

Robotics and Automation Actuators Market By Type (Rotary, Linear), By Actuation (Electrical, Mechanical, Hydraulic, Pneumatic), By End Use Industry (Oil and Gas, Chemicals and CPI, Water and Wastewater, Paper and Pulp, Mining, Automotive, Food and Beverages, Others): Global Opportunity Analysis and Industry Forecast, 2023-2032

Market Report | 2023-04-01 | 339 pages | Allied Market Research

AVAILABLE LICENSES:

- Cloud Access License \$3456.00
- Business User License \$5730.00
- Enterprise License \$9600.00

Report description:

Robotics and automation actuators are essential components in many robotic and automated systems, responsible for converting electrical or hydraulic energy into precise and repeatable mechanical motion. They play a critical role in controlling the movement of various components, such as robotic arms, grippers, and manufacturing equipment. Actuators provide the required force, speed, and accuracy to move these components precisely and reliably, ensuring that the robotic and automated systems operate efficiently and effectively.

Robotics and automation actuators have several advantages over mechanical actuators. Actuators supply precise and accurate control over the movement of robotic and automated systems. They can be programmed to move in specific patterns and trajectories, ensuring that each movement is consistent and repeatable. Actuators can move at high speeds, allowing robotic and automated systems to operate quickly and efficiently. This is particularly important in manufacturing and assembly lines where speed is critical to meet production targets.

Actuators are generally smaller in size compared to traditional mechanical systems, making them ideal for use in smaller robotic and automated systems where space is limited. Actuators require minimal maintenance as they have fewer moving parts compared to traditional mechanical systems. This results in lower maintenance costs and increased uptime for robotic and automated systems. Many types of actuators, such as electric actuators, are more energy-efficient compared to traditional hydraulic or pneumatic systems. This results in lower operating costs and reduced environmental impact.

The robotics and automation actuators market is expected to witness notable growth during the forecast period, owing to

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scottss-international.com

www.scottss-international.com

increasing demand for industrial robots, process enhancement ability in 3D printing using linear actuators, and surge in use of robots in healthcare and transportation sector. Moreover, increase in use of intelligent actuators for robotics and industrial automation is expected to provide lucrative opportunities for the growth of the robotics and automation actuators market during the forecast period. On the contrary, high installation costs is the restraint for robotics and automation actuators market growth during the forecast period.

The robotics and automation actuators market is segmented on the basis of type, actuations, end use industries, and region. On the basis of type, the market is divided into rotary, and linear. On the basis of actuations, the market is segregated into electrical, mechanical, hydraulic, and pneumatic. On the basis of end use industries, the market is segregated into oil and gas, chemicals and cpi, water and wastewater, paper and pulp, mining, automotive, food and beverages, and others.

Region-wise, the robotics and automation actuators market trends are analyzed across North America (the U.S., Canada, and Mexico), Europe (UK, Germany, France, and Rest of Europe), Asia-Pacific (China, Japan, India, South Korea, and Rest of Asia-Pacific), and LAMEA (Latin America, Middle East, and Africa). Europe remains significant participant in the robotics and automation actuators market.

The key players that operate in the market include ABB Ltd, Altra Industrial Motion (Regal Rexnord), Crane Holdings, Co., Curtiss-Wright Corporation, Flowserve Corporation, IMI, MISUMI Group Inc., Moog, Rockwell Automation, and SMC Corporation.

Key Benefits For Stakeholders

-This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the robotics and automation actuators market analysis from 2022 to 2032 to identify the prevailing robotics and automation actuators market opportunities.

-The market research is offered along with information related to key drivers, restraints, and opportunities.

-Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

-In-depth analysis of the robotics and automation actuators market segmentation assists to determine the prevailing market opportunities.

-Major countries in each region are mapped according to their revenue contribution to the global market.

-Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

-The report includes the analysis of the regional as well as global robotics and automation actuators market trends, key players, market segments, application areas, and market growth strategies.

Key Market Segments

By Type

- Rotary
- Linear

By Actuation

- Electrical
- Mechanical
- Hydraulic
- Pneumatic

By End Use Industry

- Oil and Gas
- Chemicals and CPI
- Water and Wastewater
- Paper and Pulp
- Mining
- Automotive
- Food and Beverages
- Others

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- UK
- Germany
- France
- Rest of Europe
- Asia-Pacific
- China
- Japan
- India
- South Korea
- Rest of Asia-Pacific
- LAMEA
- Latin America
- Middle East
- Africa
- Key Market Players
- Moog Inc.
- Crane Holdings, Co.
- Flowserve Corporation
- SMC Corporation
- IMI
- MISUMI Group Inc.
- ABB Ltd.
- Curtiss-Wright Corporation
- Altra Industrial Motion (Regal Rexnord)
- Rockwell Automation, Inc.

Table of Contents:

CHAPTER 1: INTRODUCTION

- 1.1. Report description
- 1.2. Key market segments
- 1.3. Key benefits to the stakeholders
- 1.4. Research Methodology
 - 1.4.1. Primary research
 - 1.4.2. Secondary research
 - 1.4.3. Analyst tools and models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO Perspective

CHAPTER 3: MARKET OVERVIEW

- 3.1. Market definition and scope
- 3.2. Key findings
 - 3.2.1. Top impacting factors

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 3.2.2. Top investment pockets
- 3.3. Porter's five forces analysis
 - 3.3.1. Bargaining power of suppliers
 - 3.3.2. Bargaining power of buyers
 - 3.3.3. Threat of substitutes
 - 3.3.4. Threat of new entrants
 - 3.3.5. Intensity of rivalry
- 3.4. Market dynamics
 - 3.4.1. Drivers
 - 3.4.1.1. Surge in use of robots in healthcare and transportation sector.
 - 3.4.1.2. Increasing demand for industrial robots.
 - 3.4.1.3. Process enhancement ability in 3D printing using linear actuators.
 - 3.4.2. Restraints
 - 3.4.2.1. High installation costs.
 - 3.4.3. Opportunities
 - 3.4.3.1. Increase in use of intelligent actuators for robotics and industrial automation.

3.5. COVID-19 Impact Analysis on the market

CHAPTER 4: ROBOTICS AND AUTOMATION ACTUATORS MARKET, BY TYPE

- 4.1. Overview
 - 4.1.1. Market size and forecast
- 4.2. Rotary
 - 4.2.1. Key market trends, growth factors and opportunities
 - 4.2.2. Market size and forecast, by region
 - 4.2.3. Market share analysis by country
- 4.3. Linear
 - 4.3.1. Key market trends, growth factors and opportunities
 - 4.3.2. Market size and forecast, by region
 - 4.3.3. Market share analysis by country

CHAPTER 5: ROBOTICS AND AUTOMATION ACTUATORS MARKET, BY ACTUATION

- 5.1. Overview
 - 5.1.1. Market size and forecast
- 5.2. Electrical
 - 5.2.1. Key market trends, growth factors and opportunities
 - 5.2.2. Market size and forecast, by region
 - 5.2.3. Market share analysis by country
- 5.3. Mechanical
 - 5.3.1. Key market trends, growth factors and opportunities
 - 5.3.2. Market size and forecast, by region
 - 5.3.3. Market share analysis by country
- 5.4. Hydraulic
 - 5.4.1. Key market trends, growth factors and opportunities
 - 5.4.2. Market size and forecast, by region
 - 5.4.3. Market share analysis by country
- 5.5. Pneumatic

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

5.5.1. Key market trends, growth factors and opportunities

5.5.2. Market size and forecast, by region

5.5.3. Market share analysis by country

CHAPTER 6: ROBOTICS AND AUTOMATION ACTUATORS MARKET, BY END USE INDUSTRY

6.1. Overview

6.1.1. Market size and forecast

6.2. Oil and Gas

6.2.1. Key market trends, growth factors and opportunities

6.2.2. Market size and forecast, by region

6.2.3. Market share analysis by country

6.3. Chemicals and CPI

6.3.1. Key market trends, growth factors and opportunities

6.3.2. Market size and forecast, by region

6.3.3. Market share analysis by country

6.4. Water and Wastewater

6.4.1. Key market trends, growth factors and opportunities

6.4.2. Market size and forecast, by region

6.4.3. Market share analysis by country

6.5. Paper and Pulp

6.5.1. Key market trends, growth factors and opportunities

6.5.2. Market size and forecast, by region

6.5.3. Market share analysis by country

6.6. Mining

6.6.1. Key market trends, growth factors and opportunities

6.6.2. Market size and forecast, by region

6.6.3. Market share analysis by country

6.7. Automotive

6.7.1. Key market trends, growth factors and opportunities

6.7.2. Market size and forecast, by region

6.7.3. Market share analysis by country

6.8. Food and Beverages

6.8.1. Key market trends, growth factors and opportunities

6.8.2. Market size and forecast, by region

6.8.3. Market share analysis by country

6.9. Others

6.9.1. Key market trends, growth factors and opportunities

6.9.2. Market size and forecast, by region

6.9.3. Market share analysis by country

CHAPTER 7: ROBOTICS AND AUTOMATION ACTUATORS MARKET, BY REGION

7.1. Overview

7.1.1. Market size and forecast By Region

7.2. North America

7.2.1. Key trends and opportunities

7.2.2. Market size and forecast, by Type

7.2.3. Market size and forecast, by Actuation

7.2.4. Market size and forecast, by End Use Industry

7.2.5. Market size and forecast, by country

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 7.2.5.1. U.S.
 - 7.2.5.1.1. Key market trends, growth factors and opportunities
 - 7.2.5.1.2. Market size and forecast, by Type
 - 7.2.5.1.3. Market size and forecast, by Actuation
 - 7.2.5.1.4. Market size and forecast, by End Use Industry
- 7.2.5.2. Canada
 - 7.2.5.2.1. Key market trends, growth factors and opportunities
 - 7.2.5.2.2. Market size and forecast, by Type
 - 7.2.5.2.3. Market size and forecast, by Actuation
 - 7.2.5.2.4. Market size and forecast, by End Use Industry
- 7.2.5.3. Mexico
 - 7.2.5.3.1. Key market trends, growth factors and opportunities
 - 7.2.5.3.2. Market size and forecast, by Type
 - 7.2.5.3.3. Market size and forecast, by Actuation
 - 7.2.5.3.4. Market size and forecast, by End Use Industry
- 7.3. Europe
 - 7.3.1. Key trends and opportunities
 - 7.3.2. Market size and forecast, by Type
 - 7.3.3. Market size and forecast, by Actuation
 - 7.3.4. Market size and forecast, by End Use Industry
 - 7.3.5. Market size and forecast, by country
 - 7.3.5.1. UK
 - 7.3.5.1.1. Key market trends, growth factors and opportunities
 - 7.3.5.1.2. Market size and forecast, by Type
 - 7.3.5.1.3. Market size and forecast, by Actuation
 - 7.3.5.1.4. Market size and forecast, by End Use Industry
 - 7.3.5.2. Germany
 - 7.3.5.2.1. Key market trends, growth factors and opportunities
 - 7.3.5.2.2. Market size and forecast, by Type
 - 7.3.5.2.3. Market size and forecast, by Actuation
 - 7.3.5.2.4. Market size and forecast, by End Use Industry
 - 7.3.5.3. France
 - 7.3.5.3.1. Key market trends, growth factors and opportunities
 - 7.3.5.3.2. Market size and forecast, by Type
 - 7.3.5.3.3. Market size and forecast, by Actuation
 - 7.3.5.3.4. Market size and forecast, by End Use Industry
 - 7.3.5.4. Rest of Europe
 - 7.3.5.4.1. Key market trends, growth factors and opportunities
 - 7.3.5.4.2. Market size and forecast, by Type
 - 7.3.5.4.3. Market size and forecast, by Actuation
 - 7.3.5.4.4. Market size and forecast, by End Use Industry
- 7.4. Asia-Pacific
 - 7.4.1. Key trends and opportunities
 - 7.4.2. Market size and forecast, by Type
 - 7.4.3. Market size and forecast, by Actuation
 - 7.4.4. Market size and forecast, by End Use Industry
 - 7.4.5. Market size and forecast, by country

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 7.4.5.1. China
 - 7.4.5.1.1. Key market trends, growth factors and opportunities
 - 7.4.5.1.2. Market size and forecast, by Type
 - 7.4.5.1.3. Market size and forecast, by Actuation
 - 7.4.5.1.4. Market size and forecast, by End Use Industry
- 7.4.5.2. Japan
 - 7.4.5.2.1. Key market trends, growth factors and opportunities
 - 7.4.5.2.2. Market size and forecast, by Type
 - 7.4.5.2.3. Market size and forecast, by Actuation
 - 7.4.5.2.4. Market size and forecast, by End Use Industry
- 7.4.5.3. India
 - 7.4.5.3.1. Key market trends, growth factors and opportunities
 - 7.4.5.3.2. Market size and forecast, by Type
 - 7.4.5.3.3. Market size and forecast, by Actuation
 - 7.4.5.3.4. Market size and forecast, by End Use Industry
- 7.4.5.4. South Korea
 - 7.4.5.4.1. Key market trends, growth factors and opportunities
 - 7.4.5.4.2. Market size and forecast, by Type
 - 7.4.5.4.3. Market size and forecast, by Actuation
 - 7.4.5.4.4. Market size and forecast, by End Use Industry
- 7.4.5.5. Rest of Asia-Pacific
 - 7.4.5.5.1. Key market trends, growth factors and opportunities
 - 7.4.5.5.2. Market size and forecast, by Type
 - 7.4.5.5.3. Market size and forecast, by Actuation
 - 7.4.5.5.4. Market size and forecast, by End Use Industry
- 7.5. LAMEA
 - 7.5.1. Key trends and opportunities
 - 7.5.2. Market size and forecast, by Type
 - 7.5.3. Market size and forecast, by Actuation
 - 7.5.4. Market size and forecast, by End Use Industry
 - 7.5.5. Market size and forecast, by country
 - 7.5.5.1. Latin America
 - 7.5.5.1.1. Key market trends, growth factors and opportunities
 - 7.5.5.1.2. Market size and forecast, by Type
 - 7.5.5.1.3. Market size and forecast, by Actuation
 - 7.5.5.1.4. Market size and forecast, by End Use Industry
 - 7.5.5.2. Middle East
 - 7.5.5.2.1. Key market trends, growth factors and opportunities
 - 7.5.5.2.2. Market size and forecast, by Type
 - 7.5.5.2.3. Market size and forecast, by Actuation
 - 7.5.5.2.4. Market size and forecast, by End Use Industry
 - 7.5.5.3. Africa
 - 7.5.5.3.1. Key market trends, growth factors and opportunities
 - 7.5.5.3.2. Market size and forecast, by Type
 - 7.5.5.3.3. Market size and forecast, by Actuation
 - 7.5.5.3.4. Market size and forecast, by End Use Industry

CHAPTER 8: COMPETITIVE LANDSCAPE

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 8.1. Introduction
- 8.2. Top winning strategies
- 8.3. Product Mapping of Top 10 Player
- 8.4. Competitive Dashboard
- 8.5. Competitive Heatmap
- 8.6. Top player positioning, 2022
- CHAPTER 9: COMPANY PROFILES
- 9.1. ABB Ltd.
 - 9.1.1. Company overview
 - 9.1.2. Key Executives
 - 9.1.3. Company snapshot
 - 9.1.4. Operating business segments
 - 9.1.5. Product portfolio
 - 9.1.6. Business performance
 - 9.1.7. Key strategic moves and developments
- 9.2. Altra Industrial Motion (Regal Rexnord)
 - 9.2.1. Company overview
 - 9.2.2. Key Executives
 - 9.2.3. Company snapshot
 - 9.2.4. Operating business segments
 - 9.2.5. Product portfolio
 - 9.2.6. Business performance
 - 9.2.7. Key strategic moves and developments
- 9.3. Crane Holdings, Co.
 - 9.3.1. Company overview
 - 9.3.2. Key Executives
 - 9.3.3. Company snapshot
 - 9.3.4. Operating business segments
 - 9.3.5. Product portfolio
 - 9.3.6. Business performance
- 9.4. Curtiss-Wright Corporation
 - 9.4.1. Company overview
 - 9.4.2. Key Executives
 - 9.4.3. Company snapshot
 - 9.4.4. Operating business segments
 - 9.4.5. Product portfolio
 - 9.4.6. Business performance
 - 9.4.7. Key strategic moves and developments
- 9.5. Flowserve Corporation
 - 9.5.1. Company overview
 - 9.5.2. Key Executives
 - 9.5.3. Company snapshot
 - 9.5.4. Operating business segments
 - 9.5.5. Product portfolio
 - 9.5.6. Business performance
- 9.6. IMI
 - 9.6.1. Company overview

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 9.6.2. Key Executives
- 9.6.3. Company snapshot
- 9.6.4. Operating business segments
- 9.6.5. Product portfolio
- 9.6.6. Business performance
- 9.6.7. Key strategic moves and developments
- 9.7. MISUMI Group Inc.
 - 9.7.1. Company overview
 - 9.7.2. Key Executives
 - 9.7.3. Company snapshot
 - 9.7.4. Operating business segments
 - 9.7.5. Product portfolio
 - 9.7.6. Business performance
- 9.8. Moog Inc.
 - 9.8.1. Company overview
 - 9.8.2. Key Executives
 - 9.8.3. Company snapshot
 - 9.8.4. Operating business segments
 - 9.8.5. Product portfolio
 - 9.8.6. Business performance
 - 9.8.7. Key strategic moves and developments
- 9.9. Rockwell Automation, Inc.
 - 9.9.1. Company overview
 - 9.9.2. Key Executives
 - 9.9.3. Company snapshot
 - 9.9.4. Operating business segments
 - 9.9.5. Product portfolio
 - 9.9.6. Business performance
 - 9.9.7. Key strategic moves and developments
- 9.10. SMC Corporation
 - 9.10.1. Company overview
 - 9.10.2. Key Executives
 - 9.10.3. Company snapshot
 - 9.10.4. Operating business segments
 - 9.10.5. Product portfolio
 - 9.10.6. Business performance
 - 9.10.7. Key strategic moves and developments

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Robotics and Automation Actuators Market By Type (Rotary, Linear), By Actuation (Electrical, Mechanical, Hydraulic, Pneumatic), By End Use Industry (Oil and Gas, Chemicals and CPI, Water and Wastewater, Paper and Pulp, Mining, Automotive, Food and Beverages, Others): Global Opportunity Analysis and Industry Forecast, 2023-2032

Market Report | 2023-04-01 | 339 pages | Allied Market Research

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Cloud Access License	\$3456.00
	Business User License	\$5730.00
	Enterprise License	\$9600.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-11"/>
		Signature	<input type="text"/>