

# Global Rotating Electric Gripper Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Rotating Electric Gripper market size is expected to reach \$ 206 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

In 2025, global Rotating Electric Gripper production reached approximately 44k units, with an average global market price of around US\$2800 per unit.

A rotating electric gripper is an electrically driven end effector that integrates gripping with rotary positioning or part flipping in a single unit. It typically combines a servo/stepper/BLDC motor, transmission and reduction mechanisms, a gripping module (parallel, angular, three-finger, etc.), rotary bearings, encoders, and force/position sensing with industrial control interfaces. Mounted on robots or automation lines, it enables pick-and-place, alignment, rotation/flipping, assembly, and machine tending. Compared with pneumatic solutions, rotating electric grippers emphasize programmable motion and closed-loop control, enabling precise regulation of gripping force, stroke, and rotation angle, along with condition monitoring and data feedback to enhance flexible manufacturing and process stability.

Upstream for rotating electric grippers includes structural materials and hardware (aluminum alloys/stainless steel, bearings, fasteners), transmission components (gears/racks, planetary or harmonic reducers, lead screws and guides, couplings), electric drive and control components (servo/stepper motors, drives, encoders, force/position sensors, connectors and wiring), plus sealing and lubrication materials. Midstream covers mechanical design, machining and assembly, calibration and validation, as well as control algorithms and industrial communication integration (e.g., IO-Link, EtherNet/IP, PROFINET, EtherCAT). Downstream demand is primarily driven by robot OEMs and system integrators, serving automotive and components, 3C

electronics, batteries/PV, metalworking machine tending, warehousing/logistics, and packaging/sorting. Representative upstream suppliers include bearings (SKF, NSK), reducers/transmission (Nabtesco, Harmonic Drive), motors/servo systems (Siemens, Mitsubishi Electric), and sensors (SICK, Keyence); representative downstream players include automotive (Toyota, VW Group), electronics manufacturing (Foxconn), battery manufacturing (CATL), and robotics/automation (ABB, FANUC).

With the rapid development of industrial automation and smart manufacturing, rotary electric grippers are increasingly used in production lines. Especially in assembly, handling, welding, spraying, etc., rotating electric grippers can greatly improve production efficiency and operation accuracy, and reduce labor intensity and production costs. Therefore, as the degree of industrial automation continues to increase, the market demand for rotary electric grippers will continue to grow.

The rotating electric gripper market is in a phase of accelerated transition from pneumatic-dominated solutions to electrically driven, intelligent end effectors, with applications expanding from basic pick-and-place to more complex tasks such as flipping, alignment, precision assembly, machine tending, and rapid changeovers in flexible production lines. As manufacturers push for higher takt time performance, yield, consistency, and traceability, rotating electric grippers are increasingly adopted due to their programmable motion, fine control of gripping force and rotation angle, and capabilities for condition monitoring and fault warning—making them a key building block for smart workstations. Industry trends are moving toward higher power density, lighter weight, better repeatability, and stronger durability against shock loads, alongside deeper integration with IO-Link/industrial Ethernet protocols and broader adoption with tool changers, vision systems, and force control to support high-mix, low-volume production. Growth is driven by rising labor costs and labor shortages, broader robot adoption and automation retrofits, process upgrades in downstream sectors (automotive, 3C electronics, batteries/PV), and the ongoing need to reduce downtime and improve overall equipment effectiveness. At the same time, challenges remain: harsh environments (dust, oil mist, impact loads) increase requirements for sealing, protection, and lifetime validation; integration complexity across robot platforms and communication protocols can raise commissioning and tuning effort; and cost/supply volatility in core components (motors, reducers, sensors) may slow adoption and limit scaling in certain projects.

This report studies the global Rotating Electric Gripper production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Rotating Electric Gripper 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 Rotating Electric Gripper that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Rotating Electric Gripper total production and demand, 2021-2032, (K Units)

Global Rotating Electric Gripper total production value, 2021-2032, (USD Million)

Global Rotating Electric Gripper production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Rotating Electric Gripper consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Rotating Electric Gripper domestic production, consumption, key domestic manufacturers and share

Global Rotating Electric Gripper production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Rotating Electric Gripper production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Rotating Electric Gripper production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Rotating Electric Gripper 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 Schunk, Tallman Robotics, KSS, Festo, SMC, Robotiq, Destaco, EMI, IAI, Onrobot, 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 Rotating Electric Gripper 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 Rotating Electric Gripper Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Rotating Electric Gripper Market, Segmentation by Type:

Parallel Gripper

Angle Type Gripper

#### Global Rotating Electric Gripper Market, Segmentation by Clamping Structure:

Parallel Grippers

Angled Grippers

#### Global Rotating Electric Gripper Market, Segmentation by Clamping Force:

5–50 N

50–200 N

200–800 N

800–2000 N

>2000N

#### Global Rotating Electric Gripper Market, Segmentation by Application:

Electronic

Medical Industry

Military

Aerospace Industry

Logistics Industry

Automobile Industry

Food Industry

Others

#### Companies Profiled:

Schunk

Tallman Robotics

KSS

Festo

SMC

Robotiq

Destaco

EMI

IAI

Onrobot

Zimmer Group

Shenzhen Daken Technology

Hitbot

DH-Robotics

RobustMotion

Jodell

Inspire Robots

### **Key Questions Answered:**

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

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

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

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Ethylcellulose (EC) Production Value by Manufacturer (2021-2026)

- 3.2 World Ethylcellulose (EC) Production by Manufacturer (2021-2026)
- 3.3 World Ethylcellulose (EC) Average Price by Manufacturer (2021-2026)
- 3.4 Ethylcellulose (EC) Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Ethylcellulose (EC) Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Ethylcellulose (EC) in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Ethylcellulose (EC) in 2025
- 3.6 Ethylcellulose (EC) Market: Overall Company Footprint Analysis
  - 3.6.1 Ethylcellulose (EC) Market: Region Footprint
  - 3.6.2 Ethylcellulose (EC) Market: Company Product Type Footprint
  - 3.6.3 Ethylcellulose (EC) 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: Ethylcellulose (EC) Production Value Comparison
  - 4.1.1 United States VS China: Ethylcellulose (EC) Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Ethylcellulose (EC) Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Ethylcellulose (EC) Production Comparison
  - 4.2.1 United States VS China: Ethylcellulose (EC) Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Ethylcellulose (EC) Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Ethylcellulose (EC) Consumption Comparison
  - 4.3.1 United States VS China: Ethylcellulose (EC) Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Ethylcellulose (EC) Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Ethylcellulose (EC) Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based Ethylcellulose (EC) Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Ethylcellulose (EC) Production Value (2021-2026)

4.4.3 United States Based Manufacturers Ethylcellulose (EC) Production (2021-2026)

4.5 China Based Ethylcellulose (EC) Manufacturers and Market Share

4.5.1 China Based Ethylcellulose (EC) Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Ethylcellulose (EC) Production Value (2021-2026)

4.5.3 China Based Manufacturers Ethylcellulose (EC) Production (2021-2026)

4.6 Rest of World Based Ethylcellulose (EC) Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Ethylcellulose (EC) Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Ethylcellulose (EC) Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Ethylcellulose (EC) Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Ethylcellulose (EC) Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Industrial Grade

5.2.2 Pharmaceutical Grade

5.2.3 Food Grade

5.2.4 Cosmetic Grade

5.3 Market Segment by Type

5.3.1 World Ethylcellulose (EC) Production by Type (2021-2032)

5.3.2 World Ethylcellulose (EC) Production Value by Type (2021-2032)

5.3.3 World Ethylcellulose (EC) Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY ETHYL TYPE**

6.1 World Ethylcellulose (EC) Market Size Overview by Ethyl Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Ethyl Type

6.2.1 K Type

6.2.2 N Type

6.2.3 T Type

6.3 Market Segment by Ethyl Type

6.3.1 World Ethylcellulose (EC) Production by Ethyl Type (2021-2032)

6.3.2 World Ethylcellulose (EC) Production Value by Ethyl Type (2021-2032)

6.3.3 World Ethylcellulose (EC) Average Price by Ethyl Type (2021-2032)

## **7 MARKET ANALYSIS BY ETHOXY CONTENT**

7.1 World Ethylcellulose (EC) Market Size Overview by Ethoxy Content: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Ethoxy Content

7.2.1 Ethoxy Content 45% -49.5%

7.2.2 Ethoxy Content >49.5%

7.3 Market Segment by Ethoxy Content

7.3.1 World Ethylcellulose (EC) Production by Ethoxy Content (2021-2032)

7.3.2 World Ethylcellulose (EC) Production Value by Ethoxy Content (2021-2032)

7.3.3 World Ethylcellulose (EC) Average Price by Ethoxy Content (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Ethylcellulose (EC) Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Food Industry

8.2.2 Pharmaceutical

8.2.3 Daily Chemical Industry

8.2.4 Ink & Paint

8.2.5 Ceramics

8.2.6 Other

8.3 Market Segment by Application

8.3.1 World Ethylcellulose (EC) Production by Application (2021-2032)

8.3.2 World Ethylcellulose (EC) Production Value by Application (2021-2032)

8.3.3 World Ethylcellulose (EC) Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 Ashland

9.1.1 Ashland Details

9.1.2 Ashland Major Business

9.1.3 Ashland Ethylcellulose (EC) Product and Services

9.1.4 Ashland Ethylcellulose (EC) Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.1.5 Ashland Recent Developments/Updates
- 9.1.6 Ashland Competitive Strengths & Weaknesses
- 9.2 International Flavors & Fragrances Inc.
  - 9.2.1 International Flavors & Fragrances Inc. Details
  - 9.2.2 International Flavors & Fragrances Inc. Major Business
  - 9.2.3 International Flavors & Fragrances Inc. Ethylcellulose (EC) Product and Services
  - 9.2.4 International Flavors & Fragrances Inc. Ethylcellulose (EC) Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.2.5 International Flavors & Fragrances Inc. Recent Developments/Updates
  - 9.2.6 International Flavors & Fragrances Inc. Competitive Strengths & Weaknesses
- 9.3 MIKEM
  - 9.3.1 MIKEM Details
  - 9.3.2 MIKEM Major Business
  - 9.3.3 MIKEM Ethylcellulose (EC) Product and Services
  - 9.3.4 MIKEM Ethylcellulose (EC) Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 MIKEM Recent Developments/Updates
  - 9.3.6 MIKEM Competitive Strengths & Weaknesses
- 9.4 Head Group
  - 9.4.1 Head Group Details
  - 9.4.2 Head Group Major Business
  - 9.4.3 Head Group Ethylcellulose (EC) Product and Services
  - 9.4.4 Head Group Ethylcellulose (EC) Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.4.5 Head Group Recent Developments/Updates
  - 9.4.6 Head Group Competitive Strengths & Weaknesses
- 9.5 Tianpu Chemicals Company
  - 9.5.1 Tianpu Chemicals Company Details
  - 9.5.2 Tianpu Chemicals Company Major Business
  - 9.5.3 Tianpu Chemicals Company Ethylcellulose (EC) Product and Services
  - 9.5.4 Tianpu Chemicals Company Ethylcellulose (EC) Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Tianpu Chemicals Company Recent Developments/Updates
  - 9.5.6 Tianpu Chemicals Company Competitive Strengths & Weaknesses
- 9.6 Mikazone
  - 9.6.1 Mikazone Details
  - 9.6.2 Mikazone Major Business
  - 9.6.3 Mikazone Ethylcellulose (EC) Product and Services
  - 9.6.4 Mikazone Ethylcellulose (EC) Production, Price, Value, Gross Margin and Market

## Share (2021-2026)

9.6.5 Mikazone Recent Developments/Updates

9.6.6 Mikazone Competitive Strengths & Weaknesses

## 9.7 Taian Ruitai New Material Incorporated

9.7.1 Taian Ruitai New Material Incorporated Details

9.7.2 Taian Ruitai New Material Incorporated Major Business

9.7.3 Taian Ruitai New Material Incorporated Ethylcellulose (EC) Product and Services

9.7.4 Taian Ruitai New Material Incorporated Ethylcellulose (EC) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Taian Ruitai New Material Incorporated Recent Developments/Updates

9.7.6 Taian Ruitai New Material Incorporated Competitive Strengths & Weaknesses

## 9.8 Huzhou Mizudahope Bioscience

9.8.1 Huzhou Mizudahope Bioscience Details

9.8.2 Huzhou Mizudahope Bioscience Major Business

9.8.3 Huzhou Mizudahope Bioscience Ethylcellulose (EC) Product and Services

9.8.4 Huzhou Mizudahope Bioscience Ethylcellulose (EC) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Huzhou Mizudahope Bioscience Recent Developments/Updates

9.8.6 Huzhou Mizudahope Bioscience Competitive Strengths & Weaknesses

## 9.9 LANDU

9.9.1 LANDU Details

9.9.2 LANDU Major Business

9.9.3 LANDU Ethylcellulose (EC) Product and Services

9.9.4 LANDU Ethylcellulose (EC) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 LANDU Recent Developments/Updates

9.9.6 LANDU Competitive Strengths & Weaknesses

## 9.10 Shandong Everbright Technology Development

9.10.1 Shandong Everbright Technology Development Details

9.10.2 Shandong Everbright Technology Development Major Business

9.10.3 Shandong Everbright Technology Development Ethylcellulose (EC) Product and Services

9.10.4 Shandong Everbright Technology Development Ethylcellulose (EC) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Shandong Everbright Technology Development Recent Developments/Updates

9.10.6 Shandong Everbright Technology Development Competitive Strengths & Weaknesses

## 9.11 Shanghai Dofine Chemical

9.11.1 Shanghai Dofine Chemical Details

- 9.11.2 Shanghai Dofine Chemical Major Business
- 9.11.3 Shanghai Dofine Chemical Ethylcellulose (EC) Product and Services
- 9.11.4 Shanghai Dofine Chemical Ethylcellulose (EC) Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Shanghai Dofine Chemical Recent Developments/Updates
- 9.11.6 Shanghai Dofine Chemical Competitive Strengths & Weaknesses
- 9.12 Shanghai Honest Chem
  - 9.12.1 Shanghai Honest Chem Details
  - 9.12.2 Shanghai Honest Chem Major Business
  - 9.12.3 Shanghai Honest Chem Ethylcellulose (EC) Product and Services
  - 9.12.4 Shanghai Honest Chem Ethylcellulose (EC) Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 Shanghai Honest Chem Recent Developments/Updates
  - 9.12.6 Shanghai Honest Chem Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Ethylcellulose (EC) Industry Chain
- 10.2 Ethylcellulose (EC) Upstream Analysis
  - 10.2.1 Ethylcellulose (EC) Core Raw Materials
  - 10.2.2 Main Manufacturers of Ethylcellulose (EC) Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Ethylcellulose (EC) Production Mode
- 10.6 Ethylcellulose (EC) Procurement Model
- 10.7 Ethylcellulose (EC) Industry Sales Model and Sales Channels
  - 10.7.1 Ethylcellulose (EC) Sales Model
  - 10.7.2 Ethylcellulose (EC) 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 Rotating Electric Gripper Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Rotating Electric Gripper Production Value by Region (2021-2026) & (USD Million)

Table 3. World Rotating Electric Gripper Production Value by Region (2027-2032) & (USD Million)

Table 4. World Rotating Electric Gripper Production Value Market Share by Region (2021-2026)

Table 5. World Rotating Electric Gripper Production Value Market Share by Region (2027-2032)

Table 6. World Rotating Electric Gripper Production by Region (2021-2026) & (K Units)

Table 7. World Rotating Electric Gripper Production by Region (2027-2032) & (K Units)

Table 8. World Rotating Electric Gripper Production Market Share by Region (2021-2026)

Table 9. World Rotating Electric Gripper Production Market Share by Region (2027-2032)

Table 10. World Rotating Electric Gripper Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Rotating Electric Gripper Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Rotating Electric Gripper Major Market Trends

Table 13. World Rotating Electric Gripper Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Rotating Electric Gripper Consumption by Region (2021-2026) & (K Units)

Table 15. World Rotating Electric Gripper Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Rotating Electric Gripper Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Rotating Electric Gripper Producers in 2025

Table 18. World Rotating Electric Gripper Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Rotating Electric Gripper Producers in 2025

Table 20. World Rotating Electric Gripper Average Price by Manufacturer (2021-2026) &

(US\$/Unit)

Table 21. Global Rotating Electric Gripper Company Evaluation Quadrant

Table 22. World Rotating Electric Gripper Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Rotating Electric Gripper Production Site of Key Manufacturer

Table 24. Rotating Electric Gripper Market: Company Product Type Footprint

Table 25. Rotating Electric Gripper Market: Company Product Application Footprint

Table 26. Rotating Electric Gripper Competitive Factors

Table 27. Rotating Electric Gripper New Entrant and Capacity Expansion Plans

Table 28. Rotating Electric Gripper Mergers & Acquisitions Activity

Table 29. United States VS China Rotating Electric Gripper Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Rotating Electric Gripper Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Rotating Electric Gripper Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Rotating Electric Gripper Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Rotating Electric Gripper Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Rotating Electric Gripper Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Rotating Electric Gripper Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Rotating Electric Gripper Production Market Share (2021-2026)

Table 37. China Based Rotating Electric Gripper Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Rotating Electric Gripper Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Rotating Electric Gripper Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Rotating Electric Gripper Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Rotating Electric Gripper Production Market Share (2021-2026)

Table 42. Rest of World Based Rotating Electric Gripper Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Rotating Electric Gripper Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Rotating Electric Gripper Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Rotating Electric Gripper Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Rotating Electric Gripper Production Market Share (2021-2026)

Table 47. World Rotating Electric Gripper Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Rotating Electric Gripper Production by Type (2021-2026) & (K Units)

Table 49. World Rotating Electric Gripper Production by Type (2027-2032) & (K Units)

Table 50. World Rotating Electric Gripper Production Value by Type (2021-2026) & (USD Million)

Table 51. World Rotating Electric Gripper Production Value by Type (2027-2032) & (USD Million)

Table 52. World Rotating Electric Gripper Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Rotating Electric Gripper Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Rotating Electric Gripper Production Value by Clamping Structure, (USD Million), 2021 & 2025 & 2032

Table 55. World Rotating Electric Gripper Production by Clamping Structure (2021-2026) & (K Units)

Table 56. World Rotating Electric Gripper Production by Clamping Structure (2027-2032) & (K Units)

Table 57. World Rotating Electric Gripper Production Value by Clamping Structure (2021-2026) & (USD Million)

Table 58. World Rotating Electric Gripper Production Value by Clamping Structure (2027-2032) & (USD Million)

Table 59. World Rotating Electric Gripper Average Price by Clamping Structure (2021-2026) & (US\$/Unit)

Table 60. World Rotating Electric Gripper Average Price by Clamping Structure (2027-2032) & (US\$/Unit)

Table 61. World Rotating Electric Gripper Production Value by Clamping Force, (USD Million), 2021 & 2025 & 2032

Table 62. World Rotating Electric Gripper Production by Clamping Force (2021-2026) & (K Units)

Table 63. World Rotating Electric Gripper Production by Clamping Force (2027-2032) &

(K Units)

Table 64. World Rotating Electric Gripper Production Value by Clamping Force (2021-2026) & (USD Million)

Table 65. World Rotating Electric Gripper Production Value by Clamping Force (2027-2032) & (USD Million)

Table 66. World Rotating Electric Gripper Average Price by Clamping Force (2021-2026) & (US\$/Unit)

Table 67. World Rotating Electric Gripper Average Price by Clamping Force (2027-2032) & (US\$/Unit)

Table 68. World Rotating Electric Gripper Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Rotating Electric Gripper Production by Application (2021-2026) & (K Units)

Table 70. World Rotating Electric Gripper Production by Application (2027-2032) & (K Units)

Table 71. World Rotating Electric Gripper Production Value by Application (2021-2026) & (USD Million)

Table 72. World Rotating Electric Gripper Production Value by Application (2027-2032) & (USD Million)

Table 73. World Rotating Electric Gripper Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Rotating Electric Gripper Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Schunk Basic Information, Manufacturing Base and Competitors

Table 76. Schunk Major Business

Table 77. Schunk Rotating Electric Gripper Product and Services

Table 78. Schunk Rotating Electric Gripper Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Schunk Recent Developments/Updates

Table 80. Schunk Competitive Strengths & Weaknesses

Table 81. Tallman Robotics Basic Information, Manufacturing Base and Competitors

Table 82. Tallman Robotics Major Business

Table 83. Tallman Robotics Rotating Electric Gripper Product and Services

Table 84. Tallman Robotics Rotating Electric Gripper Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Tallman Robotics Recent Developments/Updates

Table 86. Tallman Robotics Competitive Strengths & Weaknesses

Table 87. KSS Basic Information, Manufacturing Base and Competitors

- Table 88. KSS Major Business
- Table 89. KSS Rotating Electric Gripper Product and Services
- Table 90. KSS Rotating Electric Gripper Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. KSS Recent Developments/Updates
- Table 92. KSS Competitive Strengths & Weaknesses
- Table 93. Festo Basic Information, Manufacturing Base and Competitors
- Table 94. Festo Major Business
- Table 95. Festo Rotating Electric Gripper Product and Services
- Table 96. Festo Rotating Electric Gripper Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Festo Recent Developments/Updates
- Table 98. Festo Competitive Strengths & Weaknesses
- Table 99. SMC Basic Information, Manufacturing Base and Competitors
- Table 100. SMC Major Business
- Table 101. SMC Rotating Electric Gripper Product and Services
- Table 102. SMC Rotating Electric Gripper Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. SMC Recent Developments/Updates
- Table 104. SMC Competitive Strengths & Weaknesses
- Table 105. Robotiq Basic Information, Manufacturing Base and Competitors
- Table 106. Robotiq Major Business
- Table 107. Robotiq Rotating Electric Gripper Product and Services
- Table 108. Robotiq Rotating Electric Gripper Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Robotiq Recent Developments/Updates
- Table 110. Robotiq Competitive Strengths & Weaknesses
- Table 111. Destaco Basic Information, Manufacturing Base and Competitors
- Table 112. Destaco Major Business
- Table 113. Destaco Rotating Electric Gripper Product and Services
- Table 114. Destaco Rotating Electric Gripper Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Destaco Recent Developments/Updates
- Table 116. Destaco Competitive Strengths & Weaknesses
- Table 117. EMI Basic Information, Manufacturing Base and Competitors
- Table 118. EMI Major Business
- Table 119. EMI Rotating Electric Gripper Product and Services
- Table 120. EMI Rotating Electric Gripper Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 121. EMI Recent Developments/Updates
- Table 122. EMI Competitive Strengths & Weaknesses
- Table 123. IAI Basic Information, Manufacturing Base and Competitors
- Table 124. IAI Major Business
- Table 125. IAI Rotating Electric Gripper Product and Services
- Table 126. IAI Rotating Electric Gripper Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. IAI Recent Developments/Updates
- Table 128. IAI Competitive Strengths & Weaknesses
- Table 129. Onrobot Basic Information, Manufacturing Base and Competitors
- Table 130. Onrobot Major Business
- Table 131. Onrobot Rotating Electric Gripper Product and Services
- Table 132. Onrobot Rotating Electric Gripper Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Onrobot Recent Developments/Updates
- Table 134. Onrobot Competitive Strengths & Weaknesses
- Table 135. Zimmer Group Basic Information, Manufacturing Base and Competitors
- Table 136. Zimmer Group Major Business
- Table 137. Zimmer Group Rotating Electric Gripper Product and Services
- Table 138. Zimmer Group Rotating Electric Gripper Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Zimmer Group Recent Developments/Updates
- Table 140. Zimmer Group Competitive Strengths & Weaknesses
- Table 141. Shenzhen Daken Technology Basic Information, Manufacturing Base and Competitors
- Table 142. Shenzhen Daken Technology Major Business
- Table 143. Shenzhen Daken Technology Rotating Electric Gripper Product and Services
- Table 144. Shenzhen Daken Technology Rotating Electric Gripper Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Shenzhen Daken Technology Recent Developments/Updates
- Table 146. Shenzhen Daken Technology Competitive Strengths & Weaknesses
- Table 147. Hitbot Basic Information, Manufacturing Base and Competitors
- Table 148. Hitbot Major Business
- Table 149. Hitbot Rotating Electric Gripper Product and Services
- Table 150. Hitbot Rotating Electric Gripper Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 151. Hitbot Recent Developments/Updates
- Table 152. Hitbot Competitive Strengths & Weaknesses
- Table 153. DH-Robotics Basic Information, Manufacturing Base and Competitors
- Table 154. DH-Robotics Major Business
- Table 155. DH-Robotics Rotating Electric Gripper Product and Services
- Table 156. DH-Robotics Rotating Electric Gripper Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. DH-Robotics Recent Developments/Updates
- Table 158. DH-Robotics Competitive Strengths & Weaknesses
- Table 159. RobustMotion Basic Information, Manufacturing Base and Competitors
- Table 160. RobustMotion Major Business
- Table 161. RobustMotion Rotating Electric Gripper Product and Services
- Table 162. RobustMotion Rotating Electric Gripper Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. RobustMotion Recent Developments/Updates
- Table 164. RobustMotion Competitive Strengths & Weaknesses
- Table 165. Jodell Basic Information, Manufacturing Base and Competitors
- Table 166. Jodell Major Business
- Table 167. Jodell Rotating Electric Gripper Product and Services
- Table 168. Jodell Rotating Electric Gripper Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 169. Jodell Recent Developments/Updates
- Table 170. Jodell Competitive Strengths & Weaknesses
- Table 171. Inspire Robots Basic Information, Manufacturing Base and Competitors
- Table 172. Inspire Robots Major Business
- Table 173. Inspire Robots Rotating Electric Gripper Product and Services
- Table 174. Inspire Robots Rotating Electric Gripper Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 175. Inspire Robots Recent Developments/Updates
- Table 176. Inspire Robots Competitive Strengths & Weaknesses
- Table 177. Global Key Players of Rotating Electric Gripper Upstream (Raw Materials)
- Table 178. Global Rotating Electric Gripper Typical Customers
- Table 179. Rotating Electric Gripper Typical Distributors

## List Of Figures

### LIST OF FIGURES

- Figure 1. Rotating Electric Gripper Picture
- Figure 2. World Rotating Electric Gripper Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Rotating Electric Gripper Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Rotating Electric Gripper Production (2021-2032) & (K Units)
- Figure 5. World Rotating Electric Gripper Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Rotating Electric Gripper Production Value Market Share by Region (2021-2032)
- Figure 7. World Rotating Electric Gripper Production Market Share by Region (2021-2032)
- Figure 8. North America Rotating Electric Gripper Production (2021-2032) & (K Units)
- Figure 9. Europe Rotating Electric Gripper Production (2021-2032) & (K Units)
- Figure 10. China Rotating Electric Gripper Production (2021-2032) & (K Units)
- Figure 11. Japan Rotating Electric Gripper Production (2021-2032) & (K Units)
- Figure 12. Rotating Electric Gripper Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Rotating Electric Gripper Consumption (2021-2032) & (K Units)
- Figure 15. World Rotating Electric Gripper Consumption Market Share by Region (2021-2032)
- Figure 16. United States Rotating Electric Gripper Consumption (2021-2032) & (K Units)
- Figure 17. China Rotating Electric Gripper Consumption (2021-2032) & (K Units)
- Figure 18. Europe Rotating Electric Gripper Consumption (2021-2032) & (K Units)
- Figure 19. Japan Rotating Electric Gripper Consumption (2021-2032) & (K Units)
- Figure 20. South Korea Rotating Electric Gripper Consumption (2021-2032) & (K Units)
- Figure 21. ASEAN Rotating Electric Gripper Consumption (2021-2032) & (K Units)
- Figure 22. India Rotating Electric Gripper Consumption (2021-2032) & (K Units)
- Figure 23. Producer Shipments of Rotating Electric Gripper by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for Rotating Electric Gripper Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Rotating Electric Gripper Markets in 2025
- Figure 26. United States VS China: Rotating Electric Gripper Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Rotating Electric Gripper Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Rotating Electric Gripper Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Rotating Electric Gripper Production Market Share 2025

Figure 30. China Based Manufacturers Rotating Electric Gripper Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Rotating Electric Gripper Production Market Share 2025

Figure 32. World Rotating Electric Gripper Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Rotating Electric Gripper Production Value Market Share by Type in 2025

Figure 34. Parallel Gripper

Figure 35. Angle Type Gripper

Figure 36. World Rotating Electric Gripper Production Market Share by Type (2021-2032)

Figure 37. World Rotating Electric Gripper Production Value Market Share by Type (2021-2032)

Figure 38. World Rotating Electric Gripper Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World Rotating Electric Gripper Production Value by Clamping Structure, (USD Million), 2021 & 2025 & 2032

Figure 40. World Rotating Electric Gripper Production Value Market Share by Clamping Structure in 2025

Figure 41. Parallel Grippers

Figure 42. Angled Grippers

Figure 43. World Rotating Electric Gripper Production Market Share by Clamping Structure (2021-2032)

Figure 44. World Rotating Electric Gripper Production Value Market Share by Clamping Structure (2021-2032)

Figure 45. World Rotating Electric Gripper Average Price by Clamping Structure (2021-2032) & (US\$/Unit)

Figure 46. World Rotating Electric Gripper Production Value by Clamping Force, (USD Million), 2021 & 2025 & 2032

Figure 47. World Rotating Electric Gripper Production Value Market Share by Clamping Force in 2025

Figure 48. 5–50 N

Figure 49. 50–200 N

Figure 50. 200–800 N

Figure 51. 800–2000 N

Figure 52. >2000N

Figure 53. World Rotating Electric Gripper Production Market Share by Clamping Force (2021-2032)

Figure 54. World Rotating Electric Gripper Production Value Market Share by Clamping Force (2021-2032)

Figure 55. World Rotating Electric Gripper Average Price by Clamping Force (2021-2032) & (US\$/Unit)

Figure 56. World Rotating Electric Gripper Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Rotating Electric Gripper Production Value Market Share by Application in 2025

Figure 58. Electronic

Figure 59. Medical Industry

Figure 60. Military

Figure 61. Aerospace Industry

Figure 62. Logistics Industry

Figure 63. Automobile Industry

Figure 64. Food Industry

Figure 65. Others

Figure 66. Others

Figure 67. World Rotating Electric Gripper Production Market Share by Application (2021-2032)

Figure 68. World Rotating Electric Gripper Production Value Market Share by Application (2021-2032)

Figure 69. World Rotating Electric Gripper Average Price by Application (2021-2032) & (US\$/Unit)

Figure 70. Rotating Electric Gripper Industry Chain

Figure 71. Rotating Electric Gripper Procurement Model

Figure 72. Rotating Electric Gripper Sales Model

Figure 73. Rotating Electric Gripper Sales Channels, Direct Sales, and Distribution

Figure 74. Methodology

Figure 75. Research Process and Data Source

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