

# Global Artificial Muscles for Robots Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Artificial Muscles for Robots market size is expected to reach \$ 390 million by 2032, rising at a market growth of 17.4% CAGR during the forecast period (2026-2032).

Artificial muscles for robots are flexible actuators that mimic the contraction and extension mechanisms of biological muscles. They typically generate deformation and output mechanical force through electric fields, heat, air pressure, hydraulic pressure, or material phase changes. They replace traditional electric motors or hydraulic actuators, enabling robots to have greater compliance, lighter weight, and more human-like movement capabilities. They are widely used in soft robots, bionic robots, and precision manipulation equipment. In 2025, global sales of artificial muscles for robots were approximately 1.78 tons, with an average unit price of approximately US\$6,350 per kilogram and a capacity utilization rate of approximately 67%. Upstream companies mainly come from functional materials, intelligent polymer materials, flexible electronic devices, micro-actuators, sensors, and control chips. Midstream companies are manufacturers of artificial muscle actuators and core components for soft robots. Downstream companies mainly come from robot manufacturing, service robots, medical robots, industrial automation equipment, bionic robots, and wearable devices. The gross profit margin is high. Approximately 36% of the product cost structure consists of functional material costs, drive circuit and control module costs, precision machining and manufacturing costs, R&D and design costs, and system integration costs, with materials and R&D accounting for a relatively high proportion. On the demand side, the downstream demand list includes service robots, medical rehabilitation robots, industrial collaborative robots, educational and research robots, bionic robotic arms, wearable exoskeletons, and intelligent prosthetic systems. The downstream customer list includes robot manufacturers, medical equipment companies, automation equipment companies,

research institutions, and smart hardware companies. Regarding business opportunities, policy-driven factors mainly stem from government support for intelligent manufacturing, the robotics industry, and medical rehabilitation equipment. Technological innovation-driven factors are primarily reflected in breakthroughs in new electrostrictive materials, polymer drive materials, and soft robot technologies. Changing consumer demands are reflected in the continuously increasing market demand for safer, more flexible, and more human-like robots, thereby driving the gradual expansion of the commercial application of artificial muscles in robots.

Artificial muscles for robots are currently in a crucial transitional phase from research and application to industrialization. Their core value lies in changing the traditional robot technology that relies on rigid motor drives, enabling robots to achieve more compliant, safer, and higher-degree-of-freedom movements. Therefore, they have broad development prospects in service robots, medical rehabilitation robots, bionic robots, and precision manipulation fields. With the continuous maturation of soft robot technology, advanced functional materials, and artificial intelligence control algorithms, the performance of artificial muscles is continuously improving in terms of output force density, response speed, and lifespan, gradually meeting the conditions for commercialization. Simultaneously, the overall expansion of the robotics industry is also driving increased demand for new drive solutions. From an industry trend perspective, artificial muscles for robots will exhibit three main directions in the coming years: First, continuous innovation in material systems, such as breakthroughs in electrostrictive materials, shape memory alloys, and polymer fiber drive materials, thereby improving performance and reducing costs; second, applications are gradually moving from the laboratory to commercialization, with rapid growth in demand in areas such as medical rehabilitation equipment, intelligent prostheses, bionic robots, and human-robot collaborative devices; and third, the gradual improvement of the industrial chain, with strengthened collaboration among material suppliers, drive system companies, and robot manufacturers, promoting the formation of large-scale production capabilities. Overall, although artificial muscles still face certain challenges in terms of stability, cost, and control complexity, with the improvement of technological maturity and the expansion of the robotics market, this field is expected to become one of the key driving technologies for the next generation of robots and form a high-growth sub-industry in the next decade.

This report studies the global Artificial Muscles for Robots production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Artificial

Muscles for Robots 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 Artificial Muscles for Robots that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Artificial Muscles for Robots total production and demand, 2021-2032, (Tons)

Global Artificial Muscles for Robots total production value, 2021-2032, (USD Million)

Global Artificial Muscles for Robots production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Artificial Muscles for Robots consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Artificial Muscles for Robots domestic production, consumption, key domestic manufacturers and share

Global Artificial Muscles for Robots production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Artificial Muscles for Robots production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Artificial Muscles for Robots production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Artificial Muscles for Robots 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, Elysium Robotics, SRI, Festo, Clone Robotics, Shenzhen WOTE Advanced Materials, Shandong Dawn Polymer, 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 Artificial Muscles for Robots market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) 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 Artificial Muscles for Robots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Artificial Muscles for Robots Market, Segmentation by Type:

LCP-based Artificial Muscles

Fiber-based Artificial Muscles

Other

Global Artificial Muscles for Robots Market, Segmentation by Service life:

Standard Type

Long-Life Type

Global Artificial Muscles for Robots Market, Segmentation by Function:

Commercial Grade

Industrial Grade

Special Grade

Global Artificial Muscles for Robots Market, Segmentation by Application:

Robot Manipulators and Grippers

Robotic Prosthetics and Exoskeletons

Other

Companies Profiled:

Artimus Robotics

Elysium Robotics

SRI

Festo

Clone Robotics

Shenzhen WOTE Advanced Materials

Shandong Dawn Polymer

**Key Questions Answered:**

1. How big is the global Artificial Muscles for Robots market?
2. What is the demand of the global Artificial Muscles for Robots market?
3. What is the year over year growth of the global Artificial Muscles for Robots market?
4. What is the production and production value of the global Artificial Muscles for Robots market?

5. Who are the key producers in the global Artificial Muscles for Robots market?
6. What are the growth factors driving the market demand?

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