

Global Explosion-proof Robotic Arm Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GA31676CE943EN.html>

Date: December 2025

Pages: 131

Price: US\$ 4,480.00 (Single User License)

ID: GA31676CE943EN

Abstracts

The global Explosion-proof Robotic Arm market size is expected to reach \$ 410 million by 2032, rising at a market growth of 8.5% CAGR during the forecast period (2026-2032).

Explosion-proof robotic arms are specialized robotic arms designed for highly hazardous environments such as petroleum, chemical, gas, and military industries, possessing national or international explosion-proof certifications (such as Ex d, Ex ib, ATEX, IECEx). They employ intrinsically safe circuits, explosion-proof housings, spark-free transmissions, and anti-static materials, enabling them to perform tasks such as remote valve operation, sample handling, equipment maintenance, and emergency response, ensuring personnel safety and production continuity. The upstream of the industry chain includes suppliers of explosion-proof servo motors, harmonic reducers, intrinsically safe controllers, special seals, and explosion-proof sensors. The midstream consists of core manufacturers who need to master explosion-proof system integration, multi-degree-of-freedom motion control, and Ex certification capabilities for the entire machine. The downstream primarily serves petrochemical refineries, LNG receiving terminals, hazardous chemical storage facilities, mines, and emergency rescue organizations. Due to high technical barriers, stringent certifications, and small production volumes, the industry's overall gross profit margin ranges from 45% to 70%. In 2024, the global production of explosion-proof robotic arms was approximately 4,750 units, with a global average market price of approximately US\$48,000 per unit. In 2024, the global production capacity of explosion-proof robotic arms was approximately 7,000 units.

This report studies the global Explosion-proof Robotic Arm production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Explosion-proof Robotic Arm total production and demand, 2021-2032, (Units)

Global Explosion-proof Robotic Arm total production value, 2021-2032, (USD Million)

Global Explosion-proof Robotic Arm production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Explosion-proof Robotic Arm consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Explosion-proof Robotic Arm domestic production, consumption, key domestic manufacturers and share

Global Explosion-proof Robotic Arm production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Explosion-proof Robotic Arm production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Explosion-proof Robotic Arm production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Explosion-proof Robotic 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 elibot, Kawasaki Robotics, Suzhou Saifud Explosion-proof Technology, Guangdong Huayan Robotics Co. Ltd, Changzhou Huiwei Technology Co., Ltd., EVS TECH CO., LTD, Huayan Robotics, DUCO, Woob Robotics, KUKA, 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 Explosion-proof Robotic Arm market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) 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 Explosion-proof Robotic Arm Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Explosion-proof Robotic Arm Market, Segmentation by Type:

Six-Axis Industrial Robotic Arm

Collaborative Explosion-proof Robotic Arm

Rail-mounted Robotic Arm

Telescopic Joint Robotic Arm

Global Explosion-proof Robotic Arm Market, Segmentation by Application Task:

Spraying Robotic Arm

Material Handling Robotic Arm

Inspection & Monitoring Robotic Arm

Welding Robotic Arm

Global Explosion-proof Robotic Arm Market, Segmentation by Application:

Oil & Gas Hazardous Environment Arm

Chemical Plant Explosion-proof Arm

Coal Mine & Underground Rescue Arm

Explosion-proof Painting/Handling Arm

Companies Profiled:

elibot

Kawasaki Robotics

Suzhou Saifud Explosion-proof Technology

Guangdong Huayan Robotics Co. Ltd

Changzhou Huiwei Technology Co., Ltd.

EVS TECH CO., LTD

Huayan Robotics

DUCO

Woob Robotics

KUKA

ABB

Fanuc

AUBO

Key Questions Answered:

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

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