

# Global High Torque Motor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global High Torque Motor market size is expected to reach \$ 1594 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

In 2025, global High Torque Motor production reached approximately 2 million units with an average global market price of around US\$350 per unit. High torque motor is an electromagnetic device specifically engineered to overcome substantial mechanical resistance and deliver a powerful rotational force, with its design centered on optimizing the magnetic circuit structure of the stator and rotor to maximize tangential force on the lever arm. By increasing the number of pole pairs and employing high-energy-product permanent magnets, this motor achieves higher torque density within the same volume, enabling direct load driving without intermediate reduction mechanisms. Its continuous operation capability is reflected in maintaining stable torque output even at low speeds, effectively suppressing the interference of load fluctuations on control precision. This characteristic ensures that the high torque motor provides reliable mechanical energy transfer and overload endurance under complex operating conditions requiring precise position control and rapid response startup.

The high torque motor industry is undergoing a structural transformation driven by emerging application demands, with the reshaping of technology roadmaps and profit models becoming increasingly clear. The robotics industry has become the core growth engine for this sector. During its third-quarter 2024 performance call, Kinco Automation disclosed that thanks to the rapid development of industrial and humanoid robots, its robotics business grew at a specific rate, with sales of frameless torque motors increasing significantly, directly boosting the company's overall revenue and profit. Simultaneously, Zhejiang Founder Motor stated in its 2024 annual report that it has identified emerging tracks such as robotic joint motors as a strategic focus and has

achieved small-batch deliveries, aiming to build new profit growth points to hedge against potential cyclical fluctuations in its traditional business. On the technology front, a research note from SJTU Tbrobotics indicated that to meet the demanding requirements of robotic joints for high torque density and high-temperature tolerance, new technological routes like harmonic field motors are accelerating their commercialization. By innovating magnetic circuit design, these motors can significantly increase power density without expanding volume, a path seen by the industry as key to breaking through current performance bottlenecks. Companies mastering such core technologies are expected to secure higher product premiums in the future. Furthermore, the industry chain collaboration model is upgrading, with some companies transitioning from pure motor component manufacturers to system solution providers offering integrated 'motor + encoder + driver' joint modules. This trend helps increase product added value and the value per unit for customers, thereby improving profitability structures. In summary, the future development of the high torque motor industry will be deeply tied to the scaling pace of the robotics industry. The major trends are as follows: the demand driver is shifting from industrial automation to embodied AI applications; the profit focus is moving from general-purpose products to high-performance specialized motors and integrated modules; and a company's growth potential will depend on its breakthroughs and industrialization progress in core technologies such as high-voltage platforms, new magnetic circuit designs, and system integration.

This report studies the global High Torque Motor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Torque Motor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of High Torque Motor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Torque Motor total production and demand, 2021-2032, (K Units)

Global High Torque Motor total production value, 2021-2032, (USD Million)

Global High Torque Motor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global High Torque Motor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: High Torque Motor domestic production, consumption, key domestic manufacturers and share

Global High Torque Motor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global High Torque Motor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global High Torque Motor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global High Torque Motor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Kollmorgen, Aerotech, Wittenstein, Parker, Sensata, Maxon Motor, Allied Motion, TQ Robodrive, Magnetic Innovations, Tecnotion, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High Torque Motor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global High Torque Motor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global High Torque Motor Market, Segmentation by Type:

DC

AC

#### Global High Torque Motor Market, Segmentation by Slot:

Slotted

Slotless

#### Global High Torque Motor Market, Segmentation by Cooling Method:

Water-cooled

Liquid-cooled

#### Global High Torque Motor Market, Segmentation by Application:

Robot Joints

Semiconductor Equipment

Flight Control Systems

Industrial Automation

Others

Companies Profiled:

Kollmorgen

Aerotech

Wittenstein

Parker

Sensata

Maxon Motor

Allied Motion

TQ Robodrive

Magnetic Innovations

Tecnotion

Moog

Nidec

Akribis

Celera Motion

Shenzhen Mosrac Motor

Kinco Automation (Shanghai)

Guangzhou Haozhi Industrial

Chengdu Weijing Motor

Wolong Electric Group

China Leadshine Technology

Key Questions Answered:

1. How big is the global High Torque Motor market?
2. What is the demand of the global High Torque Motor market?
3. What is the year over year growth of the global High Torque Motor market?
4. What is the production and production value of the global High Torque Motor market?
5. Who are the key producers in the global High Torque Motor market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 High Torque Motor Introduction
- 1.2 World High Torque Motor Supply & Forecast
  - 1.2.1 World High Torque Motor Production Value (2021 & 2025 & 2032)
  - 1.2.2 World High Torque Motor Production (2021-2032)
  - 1.2.3 World High Torque Motor Pricing Trends (2021-2032)
- 1.3 World High Torque Motor Production by Region (Based on Production Site)
  - 1.3.1 World High Torque Motor Production Value by Region (2021-2032)
  - 1.3.2 World High Torque Motor Production by Region (2021-2032)
  - 1.3.3 World High Torque Motor Average Price by Region (2021-2032)
  - 1.3.4 North America High Torque Motor Production (2021-2032)
  - 1.3.5 Europe High Torque Motor Production (2021-2032)
  - 1.3.6 China High Torque Motor Production (2021-2032)
  - 1.3.7 Japan High Torque Motor Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 High Torque Motor Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 High Torque Motor Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World High Torque Motor Demand (2021-2032)
- 2.2 World High Torque Motor Consumption by Region
  - 2.2.1 World High Torque Motor Consumption by Region (2021-2026)
  - 2.2.2 World High Torque Motor Consumption Forecast by Region (2027-2032)
- 2.3 United States High Torque Motor Consumption (2021-2032)
- 2.4 China High Torque Motor Consumption (2021-2032)
- 2.5 Europe High Torque Motor Consumption (2021-2032)
- 2.6 Japan High Torque Motor Consumption (2021-2032)
- 2.7 South Korea High Torque Motor Consumption (2021-2032)
- 2.8 ASEAN High Torque Motor Consumption (2021-2032)
- 2.9 India High Torque Motor Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World High Torque Motor Production Value by Manufacturer (2021-2026)

- 3.2 World High Torque Motor Production by Manufacturer (2021-2026)
- 3.3 World High Torque Motor Average Price by Manufacturer (2021-2026)
- 3.4 High Torque Motor Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global High Torque Motor Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for High Torque Motor in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for High Torque Motor in 2025
- 3.6 High Torque Motor Market: Overall Company Footprint Analysis
  - 3.6.1 High Torque Motor Market: Region Footprint
  - 3.6.2 High Torque Motor Market: Company Product Type Footprint
  - 3.6.3 High Torque Motor Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: High Torque Motor Production Value Comparison
  - 4.1.1 United States VS China: High Torque Motor Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: High Torque Motor Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: High Torque Motor Production Comparison
  - 4.2.1 United States VS China: High Torque Motor Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: High Torque Motor Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: High Torque Motor Consumption Comparison
  - 4.3.1 United States VS China: High Torque Motor Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: High Torque Motor Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based High Torque Motor Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based High Torque Motor Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers High Torque Motor Production Value (2021-2026)

4.4.3 United States Based Manufacturers High Torque Motor Production (2021-2026)

4.5 China Based High Torque Motor Manufacturers and Market Share

4.5.1 China Based High Torque Motor Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers High Torque Motor Production Value (2021-2026)

4.5.3 China Based Manufacturers High Torque Motor Production (2021-2026)

4.6 Rest of World Based High Torque Motor Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based High Torque Motor Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers High Torque Motor Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers High Torque Motor Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World High Torque Motor Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 DC

5.2.2 AC

5.3 Market Segment by Type

5.3.1 World High Torque Motor Production by Type (2021-2032)

5.3.2 World High Torque Motor Production Value by Type (2021-2032)

5.3.3 World High Torque Motor Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY SLOT**

6.1 World High Torque Motor Market Size Overview by Slot: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Slot

6.2.1 Slotted

6.2.2 Slotless

6.3 Market Segment by Slot

6.3.1 World High Torque Motor Production by Slot (2021-2032)

6.3.2 World High Torque Motor Production Value by Slot (2021-2032)

6.3.3 World High Torque Motor Average Price by Slot (2021-2032)

## **7 MARKET ANALYSIS BY COOLING METHOD**

7.1 World High Torque Motor Market Size Overview by Cooling Method: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Cooling Method

7.2.1 Water-cooled

7.2.2 Liquid-cooled

7.3 Market Segment by Cooling Method

7.3.1 World High Torque Motor Production by Cooling Method (2021-2032)

7.3.2 World High Torque Motor Production Value by Cooling Method (2021-2032)

7.3.3 World High Torque Motor Average Price by Cooling Method (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World High Torque Motor Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Robot Joints

8.2.2 Semiconductor Equipment

8.2.3 Flight Control Systems

8.2.4 Industrial Automation

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World High Torque Motor Production by Application (2021-2032)

8.3.2 World High Torque Motor Production Value by Application (2021-2032)

8.3.3 World High Torque Motor Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 Kollmorgen

9.1.1 Kollmorgen Details

9.1.2 Kollmorgen Major Business

9.1.3 Kollmorgen High Torque Motor Product and Services

9.1.4 Kollmorgen High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Kollmorgen Recent Developments/Updates

9.1.6 Kollmorgen Competitive Strengths & Weaknesses

9.2 Aerotech

9.2.1 Aerotech Details

9.2.2 Aerotech Major Business

- 9.2.3 Aerotech High Torque Motor Product and Services
- 9.2.4 Aerotech High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Aerotech Recent Developments/Updates
- 9.2.6 Aerotech Competitive Strengths & Weaknesses
- 9.3 Wittenstein
  - 9.3.1 Wittenstein Details
  - 9.3.2 Wittenstein Major Business
  - 9.3.3 Wittenstein High Torque Motor Product and Services
  - 9.3.4 Wittenstein High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 Wittenstein Recent Developments/Updates
  - 9.3.6 Wittenstein Competitive Strengths & Weaknesses
- 9.4 Parker
  - 9.4.1 Parker Details
  - 9.4.2 Parker Major Business
  - 9.4.3 Parker High Torque Motor Product and Services
  - 9.4.4 Parker High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.4.5 Parker Recent Developments/Updates
  - 9.4.6 Parker Competitive Strengths & Weaknesses
- 9.5 Sensata
  - 9.5.1 Sensata Details
  - 9.5.2 Sensata Major Business
  - 9.5.3 Sensata High Torque Motor Product and Services
  - 9.5.4 Sensata High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Sensata Recent Developments/Updates
  - 9.5.6 Sensata Competitive Strengths & Weaknesses
- 9.6 Maxon Motor
  - 9.6.1 Maxon Motor Details
  - 9.6.2 Maxon Motor Major Business
  - 9.6.3 Maxon Motor High Torque Motor Product and Services
  - 9.6.4 Maxon Motor High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Maxon Motor Recent Developments/Updates
  - 9.6.6 Maxon Motor Competitive Strengths & Weaknesses
- 9.7 Allied Motion
  - 9.7.1 Allied Motion Details

- 9.7.2 Allied Motion Major Business
- 9.7.3 Allied Motion High Torque Motor Product and Services
- 9.7.4 Allied Motion High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Allied Motion Recent Developments/Updates
- 9.7.6 Allied Motion Competitive Strengths & Weaknesses
- 9.8 TQ Robodrive
  - 9.8.1 TQ Robodrive Details
  - 9.8.2 TQ Robodrive Major Business
  - 9.8.3 TQ Robodrive High Torque Motor Product and Services
  - 9.8.4 TQ Robodrive High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 TQ Robodrive Recent Developments/Updates
  - 9.8.6 TQ Robodrive Competitive Strengths & Weaknesses
- 9.9 Magnetic Innovations
  - 9.9.1 Magnetic Innovations Details
  - 9.9.2 Magnetic Innovations Major Business
  - 9.9.3 Magnetic Innovations High Torque Motor Product and Services
  - 9.9.4 Magnetic Innovations High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Magnetic Innovations Recent Developments/Updates
  - 9.9.6 Magnetic Innovations Competitive Strengths & Weaknesses
- 9.10 Tecnotion
  - 9.10.1 Tecnotion Details
  - 9.10.2 Tecnotion Major Business
  - 9.10.3 Tecnotion High Torque Motor Product and Services
  - 9.10.4 Tecnotion High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Tecnotion Recent Developments/Updates
  - 9.10.6 Tecnotion Competitive Strengths & Weaknesses
- 9.11 Moog
  - 9.11.1 Moog Details
  - 9.11.2 Moog Major Business
  - 9.11.3 Moog High Torque Motor Product and Services
  - 9.11.4 Moog High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Moog Recent Developments/Updates
  - 9.11.6 Moog Competitive Strengths & Weaknesses
- 9.12 Nidec

- 9.12.1 Nidec Details
- 9.12.2 Nidec Major Business
- 9.12.3 Nidec High Torque Motor Product and Services
- 9.12.4 Nidec High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 Nidec Recent Developments/Updates
- 9.12.6 Nidec Competitive Strengths & Weaknesses
- 9.13 Akribis
  - 9.13.1 Akribis Details
  - 9.13.2 Akribis Major Business
  - 9.13.3 Akribis High Torque Motor Product and Services
  - 9.13.4 Akribis High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.13.5 Akribis Recent Developments/Updates
  - 9.13.6 Akribis Competitive Strengths & Weaknesses
- 9.14 Celera Motion
  - 9.14.1 Celera Motion Details
  - 9.14.2 Celera Motion Major Business
  - 9.14.3 Celera Motion High Torque Motor Product and Services
  - 9.14.4 Celera Motion High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.14.5 Celera Motion Recent Developments/Updates
  - 9.14.6 Celera Motion Competitive Strengths & Weaknesses
- 9.15 Shenzhen Mosrac Motor
  - 9.15.1 Shenzhen Mosrac Motor Details
  - 9.15.2 Shenzhen Mosrac Motor Major Business
  - 9.15.3 Shenzhen Mosrac Motor High Torque Motor Product and Services
  - 9.15.4 Shenzhen Mosrac Motor High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.15.5 Shenzhen Mosrac Motor Recent Developments/Updates
  - 9.15.6 Shenzhen Mosrac Motor Competitive Strengths & Weaknesses
- 9.16 Kinco Automation (Shanghai)
  - 9.16.1 Kinco Automation (Shanghai) Details
  - 9.16.2 Kinco Automation (Shanghai) Major Business
  - 9.16.3 Kinco Automation (Shanghai) High Torque Motor Product and Services
  - 9.16.4 Kinco Automation (Shanghai) High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.16.5 Kinco Automation (Shanghai) Recent Developments/Updates
  - 9.16.6 Kinco Automation (Shanghai) Competitive Strengths & Weaknesses

## 9.17 Guangzhou Haozhi Industrial

9.17.1 Guangzhou Haozhi Industrial Details

9.17.2 Guangzhou Haozhi Industrial Major Business

9.17.3 Guangzhou Haozhi Industrial High Torque Motor Product and Services

9.17.4 Guangzhou Haozhi Industrial High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 Guangzhou Haozhi Industrial Recent Developments/Updates

9.17.6 Guangzhou Haozhi Industrial Competitive Strengths & Weaknesses

## 9.18 Chengdu Weijing Motor

9.18.1 Chengdu Weijing Motor Details

9.18.2 Chengdu Weijing Motor Major Business

9.18.3 Chengdu Weijing Motor High Torque Motor Product and Services

9.18.4 Chengdu Weijing Motor High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.18.5 Chengdu Weijing Motor Recent Developments/Updates

9.18.6 Chengdu Weijing Motor Competitive Strengths & Weaknesses

## 9.19 Wolong Electric Group

9.19.1 Wolong Electric Group Details

9.19.2 Wolong Electric Group Major Business

9.19.3 Wolong Electric Group High Torque Motor Product and Services

9.19.4 Wolong Electric Group High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.19.5 Wolong Electric Group Recent Developments/Updates

9.19.6 Wolong Electric Group Competitive Strengths & Weaknesses

## 9.20 China Leadshine Technology

9.20.1 China Leadshine Technology Details

9.20.2 China Leadshine Technology Major Business

9.20.3 China Leadshine Technology High Torque Motor Product and Services

9.20.4 China Leadshine Technology High Torque Motor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.20.5 China Leadshine Technology Recent Developments/Updates

9.20.6 China Leadshine Technology Competitive Strengths & Weaknesses

## 10 INDUSTRY CHAIN ANALYSIS

### 10.1 High Torque Motor Industry Chain

### 10.2 High Torque Motor Upstream Analysis

10.2.1 High Torque Motor Core Raw Materials

10.2.2 Main Manufacturers of High Torque Motor Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 High Torque Motor Production Mode

10.6 High Torque Motor Procurement Model

10.7 High Torque Motor Industry Sales Model and Sales Channels

10.7.1 High Torque Motor Sales Model

10.7.2 High Torque Motor Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. World High Torque Motor Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World High Torque Motor Production Value by Region (2021-2026) & (USD Million)
- Table 3. World High Torque Motor Production Value by Region (2027-2032) & (USD Million)
- Table 4. World High Torque Motor Production Value Market Share by Region (2021-2026)
- Table 5. World High Torque Motor Production Value Market Share by Region (2027-2032)
- Table 6. World High Torque Motor Production by Region (2021-2026) & (K Units)
- Table 7. World High Torque Motor Production by Region (2027-2032) & (K Units)
- Table 8. World High Torque Motor Production Market Share by Region (2021-2026)
- Table 9. World High Torque Motor Production Market Share by Region (2027-2032)
- Table 10. World High Torque Motor Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World High Torque Motor Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. High Torque Motor Major Market Trends
- Table 13. World High Torque Motor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World High Torque Motor Consumption by Region (2021-2026) & (K Units)
- Table 15. World High Torque Motor Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World High Torque Motor Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key High Torque Motor Producers in 2025
- Table 18. World High Torque Motor Production by Manufacturer (2021-2026) & (K Units)
- Table 19. Production Market Share of Key High Torque Motor Producers in 2025
- Table 20. World High Torque Motor Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 21. Global High Torque Motor Company Evaluation Quadrant
- Table 22. World High Torque Motor Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and High Torque Motor Production Site of Key Manufacturer
- Table 24. High Torque Motor Market: Company Product Type Footprint

- Table 25. High Torque Motor Market: Company Product Application Footprint
- Table 26. High Torque Motor Competitive Factors
- Table 27. High Torque Motor New Entrant and Capacity Expansion Plans
- Table 28. High Torque Motor Mergers & Acquisitions Activity
- Table 29. United States VS China High Torque Motor Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China High Torque Motor Production Comparison, (2021 & 2025 & 2032) & (K Units)
- Table 31. United States VS China High Torque Motor Consumption Comparison, (2021 & 2025 & 2032) & (K Units)
- Table 32. United States Based High Torque Motor Manufacturers, Headquarters and Production Site (States, Country)
- Table 33. United States Based Manufacturers High Torque Motor Production Value, (2021-2026) & (USD Million)
- Table 34. United States Based Manufacturers High Torque Motor Production Value Market Share (2021-2026)
- Table 35. United States Based Manufacturers High Torque Motor Production (2021-2026) & (K Units)
- Table 36. United States Based Manufacturers High Torque Motor Production Market Share (2021-2026)
- Table 37. China Based High Torque Motor Manufacturers, Headquarters and Production Site (Province, Country)
- Table 38. China Based Manufacturers High Torque Motor Production Value, (2021-2026) & (USD Million)
- Table 39. China Based Manufacturers High Torque Motor Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers High Torque Motor Production, (2021-2026) & (K Units)
- Table 41. China Based Manufacturers High Torque Motor Production Market Share (2021-2026)
- Table 42. Rest of World Based High Torque Motor Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers High Torque Motor Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers High Torque Motor Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers High Torque Motor Production, (2021-2026) & (K Units)
- Table 46. Rest of World Based Manufacturers High Torque Motor Production Market

Share (2021-2026)

Table 47. World High Torque Motor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World High Torque Motor Production by Type (2021-2026) & (K Units)

Table 49. World High Torque Motor Production by Type (2027-2032) & (K Units)

Table 50. World High Torque Motor Production Value by Type (2021-2026) & (USD Million)

Table 51. World High Torque Motor Production Value by Type (2027-2032) & (USD Million)

Table 52. World High Torque Motor Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World High Torque Motor Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World High Torque Motor Production Value by Slot, (USD Million), 2021 & 2025 & 2032

Table 55. World High Torque Motor Production by Slot (2021-2026) & (K Units)

Table 56. World High Torque Motor Production by Slot (2027-2032) & (K Units)

Table 57. World High Torque Motor Production Value by Slot (2021-2026) & (USD Million)

Table 58. World High Torque Motor Production Value by Slot (2027-2032) & (USD Million)

Table 59. World High Torque Motor Average Price by Slot (2021-2026) & (US\$/Unit)

Table 60. World High Torque Motor Average Price by Slot (2027-2032) & (US\$/Unit)

Table 61. World High Torque Motor Production Value by Cooling Method, (USD Million), 2021 & 2025 & 2032

Table 62. World High Torque Motor Production by Cooling Method (2021-2026) & (K Units)

Table 63. World High Torque Motor Production by Cooling Method (2027-2032) & (K Units)

Table 64. World High Torque Motor Production Value by Cooling Method (2021-2026) & (USD Million)

Table 65. World High Torque Motor Production Value by Cooling Method (2027-2032) & (USD Million)

Table 66. World High Torque Motor Average Price by Cooling Method (2021-2026) & (US\$/Unit)

Table 67. World High Torque Motor Average Price by Cooling Method (2027-2032) & (US\$/Unit)

Table 68. World High Torque Motor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World High Torque Motor Production by Application (2021-2026) & (K Units)

Table 70. World High Torque Motor Production by Application (2027-2032) & (K Units)

Table 71. World High Torque Motor Production Value by Application (2021-2026) & (USD Million)

Table 72. World High Torque Motor Production Value by Application (2027-2032) & (USD Million)

Table 73. World High Torque Motor Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World High Torque Motor Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Kollmorgen Basic Information, Manufacturing Base and Competitors

Table 76. Kollmorgen Major Business

Table 77. Kollmorgen High Torque Motor Product and Services

Table 78. Kollmorgen High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Kollmorgen Recent Developments/Updates

Table 80. Kollmorgen Competitive Strengths & Weaknesses

Table 81. Aerotech Basic Information, Manufacturing Base and Competitors

Table 82. Aerotech Major Business

Table 83. Aerotech High Torque Motor Product and Services

Table 84. Aerotech High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Aerotech Recent Developments/Updates

Table 86. Aerotech Competitive Strengths & Weaknesses

Table 87. Wittenstein Basic Information, Manufacturing Base and Competitors

Table 88. Wittenstein Major Business

Table 89. Wittenstein High Torque Motor Product and Services

Table 90. Wittenstein High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Wittenstein Recent Developments/Updates

Table 92. Wittenstein Competitive Strengths & Weaknesses

Table 93. Parker Basic Information, Manufacturing Base and Competitors

Table 94. Parker Major Business

Table 95. Parker High Torque Motor Product and Services

Table 96. Parker High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Parker Recent Developments/Updates

Table 98. Parker Competitive Strengths & Weaknesses

Table 99. Sensata Basic Information, Manufacturing Base and Competitors

Table 100. Sensata Major Business

Table 101. Sensata High Torque Motor Product and Services

- Table 102. Sensata High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Sensata Recent Developments/Updates
- Table 104. Sensata Competitive Strengths & Weaknesses
- Table 105. Maxon Motor Basic Information, Manufacturing Base and Competitors
- Table 106. Maxon Motor Major Business
- Table 107. Maxon Motor High Torque Motor Product and Services
- Table 108. Maxon Motor High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Maxon Motor Recent Developments/Updates
- Table 110. Maxon Motor Competitive Strengths & Weaknesses
- Table 111. Allied Motion Basic Information, Manufacturing Base and Competitors
- Table 112. Allied Motion Major Business
- Table 113. Allied Motion High Torque Motor Product and Services
- Table 114. Allied Motion High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Allied Motion Recent Developments/Updates
- Table 116. Allied Motion Competitive Strengths & Weaknesses
- Table 117. TQ Robodrive Basic Information, Manufacturing Base and Competitors
- Table 118. TQ Robodrive Major Business
- Table 119. TQ Robodrive High Torque Motor Product and Services
- Table 120. TQ Robodrive High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. TQ Robodrive Recent Developments/Updates
- Table 122. TQ Robodrive Competitive Strengths & Weaknesses
- Table 123. Magnetic Innovations Basic Information, Manufacturing Base and Competitors
- Table 124. Magnetic Innovations Major Business
- Table 125. Magnetic Innovations High Torque Motor Product and Services
- Table 126. Magnetic Innovations High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Magnetic Innovations Recent Developments/Updates
- Table 128. Magnetic Innovations Competitive Strengths & Weaknesses
- Table 129. Tecnotion Basic Information, Manufacturing Base and Competitors
- Table 130. Tecnotion Major Business
- Table 131. Tecnotion High Torque Motor Product and Services
- Table 132. Tecnotion High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 133. Tecnotion Recent Developments/Updates
- Table 134. Tecnotion Competitive Strengths & Weaknesses
- Table 135. Moog Basic Information, Manufacturing Base and Competitors
- Table 136. Moog Major Business
- Table 137. Moog High Torque Motor Product and Services
- Table 138. Moog High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Moog Recent Developments/Updates
- Table 140. Moog Competitive Strengths & Weaknesses
- Table 141. Nidec Basic Information, Manufacturing Base and Competitors
- Table 142. Nidec Major Business
- Table 143. Nidec High Torque Motor Product and Services
- Table 144. Nidec High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Nidec Recent Developments/Updates
- Table 146. Nidec Competitive Strengths & Weaknesses
- Table 147. Akribis Basic Information, Manufacturing Base and Competitors
- Table 148. Akribis Major Business
- Table 149. Akribis High Torque Motor Product and Services
- Table 150. Akribis High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. Akribis Recent Developments/Updates
- Table 152. Akribis Competitive Strengths & Weaknesses
- Table 153. Celera Motion Basic Information, Manufacturing Base and Competitors
- Table 154. Celera Motion Major Business
- Table 155. Celera Motion High Torque Motor Product and Services
- Table 156. Celera Motion High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. Celera Motion Recent Developments/Updates
- Table 158. Celera Motion Competitive Strengths & Weaknesses
- Table 159. Shenzhen Mosrac Motor Basic Information, Manufacturing Base and Competitors
- Table 160. Shenzhen Mosrac Motor Major Business
- Table 161. Shenzhen Mosrac Motor High Torque Motor Product and Services
- Table 162. Shenzhen Mosrac Motor High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. Shenzhen Mosrac Motor Recent Developments/Updates
- Table 164. Shenzhen Mosrac Motor Competitive Strengths & Weaknesses

Table 165. Kinco Automation (Shanghai) Basic Information, Manufacturing Base and Competitors

Table 166. Kinco Automation (Shanghai) Major Business

Table 167. Kinco Automation (Shanghai) High Torque Motor Product and Services

Table 168. Kinco Automation (Shanghai) High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Kinco Automation (Shanghai) Recent Developments/Updates

Table 170. Kinco Automation (Shanghai) Competitive Strengths & Weaknesses

Table 171. Guangzhou Haozhi Industrial Basic Information, Manufacturing Base and Competitors

Table 172. Guangzhou Haozhi Industrial Major Business

Table 173. Guangzhou Haozhi Industrial High Torque Motor Product and Services

Table 174. Guangzhou Haozhi Industrial High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Guangzhou Haozhi Industrial Recent Developments/Updates

Table 176. Guangzhou Haozhi Industrial Competitive Strengths & Weaknesses

Table 177. Chengdu Weijing Motor Basic Information, Manufacturing Base and Competitors

Table 178. Chengdu Weijing Motor Major Business

Table 179. Chengdu Weijing Motor High Torque Motor Product and Services

Table 180. Chengdu Weijing Motor High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Chengdu Weijing Motor Recent Developments/Updates

Table 182. Chengdu Weijing Motor Competitive Strengths & Weaknesses

Table 183. Wolong Electric Group Basic Information, Manufacturing Base and Competitors

Table 184. Wolong Electric Group Major Business

Table 185. Wolong Electric Group High Torque Motor Product and Services

Table 186. Wolong Electric Group High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Wolong Electric Group Recent Developments/Updates

Table 188. Wolong Electric Group Competitive Strengths & Weaknesses

Table 189. China Leadshine Technology Basic Information, Manufacturing Base and Competitors

Table 190. China Leadshine Technology Major Business

Table 191. China Leadshine Technology High Torque Motor Product and Services

Table 192. China Leadshine Technology High Torque Motor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. China Leadshine Technology Recent Developments/Updates

Table 194. China Leadshine Technology Competitive Strengths & Weaknesses

Table 195. Global Key Players of High Torque Motor Upstream (Raw Materials)

Table 196. Global High Torque Motor Typical Customers

Table 197. High Torque Motor Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. High Torque Motor Picture

Figure 2. World High Torque Motor Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World High Torque Motor Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World High Torque Motor Production (2021-2032) & (K Units)

Figure 5. World High Torque Motor Average Price (2021-2032) & (US\$/Unit)

Figure 6. World High Torque Motor Production Value Market Share by Region (2021-2032)

Figure 7. World High Torque Motor Production Market Share by Region (2021-2032)

Figure 8. North America High Torque Motor Production (2021-2032) & (K Units)

Figure 9. Europe High Torque Motor Production (2021-2032) & (K Units)

Figure 10. China High Torque Motor Production (2021-2032) & (K Units)

Figure 11. Japan High Torque Motor Production (2021-2032) & (K Units)

Figure 12. High Torque Motor Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World High Torque Motor Consumption (2021-2032) & (K Units)

Figure 15. World High Torque Motor Consumption Market Share by Region (2021-2032)

Figure 16. United States High Torque Motor Consumption (2021-2032) & (K Units)

Figure 17. China High Torque Motor Consumption (2021-2032) & (K Units)

Figure 18. Europe High Torque Motor Consumption (2021-2032) & (K Units)

Figure 19. Japan High Torque Motor Consumption (2021-2032) & (K Units)

Figure 20. South Korea High Torque Motor Consumption (2021-2032) & (K Units)

Figure 21. ASEAN High Torque Motor Consumption (2021-2032) & (K Units)

Figure 22. India High Torque Motor Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of High Torque Motor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for High Torque Motor Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for High Torque Motor Markets in 2025

Figure 26. United States VS China: High Torque Motor Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: High Torque Motor Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: High Torque Motor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers High Torque Motor Production Market Share 2025

Figure 30. China Based Manufacturers High Torque Motor Production Market Share 2025

Figure 31. Rest of World Based Manufacturers High Torque Motor Production Market Share 2025

Figure 32. World High Torque Motor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World High Torque Motor Production Value Market Share by Type in 2025

Figure 34. DC

Figure 35. AC

Figure 36. World High Torque Motor Production Market Share by Type (2021-2032)

Figure 37. World High Torque Motor Production Value Market Share by Type (2021-2032)

Figure 38. World High Torque Motor Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World High Torque Motor Production Value by Slot, (USD Million), 2021 & 2025 & 2032

Figure 40. World High Torque Motor Production Value Market Share by Slot in 2025

Figure 41. Slotted

Figure 42. Slotless

Figure 43. World High Torque Motor Production Market Share by Slot (2021-2032)

Figure 44. World High Torque Motor Production Value Market Share by Slot (2021-2032)

Figure 45. World High Torque Motor Average Price by Slot (2021-2032) & (US\$/Unit)

Figure 46. World High Torque Motor Production Value by Cooling Method, (USD Million), 2021 & 2025 & 2032

Figure 47. World High Torque Motor Production Value Market Share by Cooling Method in 2025

Figure 48. Water-cooled

Figure 49. Liquid-cooled

Figure 50. World High Torque Motor Production Market Share by Cooling Method (2021-2032)

Figure 51. World High Torque Motor Production Value Market Share by Cooling Method (2021-2032)

Figure 52. World High Torque Motor Average Price by Cooling Method (2021-2032) & (US\$/Unit)

Figure 53. World High Torque Motor Production Value by Application, (USD Million),

2021 & 2025 & 2032

Figure 54. World High Torque Motor Production Value Market Share by Application in 2025

Figure 55. Robot Joints

Figure 56. Semiconductor Equipment

Figure 57. Flight Control Systems

Figure 58. Industrial Automation

Figure 59. Others

Figure 60. World High Torque Motor Production Market Share by Application (2021-2032)

Figure 61. World High Torque Motor Production Value Market Share by Application (2021-2032)

Figure 62. World High Torque Motor Average Price by Application (2021-2032) & (US\$/Unit)

Figure 63. High Torque Motor Industry Chain

Figure 64. High Torque Motor Procurement Model

Figure 65. High Torque Motor Sales Model

Figure 66. High Torque Motor Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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