

Global Robot Electric Parallel Grippers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Robot Electric Parallel Grippers market size is expected to reach \$ 2814 million by 2032, rising at a market growth of 15.2% CAGR during the forecast period (2026-2032).

In 2025, global Robot Electric Parallel Grippers production reached approximately 510 k units?with an average global market price of around US\$ 2,100 per unit, and a gross profit margin of approximately 20%-40%. Robot Electric Parallel Grippers are electrically actuated robotic end effectors whose two opposing jaws move along parallel linear paths to grip, hold, position and release workpieces. A typical product integrates a servo, stepper or brushless DC motor, reduction mechanism, ball screw or rack transmission, linear guides, base jaws, replaceable fingers, encoders, force or position sensors, motor drivers, embedded controllers and communication interfaces. Compared with conventional pneumatic grippers, electric products can provide programmable stroke, adjustable gripping force, intermediate positioning, workpiece detection and operating-status feedback without requiring a compressed-air supply. Commercial products are used with collaborative and industrial robots in machine tending, assembly, inspection and material handling.

The industrial chain of Robot Electric Parallel Grippers includes upstream aluminum alloys, stainless steel, engineering plastics, electric motors, reducers, ball screws, gears, racks, linear guides, bearings, encoders, force sensors, controllers, motor-driver chips, PCBs, cables and connectors. Midstream activities include mechanical design, gripping-force and stroke calculation, transmission-system development, precision machining, actuator integration, sensor installation, force-position control development, communication-interface integration, finger-interface design, assembly, calibration, repeatability testing, gripping-force testing, overload testing, lifecycle validation and

environmental testing. Downstream applications include industrial robots, collaborative robots, machine tending, electronics assembly, automotive components, packaging, logistics, laboratory automation, medical-product handling and flexible manufacturing.

The Robot Electric Parallel Grippers market is expected to grow rapidly as manufacturers shift from fixed pneumatic handling systems toward flexible robotic cells capable of processing multiple product sizes and smaller production batches. Programmable gripping force and stroke allow the same gripper to handle different workpieces with fewer mechanical adjustments, while integrated position sensing and object detection improve process monitoring and reduce part damage. Product development is focused on higher gripping-force-to-weight ratios, longer strokes, faster opening and closing, compact drive systems, self-locking mechanisms, integrated force sensing, energy-efficient motors, industrial-network connectivity and simplified robot programming. Collaborative robot adoption is supporting demand for plug-and-play products, while industrial applications require higher durability, environmental protection and continuous-cycle reliability. Important challenges include higher initial cost than pneumatic grippers, motor and gearbox wear, thermal management, control-system complexity, customized finger requirements, limited gripping speed in some high-cycle applications and competition from pneumatic, vacuum and multifunctional gripping technologies.

This report studies the global Robot Electric Parallel Grippers production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Robot Electric Parallel Grippers total production and demand, 2021-2032, (K Units)

Global Robot Electric Parallel Grippers total production value, 2021-2032, (USD Million)

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

Global Robot Electric Parallel Grippers consumption by region & country, CAGR,

2021-2032 & (K Units)

U.S. VS China: Robot Electric Parallel Grippers domestic production, consumption, key domestic manufacturers and share

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

Global Robot Electric Parallel Grippers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Robot Electric Parallel Grippers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Robot Electric Parallel Grippers 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, Festo, Zimmer Group, SMC Corporation, Weiss Robotics, OnRobot, Gimatic, Destaco, Robotiq, IAI Corporation, 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 Robot Electric Parallel Grippers 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 Robot Electric Parallel Grippers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robot Electric Parallel Grippers Market, Segmentation by Type:

Two-Jaw Electric Parallel Grippers

Three-Jaw Electric Parallel Grippers

Others

Global Robot Electric Parallel Grippers Market, Segmentation by Stroke:

≤30 mm

30-100 mm

≥100 mm

Global Robot Electric Parallel Grippers Market, Segmentation by Gripping Force (N):

≤100

100-300

≥300

Global Robot Electric Parallel Grippers Market, Segmentation by Application:

Automotive Manufacturing

Pharmaceutical Manufacturing

Food and Beverage

Aerospace

Others

Companies Profiled:

SCHUNK

Festo

Zimmer Group

SMC Corporation

Weiss Robotics

OnRobot

Gimatic

Destaco

Robotiq

IAI Corporation

CKD

New Scale Robotics

DH-Robotics

HITBOT

JODELL Robotics

ChangingTek Robotics

HIWIN

TESOLLO

KCC

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

4.4 United States Based Robot Electric Parallel Grippers Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Robot Electric Parallel Grippers Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Robot Electric Parallel Grippers Production Value (2021-2026)

4.4.3 United States Based Manufacturers Robot Electric Parallel Grippers Production (2021-2026)

4.5 China Based Robot Electric Parallel Grippers Manufacturers and Market Share

4.5.1 China Based Robot Electric Parallel Grippers Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Robot Electric Parallel Grippers Production Value (2021-2026)

4.5.3 China Based Manufacturers Robot Electric Parallel Grippers Production (2021-2026)

4.6 Rest of World Based Robot Electric Parallel Grippers Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Robot Electric Parallel Grippers Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Robot Electric Parallel Grippers Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Robot Electric Parallel Grippers Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Robot Electric Parallel Grippers Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Two-Jaw Electric Parallel Grippers

5.2.2 Three-Jaw Electric Parallel Grippers

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Robot Electric Parallel Grippers Production by Type (2021-2032)

5.3.2 World Robot Electric Parallel Grippers Production Value by Type (2021-2032)

5.3.3 World Robot Electric Parallel Grippers Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY STROKE

6.1 World Robot Electric Parallel Grippers Market Size Overview by Stroke: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Stroke

6.2.1 ≤ 30 mm

6.2.2 30-100 mm

6.2.3 ≥ 100 mm

6.3 Market Segment by Stroke

6.3.1 World Robot Electric Parallel Grippers Production by Stroke (2021-2032)

6.3.2 World Robot Electric Parallel Grippers Production Value by Stroke (2021-2032)

6.3.3 World Robot Electric Parallel Grippers Average Price by Stroke (2021-2032)

7 MARKET ANALYSIS BY GRIPPING FORCE (N)

7.1 World Robot Electric Parallel Grippers Market Size Overview by Gripping Force (N): 2021 VS 2025 VS 2032

7.2 Segment Introduction by Gripping Force (N)

7.2.1 ≤ 100

7.2.2 100-300

7.2.3 ≥ 300

7.3 Market Segment by Gripping Force (N)

7.3.1 World Robot Electric Parallel Grippers Production by Gripping Force (N) (2021-2032)

7.3.2 World Robot Electric Parallel Grippers Production Value by Gripping Force (N) (2021-2032)

7.3.3 World Robot Electric Parallel Grippers Average Price by Gripping Force (N) (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Robot Electric Parallel Grippers Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automotive Manufacturing

8.2.2 Pharmaceutical Manufacturing

8.2.3 Food and Beverage

8.2.4 Aerospace

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Robot Electric Parallel Grippers Production by Application (2021-2032)

8.3.2 World Robot Electric Parallel Grippers Production Value by Application
(2021-2032)

8.3.3 World Robot Electric Parallel Grippers Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 SCHUNK

9.1.1 SCHUNK Details

9.1.2 SCHUNK Major Business

9.1.3 SCHUNK Robot Electric Parallel Grippers Product and Services

9.1.4 SCHUNK Robot Electric Parallel Grippers Production, Price, Value, Gross
Margin and Market Share (2021-2026)

9.1.5 SCHUNK Recent Developments/Updates

9.1.6 SCHUNK Competitive Strengths & Weaknesses

9.2 Festo

9.2.1 Festo Details

9.2.2 Festo Major Business

9.2.3 Festo Robot Electric Parallel Grippers Product and Services

9.2.4 Festo Robot Electric Parallel Grippers Production, Price, Value, Gross Margin
and Market Share (2021-2026)

9.2.5 Festo Recent Developments/Updates

9.2.6 Festo Competitive Strengths & Weaknesses

9.3 Zimmer Group

9.3.1 Zimmer Group Details

9.3.2 Zimmer Group Major Business

9.3.3 Zimmer Group Robot Electric Parallel Grippers Product and Services

9.3.4 Zimmer Group Robot Electric Parallel Grippers Production, Price, Value, Gross
Margin and Market Share (2021-2026)

9.3.5 Zimmer Group Recent Developments/Updates

9.3.6 Zimmer Group Competitive Strengths & Weaknesses

9.4 SMC Corporation

9.4.1 SMC Corporation Details

9.4.2 SMC Corporation Major Business

9.4.3 SMC Corporation Robot Electric Parallel Grippers Product and Services

9.4.4 SMC Corporation Robot Electric Parallel Grippers Production, Price, Value,
Gross Margin and Market Share (2021-2026)

9.4.5 SMC Corporation Recent Developments/Updates

9.4.6 SMC Corporation Competitive Strengths & Weaknesses

9.5 Weiss Robotics

- 9.5.1 Weiss Robotics Details
- 9.5.2 Weiss Robotics Major Business
- 9.5.3 Weiss Robotics Robot Electric Parallel Grippers Product and Services
- 9.5.4 Weiss Robotics Robot Electric Parallel Grippers Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 Weiss Robotics Recent Developments/Updates
- 9.5.6 Weiss Robotics Competitive Strengths & Weaknesses
- 9.6 OnRobot
 - 9.6.1 OnRobot Details
 - 9.6.2 OnRobot Major Business
 - 9.6.3 OnRobot Robot Electric Parallel Grippers Product and Services
 - 9.6.4 OnRobot Robot Electric Parallel Grippers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 OnRobot Recent Developments/Updates
 - 9.6.6 OnRobot Competitive Strengths & Weaknesses
- 9.7 Gimatic
 - 9.7.1 Gimatic Details
 - 9.7.2 Gimatic Major Business
 - 9.7.3 Gimatic Robot Electric Parallel Grippers Product and Services
 - 9.7.4 Gimatic Robot Electric Parallel Grippers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Gimatic Recent Developments/Updates
 - 9.7.6 Gimatic Competitive Strengths & Weaknesses
- 9.8 Destaco
 - 9.8.1 Destaco Details
 - 9.8.2 Destaco Major Business
 - 9.8.3 Destaco Robot Electric Parallel Grippers Product and Services
 - 9.8.4 Destaco Robot Electric Parallel Grippers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Destaco Recent Developments/Updates
 - 9.8.6 Destaco Competitive Strengths & Weaknesses
- 9.9 Robotiq
 - 9.9.1 Robotiq Details
 - 9.9.2 Robotiq Major Business
 - 9.9.3 Robotiq Robot Electric Parallel Grippers Product and Services
 - 9.9.4 Robotiq Robot Electric Parallel Grippers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Robotiq Recent Developments/Updates
 - 9.9.6 Robotiq Competitive Strengths & Weaknesses

9.10 IAI Corporation

9.10.1 IAI Corporation Details

9.10.2 IAI Corporation Major Business

9.10.3 IAI Corporation Robot Electric Parallel Grippers Product and Services

9.10.4 IAI Corporation Robot Electric Parallel Grippers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 IAI Corporation Recent Developments/Updates

9.10.6 IAI Corporation Competitive Strengths & Weaknesses

9.11 CKD

9.11.1 CKD Details

9.11.2 CKD Major Business

9.11.3 CKD Robot Electric Parallel Grippers Product and Services

9.11.4 CKD Robot Electric Parallel Grippers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 CKD Recent Developments/Updates

9.11.6 CKD Competitive Strengths & Weaknesses

9.12 New Scale Robotics

9.12.1 New Scale Robotics Details

9.12.2 New Scale Robotics Major Business

9.12.3 New Scale Robotics Robot Electric Parallel Grippers Product and Services

9.12.4 New Scale Robotics Robot Electric Parallel Grippers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 New Scale Robotics Recent Developments/Updates

9.12.6 New Scale Robotics Competitive Strengths & Weaknesses

9.13 DH-Robotics

9.13.1 DH-Robotics Details

9.13.2 DH-Robotics Major Business

9.13.3 DH-Robotics Robot Electric Parallel Grippers Product and Services

9.13.4 DH-Robotics Robot Electric Parallel Grippers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 DH-Robotics Recent Developments/Updates

9.13.6 DH-Robotics Competitive Strengths & Weaknesses

9.14 HITBOT

9.14.1 HITBOT Details

9.14.2 HITBOT Major Business

9.14.3 HITBOT Robot Electric Parallel Grippers Product and Services

9.14.4 HITBOT Robot Electric Parallel Grippers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 HITBOT Recent Developments/Updates

- 9.14.6 HITBOT Competitive Strengths & Weaknesses
- 9.15 JODELL Robotics
 - 9.15.1 JODELL Robotics Details
 - 9.15.2 JODELL Robotics Major Business
 - 9.15.3 JODELL Robotics Robot Electric Parallel Grippers Product and Services
 - 9.15.4 JODELL Robotics Robot Electric Parallel Grippers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 JODELL Robotics Recent Developments/Updates
 - 9.15.6 JODELL Robotics Competitive Strengths & Weaknesses
- 9.16 ChangingTek Robotics
 - 9.16.1 ChangingTek Robotics Details
 - 9.16.2 ChangingTek Robotics Major Business
 - 9.16.3 ChangingTek Robotics Robot Electric Parallel Grippers Product and Services
 - 9.16.4 ChangingTek Robotics Robot Electric Parallel Grippers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 ChangingTek Robotics Recent Developments/Updates
 - 9.16.6 ChangingTek Robotics Competitive Strengths & Weaknesses
- 9.17 HIWIN
 - 9.17.1 HIWIN Details
 - 9.17.2 HIWIN Major Business
 - 9.17.3 HIWIN Robot Electric Parallel Grippers Product and Services
 - 9.17.4 HIWIN Robot Electric Parallel Grippers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 HIWIN Recent Developments/Updates
 - 9.17.6 HIWIN Competitive Strengths & Weaknesses
- 9.18 TESOLLO
 - 9.18.1 TESOLLO Details
 - 9.18.2 TESOLLO Major Business
 - 9.18.3 TESOLLO Robot Electric Parallel Grippers Product and Services
 - 9.18.4 TESOLLO Robot Electric Parallel Grippers Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 TESOLLO Recent Developments/Updates
 - 9.18.6 TESOLLO Competitive Strengths & Weaknesses
- 9.19 KCC
 - 9.19.1 KCC Details
 - 9.19.2 KCC Major Business
 - 9.19.3 KCC Robot Electric Parallel Grippers Product and Services
 - 9.19.4 KCC Robot Electric Parallel Grippers Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.19.5 KCC Recent Developments/Updates

9.19.6 KCC Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Robot Electric Parallel Grippers Industry Chain

10.2 Robot Electric Parallel Grippers Upstream Analysis

10.2.1 Robot Electric Parallel Grippers Core Raw Materials

10.2.2 Main Manufacturers of Robot Electric Parallel Grippers Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Robot Electric Parallel Grippers Production Mode

10.6 Robot Electric Parallel Grippers Procurement Model

10.7 Robot Electric Parallel Grippers Industry Sales Model and Sales Channels

10.7.1 Robot Electric Parallel Grippers Sales Model

10.7.2 Robot Electric Parallel Grippers 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 Robot Electric Parallel Grippers Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Robot Electric Parallel Grippers Production Value by Region (2021-2026) & (USD Million)

Table 3. World Robot Electric Parallel Grippers Production Value by Region (2027-2032) & (USD Million)

Table 4. World Robot Electric Parallel Grippers Production Value Market Share by Region (2021-2026)

Table 5. World Robot Electric Parallel Grippers Production Value Market Share by Region (2027-2032)

Table 6. World Robot Electric Parallel Grippers Production by Region (2021-2026) & (K Units)

Table 7. World Robot Electric Parallel Grippers Production by Region (2027-2032) & (K Units)

Table 8. World Robot Electric Parallel Grippers Production Market Share by Region (2021-2026)

Table 9. World Robot Electric Parallel Grippers Production Market Share by Region (2027-2032)

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

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

Table 12. Robot Electric Parallel Grippers Major Market Trends

Table 13. World Robot Electric Parallel Grippers Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Robot Electric Parallel Grippers Consumption by Region (2021-2026) & (K Units)

Table 15. World Robot Electric Parallel Grippers Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Robot Electric Parallel Grippers Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Robot Electric Parallel Grippers Producers in 2025

Table 18. World Robot Electric Parallel Grippers Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Robot Electric Parallel Grippers Producers in 2025

Table 20. World Robot Electric Parallel Grippers Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Robot Electric Parallel Grippers Company Evaluation Quadrant

Table 22. World Robot Electric Parallel Grippers Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Robot Electric Parallel Grippers Production Site of Key Manufacturer

Table 24. Robot Electric Parallel Grippers Market: Company Product Type Footprint

Table 25. Robot Electric Parallel Grippers Market: Company Product Application Footprint

Table 26. Robot Electric Parallel Grippers Competitive Factors

Table 27. Robot Electric Parallel Grippers New Entrant and Capacity Expansion Plans

Table 28. Robot Electric Parallel Grippers Mergers & Acquisitions Activity

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

Table 30. United States VS China Robot Electric Parallel Grippers Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Robot Electric Parallel Grippers Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Robot Electric Parallel Grippers Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Robot Electric Parallel Grippers Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Robot Electric Parallel Grippers Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Robot Electric Parallel Grippers Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Robot Electric Parallel Grippers Production Market Share (2021-2026)

Table 37. China Based Robot Electric Parallel Grippers Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Robot Electric Parallel Grippers Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Robot Electric Parallel Grippers Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Robot Electric Parallel Grippers Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Robot Electric Parallel Grippers Production Market Share (2021-2026)

Table 42. Rest of World Based Robot Electric Parallel Grippers Manufacturers, Headquarters and Production Site (State, Country)

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

Table 44. Rest of World Based Manufacturers Robot Electric Parallel Grippers Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Robot Electric Parallel Grippers Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Robot Electric Parallel Grippers Production Market Share (2021-2026)

Table 47. World Robot Electric Parallel Grippers Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Robot Electric Parallel Grippers Production by Type (2021-2026) & (K Units)

Table 49. World Robot Electric Parallel Grippers Production by Type (2027-2032) & (K Units)

Table 50. World Robot Electric Parallel Grippers Production Value by Type (2021-2026) & (USD Million)

Table 51. World Robot Electric Parallel Grippers Production Value by Type (2027-2032) & (USD Million)

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

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

Table 54. World Robot Electric Parallel Grippers Production Value by Stroke, (USD Million), 2021 & 2025 & 2032

Table 55. World Robot Electric Parallel Grippers Production by Stroke (2021-2026) & (K Units)

Table 56. World Robot Electric Parallel Grippers Production by Stroke (2027-2032) & (K Units)

Table 57. World Robot Electric Parallel Grippers Production Value by Stroke (2021-2026) & (USD Million)

Table 58. World Robot Electric Parallel Grippers Production Value by Stroke (2027-2032) & (USD Million)

Table 59. World Robot Electric Parallel Grippers Average Price by Stroke (2021-2026) & (US\$/Unit)

Table 60. World Robot Electric Parallel Grippers Average Price by Stroke (2027-2032)

& (US\$/Unit)

Table 61. World Robot Electric Parallel Grippers Production Value by Gripping Force (N), (USD Million), 2021 & 2025 & 2032

Table 62. World Robot Electric Parallel Grippers Production by Gripping Force (N) (2021-2026) & (K Units)

Table 63. World Robot Electric Parallel Grippers Production by Gripping Force (N) (2027-2032) & (K Units)

Table 64. World Robot Electric Parallel Grippers Production Value by Gripping Force (N) (2021-2026) & (USD Million)

Table 65. World Robot Electric Parallel Grippers Production Value by Gripping Force (N) (2027-2032) & (USD Million)

Table 66. World Robot Electric Parallel Grippers Average Price by Gripping Force (N) (2021-2026) & (US\$/Unit)

Table 67. World Robot Electric Parallel Grippers Average Price by Gripping Force (N) (2027-2032) & (US\$/Unit)

Table 68. World Robot Electric Parallel Grippers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Robot Electric Parallel Grippers Production by Application (2021-2026) & (K Units)

Table 70. World Robot Electric Parallel Grippers Production by Application (2027-2032) & (K Units)

Table 71. World Robot Electric Parallel Grippers Production Value by Application (2021-2026) & (USD Million)

Table 72. World Robot Electric Parallel Grippers Production Value by Application (2027-2032) & (USD Million)

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

Table 74. World Robot Electric Parallel Grippers 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 Robot Electric Parallel Grippers Product and Services

Table 78. SCHUNK Robot Electric Parallel Grippers 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. Festo Basic Information, Manufacturing Base and Competitors

Table 82. Festo Major Business

Table 83. Festo Robot Electric Parallel Grippers Product and Services

Table 84. Festo Robot Electric Parallel Grippers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Festo Recent Developments/Updates

Table 86. Festo Competitive Strengths & Weaknesses

Table 87. Zimmer Group Basic Information, Manufacturing Base and Competitors

Table 88. Zimmer Group Major Business

Table 89. Zimmer Group Robot Electric Parallel Grippers Product and Services

Table 90. Zimmer Group Robot Electric Parallel Grippers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Zimmer Group Recent Developments/Updates

Table 92. Zimmer Group Competitive Strengths & Weaknesses

Table 93. SMC Corporation Basic Information, Manufacturing Base and Competitors

Table 94. SMC Corporation Major Business

Table 95. SMC Corporation Robot Electric Parallel Grippers Product and Services

Table 96. SMC Corporation Robot Electric Parallel Grippers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. SMC Corporation Recent Developments/Updates

Table 98. SMC Corporation Competitive Strengths & Weaknesses

Table 99. Weiss Robotics Basic Information, Manufacturing Base and Competitors

Table 100. Weiss Robotics Major Business

Table 101. Weiss Robotics Robot Electric Parallel Grippers Product and Services

Table 102. Weiss Robotics Robot Electric Parallel Grippers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Weiss Robotics Recent Developments/Updates

Table 104. Weiss Robotics Competitive Strengths & Weaknesses

Table 105. OnRobot Basic Information, Manufacturing Base and Competitors

Table 106. OnRobot Major Business

Table 107. OnRobot Robot Electric Parallel Grippers Product and Services

Table 108. OnRobot Robot Electric Parallel Grippers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. OnRobot Recent Developments/Updates

Table 110. OnRobot Competitive Strengths & Weaknesses

Table 111. Gimatic Basic Information, Manufacturing Base and Competitors

Table 112. Gimatic Major Business

Table 113. Gimatic Robot Electric Parallel Grippers Product and Services

Table 114. Gimatic Robot Electric Parallel Grippers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Gimatic Recent Developments/Updates

Table 116. Gimatic Competitive Strengths & Weaknesses

Table 117. Destaco Basic Information, Manufacturing Base and Competitors

Table 118. Destaco Major Business

Table 119. Destaco Robot Electric Parallel Grippers Product and Services

Table 120. Destaco Robot Electric Parallel Grippers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Destaco Recent Developments/Updates

Table 122. Destaco Competitive Strengths & Weaknesses

Table 123. Robotiq Basic Information, Manufacturing Base and Competitors

Table 124. Robotiq Major Business

Table 125. Robotiq Robot Electric Parallel Grippers Product and Services

Table 126. Robotiq Robot Electric Parallel Grippers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Robotiq Recent Developments/Updates

Table 128. Robotiq Competitive Strengths & Weaknesses

Table 129. IAI Corporation Basic Information, Manufacturing Base and Competitors

Table 130. IAI Corporation Major Business

Table 131. IAI Corporation Robot Electric Parallel Grippers Product and Services

Table 132. IAI Corporation Robot Electric Parallel Grippers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. IAI Corporation Recent Developments/Updates

Table 134. IAI Corporation Competitive Strengths & Weaknesses

Table 135. CKD Basic Information, Manufacturing Base and Competitors

Table 136. CKD Major Business

Table 137. CKD Robot Electric Parallel Grippers Product and Services

Table 138. CKD Robot Electric Parallel Grippers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. CKD Recent Developments/Updates

Table 140. CKD Competitive Strengths & Weaknesses

Table 141. New Scale Robotics Basic Information, Manufacturing Base and Competitors

Table 142. New Scale Robotics Major Business

Table 143. New Scale Robotics Robot Electric Parallel Grippers Product and Services

Table 144. New Scale Robotics Robot Electric Parallel Grippers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. New Scale Robotics Recent Developments/Updates

Table 146. New Scale Robotics Competitive Strengths & Weaknesses

Table 147. DH-Robotics Basic Information, Manufacturing Base and Competitors

Table 148. DH-Robotics Major Business

Table 149. DH-Robotics Robot Electric Parallel Grippers Product and Services

Table 150. DH-Robotics Robot Electric Parallel Grippers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. DH-Robotics Recent Developments/Updates

Table 152. DH-Robotics Competitive Strengths & Weaknesses

Table 153. HITBOT Basic Information, Manufacturing Base and Competitors

Table 154. HITBOT Major Business

Table 155. HITBOT Robot Electric Parallel Grippers Product and Services

Table 156. HITBOT Robot Electric Parallel Grippers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. HITBOT Recent Developments/Updates

Table 158. HITBOT Competitive Strengths & Weaknesses

Table 159. JODELL Robotics Basic Information, Manufacturing Base and Competitors

Table 160. JODELL Robotics Major Business

Table 161. JODELL Robotics Robot Electric Parallel Grippers Product and Services

Table 162. JODELL Robotics Robot Electric Parallel Grippers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. JODELL Robotics Recent Developments/Updates

Table 164. JODELL Robotics Competitive Strengths & Weaknesses

Table 165. ChangingTek Robotics Basic Information, Manufacturing Base and Competitors

Table 166. ChangingTek Robotics Major Business

Table 167. ChangingTek Robotics Robot Electric Parallel Grippers Product and Services

Table 168. ChangingTek Robotics Robot Electric Parallel Grippers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. ChangingTek Robotics Recent Developments/Updates

Table 170. ChangingTek Robotics Competitive Strengths & Weaknesses

Table 171. HIWIN Basic Information, Manufacturing Base and Competitors

Table 172. HIWIN Major Business

Table 173. HIWIN Robot Electric Parallel Grippers Product and Services

Table 174. HIWIN Robot Electric Parallel Grippers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. HIWIN Recent Developments/Updates

Table 176. HIWIN Competitive Strengths & Weaknesses

Table 177. TESOLLO Basic Information, Manufacturing Base and Competitors

Table 178. TESOLLO Major Business

Table 179. TESOLLO Robot Electric Parallel Grippers Product and Services

Table 180. TESOLLO Robot Electric Parallel Grippers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. TESOLLO Recent Developments/Updates

Table 182. TESOLLO Competitive Strengths & Weaknesses

Table 183. KCC Basic Information, Manufacturing Base and Competitors

Table 184. KCC Major Business

Table 185. KCC Robot Electric Parallel Grippers Product and Services

Table 186. KCC Robot Electric Parallel Grippers Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. KCC Recent Developments/Updates

Table 188. KCC Competitive Strengths & Weaknesses

Table 189. Global Key Players of Robot Electric Parallel Grippers Upstream (Raw Materials)

Table 190. Global Robot Electric Parallel Grippers Typical Customers

Table 191. Robot Electric Parallel Grippers Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Robot Electric Parallel Grippers Picture

Figure 2. World Robot Electric Parallel Grippers Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Robot Electric Parallel Grippers Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Robot Electric Parallel Grippers Production (2021-2032) & (K Units)

Figure 5. World Robot Electric Parallel Grippers Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Robot Electric Parallel Grippers Production Value Market Share by Region (2021-2032)

Figure 7. World Robot Electric Parallel Grippers Production Market Share by Region (2021-2032)

Figure 8. North America Robot Electric Parallel Grippers Production (2021-2032) & (K Units)

Figure 9. Europe Robot Electric Parallel Grippers Production (2021-2032) & (K Units)

Figure 10. China Robot Electric Parallel Grippers Production (2021-2032) & (K Units)

Figure 11. Japan Robot Electric Parallel Grippers Production (2021-2032) & (K Units)

Figure 12. Robot Electric Parallel Grippers Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Robot Electric Parallel Grippers Consumption (2021-2032) & (K Units)

Figure 15. World Robot Electric Parallel Grippers Consumption Market Share by Region (2021-2032)

Figure 16. United States Robot Electric Parallel Grippers Consumption (2021-2032) & (K Units)

Figure 17. China Robot Electric Parallel Grippers Consumption (2021-2032) & (K Units)

Figure 18. Europe Robot Electric Parallel Grippers Consumption (2021-2032) & (K Units)

Figure 19. Japan Robot Electric Parallel Grippers Consumption (2021-2032) & (K Units)

Figure 20. South Korea Robot Electric Parallel Grippers Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Robot Electric Parallel Grippers Consumption (2021-2032) & (K Units)

Figure 22. India Robot Electric Parallel Grippers Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Robot Electric Parallel Grippers by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Robot Electric Parallel Grippers Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Robot Electric Parallel Grippers Markets in 2025

Figure 26. United States VS China: Robot Electric Parallel Grippers Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Robot Electric Parallel Grippers Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Robot Electric Parallel Grippers Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Robot Electric Parallel Grippers Production Market Share 2025

Figure 30. China Based Manufacturers Robot Electric Parallel Grippers Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Robot Electric Parallel Grippers Production Market Share 2025

Figure 32. World Robot Electric Parallel Grippers Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Robot Electric Parallel Grippers Production Value Market Share by Type in 2025

Figure 34. Two-Jaw Electric Parallel Grippers

Figure 35. Three-Jaw Electric Parallel Grippers

Figure 36. Others

Figure 37. World Robot Electric Parallel Grippers Production Market Share by Type (2021-2032)

Figure 38. World Robot Electric Parallel Grippers Production Value Market Share by Type (2021-2032)

Figure 39. World Robot Electric Parallel Grippers Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Robot Electric Parallel Grippers Production Value by Stroke, (USD Million), 2021 & 2025 & 2032

Figure 41. World Robot Electric Parallel Grippers Production Value Market Share by Stroke in 2025

Figure 42. ≤30 mm

Figure 43. 30-100 mm

Figure 44. ≥100 mm

Figure 45. World Robot Electric Parallel Grippers Production Market Share by Stroke (2021-2032)

Figure 46. World Robot Electric Parallel Grippers Production Value Market Share by

Stroke (2021-2032)

Figure 47. World Robot Electric Parallel Grippers Average Price by Stroke (2021-2032) & (US\$/Unit)

Figure 48. World Robot Electric Parallel Grippers Production Value by Gripping Force (N), (USD Million), 2021 & 2025 & 2032

Figure 49. World Robot Electric Parallel Grippers Production Value Market Share by Gripping Force (N) in 2025

Figure 50. ?100

Figure 51. 100-300

Figure 52. ?300

Figure 53. World Robot Electric Parallel Grippers Production Market Share by Gripping Force (N) (2021-2032)

Figure 54. World Robot Electric Parallel Grippers Production Value Market Share by Gripping Force (N) (2021-2032)

Figure 55. World Robot Electric Parallel Grippers Average Price by Gripping Force (N) (2021-2032) & (US\$/Unit)

Figure 56. World Robot Electric Parallel Grippers Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Robot Electric Parallel Grippers Production Value Market Share by Application in 2025

Figure 58. Automotive Manufacturing

Figure 59. Pharmaceutical Manufacturing

Figure 60. Food and Beverage

Figure 61. Aerospace

Figure 62. Others

Figure 63. World Robot Electric Parallel Grippers Production Market Share by Application (2021-2032)

Figure 64. World Robot Electric Parallel Grippers Production Value Market Share by Application (2021-2032)

Figure 65. World Robot Electric Parallel Grippers Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. Robot Electric Parallel Grippers Industry Chain

Figure 67. Robot Electric Parallel Grippers Procurement Model

Figure 68. Robot Electric Parallel Grippers Sales Model

Figure 69. Robot Electric Parallel Grippers Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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