

Global Toxic Gas Detection Robot Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Toxic Gas Detection Robot market size was valued at US\$ 1379 million in 2025 and is forecast to a readjusted size of US\$ 3843 million by 2032 with a CAGR of 15.8% during review period.

A Toxic/Hazardous Gas Detection Robot is an autonomous or remotely controlled robotic platform designed to detect, monitor, and analyze the presence of toxic, flammable, or hazardous gases in industrial, chemical, mining, or high-risk environments. These robots are typically equipped with gas sensors, environmental monitoring systems, navigation and mobility capabilities (wheeled, tracked, or legged platforms), and communication modules to transmit real-time data for safety assessment, early warning, and operational decision-making. They are used to reduce human exposure to dangerous gases, enhance inspection efficiency, and support emergency response or regulatory compliance. In 2025, global toxic/hazardous gas detection robot production reached approximately 18 K units, with an average global market price of around US\$75,000 per unit. Annual production capacity is 20 K units. Gross Profit Margin: 25.75%. The industry chain of toxic/hazardous gas detection robots consists of three main layers: upstream, midstream, and downstream. Upstream includes raw material suppliers such as metals, sensors, LiDAR, cameras, batteries, and control electronics. Midstream comprises robot manufacturers and integrators who design and assemble autonomous or remotely operated platforms with gas detection modules. Downstream involves end-users in oil & gas, chemical, mining, utilities, and industrial safety sectors, who deploy these robots for monitoring, inspection, and emergency response. Additional support comes from software developers for AI algorithms, cloud analytics, and system integration. Toxic gas detection robots

represent a high-growth, high-value niche within industrial automation. Their adoption is driven by stricter safety regulations, labor cost reduction, and the need for real-time monitoring in hazardous environments. While current market size is modest compared to general industrial robotics, the combination of sensor miniaturization, AI-driven decision-making, and mobile robotics will likely expand adoption rapidly over the next 5-7 years, especially in developing regions with aging infrastructure and high safety risks.

This report is a detailed and comprehensive analysis for global Toxic Gas Detection Robot market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Mobility Platform 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 Toxic Gas Detection Robot market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (K US\$/Unit), 2021-2032

Global Toxic Gas Detection Robot market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (K US\$/Unit), 2021-2032

Global Toxic Gas Detection Robot market size and forecasts, by Mobility Platform Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (K US\$/Unit), 2021-2032

Global Toxic Gas Detection Robot market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (K US\$/Unit), 2021-2026

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 Toxic Gas Detection 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 Toxic Gas Detection 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 ExRobotics B.V. (The Netherlands), Taurob GmbH (Austria), OTSAW Digital Pte Ltd. (Singapore), SMP Robotics Limited (United States), Boston Dynamics Inc. (USA), Robotics Plus Ltd. (New Zealand), ENDEGS GmbH (Germany), Unmanned Systems Technology International (USTI) (UK), CPS Technology Holdings LLC (USA), Sentry Technology Corporation (USA), etc.

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

Market Segmentation

Toxic Gas Detection Robot market is split by Mobility Platform Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Mobility Platform 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 Mobility Platform Type

Wheeled Toxic Gas Detection Robot

Tracked Toxic Gas Detection Robot

Quadruped Gas Detection Robot

UAV-based Gas Detection Robot

Fixed / Stationary Gas Detection Robot System

Market segment by Explosion Protection Level

Non-Explosion-Proof

Intrinsically Safe Type (Ex ia)

Flameproof Type (Ex d)

Increased Safety Type (Ex e)

Market segment by Number of Detectable Gases

Single-Gas Detection Robot

Dual-Gas Detection Robot

Multi-Gas Detection Robot (3?6 gases)

Advanced Multi-Gas Detection Robot (6+ gases)

Market segment by Application

Oil & Gas Industry

Chemical & Hazardous Materials Manufacturing

Coal Mining & Mining Industry

Firefighting & Emergency Response

Power & Energy Facilities

Others

Major players covered

ExRobotics B.V. (The Netherlands)

Taurob GmbH (Austria)

OTSAW Digital Pte Ltd. (Singapore)

SMP Robotics Limited (United States)

Boston Dynamics Inc. (USA)

Robotics Plus Ltd. (New Zealand)

ENDEGS GmbH (Germany)

Unmanned Systems Technology International (USTI) (UK)

CPS Technology Holdings LLC (USA)

Sentry Technology Corporation (USA)

Shandong Guoxing Intelligent Technology Co., Ltd. (China)

ANYbotics AG (Switzerland)

SuperDroid Robots, Inc. (USA)

Telerob Gesellschaft f?r Fernhantierungstechnik mbH (Germany)

CISBOT By ULC Robotics (Canada)

VIC Group / Vacuum Instruments Corporation (USA)

Rockwell Automation Inc. (USA)

ZJROB

Zhejiang Chengshi Robot Co., Ltd. (China)

GE Inspection Robotics (USA)

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 Toxic Gas Detection Robot product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Toxic Gas Detection Robot, with price, sales quantity, revenue, and global market share of Toxic Gas Detection Robot from 2021 to 2026.

Chapter 3, the Toxic Gas Detection Robot competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Toxic Gas Detection Robot 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 Mobility Platform Type and by Application, with sales market share and growth rate by Mobility Platform 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 Toxic Gas Detection Robot market forecast, by regions, by Mobility Platform 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 Toxic Gas Detection Robot.

Chapter 14 and 15, to describe Toxic Gas Detection Robot sales channel, distributors, customers, research findings and conclusion.

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