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Global Explosion-Proof Mobile Inspection Robots Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/G15FDA1E5140EN.html
Date: September 2026
Pages: 115
Price: US$ 3,480.00 (Single User License)
ID: G15FDA1E5140EN

Abstracts

According to our (Global Info Research) latest study, the global Explosion-Proof Mobile Inspection Robots market size was valued at US$ 164 million in 2025 and is forecast to a readjusted size of US$ 385 million by 2032 with a CAGR of 12.0% during review period.

Explosion-Proof Mobile Inspection Robot is an industrial robotic system designed to perform routine, special and emergency inspection tasks in hazardous environments containing flammable gases, vapors or combustible dust. The research scope primarily covers wheeled, rail-mounted, tracked and legged mobile platforms with defined whole-machine explosion-protection capability. Typical systems integrate explosion-protected drive units, batteries and enclosures, industrial computers, LiDAR, visible-light and infrared cameras, gas detectors, acoustic sensors, wireless communication modules, autonomous navigation software and automatic charging systems. Core functions include gauge reading, valve-position recognition, thermal anomaly detection, combustible and toxic gas monitoring, leakage identification, abnormal-sound analysis, environmental data collection and real-time alarms. Explosion-Proof Mobile Inspection Robots are mainly deployed in refining and petrochemical facilities, oil and gas production, storage and transportation sites, chemical and coal chemical plants, coal mines, steel and coking facilities, hazardous-material warehouses and other industrial locations requiring continuous, standardized and low-personnel inspection.

Key Findings

Global sales reached approximately 1,986 units in 2025

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The weighted average ex-works price was approximately US$80,000 per unit

Wheeled robots accounted for 80% of global sales

Market Trends

The Explosion-Proof Mobile Inspection Robot market is progressing from pilot projects and single-machine operation toward standardized deployment, robot fleets and multi-site management. Fully autonomous navigation, automatic charging, centralized task scheduling and AI-assisted anomaly recognition are increasingly becoming core requirements for new projects. Product capabilities are expanding from conventional video inspection and infrared temperature measurement to multisensor fusion involving gas detection, acoustic imaging, vibration monitoring, laser-based leakage detection and environmental sensing. Customers are also placing greater emphasis on whole-machine certification, higher gas-group capability, stricter surface-temperature control, gas-and-dust dual-hazard suitability and standardized integration with DCS, EAM, digital-twin and plant safety-management platforms.

Market Dynamics

Drivers

Demand is driven by stricter industrial safety requirements, the need to reduce personnel exposure in hazardous areas, shortages of experienced inspection workers and the continued development of unmanned and low-manned industrial facilities. Refining, petrochemical, oil and gas, chemical and coal-related industries require frequent inspection of pumps, valves, pipelines, storage tanks, instruments and rotating equipment. Advances in industrial wireless networks, simultaneous localization and mapping, machine vision, edge computing and intelligent diagnostics are improving inspection accuracy and strengthening the commercial feasibility of robotic inspection.

Restraints

Market expansion is constrained by relatively high equipment prices, lengthy whole-machine explosion-proof certification, customized project engineering and supporting

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infrastructure costs. Total deployment expenditure can rise materially when automatic charging facilities, rail systems, wireless-network upgrades, specialized sensors, software integration and long-term maintenance are included. Wheeled platforms face limitations on stairs, open gratings and severely uneven surfaces, while rail-mounted systems require fixed infrastructure and tracked or legged robots generally involve higher equipment and maintenance costs.

Opportunities

Major opportunities are emerging from the scaled replacement of manual inspection in refinery complexes, chemical parks, oil and gas stations, LNG facilities, tank farms and underground industrial environments. International expansion offers additional potential for manufacturers capable of obtaining ATEX, IECEx and other regional certifications while providing localized service. Leasing, robot-as-a-service and inspection-as-a-service models can reduce customer entry costs and accelerate adoption. Predictive maintenance, digital twins, fleet management and the integration of robot-generated data into plant-wide asset and safety systems will create further value-added opportunities.

Challenges

Long-term development depends on whole-machine reliability, battery safety, wireless communication stability and localization accuracy in repetitive or structurally complex industrial environments. AI-based defect recognition must reduce both false alarms and missed detections while adapting to different equipment layouts, lighting conditions and process media. Manufacturers must manage differences among regional explosion-protection standards and ensure that delivered equipment remains consistent with certified models, protection markings, gas groups, temperature classes and permitted operating conditions. Overseas service networks, spare-parts availability and lifecycle support remain additional commercialization challenges.

Industry Chain Analysis

The upstream industry chain includes aluminum alloys, stainless steel, explosion-proof enclosures, certified electrical components, drive motors, reducers, wheels, tracks, rail systems, lithium batteries, industrial computers, chips, LiDAR, visible-light and infrared cameras, gas detectors, acoustic sensors, communication modules and navigation

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software. Explosion-proof structural design, certified electrical systems, industrial-grade sensors and high-reliability computing hardware represent major equipment cost components. Certification testing, environmental adaptation and low-volume customized components further increase development and manufacturing expenditure.

Midstream manufacturers integrate mobility platforms, perception systems, control systems, inspection algorithms, communications and charging equipment into certified complete machines. Value creation is increasingly shifting from mechanical assembly toward autonomous navigation, multisensor data fusion, intelligent diagnostics, system integration and lifecycle services. Downstream users include refining and petrochemical companies, oil and gas operators, chemical and coal chemical producers, coal mines, steel and coking facilities and hazardous-material storage operators. Standardized platforms and modular payloads can improve production efficiency and profitability, while extensive customization, long acceptance cycles and on-site commissioning may reduce project margins.

Segment Insights

Wheeled robots represented 80% of global sales in 2025 and remained the dominant product category because of their mature technology, stable operation, relatively high payload capacity and favorable cost efficiency on hardened roads and plant corridors. Rail-mounted robots were mainly used along fixed routes in pipe racks, coal-mine roadways, conveyor systems and space-constrained facilities. Other mobile platforms, principally tracked and legged robots, accounted for the remaining share and were concentrated in higher-value applications requiring stair climbing, obstacle crossing and complex-terrain mobility.

By autonomy level, fully autonomous robots are becoming the preferred configuration for regular inspection projects, although remote takeover remains essential for emergency response and abnormal operating conditions. By hazardous atmosphere, products designed for explosive gas environments form the largest segment, supported by extensive demand from refining, petrochemical, oil and gas and chemical facilities. Demand for combustible-dust and gas-and-dust dual-hazard robots is increasing in coal mining, coal chemical, fertilizer, resin, powder-handling and selected new-material applications.

Downstream Market Opportunities

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Refining and petrochemical facilities constitute the largest downstream market due to continuous production, dense equipment distribution and frequent inspection requirements. Oil and gas production, storage and transportation provide another major source of demand, particularly in gathering stations, tank farms, compressor stations, LNG facilities, pipeline stations and offshore platforms. Chemical and coal chemical industries offer significant expansion potential as operators strengthen major-hazard-source monitoring and hazardous-process automation. Additional opportunities are emerging in coal mines, steel and coking facilities, hydrogen-related projects, battery-material plants, hazardous-material warehouses and integrated plant-wide robotic inspection systems.

Regional Insights

China is the principal production base for Explosion-Proof Mobile Inspection Robots and contributed more than 97% of global output in 2025. Its competitive position is supported by a complete mobile-robot supply chain, strong engineering and project-delivery capabilities, relatively competitive manufacturing costs and substantial domestic demand from refining, petrochemical, oil and gas, chemical and coal-related industries. Domestic deployments have also enabled manufacturers to accumulate experience in autonomous navigation, multisensor inspection, automatic charging and industrial software integration.

Europe retains advantages in ATEX and IECEx certification, high-reliability engineering and premium tracked or legged robots for complex hazardous environments. Japan has developed specialized tracked inspection platforms with strong systems-engineering capabilities, while certified commercial deployment in North America remains relatively limited. The Middle East, Southeast Asia, Latin America and selected European markets are becoming important destinations for exported systems as industrial operators increase investment in hazardous-area digitalization and unmanned inspection.

Competitive Landscape Analysis

The competitive landscape combines highly concentrated production in China with a relatively fragmented supplier structure. Chinese manufacturers are strongest in wheeled and rail-mounted products and compete through whole-machine certification, platform reliability, sensor configuration, autonomous navigation, software integration,

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project delivery and cost efficiency. European suppliers are more active in high-end tracked and legged platforms, with differentiation centered on international certification, complex-terrain mobility and long-term reliability, while Japanese participants emphasize systems engineering and specialized hazardous-environment applications. Competition is shifting from standalone hardware toward certified complete systems, intelligent diagnostic algorithms, modular sensor payloads, fleet-management platforms and lifecycle services. International certification, standardized production, leasing models and localized overseas support are expected to become increasingly important competitive factors.

Report Scope

This report is a detailed and comprehensive analysis for global Explosion-Proof Mobile Inspection 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 Mobile Inspection Robots market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Explosion-Proof Mobile Inspection Robots market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Explosion-Proof Mobile Inspection Robots market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Explosion-Proof Mobile Inspection Robots market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (K US$/Unit), 2021-2026

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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 Mobile Inspection 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 Mobile Inspection 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 SEVNCE Robotics, CITIC Heavy Industries Kaicheng Intelligent Equipment, Tianchuang Electronic Technology, Taurob GmbH, Shanxi Daide Measurement and Control Technology, ANCN Intelligent Instrument, ExRobotics, Elitenect Technologies, Hangzhou Guochen Robot Technology, Hangzhou Guozi Robotics, etc.

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

Explosion-Proof Mobile Inspection Robots market is split by Type and by Application. For the period 2021-2032, 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 Segmentation

Market segment by Type

Wheeled Robots

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Rail-Mounted Robots

Others

Market segment by Autonomy Level

Remote-Controlled Type

Semi-Autonomous Type

Fully Autonomous Type

Market segment by Applicable Areas

Explosive Gas Atmosphere

Combustible Dust Atmosphere

Others

Market segment by Application

Refining and Petrochemical

Oil & Gas Production, Storage and Transportation

Chemical and Coal Chemical Industries

Coal Mining

Others

Major players covered

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SEVNCE Robotics

CITIC Heavy Industries Kaicheng Intelligent Equipment

Tianchuang Electronic Technology

Taurob GmbH

Shanxi Daide Measurement and Control Technology

ANCN Intelligent Instrument

ExRobotics

Elitenect Technologies

Hangzhou Guochen Robot Technology

Hangzhou Guozi Robotics

Shenzhen Yutoo Intelligent

Chengdu Guimu Robot

Mitsubishi Heavy Industries

ANYbotics

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)

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Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

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

Chapter 2, to profile the top manufacturers of Explosion-Proof Mobile Inspection Robots, with price, sales quantity, revenue, and global market share of Explosion-Proof Mobile Inspection Robots from 2021 to 2026.

Chapter 3, the Explosion-Proof Mobile Inspection Robots competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Explosion-Proof Mobile Inspection Robots breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026.and Explosion-Proof Mobile Inspection Robots market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Mobile Inspection Robots.

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

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