

# Global Series Elastic Actuator Module?SEA Module? Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Series Elastic Actuator Module?SEA Module? market size was valued at US\$ 2471 million in 2025 and is forecast to a readjusted size of US\$ 5414 million by 2032 with a CAGR of 11.8% during review period.

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 is a detailed and comprehensive analysis for global Series Elastic Actuator Module?SEA Module? market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Integration Level and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Series Elastic Actuator Module?SEA Module? market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Series Elastic Actuator Module?SEA Module? market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Series Elastic Actuator Module?SEA Module? market size and forecasts, by Integration Level and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Series Elastic Actuator Module?SEA Module? market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

#### The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Series Elastic Actuator Module?SEA Module?

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Series Elastic Actuator Module?SEA Module? market based on the following parameters - company overview, sales quantity, revenue, 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.

### Market Segmentation

Series Elastic Actuator Module?SEA Module? market is split by Integration Level and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Integration Level, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Integration Level

Discrete SEA Module

Semi-integrated SEA Module

Fully Integrated SEA Module

#### Market segment by Elastic Element Type

Spring-based SEA

Flexure-based SEA

Smart Material SEA

## Market segment by Torque

- Low Torque SEA Module?
- Medium Torque SEA Module? 10–100 Nm?
- High Torque SEA Module? >100 Nm?

## Market segment by Application

- Industrial
- Medical
- Commercial
- Others

## Major players covered

- HEBI Robotics
- Rethink Robotics
- Franka Emika
- Kollmorgen
- Moog
- Agile Robots
- RoboDrive
- Maxon Motor
- Faulhaber

Harmonic Drive Systems

Unitree Robotics

Cubemars

Robstride

MyActuator

Dynamixel

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Series Elastic Actuator Module?SEA Module? product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Series Elastic Actuator Module?SEA Module?, with price, sales quantity, revenue, and global market share of Series Elastic Actuator Module?SEA Module? from 2021 to 2026.

Chapter 3, the Series Elastic Actuator Module?SEA Module? competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Series Elastic Actuator Module?SEA Module? breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Integration Level and by Application, with sales market share and growth rate by Integration Level, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Series Elastic Actuator Module?SEA Module? market forecast, by regions, by Integration Level, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Series Elastic Actuator Module?SEA Module?.

Chapter 14 and 15, to describe Series Elastic Actuator Module?SEA Module? sales channel, distributors, customers, research findings and conclusion.

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