

# Global Electric Manipulator Arm Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Electric Manipulator Arm market size is expected to reach \$ 818 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

In 2025, global electric mechanical arm production reached approximately 65 k units, the average price is 8500 usd/unit. Electric mechanical arm is a kind of high-precision automatic equipment which can imitate human arm movement function through motor drive. It performs a series of tasks such as grasping, carrying and operating in three-dimensional space by precisely controlling the motion of multiple joints.

### Market Concentration and Key Players:

Internationally, the market concentration of electric robot arms is relatively high, mainly concentrated in developed countries such as Europe, America and Japan. For example, large manufacturers such as TMI-Orion SA and Saab Group; from the domestic point of view, the manufacturers of electric robot arms include Dahuan Robot, etc.

### Manufacturing Processes and Market Trends:

The core of the manufacturing process of electric robot arm lies in the deep integration of precision machining and intelligent control system. Its production covers from modular structure design based on kinematic model, manufacturing arm body with aluminum alloy or carbon fiber, etc., to integrating high-precision servo motor and harmonic reducer to form drive system, and embedding force sensor, vision sensor, etc. The key links include precision assembly of core components such as joint modules, and motion trajectory optimization and closed-loop control debugging using advanced control algorithms (such as model predictive control) to ensure that the repeated

positioning accuracy can reach  $\pm 0.02$  mm or even higher industry standards.

In terms of market trends, global demand for electric robots continues to grow, with China market performing particularly strongly. This growth was driven by automation upgrades in industries such as automotive manufacturing (especially new energy vehicles), electronic assembly, and intelligent logistics. Product technologies are moving towards greater intelligence (e.g., integrated AI vision recognition and autonomous path planning), greater collaborative safety (compliance with human-computer collaboration standards), and lighter weight (application of new composite materials). Future competition will focus more on the localization of core components (such as precision reducers and servo systems), the level of customized solutions provided by the industry, and the degree of deep integration with industrial IoT platforms to meet the needs of flexible manufacturing and intelligent manufacturing.

This report studies the global Electric Manipulator Arm production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electric Manipulator Arm 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 Electric Manipulator Arm that contribute to its increasing demand across many markets.

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

Global Electric Manipulator Arm total production and demand, 2021-2032, (K Units)

Global Electric Manipulator Arm total production value, 2021-2032, (USD Million)

Global Electric Manipulator Arm production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Electric Manipulator Arm consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Electric Manipulator Arm domestic production, consumption, key domestic manufacturers and share

Global Electric Manipulator Arm production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Electric Manipulator Arm production by Structure, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Electric Manipulator Arm production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Electric Manipulator Arm 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 TMI-Orion SA, Saab Group, UNIDEX INC., OceanTools, Exail, Binar Handling AB, HITBOT, NEODITECH, Gorbelt, Robotics Design Inc., 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 Electric Manipulator Arm 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 Structure, 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 Electric Manipulator Arm Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Electric Manipulator Arm Market, Segmentation by Structure:

- Ball Coordinating Robotic Arm
- Joint Robotic Arm
- Right -Angle Coordinate Robotic Arm
- Cylindrical Coordinate Robotic Arm
- Other

### Global Electric Manipulator Arm Market, Segmentation by DOF:

- 2-DOF
- 3-DOF
- 4-DOF
- 6-DOF
- 7-DOF

### Global Electric Manipulator Arm Market, Segmentation by Control:

- Programmed Robotic Arm
- Teach Robotic Arm
- Force-controlled Robotic Arm

### Global Electric Manipulator Arm Market, Segmentation by Application:

- Industrial

Seabed

Chemical

Architecture

Others

Companies Profiled:

TMI-Orion SA

Saab Group

UNIDEX INC.

OceanTools

Exail

Binar Handling AB

HITBOT

NEODITECH

Gorbel

Robotics Design Inc.

Reach

HDT Global

VideoRay

Hydro-international

Nauticus Robotics

Dahuan Robot

Zhejiang Kaifu Boke Technology

**Key Questions Answered:**

1. How big is the global Electric Manipulator Arm market?
2. What is the demand of the global Electric Manipulator Arm market?
3. What is the year over year growth of the global Electric Manipulator Arm market?
4. What is the production and production value of the global Electric Manipulator Arm market?
5. Who are the key producers in the global Electric Manipulator Arm market?
6. What are the growth factors driving the market demand?

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