

# Global Humanoid Robot Encoder Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Humanoid Robot Encoder market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Humanoid Robot Encoders are used to measure the robot's motion state, especially the angle and position of the joints. Encoders convert mechanical motion into electrical signals, helping the robot control system to accurately understand the current state of each joint, thereby achieving precise motion control and posture adjustment.

This report is a detailed and comprehensive analysis for global Humanoid Robot Encoder market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Humanoid Robot Encoder market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Humanoid Robot Encoder market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Humanoid Robot Encoder market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Humanoid Robot Encoder market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Humanoid Robot Encoder
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Humanoid Robot Encoder market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Rockwell Automation, HEIDENHAIN, Synapticon GmbH, CUI Devices, FAULHABER, Netzer, US Digital, RLS, Dynapar, Renishaw, etc.

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

## Market Segmentation

Humanoid Robot Encoder market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

#### Absolute Encoder

Incremental Encoder

Market segment by Application

Joint Position Control

Motion Capture and Feedback

Motion Trajectory Planning

Major players covered

Rockwell Automation

HEIDENHAIN

Synapticon GmbH

CUI Devices

FAULHABER

Netzer

US Digital

RLS

Dynapar

Renishaw

Gongwang Electronics

Opp Optoelectronics (Yuheng Optics)

Hechuan Technology

Haozhi Electromechanical

Market segment by region, regional analysis covers  
North America (United States, Canada, and Mexico)  
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)  
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)  
South America (Brazil, Argentina, Colombia, and Rest of South America)  
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Humanoid Robot Encoder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Humanoid Robot Encoder, with price, sales quantity, revenue, and global market share of Humanoid Robot Encoder from 2020 to 2025.

Chapter 3, the Humanoid Robot Encoder competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Humanoid Robot Encoder breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Humanoid Robot Encoder market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces

analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Humanoid Robot Encoder.

Chapter 14 and 15, to describe Humanoid Robot Encoder sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Humanoid Robot Encoder Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 Absolute Encoder

1.3.3 Incremental Encoder

1.4 Market Analysis by Application

1.4.1 Overview: Global Humanoid Robot Encoder Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Joint Position Control

1.4.3 Motion Capture and Feedback

1.4.4 Motion Trajectory Planning

1.5 Global Humanoid Robot Encoder Market Size & Forecast

1.5.1 Global Humanoid Robot Encoder Consumption Value (2020 & 2024 & 2031)

1.5.2 Global Humanoid Robot Encoder Sales Quantity (2020-2031)

1.5.3 Global Humanoid Robot Encoder Average Price (2020-2031)

### 2 MANUFACTURERS PROFILES

2.1 Rockwell Automation

2.1.1 Rockwell Automation Details

2.1.2 Rockwell Automation Major Business

2.1.3 Rockwell Automation Humanoid Robot Encoder Product and Services

2.1.4 Rockwell Automation Humanoid Robot Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 Rockwell Automation Recent Developments/Updates

2.2 HEIDENHAIN

2.2.1 HEIDENHAIN Details

2.2.2 HEIDENHAIN Major Business

2.2.3 HEIDENHAIN Humanoid Robot Encoder Product and Services

2.2.4 HEIDENHAIN Humanoid Robot Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.2.5 HEIDENHAIN Recent Developments/Updates

2.3 Synapticon GmbH

- 2.3.1 Synapticon GmbH Details
- 2.3.2 Synapticon GmbH Major Business
- 2.3.3 Synapticon GmbH Humanoid Robot Encoder Product and Services
- 2.3.4 Synapticon GmbH Humanoid Robot Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.3.5 Synapticon GmbH Recent Developments/Updates
- 2.4 CUI Devices
  - 2.4.1 CUI Devices Details
  - 2.4.2 CUI Devices Major Business
  - 2.4.3 CUI Devices Humanoid Robot Encoder Product and Services
  - 2.4.4 CUI Devices Humanoid Robot Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.4.5 CUI Devices Recent Developments/Updates
- 2.5 FAULHABER
  - 2.5.1 FAULHABER Details
  - 2.5.2 FAULHABER Major Business
  - 2.5.3 FAULHABER Humanoid Robot Encoder Product and Services
  - 2.5.4 FAULHABER Humanoid Robot Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.5.5 FAULHABER Recent Developments/Updates
- 2.6 Netzer
  - 2.6.1 Netzer Details
  - 2.6.2 Netzer Major Business
  - 2.6.3 Netzer Humanoid Robot Encoder Product and Services
  - 2.6.4 Netzer Humanoid Robot Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.6.5 Netzer Recent Developments/Updates
- 2.7 US Digital
  - 2.7.1 US Digital Details
  - 2.7.2 US Digital Major Business
  - 2.7.3 US Digital Humanoid Robot Encoder Product and Services
  - 2.7.4 US Digital Humanoid Robot Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
  - 2.7.5 US Digital Recent Developments/Updates
- 2.8 RLS
  - 2.8.1 RLS Details
  - 2.8.2 RLS Major Business
  - 2.8.3 RLS Humanoid Robot Encoder Product and Services
  - 2.8.4 RLS Humanoid Robot Encoder Sales Quantity, Average Price, Revenue, Gross

## Margin and Market Share (2020-2025)

### 2.8.5 RLS Recent Developments/Updates

## 2.9 Dynapar

### 2.9.1 Dynapar Details

### 2.9.2 Dynapar Major Business

### 2.9.3 Dynapar Humanoid Robot Encoder Product and Services

### 2.9.4 Dynapar Humanoid Robot Encoder Sales Quantity, Average Price, Revenue,

## Gross Margin and Market Share (2020-2025)

### 2.9.5 Dynapar Recent Developments/Updates

## 2.10 Renishaw

### 2.10.1 Renishaw Details

### 2.10.2 Renishaw Major Business

### 2.10.3 Renishaw Humanoid Robot Encoder Product and Services

### 2.10.4 Renishaw Humanoid Robot Encoder Sales Quantity, Average Price, Revenue,

## Gross Margin and Market Share (2020-2025)

### 2.10.5 Renishaw Recent Developments/Updates

## 2.11 Gongwang Electronics

### 2.11.1 Gongwang Electronics Details

### 2.11.2 Gongwang Electronics Major Business

### 2.11.3 Gongwang Electronics Humanoid Robot Encoder Product and Services

### 2.11.4 Gongwang Electronics Humanoid Robot Encoder Sales Quantity, Average

## Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.11.5 Gongwang Electronics Recent Developments/Updates

## 2.12 Opp Optoelectronics (Yuheng Optics)

### 2.12.1 Opp Optoelectronics (Yuheng Optics) Details

### 2.12.2 Opp Optoelectronics (Yuheng Optics) Major Business

### 2.12.3 Opp Optoelectronics (Yuheng Optics) Humanoid Robot Encoder Product and Services

## 2.12.4 Opp Optoelectronics (Yuheng Optics) Humanoid Robot Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.12.5 Opp Optoelectronics (Yuheng Optics) Recent Developments/Updates

## 2.13 Hechuan Technology

### 2.13.1 Hechuan Technology Details

### 2.13.2 Hechuan Technology Major Business

### 2.13.3 Hechuan Technology Humanoid Robot Encoder Product and Services

## 2.13.4 Hechuan Technology Humanoid Robot Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

### 2.13.5 Hechuan Technology Recent Developments/Updates

## 2.14 Haozhi Electromechanical

- 2.14.1 Haozhi Electromechanical Details
- 2.14.2 Haozhi Electromechanical Major Business
- 2.14.3 Haozhi Electromechanical Humanoid Robot Encoder Product and Services
- 2.14.4 Haozhi Electromechanical Humanoid Robot Encoder Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.14.5 Haozhi Electromechanical Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: HUMANOID ROBOT ENCODER BY MANUFACTURER**

- 3.1 Global Humanoid Robot Encoder Sales Quantity by Manufacturer (2020-2025)
- 3.2 Global Humanoid Robot Encoder Revenue by Manufacturer (2020-2025)
- 3.3 Global Humanoid Robot Encoder Average Price by Manufacturer (2020-2025)
- 3.4 Market Share Analysis (2024)
  - 3.4.1 Producer Shipments of Humanoid Robot Encoder by Manufacturer Revenue (\$MM) and Market Share (%): 2024
  - 3.4.2 Top 3 Humanoid Robot Encoder Manufacturer Market Share in 2024
  - 3.4.3 Top 6 Humanoid Robot Encoder Manufacturer Market Share in 2024
- 3.5 Humanoid Robot Encoder Market: Overall Company Footprint Analysis
  - 3.5.1 Humanoid Robot Encoder Market: Region Footprint
  - 3.5.2 Humanoid Robot Encoder Market: Company Product Type Footprint
  - 3.5.3 Humanoid Robot Encoder Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

### **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global Humanoid Robot Encoder Market Size by Region
  - 4.1.1 Global Humanoid Robot Encoder Sales Quantity by Region (2020-2031)
  - 4.1.2 Global Humanoid Robot Encoder Consumption Value by Region (2020-2031)
  - 4.1.3 Global Humanoid Robot Encoder Average Price by Region (2020-2031)
- 4.2 North America Humanoid Robot Encoder Consumption Value (2020-2031)
- 4.3 Europe Humanoid Robot Encoder Consumption Value (2020-2031)
- 4.4 Asia-Pacific Humanoid Robot Encoder Consumption Value (2020-2031)
- 4.5 South America Humanoid Robot Encoder Consumption Value (2020-2031)
- 4.6 Middle East & Africa Humanoid Robot Encoder Consumption Value (2020-2031)

### **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Humanoid Robot Encoder Sales Quantity by Type (2020-2031)
- 5.2 Global Humanoid Robot Encoder Consumption Value by Type (2020-2031)
- 5.3 Global Humanoid Robot Encoder Average Price by Type (2020-2031)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global Humanoid Robot Encoder Sales Quantity by Application (2020-2031)
- 6.2 Global Humanoid Robot Encoder Consumption Value by Application (2020-2031)
- 6.3 Global Humanoid Robot Encoder Average Price by Application (2020-2031)

## **7 NORTH AMERICA**

- 7.1 North America Humanoid Robot Encoder Sales Quantity by Type (2020-2031)
- 7.2 North America Humanoid Robot Encoder Sales Quantity by Application (2020-2031)
- 7.3 North America Humanoid Robot Encoder Market Size by Country
  - 7.3.1 North America Humanoid Robot Encoder Sales Quantity by Country (2020-2031)
  - 7.3.2 North America Humanoid Robot Encoder Consumption Value by Country (2020-2031)
  - 7.3.3 United States Market Size and Forecast (2020-2031)
  - 7.3.4 Canada Market Size and Forecast (2020-2031)
  - 7.3.5 Mexico Market Size and Forecast (2020-2031)

## **8 EUROPE**

- 8.1 Europe Humanoid Robot Encoder Sales Quantity by Type (2020-2031)
- 8.2 Europe Humanoid Robot Encoder Sales Quantity by Application (2020-2031)
- 8.3 Europe Humanoid Robot Encoder Market Size by Country
  - 8.3.1 Europe Humanoid Robot Encoder Sales Quantity by Country (2020-2031)
  - 8.3.2 Europe Humanoid Robot Encoder Consumption Value by Country (2020-2031)
  - 8.3.3 Germany Market Size and Forecast (2020-2031)
  - 8.3.4 France Market Size and Forecast (2020-2031)
  - 8.3.5 United Kingdom Market Size and Forecast (2020-2031)
  - 8.3.6 Russia Market Size and Forecast (2020-2031)
  - 8.3.7 Italy Market Size and Forecast (2020-2031)

## **9 ASIA-PACIFIC**

- 9.1 Asia-Pacific Humanoid Robot Encoder Sales Quantity by Type (2020-2031)
- 9.2 Asia-Pacific Humanoid Robot Encoder Sales Quantity by Application (2020-2031)

### 9.3 Asia-Pacific Humanoid Robot Encoder Market Size by Region

9.3.1 Asia-Pacific Humanoid Robot Encoder Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific Humanoid Robot Encoder Consumption Value by Region (2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

9.3.6 India Market Size and Forecast (2020-2031)

9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

9.3.8 Australia Market Size and Forecast (2020-2031)

## 10 SOUTH AMERICA

10.1 South America Humanoid Robot Encoder Sales Quantity by Type (2020-2031)

10.2 South America Humanoid Robot Encoder Sales Quantity by Application (2020-2031)

10.3 South America Humanoid Robot Encoder Market Size by Country

10.3.1 South America Humanoid Robot Encoder Sales Quantity by Country (2020-2031)

10.3.2 South America Humanoid Robot Encoder Consumption Value by Country (2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

## 11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Humanoid Robot Encoder Sales Quantity by Type (2020-2031)

11.2 Middle East & Africa Humanoid Robot Encoder Sales Quantity by Application (2020-2031)

11.3 Middle East & Africa Humanoid Robot Encoder Market Size by Country

11.3.1 Middle East & Africa Humanoid Robot Encoder Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa Humanoid Robot Encoder Consumption Value by Country (2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

## **12 MARKET DYNAMICS**

- 12.1 Humanoid Robot Encoder Market Drivers
- 12.2 Humanoid Robot Encoder Market Restraints
- 12.3 Humanoid Robot Encoder Trends Analysis
- 12.4 Porters Five Forces Analysis
  - 12.4.1 Threat of New Entrants
  - 12.4.2 Bargaining Power of Suppliers
  - 12.4.3 Bargaining Power of Buyers
  - 12.4.4 Threat of Substitutes
  - 12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

- 13.1 Raw Material of Humanoid Robot Encoder and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Humanoid Robot Encoder
- 13.3 Humanoid Robot Encoder Production Process
- 13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Humanoid Robot Encoder Typical Distributors
- 14.3 Humanoid Robot Encoder Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Humanoid Robot Encoder Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Humanoid Robot Encoder Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Rockwell Automation Basic Information, Manufacturing Base and Competitors

Table 4. Rockwell Automation Major Business

Table 5. Rockwell Automation Humanoid Robot Encoder Product and Services

Table 6. Rockwell Automation Humanoid Robot Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Rockwell Automation Recent Developments/Updates

Table 8. HEIDENHAIN Basic Information, Manufacturing Base and Competitors

Table 9. HEIDENHAIN Major Business

Table 10. HEIDENHAIN Humanoid Robot Encoder Product and Services

Table 11. HEIDENHAIN Humanoid Robot Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. HEIDENHAIN Recent Developments/Updates

Table 13. Synapticon GmbH Basic Information, Manufacturing Base and Competitors

Table 14. Synapticon GmbH Major Business

Table 15. Synapticon GmbH Humanoid Robot Encoder Product and Services

Table 16. Synapticon GmbH Humanoid Robot Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Synapticon GmbH Recent Developments/Updates

Table 18. CUI Devices Basic Information, Manufacturing Base and Competitors

Table 19. CUI Devices Major Business

Table 20. CUI Devices Humanoid Robot Encoder Product and Services

Table 21. CUI Devices Humanoid Robot Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. CUI Devices Recent Developments/Updates

Table 23. FAULHABER Basic Information, Manufacturing Base and Competitors

Table 24. FAULHABER Major Business

Table 25. FAULHABER Humanoid Robot Encoder Product and Services

Table 26. FAULHABER Humanoid Robot Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

- Table 27. FAULHABER Recent Developments/Updates
- Table 28. Netzer Basic Information, Manufacturing Base and Competitors
- Table 29. Netzer Major Business
- Table 30. Netzer Humanoid Robot Encoder Product and Services
- Table 31. Netzer Humanoid Robot Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 32. Netzer Recent Developments/Updates
- Table 33. US Digital Basic Information, Manufacturing Base and Competitors
- Table 34. US Digital Major Business
- Table 35. US Digital Humanoid Robot Encoder Product and Services
- Table 36. US Digital Humanoid Robot Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 37. US Digital Recent Developments/Updates
- Table 38. RLS Basic Information, Manufacturing Base and Competitors
- Table 39. RLS Major Business
- Table 40. RLS Humanoid Robot Encoder Product and Services
- Table 41. RLS Humanoid Robot Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 42. RLS Recent Developments/Updates
- Table 43. Dynapar Basic Information, Manufacturing Base and Competitors
- Table 44. Dynapar Major Business
- Table 45. Dynapar Humanoid Robot Encoder Product and Services
- Table 46. Dynapar Humanoid Robot Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 47. Dynapar Recent Developments/Updates
- Table 48. Renishaw Basic Information, Manufacturing Base and Competitors
- Table 49. Renishaw Major Business
- Table 50. Renishaw Humanoid Robot Encoder Product and Services
- Table 51. Renishaw Humanoid Robot Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 52. Renishaw Recent Developments/Updates
- Table 53. Gongwang Electronics Basic Information, Manufacturing Base and Competitors
- Table 54. Gongwang Electronics Major Business
- Table 55. Gongwang Electronics Humanoid Robot Encoder Product and Services
- Table 56. Gongwang Electronics Humanoid Robot Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 57. Gongwang Electronics Recent Developments/Updates

- Table 58. Opp Optoelectronics (Yuheng Optics) Basic Information, Manufacturing Base and Competitors
- Table 59. Opp Optoelectronics (Yuheng Optics) Major Business
- Table 60. Opp Optoelectronics (Yuheng Optics) Humanoid Robot Encoder Product and Services
- Table 61. Opp Optoelectronics (Yuheng Optics) Humanoid Robot Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 62. Opp Optoelectronics (Yuheng Optics) Recent Developments/Updates
- Table 63. Hechuan Technology Basic Information, Manufacturing Base and Competitors
- Table 64. Hechuan Technology Major Business
- Table 65. Hechuan Technology Humanoid Robot Encoder Product and Services
- Table 66. Hechuan Technology Humanoid Robot Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 67. Hechuan Technology Recent Developments/Updates
- Table 68. Haozhi Electromechanical Basic Information, Manufacturing Base and Competitors
- Table 69. Haozhi Electromechanical Major Business
- Table 70. Haozhi Electromechanical Humanoid Robot Encoder Product and Services
- Table 71. Haozhi Electromechanical Humanoid Robot Encoder Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 72. Haozhi Electromechanical Recent Developments/Updates
- Table 73. Global Humanoid Robot Encoder Sales Quantity by Manufacturer (2020-2025) & (K Units)
- Table 74. Global Humanoid Robot Encoder Revenue by Manufacturer (2020-2025) & (USD Million)
- Table 75. Global Humanoid Robot Encoder Average Price by Manufacturer (2020-2025) & (US\$/Unit)
- Table 76. Market Position of Manufacturers in Humanoid Robot Encoder, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024
- Table 77. Head Office and Humanoid Robot Encoder Production Site of Key Manufacturer
- Table 78. Humanoid Robot Encoder Market: Company Product Type Footprint
- Table 79. Humanoid Robot Encoder Market: Company Product Application Footprint
- Table 80. Humanoid Robot Encoder New Market Entrants and Barriers to Market Entry
- Table 81. Humanoid Robot Encoder Mergers, Acquisition, Agreements, and Collaborations

Table 82. Global Humanoid Robot Encoder Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 83. Global Humanoid Robot Encoder Sales Quantity by Region (2020-2025) & (K Units)

Table 84. Global Humanoid Robot Encoder Sales Quantity by Region (2026-2031) & (K Units)

Table 85. Global Humanoid Robot Encoder Consumption Value by Region (2020-2025) & (USD Million)

Table 86. Global Humanoid Robot Encoder Consumption Value by Region (2026-2031) & (USD Million)

Table 87. Global Humanoid Robot Encoder Average Price by Region (2020-2025) & (US\$/Unit)

Table 88. Global Humanoid Robot Encoder Average Price by Region (2026-2031) & (US\$/Unit)

Table 89. Global Humanoid Robot Encoder Sales Quantity by Type (2020-2025) & (K Units)

Table 90. Global Humanoid Robot Encoder Sales Quantity by Type (2026-2031) & (K Units)

Table 91. Global Humanoid Robot Encoder Consumption Value by Type (2020-2025) & (USD Million)

Table 92. Global Humanoid Robot Encoder Consumption Value by Type (2026-2031) & (USD Million)

Table 93. Global Humanoid Robot Encoder Average Price by Type (2020-2025) & (US\$/Unit)

Table 94. Global Humanoid Robot Encoder Average Price by Type (2026-2031) & (US\$/Unit)

Table 95. Global Humanoid Robot Encoder Sales Quantity by Application (2020-2025) & (K Units)

Table 96. Global Humanoid Robot Encoder Sales Quantity by Application (2026-2031) & (K Units)

Table 97. Global Humanoid Robot Encoder Consumption Value by Application (2020-2025) & (USD Million)

Table 98. Global Humanoid Robot Encoder Consumption Value by Application (2026-2031) & (USD Million)

Table 99. Global Humanoid Robot Encoder Average Price by Application (2020-2025) & (US\$/Unit)

Table 100. Global Humanoid Robot Encoder Average Price by Application (2026-2031) & (US\$/Unit)

Table 101. North America Humanoid Robot Encoder Sales Quantity by Type

(2020-2025) & (K Units)

Table 102. North America Humanoid Robot Encoder Sales Quantity by Type

(2026-2031) & (K Units)

Table 103. North America Humanoid Robot Encoder Sales Quantity by Application

(2020-2025) & (K Units)

Table 104. North America Humanoid Robot Encoder Sales Quantity by Application

(2026-2031) & (K Units)

Table 105. North America Humanoid Robot Encoder Sales Quantity by Country

(2020-2025) & (K Units)

Table 106. North America Humanoid Robot Encoder Sales Quantity by Country

(2026-2031) & (K Units)

Table 107. North America Humanoid Robot Encoder Consumption Value by Country

(2020-2025) & (USD Million)

Table 108. North America Humanoid Robot Encoder Consumption Value by Country

(2026-2031) & (USD Million)

Table 109. Europe Humanoid Robot Encoder Sales Quantity by Type (2020-2025) & (K Units)

Table 110. Europe Humanoid Robot Encoder Sales Quantity by Type (2026-2031) & (K Units)

Table 111. Europe Humanoid Robot Encoder Sales Quantity by Application

(2020-2025) & (K Units)

Table 112. Europe Humanoid Robot Encoder Sales Quantity by Application

(2026-2031) & (K Units)

Table 113. Europe Humanoid Robot Encoder Sales Quantity by Country (2020-2025) & (K Units)

Table 114. Europe Humanoid Robot Encoder Sales Quantity by Country (2026-2031) & (K Units)

Table 115. Europe Humanoid Robot Encoder Consumption Value by Country

(2020-2025) & (USD Million)

Table 116. Europe Humanoid Robot Encoder Consumption Value by Country

(2026-2031) & (USD Million)

Table 117. Asia-Pacific Humanoid Robot Encoder Sales Quantity by Type (2020-2025) & (K Units)

Table 118. Asia-Pacific Humanoid Robot Encoder Sales Quantity by Type (2026-2031) & (K Units)

Table 119. Asia-Pacific Humanoid Robot Encoder Sales Quantity by Application

(2020-2025) & (K Units)

Table 120. Asia-Pacific Humanoid Robot Encoder Sales Quantity by Application

(2026-2031) & (K Units)

- Table 121. Asia-Pacific Humanoid Robot Encoder Sales Quantity by Region (2020-2025) & (K Units)
- Table 122. Asia-Pacific Humanoid Robot Encoder Sales Quantity by Region (2026-2031) & (K Units)
- Table 123. Asia-Pacific Humanoid Robot Encoder Consumption Value by Region (2020-2025) & (USD Million)
- Table 124. Asia-Pacific Humanoid Robot Encoder Consumption Value by Region (2026-2031) & (USD Million)
- Table 125. South America Humanoid Robot Encoder Sales Quantity by Type (2020-2025) & (K Units)
- Table 126. South America Humanoid Robot Encoder Sales Quantity by Type (2026-2031) & (K Units)
- Table 127. South America Humanoid Robot Encoder Sales Quantity by Application (2020-2025) & (K Units)
- Table 128. South America Humanoid Robot Encoder Sales Quantity by Application (2026-2031) & (K Units)
- Table 129. South America Humanoid Robot Encoder Sales Quantity by Country (2020-2025) & (K Units)
- Table 130. South America Humanoid Robot Encoder Sales Quantity by Country (2026-2031) & (K Units)
- Table 131. South America Humanoid Robot Encoder Consumption Value by Country (2020-2025) & (USD Million)
- Table 132. South America Humanoid Robot Encoder Consumption Value by Country (2026-2031) & (USD Million)
- Table 133. Middle East & Africa Humanoid Robot Encoder Sales Quantity by Type (2020-2025) & (K Units)
- Table 134. Middle East & Africa Humanoid Robot Encoder Sales Quantity by Type (2026-2031) & (K Units)
- Table 135. Middle East & Africa Humanoid Robot Encoder Sales Quantity by Application (2020-2025) & (K Units)
- Table 136. Middle East & Africa Humanoid Robot Encoder Sales Quantity by Application (2026-2031) & (K Units)
- Table 137. Middle East & Africa Humanoid Robot Encoder Sales Quantity by Country (2020-2025) & (K Units)
- Table 138. Middle East & Africa Humanoid Robot Encoder Sales Quantity by Country (2026-2031) & (K Units)
- Table 139. Middle East & Africa Humanoid Robot Encoder Consumption Value by Country (2020-2025) & (USD Million)
- Table 140. Middle East & Africa Humanoid Robot Encoder Consumption Value by

Country (2026-2031) & (USD Million)

Table 141. Humanoid Robot Encoder Raw Material

Table 142. Key Manufacturers of Humanoid Robot Encoder Raw Materials

Table 143. Humanoid Robot Encoder Typical Distributors

Table 144. Humanoid Robot Encoder Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Humanoid Robot Encoder Picture

Figure 2. Global Humanoid Robot Encoder Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Humanoid Robot Encoder Revenue Market Share by Type in 2024

Figure 4. Absolute Encoder Examples

Figure 5. Incremental Encoder Examples

Figure 6. Global Humanoid Robot Encoder Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 7. Global Humanoid Robot Encoder Revenue Market Share by Application in 2024

Figure 8. Joint Position Control Examples

Figure 9. Motion Capture and Feedback Examples

Figure 10. Motion Trajectory Planning Examples

Figure 11. Global Humanoid Robot Encoder Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 12. Global Humanoid Robot Encoder Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 13. Global Humanoid Robot Encoder Sales Quantity (2020-2031) & (K Units)

Figure 14. Global Humanoid Robot Encoder Price (2020-2031) & (US\$/Unit)

Figure 15. Global Humanoid Robot Encoder Sales Quantity Market Share by Manufacturer in 2024

Figure 16. Global Humanoid Robot Encoder Revenue Market Share by Manufacturer in 2024

Figure 17. Producer Shipments of Humanoid Robot Encoder by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 18. Top 3 Humanoid Robot Encoder Manufacturer (Revenue) Market Share in 2024

Figure 19. Top 6 Humanoid Robot Encoder Manufacturer (Revenue) Market Share in 2024

Figure 20. Global Humanoid Robot Encoder Sales Quantity Market Share by Region (2020-2031)

Figure 21. Global Humanoid Robot Encoder Consumption Value Market Share by Region (2020-2031)

Figure 22. North America Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)

Figure 23. Europe Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)

Figure 24. Asia-Pacific Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)

Figure 25. South America Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)

Figure 26. Middle East & Africa Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)

Figure 27. Global Humanoid Robot Encoder Sales Quantity Market Share by Type (2020-2031)

Figure 28. Global Humanoid Robot Encoder Consumption Value Market Share by Type (2020-2031)

Figure 29. Global Humanoid Robot Encoder Average Price by Type (2020-2031) & (US\$/Unit)

Figure 30. Global Humanoid Robot Encoder Sales Quantity Market Share by Application (2020-2031)

Figure 31. Global Humanoid Robot Encoder Revenue Market Share by Application (2020-2031)

Figure 32. Global Humanoid Robot Encoder Average Price by Application (2020-2031) & (US\$/Unit)

Figure 33. North America Humanoid Robot Encoder Sales Quantity Market Share by Type (2020-2031)

Figure 34. North America Humanoid Robot Encoder Sales Quantity Market Share by Application (2020-2031)

Figure 35. North America Humanoid Robot Encoder Sales Quantity Market Share by Country (2020-2031)

Figure 36. North America Humanoid Robot Encoder Consumption Value Market Share by Country (2020-2031)

Figure 37. United States Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)

Figure 38. Canada Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)

Figure 39. Mexico Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)

Figure 40. Europe Humanoid Robot Encoder Sales Quantity Market Share by Type (2020-2031)

Figure 41. Europe Humanoid Robot Encoder Sales Quantity Market Share by Application (2020-2031)

Figure 42. Europe Humanoid Robot Encoder Sales Quantity Market Share by Country

(2020-2031)

Figure 43. Europe Humanoid Robot Encoder Consumption Value Market Share by Country (2020-2031)

Figure 44. Germany Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)

Figure 45. France Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)

Figure 46. United Kingdom Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)

Figure 47. Russia Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)

Figure 48. Italy Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)

Figure 49. Asia-Pacific Humanoid Robot Encoder Sales Quantity Market Share by Type (2020-2031)

Figure 50. Asia-Pacific Humanoid Robot Encoder Sales Quantity Market Share by Application (2020-2031)

Figure 51. Asia-Pacific Humanoid Robot Encoder Sales Quantity Market Share by Region (2020-2031)

Figure 52. Asia-Pacific Humanoid Robot Encoder Consumption Value Market Share by Region (2020-2031)

Figure 53. China Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)

Figure 54. Japan Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)

Figure 55. South Korea Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)

Figure 56. India Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)

Figure 57. Southeast Asia Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)

Figure 58. Australia Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)

Figure 59. South America Humanoid Robot Encoder Sales Quantity Market Share by Type (2020-2031)

Figure 60. South America Humanoid Robot Encoder Sales Quantity Market Share by Application (2020-2031)

Figure 61. South America Humanoid Robot Encoder Sales Quantity Market Share by Country (2020-2031)

- Figure 62. South America Humanoid Robot Encoder Consumption Value Market Share by Country (2020-2031)
- Figure 63. Brazil Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)
- Figure 64. Argentina Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)
- Figure 65. Middle East & Africa Humanoid Robot Encoder Sales Quantity Market Share by Type (2020-2031)
- Figure 66. Middle East & Africa Humanoid Robot Encoder Sales Quantity Market Share by Application (2020-2031)
- Figure 67. Middle East & Africa Humanoid Robot Encoder Sales Quantity Market Share by Country (2020-2031)
- Figure 68. Middle East & Africa Humanoid Robot Encoder Consumption Value Market Share by Country (2020-2031)
- Figure 69. Turkey Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)
- Figure 70. Egypt Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)
- Figure 71. Saudi Arabia Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)
- Figure 72. South Africa Humanoid Robot Encoder Consumption Value (2020-2031) & (USD Million)
- Figure 73. Humanoid Robot Encoder Market Drivers
- Figure 74. Humanoid Robot Encoder Market Restraints
- Figure 75. Humanoid Robot Encoder Market Trends
- Figure 76. Porters Five Forces Analysis
- Figure 77. Manufacturing Cost Structure Analysis of Humanoid Robot Encoder in 2024
- Figure 78. Manufacturing Process Analysis of Humanoid Robot Encoder
- Figure 79. Humanoid Robot Encoder Industrial Chain
- Figure 80. Sales Channel: Direct to End-User vs Distributors
- Figure 81. Direct Channel Pros & Cons
- Figure 82. Indirect Channel Pros & Cons
- Figure 83. Methodology
- Figure 84. Research Process and Data Source

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