

Global Robot End-of-Arm Compliance Device Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Robot End-of-Arm Compliance Device market size is expected to reach \$ 330 million by 2032, rising at a market growth of 13.2% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of Robot End-of-Arm Compliance Devices is estimated at approximately 42,000 units, with a global average market price of about USD 3,200 per unit. The gross margin of major manufacturers in the industry is estimated at around 35%-50%.

A Robot End-of-Arm Compliance Device is a compliant compensation device installed between the robot flange, end-of-arm tool or actuator. Through mechanical elasticity, pneumatic actuation, hydraulic actuation or electric active control, it compensates for position deviation, angular deviation, contact force fluctuation and assembly alignment error during robotic operations, thereby improving the stability of insertion, press-fitting, grinding, polishing, handling and other processes. Its key performance indicators include compensation force, compensation stroke, compensation degrees of freedom, rated load, force control accuracy, response speed, repeatability and mounting interface compatibility.

The upstream supply chain mainly includes elastic components, pneumatic components, hydraulic components, motors, sensors, controllers, bearings, guide rails, aluminum alloy/steel structural parts and sealing components. Downstream applications mainly include metal processing, automotive manufacturing, 3C electronics, new energy equipment, aerospace, semiconductor and other automation scenarios. The product value is concentrated in error compensation, constant force control, compliant contact, reduction of workpiece damage, and improvement of robotic assembly and surface

processing quality.

This report studies the global Robot End-of-Arm Compliance Device production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Robot End-of-Arm Compliance Device 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 End-of-Arm Compliance Device that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Robot End-of-Arm Compliance Device total production and demand, 2021-2032, (Units)

Global Robot End-of-Arm Compliance Device total production value, 2021-2032, (USD Million)

Global Robot End-of-Arm Compliance Device production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Robot End-of-Arm Compliance Device consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Robot End-of-Arm Compliance Device domestic production, consumption, key domestic manufacturers and share

Global Robot End-of-Arm Compliance Device production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Robot End-of-Arm Compliance Device production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Robot End-of-Arm Compliance Device production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Robot End-of-Arm Compliance Device 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 ATI Industrial Automation, PushCorp, DESTACO, PFA, Robotic Automation Devices, FerRobotics, SCHUNK, Zimmer Group, IPR, Bosch Rexroth, 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 End-of-Arm Compliance Device market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 End-of-Arm Compliance Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Robot End-of-Arm Compliance Device Market, Segmentation by Type:

Alignment Compensation

Force-Position Compensation

Floating Compensation

Compliance Compensation

Global Robot End-of-Arm Compliance Device Market, Segmentation by Compensation Force:

Light Load Type

Medium Load Type

Heavy Load Type

Global Robot End-of-Arm Compliance Device Market, Segmentation by Compensation Mechanism:

Mechanical Elastic Type

Pneumatic Type

Hydraulic Type

Electric Active Type

Global Robot End-of-Arm Compliance Device Market, Segmentation by Application:

Metal Processing

Automotive Manufacturing

3C Electronics

New Energy Equipment

Aerospace

Semiconductor

Other

Companies Profiled:

ATI Industrial Automation

PushCorp

DESTACO

PFA

Robotic Automation Devices

FerRobotics

SCHUNK

Zimmer Group

IPR

Bosch Rexroth

KOSMEK

BL AUTOTEC

EFFECTO Group

SUHNER

Huashu Robotics

Inlinbot

Shanghai Saiwider Robot

Key Questions Answered:

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

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