

Global AI-Enabled Inspection Robots Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI-Enabled Inspection Robots market size is expected to reach \$ 31708 million by 2032, rising at a market growth of 19.4% CAGR during the forecast period (2026-2032).

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 studies the global AI-Enabled Inspection Robots production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI-Enabled Inspection Robots 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 AI-Enabled Inspection Robots that

contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI-Enabled Inspection Robots total production and demand, 2021-2032, (K Units)

Global AI-Enabled Inspection Robots total production value, 2021-2032, (USD Million)

Global AI-Enabled Inspection Robots production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global AI-Enabled Inspection Robots consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: AI-Enabled Inspection Robots domestic production, consumption, key domestic manufacturers and share

Global AI-Enabled Inspection Robots production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global AI-Enabled Inspection Robots production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global AI-Enabled Inspection Robots production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global AI-Enabled Inspection Robots 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World AI-Enabled Inspection Robots market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by

manufacturer, by 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 AI-Enabled Inspection Robots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI-Enabled Inspection Robots Market, Segmentation 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

Global AI-Enabled Inspection Robots Market, Segmentation 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

Global AI-Enabled Inspection Robots Market, Segmentation by Level of Autonomy:

Manual / Tele-operated Robots

Semi-autonomous Robots

Fully Autonomous Robots (AI-driven decision making)

Global AI-Enabled Inspection Robots Market, Segmentation by Application:

Large Enterprises / Industrial Operators

Government & Public Sector

Engineering, Procurement & Construction (EPC) Firms

Companies Profiled:

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)

Key Questions Answered:

1. How big is the global AI-Enabled Inspection Robots market?
2. What is the demand of the global AI-Enabled Inspection Robots market?
3. What is the year over year growth of the global AI-Enabled Inspection Robots market?
4. What is the production and production value of the global AI-Enabled Inspection Robots market?
5. Who are the key producers in the global AI-Enabled Inspection Robots market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 AI-Enabled Inspection Robots Introduction
- 1.2 World AI-Enabled Inspection Robots Supply & Forecast
 - 1.2.1 World AI-Enabled Inspection Robots Production Value (2021 & 2025 & 2032)
 - 1.2.2 World AI-Enabled Inspection Robots Production (2021-2032)
 - 1.2.3 World AI-Enabled Inspection Robots Pricing Trends (2021-2032)
- 1.3 World AI-Enabled Inspection Robots Production by Region (Based on Production Site)
 - 1.3.1 World AI-Enabled Inspection Robots Production Value by Region (2021-2032)
 - 1.3.2 World AI-Enabled Inspection Robots Production by Region (2021-2032)
 - 1.3.3 World AI-Enabled Inspection Robots Average Price by Region (2021-2032)
 - 1.3.4 North America AI-Enabled Inspection Robots Production (2021-2032)
 - 1.3.5 Europe AI-Enabled Inspection Robots Production (2021-2032)
 - 1.3.6 China AI-Enabled Inspection Robots Production (2021-2032)
 - 1.3.7 Japan AI-Enabled Inspection Robots Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 AI-Enabled Inspection Robots Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 AI-Enabled Inspection Robots Major Market Trends

2 DEMAND SUMMARY

- 2.1 World AI-Enabled Inspection Robots Demand (2021-2032)
- 2.2 World AI-Enabled Inspection Robots Consumption by Region
 - 2.2.1 World AI-Enabled Inspection Robots Consumption by Region (2021-2026)
 - 2.2.2 World AI-Enabled Inspection Robots Consumption Forecast by Region (2027-2032)
- 2.3 United States AI-Enabled Inspection Robots Consumption (2021-2032)
- 2.4 China AI-Enabled Inspection Robots Consumption (2021-2032)
- 2.5 Europe AI-Enabled Inspection Robots Consumption (2021-2032)
- 2.6 Japan AI-Enabled Inspection Robots Consumption (2021-2032)
- 2.7 South Korea AI-Enabled Inspection Robots Consumption (2021-2032)
- 2.8 ASEAN AI-Enabled Inspection Robots Consumption (2021-2032)
- 2.9 India AI-Enabled Inspection Robots Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World AI-Enabled Inspection Robots Production Value by Manufacturer (2021-2026)
- 3.2 World AI-Enabled Inspection Robots Production by Manufacturer (2021-2026)
- 3.3 World AI-Enabled Inspection Robots Average Price by Manufacturer (2021-2026)
- 3.4 AI-Enabled Inspection Robots Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global AI-Enabled Inspection Robots Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for AI-Enabled Inspection Robots in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for AI-Enabled Inspection Robots in 2025
- 3.6 AI-Enabled Inspection Robots Market: Overall Company Footprint Analysis
 - 3.6.1 AI-Enabled Inspection Robots Market: Region Footprint
 - 3.6.2 AI-Enabled Inspection Robots Market: Company Product Type Footprint
 - 3.6.3 AI-Enabled Inspection Robots Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: AI-Enabled Inspection Robots Production Value Comparison
 - 4.1.1 United States VS China: AI-Enabled Inspection Robots Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: AI-Enabled Inspection Robots Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: AI-Enabled Inspection Robots Production Comparison
 - 4.2.1 United States VS China: AI-Enabled Inspection Robots Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: AI-Enabled Inspection Robots Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: AI-Enabled Inspection Robots Consumption Comparison
 - 4.3.1 United States VS China: AI-Enabled Inspection Robots Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: AI-Enabled Inspection Robots Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based AI-Enabled Inspection Robots Manufacturers and Market

Share, 2021-2026

4.4.1 United States Based AI-Enabled Inspection Robots Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers AI-Enabled Inspection Robots Production Value (2021-2026)

4.4.3 United States Based Manufacturers AI-Enabled Inspection Robots Production (2021-2026)

4.5 China Based AI-Enabled Inspection Robots Manufacturers and Market Share

4.5.1 China Based AI-Enabled Inspection Robots Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers AI-Enabled Inspection Robots Production Value (2021-2026)

4.5.3 China Based Manufacturers AI-Enabled Inspection Robots Production (2021-2026)

4.6 Rest of World Based AI-Enabled Inspection Robots Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based AI-Enabled Inspection Robots Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers AI-Enabled Inspection Robots Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers AI-Enabled Inspection Robots Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World AI-Enabled Inspection Robots Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Ground Mobile Robots (UGV)

5.2.2 Aerial Robots (UAV / Drones)

5.2.3 Underwater Robots (ROV / AUV)

5.2.4 Stationary / Fixed Inspection Systems

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

5.2.6 In-pipe / Confined-space Robots

5.3 Market Segment by Type

5.3.1 World AI-Enabled Inspection Robots Production by Type (2021-2032)

5.3.2 World AI-Enabled Inspection Robots Production Value by Type (2021-2032)

5.3.3 World AI-Enabled Inspection Robots Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY INSPECTION TECHNOLOGY

6.1 World AI-Enabled Inspection Robots Market Size Overview by Inspection Technology: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Inspection Technology

6.2.1 Visual Inspection (2D/3D Machine Vision)

6.2.2 Thermal / Infrared Inspection

6.2.3 Ultrasonic Testing (UT)

6.2.4 Electromagnetic Testing (Eddy Current, MFL)

6.2.5 LiDAR / Laser Scanning

6.2.6 Acoustic / Vibration Analysis

6.2.7 Gas & Environmental Sensing

6.2.8 X-ray / Radiographic Testing

6.3 Market Segment by Inspection Technology

6.3.1 World AI-Enabled Inspection Robots Production by Inspection Technology (2021-2032)

6.3.2 World AI-Enabled Inspection Robots Production Value by Inspection Technology (2021-2032)

6.3.3 World AI-Enabled Inspection Robots Average Price by Inspection Technology (2021-2032)

7 MARKET ANALYSIS BY LEVEL OF AUTONOMY

7.1 World AI-Enabled Inspection Robots Market Size Overview by Level of Autonomy: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Level of Autonomy

7.2.1 Manual / Tele-operated Robots

7.2.2 Semi-autonomous Robots

7.2.3 Fully Autonomous Robots (AI-driven decision making)

7.3 Market Segment by Level of Autonomy

7.3.1 World AI-Enabled Inspection Robots Production by Level of Autonomy (2021-2032)

7.3.2 World AI-Enabled Inspection Robots Production Value by Level of Autonomy (2021-2032)

7.3.3 World AI-Enabled Inspection Robots Average Price by Level of Autonomy (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World AI-Enabled Inspection Robots Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Large Enterprises / Industrial Operators

8.2.2 Government & Public Sector

8.2.3 Engineering, Procurement & Construction (EPC) Firms

8.3 Market Segment by Application

8.3.1 World AI-Enabled Inspection Robots Production by Application (2021-2032)

8.3.2 World AI-Enabled Inspection Robots Production Value by Application (2021-2032)

8.3.3 World AI-Enabled Inspection Robots Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Boston Dynamics (Hyundai Motor Group, Private, USA)

9.1.1 Boston Dynamics (Hyundai Motor Group, Private, USA) Details

9.1.2 Boston Dynamics (Hyundai Motor Group, Private, USA) Major Business

9.1.3 Boston Dynamics (Hyundai Motor Group, Private, USA) AI-Enabled Inspection Robots Product and Services

9.1.4 Boston Dynamics (Hyundai Motor Group, Private, USA) AI-Enabled Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Boston Dynamics (Hyundai Motor Group, Private, USA) Recent Developments/Updates

9.1.6 Boston Dynamics (Hyundai Motor Group, Private, USA) Competitive Strengths & Weaknesses

9.2 ABB (SIX: ABBN, Switzerland)

9.2.1 ABB (SIX: ABBN, Switzerland) Details

9.2.2 ABB (SIX: ABBN, Switzerland) Major Business

9.2.3 ABB (SIX: ABBN, Switzerland) AI-Enabled Inspection Robots Product and Services

9.2.4 ABB (SIX: ABBN, Switzerland) AI-Enabled Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 ABB (SIX: ABBN, Switzerland) Recent Developments/Updates

9.2.6 ABB (SIX: ABBN, Switzerland) Competitive Strengths & Weaknesses

9.3 Siemens (XETRA: SIE, Germany)

9.3.1 Siemens (XETRA: SIE, Germany) Details

9.3.2 Siemens (XETRA: SIE, Germany) Major Business

9.3.3 Siemens (XETRA: SIE, Germany) AI-Enabled Inspection Robots Product and Services

9.3.4 Siemens (XETRA: SIE, Germany) AI-Enabled Inspection Robots Production,

Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Siemens (XETRA: SIE, Germany) Recent Developments/Updates

9.3.6 Siemens (XETRA: SIE, Germany) Competitive Strengths & Weaknesses

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

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

9.4.2 General Electric / GE Vernova (NYSE: GE, USA) Major Business

9.4.3 General Electric / GE Vernova (NYSE: GE, USA) AI-Enabled Inspection Robots Product and Services

9.4.4 General Electric / GE Vernova (NYSE: GE, USA) AI-Enabled Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 General Electric / GE Vernova (NYSE: GE, USA) Recent Developments/Updates

9.4.6 General Electric / GE Vernova (NYSE: GE, USA) Competitive Strengths & Weaknesses

9.5 DJI (Private, China)

9.5.1 DJI (Private, China) Details

9.5.2 DJI (Private, China) Major Business

9.5.3 DJI (Private, China) AI-Enabled Inspection Robots Product and Services

9.5.4 DJI (Private, China) AI-Enabled Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 DJI (Private, China) Recent Developments/Updates

9.5.6 DJI (Private, China) Competitive Strengths & Weaknesses

9.6 Teledyne FLIR (NYSE: TDY, USA)

9.6.1 Teledyne FLIR (NYSE: TDY, USA) Details

9.6.2 Teledyne FLIR (NYSE: TDY, USA) Major Business

9.6.3 Teledyne FLIR (NYSE: TDY, USA) AI-Enabled Inspection Robots Product and Services

9.6.4 Teledyne FLIR (NYSE: TDY, USA) AI-Enabled Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Teledyne FLIR (NYSE: TDY, USA) Recent Developments/Updates

9.6.6 Teledyne FLIR (NYSE: TDY, USA) Competitive Strengths & Weaknesses

9.7 Honeywell (NASDAQ: HON, USA)

9.7.1 Honeywell (NASDAQ: HON, USA) Details

9.7.2 Honeywell (NASDAQ: HON, USA) Major Business

9.7.3 Honeywell (NASDAQ: HON, USA) AI-Enabled Inspection Robots Product and Services

9.7.4 Honeywell (NASDAQ: HON, USA) AI-Enabled Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Honeywell (NASDAQ: HON, USA) Recent Developments/Updates

9.7.6 Honeywell (NASDAQ: HON, USA) Competitive Strengths & Weaknesses

9.8 Schneider Electric (EPA: SU, France)

9.8.1 Schneider Electric (EPA: SU, France) Details

9.8.2 Schneider Electric (EPA: SU, France) Major Business

9.8.3 Schneider Electric (EPA: SU, France) AI-Enabled Inspection Robots Product and Services

9.8.4 Schneider Electric (EPA: SU, France) AI-Enabled Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Schneider Electric (EPA: SU, France) Recent Developments/Updates

9.8.6 Schneider Electric (EPA: SU, France) Competitive Strengths & Weaknesses

9.9 FARO Technologies (NASDAQ: FARO, USA)

9.9.1 FARO Technologies (NASDAQ: FARO, USA) Details

9.9.2 FARO Technologies (NASDAQ: FARO, USA) Major Business

9.9.3 FARO Technologies (NASDAQ: FARO, USA) AI-Enabled Inspection Robots Product and Services

9.9.4 FARO Technologies (NASDAQ: FARO, USA) AI-Enabled Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 FARO Technologies (NASDAQ: FARO, USA) Recent Developments/Updates

9.9.6 FARO Technologies (NASDAQ: FARO, USA) Competitive Strengths & Weaknesses

9.10 Trimble (NASDAQ: TRMB, USA)

9.10.1 Trimble (NASDAQ: TRMB, USA) Details

9.10.2 Trimble (NASDAQ: TRMB, USA) Major Business

9.10.3 Trimble (NASDAQ: TRMB, USA) AI-Enabled Inspection Robots Product and Services

9.10.4 Trimble (NASDAQ: TRMB, USA) AI-Enabled Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Trimble (NASDAQ: TRMB, USA) Recent Developments/Updates

9.10.6 Trimble (NASDAQ: TRMB, USA) Competitive Strengths & Weaknesses

9.11 Omron (TSE: 6645, Japan)

9.11.1 Omron (TSE: 6645, Japan) Details

9.11.2 Omron (TSE: 6645, Japan) Major Business

9.11.3 Omron (TSE: 6645, Japan) AI-Enabled Inspection Robots Product and Services

9.11.4 Omron (TSE: 6645, Japan) AI-Enabled Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Omron (TSE: 6645, Japan) Recent Developments/Updates

9.11.6 Omron (TSE: 6645, Japan) Competitive Strengths & Weaknesses

9.12 Yokogawa Electric (TSE: 6841, Japan)

9.12.1 Yokogawa Electric (TSE: 6841, Japan) Details

9.12.2 Yokogawa Electric (TSE: 6841, Japan) Major Business

- 9.12.3 Yokogawa Electric (TSE: 6841, Japan) AI-Enabled Inspection Robots Product and Services
- 9.12.4 Yokogawa Electric (TSE: 6841, Japan) AI-Enabled Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 Yokogawa Electric (TSE: 6841, Japan) Recent Developments/Updates
- 9.12.6 Yokogawa Electric (TSE: 6841, Japan) Competitive Strengths & Weaknesses
- 9.13 Siasun Robot & Automation (SZSE: 300024, China)
 - 9.13.1 Siasun Robot & Automation (SZSE: 300024, China) Details
 - 9.13.2 Siasun Robot & Automation (SZSE: 300024, China) Major Business
 - 9.13.3 Siasun Robot & Automation (SZSE: 300024, China) AI-Enabled Inspection Robots Product and Services
 - 9.13.4 Siasun Robot & Automation (SZSE: 300024, China) AI-Enabled Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Siasun Robot & Automation (SZSE: 300024, China) Recent Developments/Updates
 - 9.13.6 Siasun Robot & Automation (SZSE: 300024, China) Competitive Strengths & Weaknesses
- 9.14 Hikrobot (Hikvision subsidiary, SZSE: 002415, China)
 - 9.14.1 Hikrobot (Hikvision subsidiary, SZSE: 002415, China) Details
 - 9.14.2 Hikrobot (Hikvision subsidiary, SZSE: 002415, China) Major Business
 - 9.14.3 Hikrobot (Hikvision subsidiary, SZSE: 002415, China) AI-Enabled Inspection Robots Product and Services
 - 9.14.4 Hikrobot (Hikvision subsidiary, SZSE: 002415, China) AI-Enabled Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Hikrobot (Hikvision subsidiary, SZSE: 002415, China) Recent Developments/Updates
 - 9.14.6 Hikrobot (Hikvision subsidiary, SZSE: 002415, China) Competitive Strengths & Weaknesses
- 9.15 UBTECH Robotics (HKEX: 9880, China)
 - 9.15.1 UBTECH Robotics (HKEX: 9880, China) Details
 - 9.15.2 UBTECH Robotics (HKEX: 9880, China) Major Business
 - 9.15.3 UBTECH Robotics (HKEX: 9880, China) AI-Enabled Inspection Robots Product and Services
 - 9.15.4 UBTECH Robotics (HKEX: 9880, China) AI-Enabled Inspection Robots Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 UBTECH Robotics (HKEX: 9880, China) Recent Developments/Updates
 - 9.15.6 UBTECH Robotics (HKEX: 9880, China) Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 AI-Enabled Inspection Robots Industry Chain
- 10.2 AI-Enabled Inspection Robots Upstream Analysis
 - 10.2.1 AI-Enabled Inspection Robots Core Raw Materials
 - 10.2.2 Main Manufacturers of AI-Enabled Inspection Robots Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 AI-Enabled Inspection Robots Production Mode
- 10.6 AI-Enabled Inspection Robots Procurement Model
- 10.7 AI-Enabled Inspection Robots Industry Sales Model and Sales Channels
 - 10.7.1 AI-Enabled Inspection Robots Sales Model
 - 10.7.2 AI-Enabled Inspection Robots Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World AI-Enabled Inspection Robots Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World AI-Enabled Inspection Robots Production Value by Region (2021-2026) & (USD Million)

Table 3. World AI-Enabled Inspection Robots Production Value by Region (2027-2032) & (USD Million)

Table 4. World AI-Enabled Inspection Robots Production Value Market Share by Region (2021-2026)

Table 5. World AI-Enabled Inspection Robots Production Value Market Share by Region (2027-2032)

Table 6. World AI-Enabled Inspection Robots Production by Region (2021-2026) & (K Units)

Table 7. World AI-Enabled Inspection Robots Production by Region (2027-2032) & (K Units)

Table 8. World AI-Enabled Inspection Robots Production Market Share by Region (2021-2026)

Table 9. World AI-Enabled Inspection Robots Production Market Share by Region (2027-2032)

Table 10. World AI-Enabled Inspection Robots Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World AI-Enabled Inspection Robots Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. AI-Enabled Inspection Robots Major Market Trends

Table 13. World AI-Enabled Inspection Robots Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World AI-Enabled Inspection Robots Consumption by Region (2021-2026) & (K Units)

Table 15. World AI-Enabled Inspection Robots Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World AI-Enabled Inspection Robots Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key AI-Enabled Inspection Robots Producers in 2025

Table 18. World AI-Enabled Inspection Robots Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key AI-Enabled Inspection Robots Producers in 2025

Table 20. World AI-Enabled Inspection Robots Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global AI-Enabled Inspection Robots Company Evaluation Quadrant

Table 22. World AI-Enabled Inspection Robots Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and AI-Enabled Inspection Robots Production Site of Key Manufacturer

Table 24. AI-Enabled Inspection Robots Market: Company Product Type Footprint

Table 25. AI-Enabled Inspection Robots Market: Company Product Application Footprint

Table 26. AI-Enabled Inspection Robots Competitive Factors

Table 27. AI-Enabled Inspection Robots New Entrant and Capacity Expansion Plans

Table 28. AI-Enabled Inspection Robots Mergers & Acquisitions Activity

Table 29. United States VS China AI-Enabled Inspection Robots Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China AI-Enabled Inspection Robots Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China AI-Enabled Inspection Robots Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based AI-Enabled Inspection Robots Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers AI-Enabled Inspection Robots Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers AI-Enabled Inspection Robots Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers AI-Enabled Inspection Robots Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers AI-Enabled Inspection Robots Production Market Share (2021-2026)

Table 37. China Based AI-Enabled Inspection Robots Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers AI-Enabled Inspection Robots Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers AI-Enabled Inspection Robots Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers AI-Enabled Inspection Robots Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers AI-Enabled Inspection Robots Production Market

Share (2021-2026)

Table 42. Rest of World Based AI-Enabled Inspection Robots Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers AI-Enabled Inspection Robots Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers AI-Enabled Inspection Robots Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers AI-Enabled Inspection Robots Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers AI-Enabled Inspection Robots Production Market Share (2021-2026)

Table 47. World AI-Enabled Inspection Robots Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World AI-Enabled Inspection Robots Production by Type (2021-2026) & (K Units)

Table 49. World AI-Enabled Inspection Robots Production by Type (2027-2032) & (K Units)

Table 50. World AI-Enabled Inspection Robots Production Value by Type (2021-2026) & (USD Million)

Table 51. World AI-Enabled Inspection Robots Production Value by Type (2027-2032) & (USD Million)

Table 52. World AI-Enabled Inspection Robots Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World AI-Enabled Inspection Robots Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World AI-Enabled Inspection Robots Production Value by Inspection Technology, (USD Million), 2021 & 2025 & 2032

Table 55. World AI-Enabled Inspection Robots Production by Inspection Technology (2021-2026) & (K Units)

Table 56. World AI-Enabled Inspection Robots Production by Inspection Technology (2027-2032) & (K Units)

Table 57. World AI-Enabled Inspection Robots Production Value by Inspection Technology (2021-2026) & (USD Million)

Table 58. World AI-Enabled Inspection Robots Production Value by Inspection Technology (2027-2032) & (USD Million)

Table 59. World AI-Enabled Inspection Robots Average Price by Inspection Technology (2021-2026) & (US\$/Unit)

Table 60. World AI-Enabled Inspection Robots Average Price by Inspection Technology (2027-2032) & (US\$/Unit)

Table 61. World AI-Enabled Inspection Robots Production Value by Level of Autonomy, (USD Million), 2021 & 2025 & 2032

Table 62. World AI-Enabled Inspection Robots Production by Level of Autonomy (2021-2026) & (K Units)

Table 63. World AI-Enabled Inspection Robots Production by Level of Autonomy (2027-2032) & (K Units)

Table 64. World AI-Enabled Inspection Robots Production Value by Level of Autonomy (2021-2026) & (USD Million)

Table 65. World AI-Enabled Inspection Robots Production Value by Level of Autonomy (2027-2032) & (USD Million)

Table 66. World AI-Enabled Inspection Robots Average Price by Level of Autonomy (2021-2026) & (US\$/Unit)

Table 67. World AI-Enabled Inspection Robots Average Price by Level of Autonomy (2027-2032) & (US\$/Unit)

Table 68. World AI-Enabled Inspection Robots Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World AI-Enabled Inspection Robots Production by Application (2021-2026) & (K Units)

Table 70. World AI-Enabled Inspection Robots Production by Application (2027-2032) & (K Units)

Table 71. World AI-Enabled Inspection Robots Production Value by Application (2021-2026) & (USD Million)

Table 72. World AI-Enabled Inspection Robots Production Value by Application (2027-2032) & (USD Million)

Table 73. World AI-Enabled Inspection Robots Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World AI-Enabled Inspection Robots Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Boston Dynamics (Hyundai Motor Group, Private, USA) Basic Information, Manufacturing Base and Competitors

Table 76. Boston Dynamics (Hyundai Motor Group, Private, USA) Major Business

Table 77. Boston Dynamics (Hyundai Motor Group, Private, USA) AI-Enabled Inspection Robots Product and Services

Table 78. Boston Dynamics (Hyundai Motor Group, Private, USA) AI-Enabled Inspection Robots Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Boston Dynamics (Hyundai Motor Group, Private, USA) Recent Developments/Updates

Table 80. Boston Dynamics (Hyundai Motor Group, Private, USA) Competitive

Strengths & Weaknesses

Table 81. ABB (SIX: ABBN, Switzerland) Basic Information, Manufacturing Base and Competitors

Table 82. ABB (SIX: ABBN, Switzerland) Major Business

Table 83. ABB (SIX: ABBN, Switzerland) AI-Enabled Inspection Robots Product and Services

Table 84. ABB (SIX: ABBN, Switzerland) AI-Enabled Inspection Robots Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. ABB (SIX: ABBN, Switzerland) Recent Developments/Updates

Table 86. ABB (SIX: ABBN, Switzerland) Competitive Strengths & Weaknesses

Table 87. Siemens (XETRA: SIE, Germany) Basic Information, Manufacturing Base and Competitors

Table 88. Siemens (XETRA: SIE, Germany) Major Business

Table 89. Siemens (XETRA: SIE, Germany) AI-Enabled Inspection Robots Product and Services

Table 90. Siemens (XETRA: SIE, Germany) AI-Enabled Inspection Robots Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Siemens (XETRA: SIE, Germany) Recent Developments/Updates

Table 92. Siemens (XETRA: SIE, Germany) Competitive Strengths & Weaknesses

Table 93. General Electric / GE Vernova (NYSE: GE, USA) Basic Information, Manufacturing Base and Competitors

Table 94. General Electric / GE Vernova (NYSE: GE, USA) Major Business

Table 95. General Electric / GE Vernova (NYSE: GE, USA) AI-Enabled Inspection Robots Product and Services

Table 96. General Electric / GE Vernova (NYSE: GE, USA) AI-Enabled Inspection Robots Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. General Electric / GE Vernova (NYSE: GE, USA) Recent Developments/Updates

Table 98. General Electric / GE Vernova (NYSE: GE, USA) Competitive Strengths & Weaknesses

Table 99. DJI (Private, China) Basic Information, Manufacturing Base and Competitors

Table 100. DJI (Private, China) Major Business

Table 101. DJI (Private, China) AI-Enabled Inspection Robots Product and Services

Table 102. DJI (Private, China) AI-Enabled Inspection Robots Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. DJI (Private, China) Recent Developments/Updates
Table 104. DJI (Private, China) Competitive Strengths & Weaknesses
Table 105. Teledyne FLIR (NYSE: TDY, USA) Basic Information, Manufacturing Base and Competitors
Table 106. Teledyne FLIR (NYSE: TDY, USA) Major Business
Table 107. Teledyne FLIR (NYSE: TDY, USA) AI-Enabled Inspection Robots Product and Services
Table 108. Teledyne FLIR (NYSE: TDY, USA) AI-Enabled Inspection Robots Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Teledyne FLIR (NYSE: TDY, USA) Recent Developments/Updates
Table 110. Teledyne FLIR (NYSE: TDY, USA) Competitive Strengths & Weaknesses
Table 111. Honeywell (NASDAQ: HON, USA) Basic Information, Manufacturing Base and Competitors
Table 112. Honeywell (NASDAQ: HON, USA) Major Business
Table 113. Honeywell (NASDAQ: HON, USA) AI-Enabled Inspection Robots Product and Services
Table 114. Honeywell (NASDAQ: HON, USA) AI-Enabled Inspection Robots Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Honeywell (NASDAQ: HON, USA) Recent Developments/Updates
Table 116. Honeywell (NASDAQ: HON, USA) Competitive Strengths & Weaknesses
Table 117. Schneider Electric (EPA: SU, France) Basic Information, Manufacturing Base and Competitors
Table 118. Schneider Electric (EPA: SU, France) Major Business
Table 119. Schneider Electric (EPA: SU, France) AI-Enabled Inspection Robots Product and Services
Table 120. Schneider Electric (EPA: SU, France) AI-Enabled Inspection Robots Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Schneider Electric (EPA: SU, France) Recent Developments/Updates
Table 122. Schneider Electric (EPA: SU, France) Competitive Strengths & Weaknesses
Table 123. FARO Technologies (NASDAQ: FARO, USA) Basic Information, Manufacturing Base and Competitors
Table 124. FARO Technologies (NASDAQ: FARO, USA) Major Business
Table 125. FARO Technologies (NASDAQ: FARO, USA) AI-Enabled Inspection Robots Product and Services
Table 126. FARO Technologies (NASDAQ: FARO, USA) AI-Enabled Inspection Robots Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin

and Market Share (2021-2026)

Table 127. FARO Technologies (NASDAQ: FARO, USA) Recent Developments/Updates

Table 128. FARO Technologies (NASDAQ: FARO, USA) Competitive Strengths & Weaknesses

Table 129. Trimble (NASDAQ: TRMB, USA) Basic Information, Manufacturing Base and Competitors

Table 130. Trimble (NASDAQ: TRMB, USA) Major Business

Table 131. Trimble (NASDAQ: TRMB, USA) AI-Enabled Inspection Robots Product and Services

Table 132. Trimble (NASDAQ: TRMB, USA) AI-Enabled Inspection Robots Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Trimble (NASDAQ: TRMB, USA) Recent Developments/Updates

Table 134. Trimble (NASDAQ: TRMB, USA) Competitive Strengths & Weaknesses

Table 135. Omron (TSE: 6645, Japan) Basic Information, Manufacturing Base and Competitors

Table 136. Omron (TSE: 6645, Japan) Major Business

Table 137. Omron (TSE: 6645, Japan) AI-Enabled Inspection Robots Product and Services

Table 138. Omron (TSE: 6645, Japan) AI-Enabled Inspection Robots Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Omron (TSE: 6645, Japan) Recent Developments/Updates

Table 140. Omron (TSE: 6645, Japan) Competitive Strengths & Weaknesses

Table 141. Yokogawa Electric (TSE: 6841, Japan) Basic Information, Manufacturing Base and Competitors

Table 142. Yokogawa Electric (TSE: 6841, Japan) Major Business

Table 143. Yokogawa Electric (TSE: 6841, Japan) AI-Enabled Inspection Robots Product and Services

Table 144. Yokogawa Electric (TSE: 6841, Japan) AI-Enabled Inspection Robots Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Yokogawa Electric (TSE: 6841, Japan) Recent Developments/Updates

Table 146. Yokogawa Electric (TSE: 6841, Japan) Competitive Strengths & Weaknesses

Table 147. Siasun Robot & Automation (SZSE: 300024, China) Basic Information, Manufacturing Base and Competitors

Table 148. Siasun Robot & Automation (SZSE: 300024, China) Major Business

Table 149. Siasun Robot & Automation (SZSE: 300024, China) AI-Enabled Inspection Robots Product and Services

Table 150. Siasun Robot & Automation (SZSE: 300024, China) AI-Enabled Inspection Robots Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Siasun Robot & Automation (SZSE: 300024, China) Recent Developments/Updates

Table 152. Siasun Robot & Automation (SZSE: 300024, China) Competitive Strengths & Weaknesses

Table 153. Hikrobot (Hikvision subsidiary, SZSE: 002415, China) Basic Information, Manufacturing Base and Competitors

Table 154. Hikrobot (Hikvision subsidiary, SZSE: 002415, China) Major Business

Table 155. Hikrobot (Hikvision subsidiary, SZSE: 002415, China) AI-Enabled Inspection Robots Product and Services

Table 156. Hikrobot (Hikvision subsidiary, SZSE: 002415, China) AI-Enabled Inspection Robots Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Hikrobot (Hikvision subsidiary, SZSE: 002415, China) Recent Developments/Updates

Table 158. Hikrobot (Hikvision subsidiary, SZSE: 002415, China) Competitive Strengths & Weaknesses

Table 159. UBTECH Robotics (HKEX: 9880, China) Basic Information, Manufacturing Base and Competitors

Table 160. UBTECH Robotics (HKEX: 9880, China) Major Business

Table 161. UBTECH Robotics (HKEX: 9880, China) AI-Enabled Inspection Robots Product and Services

Table 162. UBTECH Robotics (HKEX: 9880, China) AI-Enabled Inspection Robots Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. UBTECH Robotics (HKEX: 9880, China) Recent Developments/Updates

Table 164. UBTECH Robotics (HKEX: 9880, China) Competitive Strengths & Weaknesses

Table 165. Global Key Players of AI-Enabled Inspection Robots Upstream (Raw Materials)

Table 166. Global AI-Enabled Inspection Robots Typical Customers

Table 167. AI-Enabled Inspection Robots Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. AI-Enabled Inspection Robots Picture

Figure 2. World AI-Enabled Inspection Robots Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World AI-Enabled Inspection Robots Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World AI-Enabled Inspection Robots Production (2021-2032) & (K Units)

Figure 5. World AI-Enabled Inspection Robots Average Price (2021-2032) & (US\$/Unit)

Figure 6. World AI-Enabled Inspection Robots Production Value Market Share by Region (2021-2032)

Figure 7. World AI-Enabled Inspection Robots Production Market Share by Region (2021-2032)

Figure 8. North America AI-Enabled Inspection Robots Production (2021-2032) & (K Units)

Figure 9. Europe AI-Enabled Inspection Robots Production (2021-2032) & (K Units)

Figure 10. China AI-Enabled Inspection Robots Production (2021-2032) & (K Units)

Figure 11. Japan AI-Enabled Inspection Robots Production (2021-2032) & (K Units)

Figure 12. AI-Enabled Inspection Robots Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World AI-Enabled Inspection Robots Consumption (2021-2032) & (K Units)

Figure 15. World AI-Enabled Inspection Robots Consumption Market Share by Region (2021-2032)

Figure 16. United States AI-Enabled Inspection Robots Consumption (2021-2032) & (K Units)

Figure 17. China AI-Enabled Inspection Robots Consumption (2021-2032) & (K Units)

Figure 18. Europe AI-Enabled Inspection Robots Consumption (2021-2032) & (K Units)

Figure 19. Japan AI-Enabled Inspection Robots Consumption (2021-2032) & (K Units)

Figure 20. South Korea AI-Enabled Inspection Robots Consumption (2021-2032) & (K Units)

Figure 21. ASEAN AI-Enabled Inspection Robots Consumption (2021-2032) & (K Units)

Figure 22. India AI-Enabled Inspection Robots Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of AI-Enabled Inspection Robots by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for AI-Enabled Inspection Robots Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for AI-Enabled Inspection

Robots Markets in 2025

Figure 26. United States VS China: AI-Enabled Inspection Robots Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: AI-Enabled Inspection Robots Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: AI-Enabled Inspection Robots Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers AI-Enabled Inspection Robots Production Market Share 2025

Figure 30. China Based Manufacturers AI-Enabled Inspection Robots Production Market Share 2025

Figure 31. Rest of World Based Manufacturers AI-Enabled Inspection Robots Production Market Share 2025

Figure 32. World AI-Enabled Inspection Robots Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World AI-Enabled Inspection Robots Production Value Market Share by Type in 2025

Figure 34. Ground Mobile Robots (UGV)

Figure 35. Aerial Robots (UAV / Drones)

Figure 36. Underwater Robots (ROV / AUV)

Figure 37. Stationary / Fixed Inspection Systems

Figure 38. Crawling / Climbing Robots (Wall, Tank, Pipeline Exterior)

Figure 39. In-pipe / Confined-space Robots

Figure 40. World AI-Enabled Inspection Robots Production Market Share by Type (2021-2032)

Figure 41. World AI-Enabled Inspection Robots Production Value Market Share by Type (2021-2032)

Figure 42. World AI-Enabled Inspection Robots Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. World AI-Enabled Inspection Robots Production Value by Inspection Technology, (USD Million), 2021 & 2025 & 2032

Figure 44. World AI-Enabled Inspection Robots Production Value Market Share by Inspection Technology in 2025

Figure 45. Visual Inspection (2D/3D Machine Vision)

Figure 46. Thermal / Infrared Inspection

Figure 47. Ultrasonic Testing (UT)

Figure 48. Electromagnetic Testing (Eddy Current, MFL)

Figure 49. LiDAR / Laser Scanning

Figure 50. Acoustic / Vibration Analysis

Figure 51. Gas & Environmental Sensing

Figure 52. X-ray / Radiographic Testing

Figure 53. Gas & Environmental Sensing

Figure 54. World AI-Enabled Inspection Robots Production Market Share by Inspection Technology (2021-2032)

Figure 55. World AI-Enabled Inspection Robots Production Value Market Share by Inspection Technology (2021-2032)

Figure 56. World AI-Enabled Inspection Robots Average Price by Inspection Technology (2021-2032) & (US\$/Unit)

Figure 57. World AI-Enabled Inspection Robots Production Value by Level of Autonomy, (USD Million), 2021 & 2025 & 2032

Figure 58. World AI-Enabled Inspection Robots Production Value Market Share by Level of Autonomy in 2025

Figure 59. Manual / Tele-operated Robots

Figure 60. Semi-autonomous Robots

Figure 61. Fully Autonomous Robots (AI-driven decision making)

Figure 62. World AI-Enabled Inspection Robots Production Market Share by Level of Autonomy (2021-2032)

Figure 63. World AI-Enabled Inspection Robots Production Value Market Share by Level of Autonomy (2021-2032)

Figure 64. World AI-Enabled Inspection Robots Average Price by Level of Autonomy (2021-2032) & (US\$/Unit)

Figure 65. World AI-Enabled Inspection Robots Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 66. World AI-Enabled Inspection Robots Production Value Market Share by Application in 2025

Figure 67. Large Enterprises / Industrial Operators

Figure 68. Government & Public Sector

Figure 69. Engineering, Procurement & Construction (EPC) Firms

Figure 70. World AI-Enabled Inspection Robots Production Market Share by Application (2021-2032)

Figure 71. World AI-Enabled Inspection Robots Production Value Market Share by Application (2021-2032)

Figure 72. World AI-Enabled Inspection Robots Average Price by Application (2021-2032) & (US\$/Unit)

Figure 73. AI-Enabled Inspection Robots Industry Chain

Figure 74. AI-Enabled Inspection Robots Procurement Model

Figure 75. AI-Enabled Inspection Robots Sales Model

Figure 76. AI-Enabled Inspection Robots Sales Channels, Direct Sales, and Distribution

Figure 77. Methodology

Figure 78. Research Process and Data Source

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