

Global Artificial Muscle Market Growth 2023-2029

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Abstracts

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The global Artificial Muscle market size is projected to grow from US\$ million in 2022 to US\$ million in 2029; it is expected to grow at a CAGR of % from 2023 to 2029.

United States market for Artificial Muscle is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

China market for Artificial Muscle is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Europe market for Artificial Muscle is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Global key Artificial Muscle players cover 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. In terms of revenue, the global two largest companies occupied for a share nearly % in 2022.

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.

LPI (LP Information)' newest research report, the "Artificial Muscle Industry Forecast" looks at past sales and reviews total world Artificial Muscle sales in 2022, providing a comprehensive analysis by region and market sector of projected Artificial Muscle sales for 2023 through 2029. With Artificial Muscle sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Artificial Muscle industry.

This Insight Report provides a comprehensive analysis of the global Artificial Muscle landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Artificial Muscle portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Artificial Muscle market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Artificial Muscle and breaks down the forecast by type, by application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Artificial Muscle.

This report presents a comprehensive overview, market shares, and growth opportunities of Artificial Muscle market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

Electric Field Actuation

Pneumatic Actuation

Thermal Actuation

Segmentation by application

Industrial

Medical

Consumer

Automotive

Aerospace

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Artificial Muscle market?

What factors are driving Artificial Muscle market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Artificial Muscle market opportunities vary by end market size?

How does Artificial Muscle break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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