

Global Robotic Electro-permanent Magnetic Gripper Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Robotic Electro-permanent Magnetic Gripper market size is expected to reach \$ 107 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

In 2025, global sales of Robotic Electro-permanent Magnetic Gripper reached approximately 30,000?38,000 units, with an average market price of about USD 1,400?1,800 unit, an annual production capacity of roughly 35,000?42,000 units, and an industry-average gross margin of approximately 35%.

Robotic Electro-permanent Magnetic Grippers are magnetic gripping devices designed for robots, manipulators, gantry systems, automated handling units and other end-of-arm tooling applications. They use an electro-permanent magnetic circuit that typically combines permanent magnetic materials, reversible magnetic elements, excitation coils, magnetic pole structures, control electronics, sensors and robot mounting interfaces. A short electrical pulse is used to switch the magnetic field on or off, while the holding force is maintained primarily by permanent magnets during the gripping phase. This enables low energy consumption, fail-safe holding during power loss, fast pick-and-release cycles and compact integration into robotic automation. The product scope mainly covers compact standard EPM grippers, intelligent magnetic grippers with integrated electronics and feedback, heavy-duty customized EPM end-of-arm tools, multi-pole magnetic arrays for gantry robots, and small solid-state EPM modules for robotics, drones and mobile platforms. Typical applications include handling, loading, unloading, sorting, positioning, palletizing and transferring ferromagnetic sheets, blanks, profiles, tubes, machined parts, welded components and steel structures in automated manufacturing environments.

This report studies the global Robotic Electro-permanent Magnetic Gripper production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Robotic Electro-permanent Magnetic 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 Robotic Electro-permanent Magnetic Gripper that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Robotic Electro-permanent Magnetic Gripper total production and demand, 2021-2032, (K Units)

Global Robotic Electro-permanent Magnetic Gripper total production value, 2021-2032, (USD Million)

Global Robotic Electro-permanent Magnetic Gripper production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Robotic Electro-permanent Magnetic Gripper consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Robotic Electro-permanent Magnetic Gripper domestic production, consumption, key domestic manufacturers and share

Global Robotic Electro-permanent Magnetic Gripper production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Robotic Electro-permanent Magnetic Gripper production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Robotic Electro-permanent Magnetic Gripper production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Robotic Electro-permanent Magnetic 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 SE & Co. KG, Magswitch Technology Inc., Zhuzhou HVR Magnetics Co., Ltd., OnRobot A/S, Pascal Corporation, Goudsmit Magnetics Group B.V., Eclipse Magnetics Ltd., MAGBAT-Europe, BRAILLON MAGNETICS, Hunan Qianhao, 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 Robotic Electro-permanent Magnetic 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 Robotic Electro-permanent Magnetic Gripper Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robotic Electro-permanent Magnetic Gripper Market, Segmentation by Type:

Light-duty (<25 kg)

Medium-duty (25-100 kg)

Heavy-duty (>100 kg)

Global Robotic Electro-permanent Magnetic Gripper Market, Segmentation by Magnet Area:

Small Magnet Area (<30 cm²)

Medium Magnet Area (30-100 cm²)

Large Magnet Area (>100 cm²)

Global Robotic Electro-permanent Magnetic Gripper Market, Segmentation by Application:

Automotive

Aerospace

Others

Companies Profiled:

SCHUNK SE & Co. KG

Magswitch Technology Inc.

Zhuzhou HVR Magnetics Co., Ltd.

OnRobot A/S

Pascal Corporation

Goudsmit Magnetics Group B.V.

Eclipse Magnetics Ltd.

MAGBAT-Europe

BRAILLON MAGNETICS

Hunan Qianhao

Zubax Robotics

MAGTWINS

Key Questions Answered:

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

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