

# Global Toxic Gas Detection Robot Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Toxic Gas Detection Robot market size is expected to reach \$ 3843 million by 2032, rising at a market growth of 15.8% CAGR during the forecast period (2026-2032).

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 studies the global Toxic Gas Detection Robot production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Toxic Gas Detection Robot 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 Toxic Gas Detection Robot that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Toxic Gas Detection Robot total production and demand, 2021-2032, (K Units)

Global Toxic Gas Detection Robot total production value, 2021-2032, (USD Million)

Global Toxic Gas Detection Robot production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Toxic Gas Detection Robot consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Toxic Gas Detection Robot domestic production, consumption, key domestic manufacturers and share

Global Toxic Gas Detection Robot production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Toxic Gas Detection Robot production by Mobility Platform Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Toxic Gas Detection Robot production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Toxic Gas Detection Robot 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Toxic Gas Detection Robot market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (K US\$/Unit) by manufacturer, by Mobility Platform 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 Toxic Gas Detection Robot Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Toxic Gas Detection Robot Market, Segmentation 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

Global Toxic Gas Detection Robot Market, Segmentation by Explosion Protection Level:

Non-Explosion-Proof

Intrinsically Safe Type (Ex ia)

Flameproof Type (Ex d)

Increased Safety Type (Ex e)

Global Toxic Gas Detection Robot Market, Segmentation 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)

Global Toxic Gas Detection Robot Market, Segmentation by Application:

Oil & Gas Industry

Chemical & Hazardous Materials Manufacturing

Coal Mining & Mining Industry

Firefighting & Emergency Response

Power & Energy Facilities

Others

#### Companies Profiled:

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 für 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)

**Key Questions Answered:**

1. How big is the global Toxic Gas Detection Robot market?
2. What is the demand of the global Toxic Gas Detection Robot market?
3. What is the year over year growth of the global Toxic Gas Detection Robot market?
4. What is the production and production value of the global Toxic Gas Detection Robot market?
5. Who are the key producers in the global Toxic Gas Detection Robot market?
6. What are the growth factors driving the market demand?

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