

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

<https://marketpublishers.com/r/GC568075D600EN.html>

Date: January 2026

Pages: 149

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

ID: GC568075D600EN

Abstracts

The global Robot Electric Gripper market size is expected to reach \$ 5760 million by 2032, rising at a market growth of 34.8% CAGR during the forecast period (2026-2032). In 2025, global Robot Electric Gripper production reached approximately 313k units, with an average global market price of around US\$2200 per unit.

Robot Electric Gripper is an electrically actuated end-of-arm tool (EOAT) mounted on industrial or collaborative robots, using a motor plus transmission (e.g., ball screw, gears, belt) and embedded control/sensing (position, current/force estimation, temperature, etc.) to deliver adjustable gripping force, repeatable positioning, and stable handling. Compared with pneumatic grippers, electric grippers enable finer force/position control, easier parameterized programming, and less dependence on compressed air, making them well-suited for electronics assembly, machine tending, medical/cleanroom tasks, and other precision handling use cases.

Upstream of robot electric grippers are critical materials and components such as rare-earth permanent magnets, copper, engineering plastics and aluminum alloys, bearings, ball screws/linear guides, encoders/sensors, power semiconductors, and connectors. Midstream manufacturers design the mechanical form (parallel/angle/3-finger, etc.), integrate drivetrain + electronics, and deliver parameterized software and safety compliance. Downstream demand comes from automotive, electronics (3C), semiconductors, metalworking/machine tending, Li-ion battery, food & pharma, and logistics/packaging lines?often purchased via automation OEMs and system integrators. Representative upstream suppliers include: rare earths (e.g., China Northern Rare Earth, Lynas), magnetic materials (e.g., Hitachi Metals/Proterial, VAC), bearings (SKF, Schaeffler, NSK), ball screws/linear guides (THK, HIWIN, Bosch Rexroth), connectors (TE Connectivity, Hirose), and power semiconductors (Infineon, onsemi). Representative downstream companies include Toyota/BMW (auto), Foxconn (electronics manufacturing), TSMC/ASML (semiconductor ecosystem), CATL (battery),

and Amazon (logistics/e-commerce).

From a market perspective, robot electric grippers are in a clear upgrade cycle: moving from pneumatic replacement to broader electrification, and from simple gripping to sensing- and software-driven performance. Demand from automotive, electronics, Li-ion battery, and machine tending keeps raising requirements for consistency, takt time, and traceability?areas where electric grippers excel via parameterization, condition monitoring, and compliant control. In parallel, higher cobot adoption and the shift toward flexible, high-mix/low-volume production are accelerating needs for fast changeover, ?recipe-based? setups, and plug-and-play fieldbus integration?supporting wider use of adaptive multi-finger hands, soft gripping, and closed-loop force control. Key drivers include labor and quality pressure, energy/maintenance reduction by minimizing compressed-air systems, yield improvement for delicate parts, and factory digitalization (data logging, predictive maintenance, traceability). Headwinds include higher upfront cost than pneumatics, greater tuning/control complexity, reliability and protection challenges in harsh environments (dust, coolant, oil), and supply-chain variability for motors, sensors, and power electronics that can affect cost and lead time. Some ultra-fast, simple pick-and-place stations may still favor low-cost pneumatic solutions. Overall, the trend is toward lighter designs, stronger force control and self-diagnostics, deeper integration (actuation + control + communication), cobot-safe features, and industry-specific kits?shifting competition from pure hardware to ecosystems, application ?process packages,? and service/channel capability.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Robot 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, SMC, Destaco, Festo, IAI, Yamaha Motor, Parker Hannifin, Zimmer, SMAC, Gimatic, 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 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 Electric Gripper Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robot Electric Gripper Market, Segmentation by Type:

Clamping Force?50N

50N?Clamping Force?100N

Clamping Force?100N

Global Robot Electric Gripper Market, Segmentation by Number of Fingers:

Two-Finger

Three- Finger

Others

Global Robot Electric Gripper Market, Segmentation by Stroke:

Short Stroke

Medium Stroke

Long Stroke

Global Robot Electric Gripper Market, Segmentation by Application:

Automotive

Semiconductor and Electronics

Food and Drinks

Medicine

Logistics

Others

Companies Profiled:

SCHUNK

SMC

Destaco

Festo

IAI

Yamaha Motor

Parker Hannifin

Zimmer

SMAC

Gimatic

Oriental Motor

PHD

HIWIN

Robotiq

OnRobot

Jodell

FIPA

DH-Robotics

Hitbot

Inspire-Robots

Key Questions Answered:

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

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