

Global Artificial Muscle Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Artificial Muscle market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Artificial muscles, which are also referred to as muscle-like actuators, are devices or materials that copy the functions of human muscle and can expand, contract, vary their stiffness, or rotate due to an external force (current, voltage, temperature, or pressure). There are three basic responses to actuation, expansion, contraction, and rotation. These can then be combined by a single device and used to create further different types of motion. There are three major groups that artificial muscles can be separated into: Electric field actuation, Pneumatic actuation, and Thermal actuation. Electric field actuation is carried out by polymers called Electro-Active Polymers (EAPs). Pneumatic actuation is carried out by pneumatic artificial muscles (PAMs), and these function by filling up a special pneumatic bladder with air pressurized to a specific pressure. The bladder fills and translates this motion to a contraction along the actuator's axis. SMA artificial muscles, while lightweight and useful in applications that require large force and displacement.

This report studies the global Artificial Muscle production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Artificial Muscle, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Artificial Muscle that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Artificial Muscle total production and demand, 2018-2029, (K Units)

Global Artificial Muscle total production value, 2018-2029, (USD Million)

Global Artificial Muscle production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Artificial Muscle consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: Artificial Muscle domestic production, consumption, key domestic manufacturers and share

Global Artificial Muscle production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global Artificial Muscle production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Artificial Muscle production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units)

This reports profiles key players in the global Artificial Muscle 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 NAU, Bayer(Artificial Muscle,Inc.), Steeper Inc, ?ssur, Coapt,LLC, BiomimeticProducts LLC., Korea Advanced Institute of Science and Technology, Chas A Blatchford & Sons and Blatchford, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Artificial Muscle 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 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Artificial Muscle Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Artificial Muscle Market, Segmentation by Type

Electric Field Actuation

Pneumatic Actuation

Thermal Actuation

Global Artificial Muscle Market, Segmentation by Application

Industrial

Medical

Consumer

Automotive

Aerospace

Companies Profiled:

NAU

Bayer(Artificial Muscle,Inc.)

Steeper Inc

?ssur

Coapt,LLC

BiomimeticProducts LLC.

Korea Advanced Institute of Science and Technology

Chas A Blatchford & Sons

Blatchford

Otto Bock

WillowWood

PROTEOR

Key Questions Answered

1. How big is the global Artificial Muscle market?
2. What is the demand of the global Artificial Muscle market?

3. What is the year over year growth of the global Artificial Muscle market?
4. What is the production and production value of the global Artificial Muscle market?
5. Who are the key producers in the global Artificial Muscle market?
6. What are the growth factors driving the market demand?

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