

Global AI-Enabled Inspection Robots 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 AI-Enabled Inspection Robots market size was valued at US\$ 9112 million in 2025 and is forecast to a readjusted size of US\$ 31708 million by 2032 with a CAGR of 19.4% during review period.

In 2025, global AI-Enabled Inspection Robots production reached approximately 0.9 million units, with an average global market price of around US\$ 10000 per unit. Annual production capacity is 1.1 million units. Gross Profit Margin: 40%. AI-Enabled Inspection Robots are intelligent robotic systems that integrate artificial intelligence (AI) technologies such as computer vision, deep learning, and sensor fusion with automated robotic platforms to perform inspection, defect detection, and condition monitoring tasks. The industry chain includes upstream suppliers of key components (sensors, AI chips, and algorithms), midstream robot manufacturers and system integrators, and downstream end-users across industries such as energy, manufacturing, and infrastructure. High-end sensors and AI chips form the primary technical barriers upstream, while system integration and algorithm optimization are critical in the midstream. Demand is largely driven by large industrial enterprises downstream. AI-enabled inspection robots are transitioning from single-purpose tools to integrated, platform-based solutions.

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

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

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

Global AI-Enabled Inspection Robots market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (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 AI-Enabled 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 AI-Enabled 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 Boston Dynamics (Hyundai Motor Group, Private, USA), ABB (SIX: ABBN, Switzerland), Siemens (XETRA: SIE, Germany), General Electric / GE Vernova (NYSE: GE, USA), DJI (Private, China), Teledyne FLIR (NYSE: TDY, USA), Honeywell (NASDAQ: HON, USA), Schneider Electric (EPA: SU, France), FARO Technologies (NASDAQ: FARO, USA), Trimble (NASDAQ: TRMB, USA), etc.

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

Market Segmentation

AI-Enabled 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 segment by Type

Ground Mobile Robots (UGV)

Aerial Robots (UAV / Drones)

Underwater Robots (ROV / AUV)

Stationary / Fixed Inspection Systems

Crawling / Climbing Robots (Wall, Tank, Pipeline Exterior)

In-pipe / Confined-space Robots

Market segment by Inspection Technology

Visual Inspection (2D/3D Machine Vision)

Thermal / Infrared Inspection

Ultrasonic Testing (UT)

Electromagnetic Testing (Eddy Current, MFL)

LiDAR / Laser Scanning

Acoustic / Vibration Analysis

Gas & Environmental Sensing

X-ray / Radiographic Testing

Market segment by Level of Autonomy

Manual / Tele-operated Robots

Semi-autonomous Robots

Fully Autonomous Robots (AI-driven decision making)

Market segment by Application

Large Enterprises / Industrial Operators

Government & Public Sector

Engineering, Procurement & Construction (EPC) Firms

Major players covered

Boston Dynamics (Hyundai Motor Group, Private, USA)

ABB (SIX: ABBN, Switzerland)

Siemens (XETRA: SIE, Germany)

General Electric / GE Vernova (NYSE: GE, USA)

DJI (Private, China)

Teledyne FLIR (NYSE: TDY, USA)

Honeywell (NASDAQ: HON, USA)

Schneider Electric (EPA: SU, France)

FARO Technologies (NASDAQ: FARO, USA)

Trimble (NASDAQ: TRMB, USA)

Omron (TSE: 6645, Japan)

Yokogawa Electric (TSE: 6841, Japan)

Siasun Robot & Automation (SZSE: 300024, China)

Hikrobot (Hikvision subsidiary, SZSE: 002415, China)

UBTECH Robotics (HKEX: 9880, China)

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 AI-Enabled Inspection Robots product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI-Enabled Inspection Robots, with price, sales quantity, revenue, and global market share of AI-Enabled

Inspection Robots from 2021 to 2026.

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

Chapter 4, the AI-Enabled 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 AI-Enabled 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 AI-Enabled Inspection Robots.

Chapter 14 and 15, to describe AI-Enabled Inspection Robots sales channel, distributors, customers, research findings and conclusion.

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