (2021-2026)
Figure 82. Egypt Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 83. South Africa Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 84. Israel Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 85. Turkey Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 86. GCC Countries Humanoid Robot Rotary Encoders Revenue Growth 2021-2026 ($ millions)
Figure 87. Manufacturing Cost Structure Analysis of Humanoid Robot Rotary Encoders in 2026
Figure 88. Manufacturing Process Analysis of Humanoid Robot Rotary Encoders

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Figure 89. Industry Chain Structure of Humanoid Robot Rotary Encoders
Figure 90. Channels of Distribution
Figure 91. Global Humanoid Robot Rotary Encoders Sales Market Forecast by Region (2027-2032)
Figure 92. Global Humanoid Robot Rotary Encoders Revenue Market Share Forecast by Region (2027-2032)
Figure 93. Global Humanoid Robot Rotary Encoders Sales Market Share Forecast by Sensing Principle Types (2027-2032)
Figure 94. Global Humanoid Robot Rotary Encoders Revenue Market Share Forecast by Sensing Principle Types (2027-2032)
Figure 95. Global Humanoid Robot Rotary Encoders Sales Market Share Forecast by Application (2027-2032)
Figure 96. Global Humanoid Robot Rotary Encoders Revenue Market Share Forecast by Application (2027-2032)

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