

# Global Explosion-proof Collaborative Robot Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Explosion-proof Collaborative Robot market size was valued at US\$ 104 million in 2024 and is forecast to a readjusted size of USD 242 million by 2031 with a CAGR of 12.4% during review period.

Explosion-proof collaborative robot products have multiple explosion-proof designs and can be used in dangerous and explosive working environments to replace people working in dangerous and explosive working environments.

In the fields of petrochemicals, coal mining, natural gas storage and transportation, flammable and explosive, high temperature and high pressure and other dangerous environments are common, and traditional manual inspections and operations face extremely high risks. Explosion-proof collaborative robots significantly reduce the probability of safety accidents by replacing manual entry into high-risk environments to perform tasks such as equipment monitoring, gas leak detection, and dangerous goods handling. For example, in oil refineries, robots can monitor equipment status in real time to reduce the risk of explosions. Governments of various countries have strengthened industrial safety supervision. For example, China's strict regulations on the hazardous chemicals industry require companies to use advanced technologies to ensure production safety. Explosion-proof robots have become an important tool for corporate compliance because they meet policy requirements. The improvement of international safety standards (such as ISO 10218-1) has improved the safety performance of collaborative robots, and the accident rate is significantly lower than that of traditional industrial robots, which has enhanced market trust.

This report is a detailed and comprehensive analysis for global Explosion-proof Collaborative Robot 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.

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.

### **Key Features:**

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

Global Explosion-proof Collaborative Robot 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 Collaborative Robot 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 Collaborative Robot 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 Collaborative Robot
- 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 Collaborative Robot 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 FANUC, DUCO Robots, ABB, Kawasaki, KUKA, JAKA Robotics, AUBO, Doosan Robotics, Precise Automation, Shenzhen Han's Robot Co., Ltd, etc.

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

## **Market Segmentation**

Explosion-proof Collaborative Robot 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

Payload: less than 5 kg

Payload: 5-10 kg

Payload: more than 10 kg

### Market segment by Application

Petrochemical

Coating

Mining

Food and Beverage Industry

Others

### Major players covered

FANUC

DUCO Robots

ABB

Kawasaki

KUKA

JAKA Robotics

AUBO

Doosan Robotics

Precise Automation

Shenzhen Han's Robot Co., Ltd

Productive Robotics

Universal Robots A/S

Elite Robots

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 Collaborative Robot product scope, market

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overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Explosion-proof Collaborative Robot, with price, sales quantity, revenue, and global market share of Explosion-proof Collaborative Robot from 2020 to 2025.

Chapter 3, the Explosion-proof Collaborative Robot competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Explosion-proof Collaborative Robot 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 Collaborative Robot 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 Collaborative Robot.

Chapter 14 and 15, to describe Explosion-proof Collaborative Robot sales channel, distributors, customers, research findings and conclusion.

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