

# Global Soft Actuators Supply, Demand and Key Producers, 2024-2030

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## Abstracts

The global Soft Actuators market size is expected to reach \$ million by 2030, rising at a market growth of % CAGR during the forecast period (2024-2030).

Soft actuators, a class of devices designed to mimic the flexibility and compliance of natural muscles, have gained increasing attention due to their potential applications in fields such as robotics, biomedical devices, and wearable technologies. The market for soft actuators is driven by the growing demand for more versatile and adaptive robotic systems, as well as the need for comfortable and user-friendly wearable devices. Research and development in materials science and engineering are crucial for the future development of soft actuators, focusing on advancements in soft and flexible materials, shape-memory alloys, and smart polymers. The market is expected to witness continued growth as industries explore innovative applications in human-robot collaboration, prosthetics, and medical devices. Challenges such as power efficiency, control mechanisms, and scalability remain areas of active research. As technology progresses, the future of soft actuators holds promises of enhanced functionality, increased efficiency, and expanded applications across diverse industries.

Soft actuators are devices that enable controlled movement or deformation in a pliable and flexible manner. Unlike traditional rigid actuators, these devices are constructed from soft materials, allowing them to adapt to and interact with their surroundings more effectively. Soft actuators find applications in various fields, including robotics, biomedical devices, and wearable technology, where their flexibility and compliance offer advantages in terms of safety, adaptability, and natural interaction with the environment.

This report studies the global Soft Actuators production, demand, key manufacturers,

and key regions.

This report is a detailed and comprehensive analysis of the world market for Soft Actuators, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2023 as the base year. This report explores demand trends and competition, as well as details the characteristics of Soft Actuators that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Soft Actuators total production and demand, 2019-2030, (K Units)

Global Soft Actuators total production value, 2019-2030, (USD Million)

Global Soft Actuators production by region & country, production, value, CAGR, 2019-2030, (USD Million) & (K Units)

Global Soft Actuators consumption by region & country, CAGR, 2019-2030 & (K Units)

U.S. VS China: Soft Actuators domestic production, consumption, key domestic manufacturers and share

Global Soft Actuators production by manufacturer, production, price, value and market share 2019-2024, (USD Million) & (K Units)

Global Soft Actuators production by Type, production, value, CAGR, 2019-2030, (USD Million) & (K Units)

Global Soft Actuators production by Application production, value, CAGR, 2019-2030, (USD Million) & (K Units).

This reports profiles key players in the global Soft Actuators 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 Artimus Robotics, Bridgestone, SpectroPlast, ONROBOT ApS, Soft Robotics Tech, SoftGripping, ROCHU, Ubiros and Applied Robotics, 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 Soft Actuators 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 2019-2030 by year with 2023 as the base year, 2024 as the estimate year, and 2025-2030 as the forecast year.

Global Soft Actuators Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Soft Actuators Market, Segmentation by Type

Tendon-driven Actuators

Electroactive Polymers

Shape-memory Materials

Soft Fluidic Actuators (SFAs)

Hybrid Actuators

## Global Soft Actuators Market, Segmentation by Application

Soft Grippers

Artificial Muscles

Smart Wearable Sensors

Biomedical Devices

## Companies Profiled:

Artimus Robotics

Bridgestone

SpectroPlast

ONROBOT ApS

Soft Robotics Tech

SoftGripping

ROCHU

Ubiros

Applied Robotics

PIAB

Empire Robotics

iCobots

### Key Questions Answered

1. How big is the global Soft Actuators market?
2. What is the demand of the global Soft Actuators market?
3. What is the year over year growth of the global Soft Actuators market?
4. What is the production and production value of the global Soft Actuators market?
5. Who are the key producers in the global Soft Actuators market?

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