

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

<https://marketpublishers.com/r/G3F02D0CA13FEN.html>

Date: August 2026

Pages: 154

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

ID: G3F02D0CA13FEN

Abstracts

The global Smart Robot Gripper market size is expected to reach \$ 4607 million by 2032, rising at a market growth of 15.1% CAGR during the forecast period (2026-2032).

In 2025, global Smart Robot Gripper production reached approximately 811 k units?with an average global market price of around US\$ 2,200 per unit, and a gross profit margin of approximately 20%-40%. Smart Robot Grippers are intelligent end-of-arm tools that combine mechanical gripping structures with sensors, control electronics, software, and communication interfaces to perform flexible and adaptive object handling. A typical product integrates electric, pneumatic, vacuum, magnetic, or soft actuation mechanisms, replaceable fingers or suction interfaces, position sensors, force feedback, object-detection logic, embedded controllers, robot adapters, and industrial communication interfaces. Product types include smart electric parallel grippers, adaptive two-finger grippers, three-finger grippers, vacuum grippers, magnetic grippers, soft grippers, and AI-assisted gripping modules. Commercial products already emphasize plug-and-play integration, adjustable gripping force and stroke, object detection, and compatibility with collaborative and industrial robot platforms.

The industrial chain of Smart Robot Grippers includes upstream aluminum alloys, stainless steel, engineering plastics, elastomers, motors, reducers, screws, gears, pneumatic components, vacuum generators, magnets, tactile sensors, force sensors, encoders, controllers, PCBs, cables, connectors, communication chips, and software modules. Midstream activities include gripper structure design, gripping-force calculation, actuator integration, sensor fusion, finger design, embedded control development, force-position control, object-detection algorithm development, robot-interface adaptation, plug-and-play software development, safety validation, assembly, calibration, repeatability testing, gripping-force testing, lifecycle testing, and

environmental testing. Downstream applications include machine tending, assembly, packaging, logistics, electronics manufacturing, food handling, pharmaceuticals, laboratory automation, inspection, service robots, humanoid robots, and flexible manufacturing cells. Intelligent products are increasingly linked with IO-Link, robot software ecosystems, and status-monitoring functions.

The Smart Robot Gripper market is expected to grow rapidly as factories move from fixed automation toward flexible robotic cells that can handle mixed products, smaller batches, fragile parts, irregular shapes, and frequent changeovers. Demand is shifting from simple open-close gripping toward intelligent end-of-arm tools with programmable force, adjustable stroke, object detection, force or tactile feedback, status monitoring, and easier integration with robot software. Electric adaptive grippers are gaining importance in machine tending, assembly, electronics, logistics, laboratory automation, and collaborative robot applications, while smart vacuum, magnetic, soft, and multi-finger grippers are expanding robot use in cartons, sheet metal, food, pharmaceuticals, and delicate components. Product development is focused on lighter structures, higher gripping reliability, integrated sensing, edge control, plug-and-play deployment, modular fingers, energy-efficient actuation, predictive maintenance, and closer connection with vision and AI grasp-planning systems. Key challenges include price pressure, sensor durability, software compatibility, customized finger requirements, irregular-object grasping reliability, safety certification, payload limits, and competition from low-cost pneumatic or task-specific gripping solutions.

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

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

Highlights and key features of the study

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

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

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

Global Smart Robot Gripper consumption by region & country, CAGR, 2021-2032 & (K

Units)

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

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

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

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

This report profiles key players in the global Smart Robot 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, OnRobot, Weiss Robotics, Schmalz, Robotiq, IAI Corporation, Piab, 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 Smart Robot 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 Smart Robot Gripper Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Smart Robot Gripper Market, Segmentation by Type:

Parallel Gripper

Angular Gripper

Others

Global Smart Robot Gripper Market, Segmentation by Drive Method:

Electric Grippers

Pneumatic Grippers

Vacuum Grippers

Magnetic Grippers

Others

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

≤100

100-300

≥300

Global Smart Robot Gripper Market, Segmentation by Application:

Automotive Manufacturing

Pharmaceutical Manufacturing

Food and Beverage

Others

Companies Profiled:

SCHUNK

Festo

Zimmer Group

SMC Corporation

OnRobot

Weiss Robotics

Schmalz

Robotiq

IAI Corporation

Piab

qb robotics

New Scale Robotics

DH-Robotics

HITBOT

JODELL Robotics

HIWIN

ChangingTek Robotics

Inspire Robots

TESOLLO

KCC

Key Questions Answered:

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

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