

Global Robot Frameless Torque Motor 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 Robot Frameless Torque Motor market size was valued at US\$ 417 million in 2024 and is forecast to a readjusted size of USD 1086 million by 2031 with a CAGR of 14.9% during review period.

A frameless torque motor for robots is a critical component used to provide high-performance motion control for robotic systems, particularly in applications where precision, smooth motion, and compactness are required. Since these motors don't have an external frame, they can be integrated directly into the robot's structure, making them ideal for robotic arms, joints, and actuators.

This report is a detailed and comprehensive analysis for global Robot Frameless Torque Motor 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 Robot Frameless Torque Motor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Robot Frameless Torque Motor 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 Robot Frameless Torque Motor 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 Robot Frameless Torque Motor 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 Robot Frameless Torque Motor

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 Robot Frameless Torque Motor 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 Kollmorgen, Tecnotion, ETEL, Moog, Parker Hannifin, Siemens, Akribis Systems, WITTENSTEIN cyber motor GmbH, HIWIN Technologies, Celera Motion, etc.

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

Market Segmentation

Robot Frameless Torque Motor 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

Inner Rotor Type

Outer Rotor Type

Market segment by Application

Service Robots

Industrial Robots

Humanoid Robots

Major players covered

Kollmorgen

Tecnotion

ETEL

Moog

Parker Hannifin

Siemens

Akribis Systems

WITTENSTEIN cyber motor GmbH

HIWIN Technologies

Celera Motion

INA - Drives & Mechatronics

Aerotech

Baumüller

Magnetic Innovations

Allied Motion

Shenzhen Kinco

Guangzhou Haozhi Industrial Co., LTD.

VEICHI

Jiangnan Yifan Motor

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 Robot Frameless Torque Motor product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Robot Frameless Torque Motor 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 Robot Frameless Torque Motor 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 Robot Frameless Torque Motor.

Chapter 14 and 15, to describe Robot Frameless Torque Motor 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 Robot Frameless Torque Motor Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 Inner Rotor Type

1.3.3 Outer Rotor Type

1.4 Market Analysis by Application

1.4.1 Overview: Global Robot Frameless Torque Motor Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Service Robots

1.4.3 Industrial Robots

1.4.4 Humanoid Robots

1.5 Global Robot Frameless Torque Motor Market Size & Forecast

1.5.1 Global Robot Frameless Torque Motor Consumption Value (2020 & 2024 & 2031)

1.5.2 Global Robot Frameless Torque Motor Sales Quantity (2020-2031)

1.5.3 Global Robot Frameless Torque Motor Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 Kollmorgen

2.1.1 Kollmorgen Details

2.1.2 Kollmorgen Major Business

2.1.3 Kollmorgen Robot Frameless Torque Motor Product and Services

2.1.4 Kollmorgen Robot Frameless Torque Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 Kollmorgen Recent Developments/Updates

2.2 Tecnotion

2.2.1 Tecnotion Details

2.2.2 Tecnotion Major Business

2.2.3 Tecnotion Robot Frameless Torque Motor Product and Services

2.2.4 Tecnotion Robot Frameless Torque Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.2.5 Tecnotion Recent Developments/Updates

2.3 ETEL

2.3.1 ETEL Details

2.3.2 ETEL Major Business

2.3.3 ETEL Robot Frameless Torque Motor Product and Services

2.3.4 ETEL Robot Frameless Torque Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.3.5 ETEL Recent Developments/Updates

2.4 Moog

2.4.1 Moog Details

2.4.2 Moog Major Business

2.4.3 Moog Robot Frameless Torque Motor Product and Services

2.4.4 Moog Robot Frameless Torque Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.4.5 Moog Recent Developments/Updates

2.5 Parker Hannifin

2.5.1 Parker Hannifin Details

2.5.2 Parker Hannifin Major Business

2.5.3 Parker Hannifin Robot Frameless Torque Motor Product and Services

2.5.4 Parker Hannifin Robot Frameless Torque Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.5.5 Parker Hannifin Recent Developments/Updates

2.6 Siemens

2.6.1 Siemens Details

2.6.2 Siemens Major Business

2.6.3 Siemens Robot Frameless Torque Motor Product and Services

2.6.4 Siemens Robot Frameless Torque Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.6.5 Siemens Recent Developments/Updates

2.7 Akribis Systems

2.7.1 Akribis Systems Details

2.7.2 Akribis Systems Major Business

2.7.3 Akribis Systems Robot Frameless Torque Motor Product and Services

2.7.4 Akribis Systems Robot Frameless Torque Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.7.5 Akribis Systems Recent Developments/Updates

2.8 WITTENSTEIN cyber motor GmbH

2.8.1 WITTENSTEIN cyber motor GmbH Details

2.8.2 WITTENSTEIN cyber motor GmbH Major Business

2.8.3 WITTENSTEIN cyber motor GmbH Robot Frameless Torque Motor Product and

Services

2.8.4 WITTENSTEIN cyber motor GmbH Robot Frameless Torque Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.8.5 WITTENSTEIN cyber motor GmbH Recent Developments/Updates

2.9 HIWIN Technologies

2.9.1 HIWIN Technologies Details

2.9.2 HIWIN Technologies Major Business

2.9.3 HIWIN Technologies Robot Frameless Torque Motor Product and Services

2.9.4 HIWIN Technologies Robot Frameless Torque Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.9.5 HIWIN Technologies Recent Developments/Updates

2.10 Celera Motion

2.10.1 Celera Motion Details

2.10.2 Celera Motion Major Business

2.10.3 Celera Motion Robot Frameless Torque Motor Product and Services

2.10.4 Celera Motion Robot Frameless Torque Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.10.5 Celera Motion Recent Developments/Updates

2.11 INA - Drives & Mechatronics

2.11.1 INA - Drives & Mechatronics Details

2.11.2 INA - Drives & Mechatronics Major Business

2.11.3 INA - Drives & Mechatronics Robot Frameless Torque Motor Product and

Services

2.11.4 INA - Drives & Mechatronics Robot Frameless Torque Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.11.5 INA - Drives & Mechatronics Recent Developments/Updates

2.12 Aerotech

2.12.1 Aerotech Details

2.12.2 Aerotech Major Business

2.12.3 Aerotech Robot Frameless Torque Motor Product and Services

2.12.4 Aerotech Robot Frameless Torque Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.12.5 Aerotech Recent Developments/Updates

2.13 Baumüller

2.13.1 Baumüller Details

2.13.2 Baumüller Major Business

2.13.3 Baumüller Robot Frameless Torque Motor Product and Services

2.13.4 Baumüller Robot Frameless Torque Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

- 2.13.5 Baumüller Recent Developments/Updates
- 2.14 Magnetic Innovations
 - 2.14.1 Magnetic Innovations Details
 - 2.14.2 Magnetic Innovations Major Business
 - 2.14.3 Magnetic Innovations Robot Frameless Torque Motor Product and Services
 - 2.14.4 Magnetic Innovations Robot Frameless Torque Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.14.5 Magnetic Innovations Recent Developments/Updates
- 2.15 Allied Motion
 - 2.15.1 Allied Motion Details
 - 2.15.2 Allied Motion Major Business
 - 2.15.3 Allied Motion Robot Frameless Torque Motor Product and Services
 - 2.15.4 Allied Motion Robot Frameless Torque Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.15.5 Allied Motion Recent Developments/Updates
- 2.16 Shenzhen Kinco
 - 2.16.1 Shenzhen Kinco Details
 - 2.16.2 Shenzhen Kinco Major Business
 - 2.16.3 Shenzhen Kinco Robot Frameless Torque Motor Product and Services
 - 2.16.4 Shenzhen Kinco Robot Frameless Torque Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.16.5 Shenzhen Kinco Recent Developments/Updates
- 2.17 Guangzhou Haozhi Industrial Co., LTD.
 - 2.17.1 Guangzhou Haozhi Industrial Co., LTD. Details
 - 2.17.2 Guangzhou Haozhi Industrial Co., LTD. Major Business
 - 2.17.3 Guangzhou Haozhi Industrial Co., LTD. Robot Frameless Torque Motor Product and Services
 - 2.17.4 Guangzhou Haozhi Industrial Co., LTD. Robot Frameless Torque Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.17.5 Guangzhou Haozhi Industrial Co., LTD. Recent Developments/Updates
- 2.18 VEICHI
 - 2.18.1 VEICHI Details
 - 2.18.2 VEICHI Major Business
 - 2.18.3 VEICHI Robot Frameless Torque Motor Product and Services
 - 2.18.4 VEICHI Robot Frameless Torque Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.18.5 VEICHI Recent Developments/Updates
- 2.19 Jiangnan Yifan Motor
 - 2.19.1 Jiangnan Yifan Motor Details

- 2.19.2 Jiangnan Yifan Motor Major Business
- 2.19.3 Jiangnan Yifan Motor Robot Frameless Torque Motor Product and Services
- 2.19.4 Jiangnan Yifan Motor Robot Frameless Torque Motor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.19.5 Jiangnan Yifan Motor Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: ROBOT FRAMELESS TORQUE MOTOR BY MANUFACTURER

- 3.1 Global Robot Frameless Torque Motor Sales Quantity by Manufacturer (2020-2025)
- 3.2 Global Robot Frameless Torque Motor Revenue by Manufacturer (2020-2025)
- 3.3 Global Robot Frameless Torque Motor Average Price by Manufacturer (2020-2025)
- 3.4 Market Share Analysis (2024)
 - 3.4.1 Producer Shipments of Robot Frameless Torque Motor by Manufacturer Revenue (\$MM) and Market Share (%): 2024
 - 3.4.2 Top 3 Robot Frameless Torque Motor Manufacturer Market Share in 2024
 - 3.4.3 Top 6 Robot Frameless Torque Motor Manufacturer Market Share in 2024
- 3.5 Robot Frameless Torque Motor Market: Overall Company Footprint Analysis
 - 3.5.1 Robot Frameless Torque Motor Market: Region Footprint
 - 3.5.2 Robot Frameless Torque Motor Market: Company Product Type Footprint
 - 3.5.3 Robot Frameless Torque Motor 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 Robot Frameless Torque Motor Market Size by Region
 - 4.1.1 Global Robot Frameless Torque Motor Sales Quantity by Region (2020-2031)
 - 4.1.2 Global Robot Frameless Torque Motor Consumption Value by Region (2020-2031)
 - 4.1.3 Global Robot Frameless Torque Motor Average Price by Region (2020-2031)
- 4.2 North America Robot Frameless Torque Motor Consumption Value (2020-2031)
- 4.3 Europe Robot Frameless Torque Motor Consumption Value (2020-2031)
- 4.4 Asia-Pacific Robot Frameless Torque Motor Consumption Value (2020-2031)
- 4.5 South America Robot Frameless Torque Motor Consumption Value (2020-2031)
- 4.6 Middle East & Africa Robot Frameless Torque Motor Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Robot Frameless Torque Motor Sales Quantity by Type (2020-2031)
- 5.2 Global Robot Frameless Torque Motor Consumption Value by Type (2020-2031)
- 5.3 Global Robot Frameless Torque Motor Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Robot Frameless Torque Motor Sales Quantity by Application (2020-2031)
- 6.2 Global Robot Frameless Torque Motor Consumption Value by Application (2020-2031)
- 6.3 Global Robot Frameless Torque Motor Average Price by Application (2020-2031)

7 NORTH AMERICA

- 7.1 North America Robot Frameless Torque Motor Sales Quantity by Type (2020-2031)
- 7.2 North America Robot Frameless Torque Motor Sales Quantity by Application (2020-2031)
- 7.3 North America Robot Frameless Torque Motor Market Size by Country
 - 7.3.1 North America Robot Frameless Torque Motor Sales Quantity by Country (2020-2031)
 - 7.3.2 North America Robot Frameless Torque Motor 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 Robot Frameless Torque Motor Sales Quantity by Type (2020-2031)
- 8.2 Europe Robot Frameless Torque Motor Sales Quantity by Application (2020-2031)
- 8.3 Europe Robot Frameless Torque Motor Market Size by Country
 - 8.3.1 Europe Robot Frameless Torque Motor Sales Quantity by Country (2020-2031)
 - 8.3.2 Europe Robot Frameless Torque Motor 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 Robot Frameless Torque Motor Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific Robot Frameless Torque Motor Sales Quantity by Application (2020-2031)

9.3 Asia-Pacific Robot Frameless Torque Motor Market Size by Region

9.3.1 Asia-Pacific Robot Frameless Torque Motor Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific Robot Frameless Torque Motor 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 Robot Frameless Torque Motor Sales Quantity by Type (2020-2031)

10.2 South America Robot Frameless Torque Motor Sales Quantity by Application (2020-2031)

10.3 South America Robot Frameless Torque Motor Market Size by Country

10.3.1 South America Robot Frameless Torque Motor Sales Quantity by Country (2020-2031)

10.3.2 South America Robot Frameless Torque Motor 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 Robot Frameless Torque Motor Sales Quantity by Type (2020-2031)

11.2 Middle East & Africa Robot Frameless Torque Motor Sales Quantity by Application (2020-2031)

11.3 Middle East & Africa Robot Frameless Torque Motor Market Size by Country

11.3.1 Middle East & Africa Robot Frameless Torque Motor Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa Robot Frameless Torque Motor 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 Robot Frameless Torque Motor Market Drivers

12.2 Robot Frameless Torque Motor Market Restraints

12.3 Robot Frameless Torque Motor 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 Robot Frameless Torque Motor and Key Manufacturers

13.2 Manufacturing Costs Percentage of Robot Frameless Torque Motor

13.3 Robot Frameless Torque Motor 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 Robot Frameless Torque Motor Typical Distributors

14.3 Robot Frameless Torque Motor 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 Robot Frameless Torque Motor Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Robot Frameless Torque Motor Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Kollmorgen Basic Information, Manufacturing Base and Competitors

Table 4. Kollmorgen Major Business

Table 5. Kollmorgen Robot Frameless Torque Motor Product and Services

Table 6. Kollmorgen Robot Frameless Torque Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Kollmorgen Recent Developments/Updates

Table 8. Tecnotion Basic Information, Manufacturing Base and Competitors

Table 9. Tecnotion Major Business

Table 10. Tecnotion Robot Frameless Torque Motor Product and Services

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

Table 12. Tecnotion Recent Developments/Updates

Table 13. ETEL Basic Information, Manufacturing Base and Competitors

Table 14. ETEL Major Business

Table 15. ETEL Robot Frameless Torque Motor Product and Services

Table 16. ETEL Robot Frameless Torque Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. ETEL Recent Developments/Updates

Table 18. Moog Basic Information, Manufacturing Base and Competitors

Table 19. Moog Major Business

Table 20. Moog Robot Frameless Torque Motor Product and Services

Table 21. Moog Robot Frameless Torque Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Moog Recent Developments/Updates

Table 23. Parker Hannifin Basic Information, Manufacturing Base and Competitors

Table 24. Parker Hannifin Major Business

Table 25. Parker Hannifin Robot Frameless Torque Motor Product and Services

Table 26. Parker Hannifin Robot Frameless Torque Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Parker Hannifin Recent Developments/Updates

- Table 28. Siemens Basic Information, Manufacturing Base and Competitors
- Table 29. Siemens Major Business
- Table 30. Siemens Robot Frameless Torque Motor Product and Services
- Table 31. Siemens Robot Frameless Torque Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 32. Siemens Recent Developments/Updates
- Table 33. Akribis Systems Basic Information, Manufacturing Base and Competitors
- Table 34. Akribis Systems Major Business
- Table 35. Akribis Systems Robot Frameless Torque Motor Product and Services
- Table 36. Akribis Systems Robot Frameless Torque Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 37. Akribis Systems Recent Developments/Updates
- Table 38. WITTENSTEIN cyber motor GmbH Basic Information, Manufacturing Base and Competitors
- Table 39. WITTENSTEIN cyber motor GmbH Major Business
- Table 40. WITTENSTEIN cyber motor GmbH Robot Frameless Torque Motor Product and Services
- Table 41. WITTENSTEIN cyber motor GmbH Robot Frameless Torque Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 42. WITTENSTEIN cyber motor GmbH Recent Developments/Updates
- Table 43. HIWIN Technologies Basic Information, Manufacturing Base and Competitors
- Table 44. HIWIN Technologies Major Business
- Table 45. HIWIN Technologies Robot Frameless Torque Motor Product and Services
- Table 46. HIWIN Technologies Robot Frameless Torque Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 47. HIWIN Technologies Recent Developments/Updates
- Table 48. Celera Motion Basic Information, Manufacturing Base and Competitors
- Table 49. Celera Motion Major Business
- Table 50. Celera Motion Robot Frameless Torque Motor Product and Services
- Table 51. Celera Motion Robot Frameless Torque Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 52. Celera Motion Recent Developments/Updates
- Table 53. INA - Drives & Mechatronics Basic Information, Manufacturing Base and Competitors
- Table 54. INA - Drives & Mechatronics Major Business

Table 55. INA - Drives & Mechatronics Robot Frameless Torque Motor Product and Services

Table 56. INA - Drives & Mechatronics Robot Frameless Torque Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 57. INA - Drives & Mechatronics Recent Developments/Updates

Table 58. Aerotech Basic Information, Manufacturing Base and Competitors

Table 59. Aerotech Major Business

Table 60. Aerotech Robot Frameless Torque Motor Product and Services

Table 61. Aerotech Robot Frameless Torque Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 62. Aerotech Recent Developments/Updates

Table 63. Baum?ller Basic Information, Manufacturing Base and Competitors

Table 64. Baum?ller Major Business

Table 65. Baum?ller Robot Frameless Torque Motor Product and Services

Table 66. Baum?ller Robot Frameless Torque Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 67. Baum?ller Recent Developments/Updates

Table 68. Magnetic Innovations Basic Information, Manufacturing Base and Competitors

Table 69. Magnetic Innovations Major Business

Table 70. Magnetic Innovations Robot Frameless Torque Motor Product and Services

Table 71. Magnetic Innovations Robot Frameless Torque Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 72. Magnetic Innovations Recent Developments/Updates

Table 73. Allied Motion Basic Information, Manufacturing Base and Competitors

Table 74. Allied Motion Major Business

Table 75. Allied Motion Robot Frameless Torque Motor Product and Services

Table 76. Allied Motion Robot Frameless Torque Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 77. Allied Motion Recent Developments/Updates

Table 78. Shenzhen Kinco Basic Information, Manufacturing Base and Competitors

Table 79. Shenzhen Kinco Major Business

Table 80. Shenzhen Kinco Robot Frameless Torque Motor Product and Services

Table 81. Shenzhen Kinco Robot Frameless Torque Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 82. Shenzhen Kinco Recent Developments/Updates

- Table 83. Guangzhou Haozhi Industrial Co., LTD. Basic Information, Manufacturing Base and Competitors
- Table 84. Guangzhou Haozhi Industrial Co., LTD. Major Business
- Table 85. Guangzhou Haozhi Industrial Co., LTD. Robot Frameless Torque Motor Product and Services
- Table 86. Guangzhou Haozhi Industrial Co., LTD. Robot Frameless Torque Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 87. Guangzhou Haozhi Industrial Co., LTD. Recent Developments/Updates
- Table 88. VEICHI Basic Information, Manufacturing Base and Competitors
- Table 89. VEICHI Major Business
- Table 90. VEICHI Robot Frameless Torque Motor Product and Services
- Table 91. VEICHI Robot Frameless Torque Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 92. VEICHI Recent Developments/Updates
- Table 93. Jiangnan Yifan Motor Basic Information, Manufacturing Base and Competitors
- Table 94. Jiangnan Yifan Motor Major Business
- Table 95. Jiangnan Yifan Motor Robot Frameless Torque Motor Product and Services
- Table 96. Jiangnan Yifan Motor Robot Frameless Torque Motor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
- Table 97. Jiangnan Yifan Motor Recent Developments/Updates
- Table 98. Global Robot Frameless Torque Motor Sales Quantity by Manufacturer (2020-2025) & (K Units)
- Table 99. Global Robot Frameless Torque Motor Revenue by Manufacturer (2020-2025) & (USD Million)
- Table 100. Global Robot Frameless Torque Motor Average Price by Manufacturer (2020-2025) & (US\$/Unit)
- Table 101. Market Position of Manufacturers in Robot Frameless Torque Motor, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024
- Table 102. Head Office and Robot Frameless Torque Motor Production Site of Key Manufacturer
- Table 103. Robot Frameless Torque Motor Market: Company Product Type Footprint
- Table 104. Robot Frameless Torque Motor Market: Company Product Application Footprint
- Table 105. Robot Frameless Torque Motor New Market Entrants and Barriers to Market Entry
- Table 106. Robot Frameless Torque Motor Mergers, Acquisition, Agreements, and Collaborations

Table 107. Global Robot Frameless Torque Motor Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 108. Global Robot Frameless Torque Motor Sales Quantity by Region (2020-2025) & (K Units)

Table 109. Global Robot Frameless Torque Motor Sales Quantity by Region (2026-2031) & (K Units)

Table 110. Global Robot Frameless Torque Motor Consumption Value by Region (2020-2025) & (USD Million)

Table 111. Global Robot Frameless Torque Motor Consumption Value by Region (2026-2031) & (USD Million)

Table 112. Global Robot Frameless Torque Motor Average Price by Region (2020-2025) & (US\$/Unit)

Table 113. Global Robot Frameless Torque Motor Average Price by Region (2026-2031) & (US\$/Unit)

Table 114. Global Robot Frameless Torque Motor Sales Quantity by Type (2020-2025) & (K Units)

Table 115. Global Robot Frameless Torque Motor Sales Quantity by Type (2026-2031) & (K Units)

Table 116. Global Robot Frameless Torque Motor Consumption Value by Type (2020-2025) & (USD Million)

Table 117. Global Robot Frameless Torque Motor Consumption Value by Type (2026-2031) & (USD Million)

Table 118. Global Robot Frameless Torque Motor Average Price by Type (2020-2025) & (US\$/Unit)

Table 119. Global Robot Frameless Torque Motor Average Price by Type (2026-2031) & (US\$/Unit)

Table 120. Global Robot Frameless Torque Motor Sales Quantity by Application (2020-2025) & (K Units)

Table 121. Global Robot Frameless Torque Motor Sales Quantity by Application (2026-2031) & (K Units)

Table 122. Global Robot Frameless Torque Motor Consumption Value by Application (2020-2025) & (USD Million)

Table 123. Global Robot Frameless Torque Motor Consumption Value by Application (2026-2031) & (USD Million)

Table 124. Global Robot Frameless Torque Motor Average Price by Application (2020-2025) & (US\$/Unit)

Table 125. Global Robot Frameless Torque Motor Average Price by Application (2026-2031) & (US\$/Unit)

Table 126. North America Robot Frameless Torque Motor Sales Quantity by Type

(2020-2025) & (K Units)

Table 127. North America Robot Frameless Torque Motor Sales Quantity by Type (2026-2031) & (K Units)

Table 128. North America Robot Frameless Torque Motor Sales Quantity by Application (2020-2025) & (K Units)

Table 129. North America Robot Frameless Torque Motor Sales Quantity by Application (2026-2031) & (K Units)

Table 130. North America Robot Frameless Torque Motor Sales Quantity by Country (2020-2025) & (K Units)

Table 131. North America Robot Frameless Torque Motor Sales Quantity by Country (2026-2031) & (K Units)

Table 132. North America Robot Frameless Torque Motor Consumption Value by Country (2020-2025) & (USD Million)

Table 133. North America Robot Frameless Torque Motor Consumption Value by Country (2026-2031) & (USD Million)

Table 134. Europe Robot Frameless Torque Motor Sales Quantity by Type (2020-2025) & (K Units)

Table 135. Europe Robot Frameless Torque Motor Sales Quantity by Type (2026-2031) & (K Units)

Table 136. Europe Robot Frameless Torque Motor Sales Quantity by Application (2020-2025) & (K Units)

Table 137. Europe Robot Frameless Torque Motor Sales Quantity by Application (2026-2031) & (K Units)

Table 138. Europe Robot Frameless Torque Motor Sales Quantity by Country (2020-2025) & (K Units)

Table 139. Europe Robot Frameless Torque Motor Sales Quantity by Country (2026-2031) & (K Units)

Table 140. Europe Robot Frameless Torque Motor Consumption Value by Country (2020-2025) & (USD Million)

Table 141. Europe Robot Frameless Torque Motor Consumption Value by Country (2026-2031) & (USD Million)

Table 142. Asia-Pacific Robot Frameless Torque Motor Sales Quantity by Type (2020-2025) & (K Units)

Table 143. Asia-Pacific Robot Frameless Torque Motor Sales Quantity by Type (2026-2031) & (K Units)

Table 144. Asia-Pacific Robot Frameless Torque Motor Sales Quantity by Application (2020-2025) & (K Units)

Table 145. Asia-Pacific Robot Frameless Torque Motor Sales Quantity by Application (2026-2031) & (K Units)

Table 146. Asia-Pacific Robot Frameless Torque Motor Sales Quantity by Region (2020-2025) & (K Units)

Table 147. Asia-Pacific Robot Frameless Torque Motor Sales Quantity by Region (2026-2031) & (K Units)

Table 148. Asia-Pacific Robot Frameless Torque Motor Consumption Value by Region (2020-2025) & (USD Million)

Table 149. Asia-Pacific Robot Frameless Torque Motor Consumption Value by Region (2026-2031) & (USD Million)

Table 150. South America Robot Frameless Torque Motor Sales Quantity by Type (2020-2025) & (K Units)

Table 151. South America Robot Frameless Torque Motor Sales Quantity by Type (2026-2031) & (K Units)

Table 152. South America Robot Frameless Torque Motor Sales Quantity by Application (2020-2025) & (K Units)

Table 153. South America Robot Frameless Torque Motor Sales Quantity by Application (2026-2031) & (K Units)

Table 154. South America Robot Frameless Torque Motor Sales Quantity by Country (2020-2025) & (K Units)

Table 155. South America Robot Frameless Torque Motor Sales Quantity by Country (2026-2031) & (K Units)

Table 156. South America Robot Frameless Torque Motor Consumption Value by Country (2020-2025) & (USD Million)

Table 157. South America Robot Frameless Torque Motor Consumption Value by Country (2026-2031) & (USD Million)

Table 158. Middle East & Africa Robot Frameless Torque Motor Sales Quantity by Type (2020-2025) & (K Units)

Table 159. Middle East & Africa Robot Frameless Torque Motor Sales Quantity by Type (2026-2031) & (K Units)

Table 160. Middle East & Africa Robot Frameless Torque Motor Sales Quantity by Application (2020-2025) & (K Units)

Table 161. Middle East & Africa Robot Frameless Torque Motor Sales Quantity by Application (2026-2031) & (K Units)

Table 162. Middle East & Africa Robot Frameless Torque Motor Sales Quantity by Country (2020-2025) & (K Units)

Table 163. Middle East & Africa Robot Frameless Torque Motor Sales Quantity by Country (2026-2031) & (K Units)

Table 164. Middle East & Africa Robot Frameless Torque Motor Consumption Value by Country (2020-2025) & (USD Million)

Table 165. Middle East & Africa Robot Frameless Torque Motor Consumption Value by

Country (2026-2031) & (USD Million)

Table 166. Robot Frameless Torque Motor Raw Material

Table 167. Key Manufacturers of Robot Frameless Torque Motor Raw Materials

Table 168. Robot Frameless Torque Motor Typical Distributors

Table 169. Robot Frameless Torque Motor Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Robot Frameless Torque Motor Picture

Figure 2. Global Robot Frameless Torque Motor Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Robot Frameless Torque Motor Revenue Market Share by Type in 2024

Figure 4. Inner Rotor Type Examples

Figure 5. Outer Rotor Type Examples

Figure 6. Global Robot Frameless Torque Motor Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 7. Global Robot Frameless Torque Motor Revenue Market Share by Application in 2024

Figure 8. Service Robots Examples

Figure 9. Industrial Robots Examples

Figure 10. Humanoid Robots Examples

Figure 11. Global Robot Frameless Torque Motor Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 12. Global Robot Frameless Torque Motor Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 13. Global Robot Frameless Torque Motor Sales Quantity (2020-2031) & (K Units)

Figure 14. Global Robot Frameless Torque Motor Price (2020-2031) & (US\$/Unit)

Figure 15. Global Robot Frameless Torque Motor Sales Quantity Market Share by Manufacturer in 2024

Figure 16. Global Robot Frameless Torque Motor Revenue Market Share by Manufacturer in 2024

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

Figure 18. Top 3 Robot Frameless Torque Motor Manufacturer (Revenue) Market Share in 2024

Figure 19. Top 6 Robot Frameless Torque Motor Manufacturer (Revenue) Market Share in 2024

Figure 20. Global Robot Frameless Torque Motor Sales Quantity Market Share by Region (2020-2031)

Figure 21. Global Robot Frameless Torque Motor Consumption Value Market Share by Region (2020-2031)

Figure 22. North America Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 23. Europe Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 24. Asia-Pacific Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 25. South America Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 26. Middle East & Africa Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 27. Global Robot Frameless Torque Motor Sales Quantity Market Share by Type (2020-2031)

Figure 28. Global Robot Frameless Torque Motor Consumption Value Market Share by Type (2020-2031)

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

Figure 30. Global Robot Frameless Torque Motor Sales Quantity Market Share by Application (2020-2031)

Figure 31. Global Robot Frameless Torque Motor Revenue Market Share by Application (2020-2031)

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

Figure 33. North America Robot Frameless Torque Motor Sales Quantity Market Share by Type (2020-2031)

Figure 34. North America Robot Frameless Torque Motor Sales Quantity Market Share by Application (2020-2031)

Figure 35. North America Robot Frameless Torque Motor Sales Quantity Market Share by Country (2020-2031)

Figure 36. North America Robot Frameless Torque Motor Consumption Value Market Share by Country (2020-2031)

Figure 37. United States Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 38. Canada Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 39. Mexico Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 40. Europe Robot Frameless Torque Motor Sales Quantity Market Share by Type (2020-2031)

Figure 41. Europe Robot Frameless Torque Motor Sales Quantity Market Share by

Application (2020-2031)

Figure 42. Europe Robot Frameless Torque Motor Sales Quantity Market Share by Country (2020-2031)

Figure 43. Europe Robot Frameless Torque Motor Consumption Value Market Share by Country (2020-2031)

Figure 44. Germany Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 45. France Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 46. United Kingdom Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 47. Russia Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 48. Italy Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 49. Asia-Pacific Robot Frameless Torque Motor Sales Quantity Market Share by Type (2020-2031)

Figure 50. Asia-Pacific Robot Frameless Torque Motor Sales Quantity Market Share by Application (2020-2031)

Figure 51. Asia-Pacific Robot Frameless Torque Motor Sales Quantity Market Share by Region (2020-2031)

Figure 52. Asia-Pacific Robot Frameless Torque Motor Consumption Value Market Share by Region (2020-2031)

Figure 53. China Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 54. Japan Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 55. South Korea Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 56. India Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 57. Southeast Asia Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 58. Australia Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 59. South America Robot Frameless Torque Motor Sales Quantity Market Share by Type (2020-2031)

Figure 60. South America Robot Frameless Torque Motor Sales Quantity Market Share by Application (2020-2031)

Figure 61. South America Robot Frameless Torque Motor Sales Quantity Market Share by Country (2020-2031)

Figure 62. South America Robot Frameless Torque Motor Consumption Value Market Share by Country (2020-2031)

Figure 63. Brazil Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 64. Argentina Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 65. Middle East & Africa Robot Frameless Torque Motor Sales Quantity Market Share by Type (2020-2031)

Figure 66. Middle East & Africa Robot Frameless Torque Motor Sales Quantity Market Share by Application (2020-2031)

Figure 67. Middle East & Africa Robot Frameless Torque Motor Sales Quantity Market Share by Country (2020-2031)

Figure 68. Middle East & Africa Robot Frameless Torque Motor Consumption Value Market Share by Country (2020-2031)

Figure 69. Turkey Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 70. Egypt Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 71. Saudi Arabia Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 72. South Africa Robot Frameless Torque Motor Consumption Value (2020-2031) & (USD Million)

Figure 73. Robot Frameless Torque Motor Market Drivers

Figure 74. Robot Frameless Torque Motor Market Restraints

Figure 75. Robot Frameless Torque Motor Market Trends

Figure 76. Porters Five Forces Analysis

Figure 77. Manufacturing Cost Structure Analysis of Robot Frameless Torque Motor in 2024

Figure 78. Manufacturing Process Analysis of Robot Frameless Torque Motor

Figure 79. Robot Frameless Torque Motor 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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