

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

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Abstracts

The global Programmable Electric Grippers market size is expected to reach \$ 1137 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

In 2025, global Programmable Electric Grippers production reached approximately 145k units, with an average global market price of around US\$ 3800 per unit.

A programmable electric gripper is a robot end-of-arm tool driven by an internal motor (BLDC/stepper) and transmission (lead screw, rack-and-pinion, belt, or underactuated mechanism). It enables parameterized control of position/stroke, speed, gripping force (or current limit), modes, and feedback, allowing fast changeovers and consistent gripping across varying parts. Higher-end units add closed-loop force/position control, part detection, diagnostics, auto-calibration, and industrial interfaces (I/O, RS485/Modbus, EtherNet/IP, PROFINET, etc.), increasingly replacing pneumatic grippers for flexibility and data capture.

Upstream includes motors and drivetrain components (BLDC/stepper motors, lead screws/gears, bearings, guides), power/control electronics (drivers, encoders, MCUs/comms ICs), mechanical structures and lightweight materials (aluminum/steel, engineering plastics, seals), plus wiring/connectors. Midstream gripper makers integrate mechanics, firmware and gripping logic, closed-loop force/position control, protocol stacks, and calibration into standardized product families with adapter ecosystems. Downstream robot OEMs and integrators deploy them in electronics, automotive components, battery/solar, metalworking, pharma, and packaging lines for pick-and-place, machine tending, assembly, and inspection. Representative suppliers include SCHUNK, OnRobot, and Robotiq.

The annual production capacity of a single-line Programmable Electric Grippers is approximately 3k units, with a gross profit margin of approximately 25%-40%.

The programmable electric gripper market is accelerating from pneumatic dominance

toward electrically controlled, data-capable gripping, where the key value is not just clamping but turning gripping into a parameterized, traceable, diagnosable process step. On one hand, cobot adoption and flexible manufacturing boost penetration, with suppliers lowering integration friction via standardized adapters, software plugins, and pre-configured process recipes. On the other hand, in precision assembly and high-consistency operations, hybrid force/position control, part detection, and diagnostics become the main differentiators pushing grippers toward integrated sensing + control + communication modules. Drivers include labor constraints and throughput pressure, high-mix/low-volume production that demands fast changeovers, and stronger emphasis on quality traceability and condition monitoring. Headwinds include higher upfront cost versus pneumatic tooling, durability and protection challenges in harsh environments (dust/oil mist/high shocks), and engineering effort for compatibility across robot controllers and fieldbuses. Overall, suppliers combining robust mechanics, strong software ecosystems, and application-ready solutions tend to win as deployments scale. This report studies the global Programmable Electric Grippers production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Programmable Electric 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 Destaco, IAI Corporation, SMAC, Schunk, Festo, Zimmer, Gimatic, Robotiq, EMI, Onrobot, 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 Programmable Electric 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 Programmable Electric Grippers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Programmable Electric Grippers Market, Segmentation by Type:

Two-Finger Electric Gripper

Three- Finger Electric Gripper

Other

Global Programmable Electric Grippers Market, Segmentation by Stroke:

Short Stroke

Medium Stroke

Long Stroke

Global Programmable Electric Grippers Market, Segmentation by Clamping Force:

10?20 N

20?50 N

50?100 N

Others

Global Programmable Electric Grippers Market, Segmentation by Application:

Automotive

Logistics

Electronics

Medical

Other

Companies Profiled:

Destaco

IAI Corporation

SMAC

Schunk

Festo

Zimmer

Gimatic

Robotiq

EMI

Onrobot

Yamaha Motor

Oriental Motor

Weiss Robotics

PHD Inc

Allegro Hand

SmarAct

WOMMER

Huiling-tech

RobustMotion

DH-Robotics

Inspire Robots

Key Questions Answered:

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

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