

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

<https://marketpublishers.com/r/GD9584326BC9EN.html>

Date: August 2026

Pages: 152

Price: US\$ 4,480.00 (Single User License)

ID: GD9584326BC9EN

Abstracts

The global Robot Parallel Electric Gripper 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 Parallel Electric Gripper production reached approximately 510 k units?with an average global market price of around US\$ 2100 per unit, and a gross profit margin of approximately 20%-40%. Robot Parallel Electric Grippers are electrically driven robotic end effectors whose two opposing jaws move along parallel linear paths to grip, hold, position, transfer, and release workpieces. A typical product integrates a servo motor, stepper motor, 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. These grippers provide programmable stroke, adjustable gripping force, intermediate positioning, object detection, and operating-status feedback. Commercial products are widely used with collaborative and light industrial robots for machine tending, assembly, inspection, and material handling.

The industrial chain of Robot Parallel Electric 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 development, precision machining, actuator integration, sensor installation, force-position control, 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 component production, packaging, logistics, laboratory automation, medical-product handling, and flexible manufacturing.

The Robot Parallel Electric Gripper market is expected to grow rapidly as manufacturers replace fixed pneumatic handling equipment with flexible robotic systems capable of processing different workpiece sizes and smaller production batches. Programmable stroke and gripping force allow one gripper to handle multiple products with fewer mechanical adjustments, while integrated sensing improves object detection, process monitoring, and protection of fragile components. 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, lower power consumption, industrial-network connectivity, cleanroom compatibility, and simplified robot programming. Collaborative-robot adoption is increasing demand for plug-and-play products, while industrial users emphasize durability, environmental protection, and reliable continuous operation. Important challenges include higher purchase costs than pneumatic grippers, motor and transmission wear, heat dissipation, control complexity, customized finger requirements, and competition from pneumatic, vacuum, magnetic, and multifunctional gripping technologies.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Robot Parallel 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, 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 Parallel 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 Robot Parallel Electric Gripper Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robot Parallel Electric Gripper Market, Segmentation by Type:

Two-Jaw Type

Three-Jaw Type

Others

Global Robot Parallel Electric Gripper Market, Segmentation by Stroke:

≤30 mm

30-100 mm

≥100 mm

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

≤100

100-300

≥300

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

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