

Global Motor-less Single Axis Actuator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Motor-less Single Axis Actuator market size is expected to reach \$ 255 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

A motor-less single axis actuator is a high-precision mechanical module designed to provide controlled linear motion without an integrated power source. This 'motor-less' configuration offers engineers maximum flexibility, allowing them to install their own preferred servo, stepping, or manual drive motors via standardized mounting interfaces. These actuators typically consist of a rigid aluminum or steel base, a precision-ground ball screw or belt drive mechanism, and a high-performance linear guide system. Because they are decoupled from the motor, these units are exceptionally versatile, finding use in environments where specialized motors?such as explosion-proof, wash-down, or ultra-high-speed variants?are required. In 2026, they are a staple in modular factory automation, enabling rapid retooling and equipment downsizing. By providing a 'plug-and-play' mechanical foundation with high repeatability and moment rigidity, motor-less actuators allow manufacturers to focus on control logic and system integration rather than basic mechanical transmission design.

In 2025, global motor-less single axis actuator production reached approximately 1066.42 k units, with an average global market price of around US\$ 139.72 per unit. And global motor-less single axis actuator production capacity reached approximately 1400 k units. The average gross margin in this industry reached 27.26%.

The upstream supply chain for motor-less single axis actuators is centered on high-precision mechanical components and metallurgy. Since the actuator's performance depends entirely on its internal transmission and guidance, manufacturers rely on

suppliers who can provide sub-micron tolerances for rolling elements and high-tensile structural frames. Key upstream suppliers include NSK Ltd. (a primary provider of high-precision ball screws and integrated support bearings), THK Co., Ltd. (supplying specialized linear motion guides and rail systems), and Showa Shell (providing specialized industrial lubricants, such as Alvania Grease, essential for the long-term maintenance of these high-speed mechanical units). These suppliers ensure that the 'mechanical skeleton' of the actuator can handle significant payloads and high-cycle industrial operations without losing positioning accuracy.

The downstream segment involves the integration of these actuators into larger automated systems across high-growth industrial sectors. At this stage, value is added through the selection and mounting of compatible motors and the synchronization of the unit with a master PLC or motion controller. Major downstream customers and high-volume users include Yaskawa Electric Corporation (which integrates these actuators into bespoke robotic arms and Cartesian systems), Samsung Electronics (utilizing motor-less stages for high-precision semiconductor wafer handling and inspection), and BMW Group (deploying these units within automated chassis assembly lines and EV battery module production). The downstream market in 2026 is increasingly characterized by a demand for 'open-standard' mounting kits, allowing customers to easily switch between different motor brands to circumvent supply chain disruptions.

This report studies the global Motor-less Single Axis Actuator production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Motor-less Single Axis Actuator 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 Motor-less Single Axis Actuator that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Motor-less Single Axis Actuator total production and demand, 2021-2032, (K Units)

Global Motor-less Single Axis Actuator total production value, 2021-2032, (USD Million)

Global Motor-less Single Axis Actuator production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Motor-less Single Axis Actuator consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Motor-less Single Axis Actuator domestic production, consumption, key

domestic manufacturers and share

Global Motor-less Single Axis Actuator production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Motor-less Single Axis Actuator production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Motor-less Single Axis Actuator production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Motor-less Single Axis Actuator 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 Yamaha Motor, SMC, Reliance Precision, NSK, Toyo Robotics, KSS, Hiwin, TBI MOTION, 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 Motor-less Single Axis Actuator market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (USD/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 Motor-less Single Axis Actuator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Motor-less Single Axis Actuator Market, Segmentation by Type:

Slider Type

Rod Type

Other Types

Global Motor-less Single Axis Actuator Market, Segmentation by Stroke:

Stroke 30mm-100mm

Stroke 100-200mm

Other strokes

Global Motor-less Single Axis Actuator Market, Segmentation by Motor Mounting Configuration:

Straight-Mounted

Side-Mounted

Bottom-Mounted

Others

Global Motor-less Single Axis Actuator Market, Segmentation by Application:

Industrial Robotics

Other Industrial Equipment

Companies Profiled:

Yamaha Motor

SMC

Reliance Precision

NSK

Toyo Robotics

KSS

Hiwin

TBI MOTION

Key Questions Answered:

1. How big is the global Motor-less Single Axis Actuator market?
2. What is the demand of the global Motor-less Single Axis Actuator market?
3. What is the year over year growth of the global Motor-less Single Axis Actuator market?
4. What is the production and production value of the global Motor-less Single Axis Actuator market?
5. Who are the key producers in the global Motor-less Single Axis Actuator market?
6. What are the growth factors driving the market demand?

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