

Global Series Elastic Actuator Module?SEA Module? Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Series Elastic Actuator Module?SEA Module? market size is expected to reach \$ 5414 million by 2032, rising at a market growth of 11.8% CAGR during the forecast period (2026-2032).

A Series Elastic Actuator (SEA) Module is an integrated actuation unit in which an elastic element (typically a spring) is placed in series between the motor (or driving source) and the load. This configuration introduces controlled compliance, enabling more accurate force control, impact absorption, and safer human-robot interaction. An SEA module typically integrates the motor, gearbox, sensors (such as force or position sensors), and the elastic element into a compact, standardized unit widely used in robotic joints and high-dynamic motion systems. In 2025, global Series Elastic Actuator (SEA) Module production reached approximately 3.16 M units, with an average global market price of around US\$ 760 per unit. Annual production capacity is 3.63 M units. Gross Profit Margin: 38.5%. The Series Elastic Actuator (SEA) Module industry chain is structured into three main layers: upstream precision components, midstream actuator integration, and downstream application systems. Upstream includes core materials such as rare-earth magnets, copper windings, high-strength steels, and precision machining components for springs and gear systems. Midstream players integrate motors, gearboxes, elastic elements, sensors, and control electronics into compact actuator modules. Downstream demand is driven by humanoid robots, collaborative robots, legged robots, and medical rehabilitation systems, where force control and safe human-robot interaction are critical. Series Elastic Actuator (SEA) Module are transitioning from a research-driven niche technology to an early-stage industrial component market. However, the industry is still fragmented, with most companies favoring torque-controlled or harmonic-drive solutions instead of true series elastic architectures. In my view, the long-term value of this sector will depend less on pure

SEA adoption and more on how effectively compliance and force control become standardized across humanoid and collaborative robotics platforms.

This report studies the global Series Elastic Actuator Module?SEA Module? production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Series Elastic Actuator Module?SEA Module? 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 Series Elastic Actuator Module?SEA Module? that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Series Elastic Actuator Module?SEA Module? total production and demand, 2021-2032, (K Units)

Global Series Elastic Actuator Module?SEA Module? total production value, 2021-2032, (USD Million)

Global Series Elastic Actuator Module?SEA Module? production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Series Elastic Actuator Module?SEA Module? consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Series Elastic Actuator Module?SEA Module? domestic production, consumption, key domestic manufacturers and share

Global Series Elastic Actuator Module?SEA Module? production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Series Elastic Actuator Module?SEA Module? production by Integration Level, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Series Elastic Actuator Module?SEA Module? production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Series Elastic Actuator Module?SEA Module? 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 HEBI Robotics, Rethink Robotics, Franka Emika, Kollmorgen, Moog, Agile Robots, RoboDrive, Maxon Motor, Faulhaber, Harmonic Drive Systems, 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 Series Elastic Actuator Module?SEA Module? 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 Integration Level, 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 Series Elastic Actuator Module?SEA Module? Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Series Elastic Actuator Module?SEA Module? Market, Segmentation by Integration Level:

Discrete SEA Module

Semi-integrated SEA Module

Fully Integrated SEA Module

Global Series Elastic Actuator Module?SEA Module? Market, Segmentation by Elastic Element Type:

Spring-based SEA

Flexure-based SEA

Smart Material SEA

Global Series Elastic Actuator Module?SEA Module? Market, Segmentation by Torque:

Low Torque SEA Module?

Medium Torque SEA Module?10–100 Nm?

High Torque SEA Module?>100 Nm?

Global Series Elastic Actuator Module?SEA Module? Market, Segmentation by Application:

Industrial

Medical

Commercial

Others

Companies Profiled:

HEBI Robotics

Rethink Robotics

Franka Emika

Kollmorgen

Moog

Agile Robots

RoboDrive

Maxon Motor

Faulhaber

Harmonic Drive Systems

Unitree Robotics

Cubemars

Robstride

MyActuator

Dynamixel

Key Questions Answered:

1. How big is the global Series Elastic Actuator Module?SEA Module? market?
2. What is the demand of the global Series Elastic Actuator Module?SEA Module? market?
3. What is the year over year growth of the global Series Elastic Actuator Module?SEA Module? market?
4. What is the production and production value of the global Series Elastic Actuator Module?SEA Module? market?
5. Who are the key producers in the global Series Elastic Actuator Module?SEA Module? market?
6. What are the growth factors driving the market demand?

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