

Global Explosion Proof Painting Robots Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G522392CAB29EN.html>

Date: October 2025

Pages: 116

Price: US\$ 3,480.00 (Single User License)

ID: G522392CAB29EN

Abstracts

According to our (Global Info Research) latest study, the global Explosion Proof Painting Robots market size was valued at US\$ 1459 million in 2024 and is forecast to a readjusted size of USD 2366 million by 2031 with a CAGR of 7.2% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

The explosion proof painting robot is a specialized robot capable of performing spray painting tasks in environments with explosion hazards. Its structure is commonly a 6-axis serial multi-joint type, and it is one of the most widely used types of collaborative robots in the industrial field. Explosion proof painting robots are suitable for various industries such as automobile manufacturing, petrochemical equipment production, and furniture production. They can be applied to a multitude of working scenarios, including spray painting auto parts, metal or plastic components, and small assembled units.

Market Key Players

Overseas enterprises primarily include KUKA AG (Augsburg, Germany), ABB (Zurich, Switzerland), Kawasaki Heavy Industries (Tokyo, Japan), and FANUC (Yamanashi, Japan), among others. These companies boast rich product lines, wide applications across numerous industries, and extensive sales and service networks globally, commanding significant market shares. Besides the commonly used 6-axis articulated robots, FANUC also offers 7-axis explosion-proof spray coating robots with an effective payload of 15 kilograms and a maximum reach of over 2,800 millimeters. ABB, in

collaboration with software developers, provides more comprehensive automation solutions such as robot monitoring software. Domestic enterprises mainly include DUCO (Shanghai) under SINSUN, AUBO (Beijing), EFORT (Wuhu, Anhui), and Han's Robot Co., Ltd (Shenzhen). Domestic enterprises have seen rapid development in recent years, continuously enhancing their technological levels while offering cost-effective products that better meet the needs of domestic SMEs. Additionally, domestic enterprises are gradually expanding their global footprints. In October 2024, EFORT's Italian subsidiaries, EFORT Robotics and CMA Robotics, jointly participated in BIMU 2024, the International Machine Tool Exhibition in Italy, showcasing strategic applications such as intelligent spray coating. Their explosion-proof spray coating robots not only hold China's PCEC explosion-proof certification but have also passed the EU ATEX explosion-proof certification, further strengthening the synergy between China's and Europe's robotics businesses and enhancing brand awareness and sales in Europe.

Equipment Advantages and Market Development Drivers

This type of 6-axis serial articulated robot for spray coating boasts high operational flexibility and can be installed in various ways, including floor-standing, wall-mounted, and ceiling-mounted, allowing for setup in multiple locations such as floors, walls, ceilings, and gantries.

The increase in demand is the biggest driver of market development. On the one hand, automated production can deliver higher product quality and work efficiency. Explosion-proof spray coating robots can ensure coating consistency and stability through parameter settings, better meeting the requirements of mass production. On the other hand, increasing emphasis on personnel safety and rising labor costs make enterprises prefer automated equipment over manual operations. Furthermore, with the promotion of industrial upgrading and intelligent manufacturing, collaborative robots have become an important part of industrial automation.

Technological advancements and the integration of multidisciplinary technologies will continue to drive market growth. With the help of cloud services, big data, and other technologies, enterprises can achieve remote monitoring and data analysis of robots. By integrating technologies such as machine vision and lidar, robots will possess stronger sensing capabilities, enabling more intelligent adjustment of spray coating trajectories or parameters. Correspondingly, emerging industries such as new energy vehicles, aerospace, and marine engineering will also rapidly develop with these technological advancements, providing broader development space for the explosion-

proof spray coating robot market.

This report is a detailed and comprehensive analysis for global Explosion Proof Painting Robots market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Explosion Proof Painting Robots market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Explosion Proof Painting Robots market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Explosion Proof Painting Robots market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2020-2031

Global Explosion Proof Painting Robots market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Explosion Proof Painting Robots
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Explosion Proof Painting Robots market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include KUKA AG, ABB, Kawasaki Heavy Industries, Ltd., BORUNTE, Shenzhen Han's Robot Co., Ltd, FANUC, AUBO,

YASKAWA ELECTRIC CORPORATION., Zhejiang Qianjiang Robot Co., Ltd., DUCO, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Explosion Proof Painting Robots market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Maximum Reach: Less than 1500 mm

Maximum Reach: 1501-3000 mm

Maximum Reach: More than 3000 mm

Market segment by Application

Automotives

Ships

Petrochemical Devices

Others

Major players covered

KUKA AG

ABB

Kawasaki Heavy Industries, Ltd.

BORUNTE

Shenzhen Han's Robot Co., Ltd

FANUC

AUBO

YASKAWA ELECTRIC CORPORATION.

Zhejiang Qianjiang Robot Co., Ltd.

DUCO

EFFORT

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Explosion Proof Painting Robots product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Explosion Proof Painting Robots, with price, sales quantity, revenue, and global market share of Explosion Proof Painting Robots from 2020 to 2025.

Chapter 3, the Explosion Proof Painting Robots competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by

landscape contrast.

Chapter 4, the Explosion Proof Painting Robots breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Explosion Proof Painting Robots market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Explosion Proof Painting Robots.

Chapter 14 and 15, to describe Explosion Proof Painting Robots sales channel, distributors, customers, research findings and conclusion.

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