

Global Automated and Robotic Welding Inspection System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automated and Robotic Welding Inspection System market size is expected to reach \$ 1937 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

An Automated and Robotic Welding Inspection System is an advanced industrial inspection solution that integrates robotics, sensors, machine vision, artificial intelligence, and non-destructive testing (NDT) technologies to automatically evaluate weld quality, detect defects, measure weld geometry, and ensure structural integrity in welded components without manual intervention. These systems are widely used in manufacturing, automotive, aerospace, shipbuilding, energy, and heavy machinery industries to improve inspection accuracy, enhance production efficiency, reduce human error, ensure compliance with welding standards, and enable real-time quality control in automated welding production lines.

The Automated and Robotic Welding Inspection System industry chain includes upstream suppliers of industrial cameras, laser sensors, ultrasonic transducers, X-ray tubes, robotic arms, motion controllers, AI chips, and industrial software platforms, while the midstream segment consists of system integrators and equipment manufacturers that design, assemble, calibrate, and program automated welding inspection systems combining robotics, machine vision, and NDT technologies, and the downstream segment includes automotive, aerospace, shipbuilding, oil and gas, energy, railway, and heavy machinery manufacturers that deploy these systems for real-time weld defect detection, production quality assurance, regulatory compliance, process optimization, and smart factory automation in high-precision industrial environments globally.

Current and planned Automated and Robotic Welding Inspection System projects are concentrated in the United States, Germany, China, Japan, and South Korea, where industrial automation companies and robotics manufacturers are investing in AI-powered welding inspection platforms, smart factory integration systems, and advanced non-destructive testing production lines to support rising demand from automotive, aerospace, shipbuilding, and energy industries, while ongoing projects include fully automated welding cell inspection upgrades, cloud-based remote quality monitoring systems, digital twin welding inspection platforms, and high-speed inline robotic inspection deployments designed to improve manufacturing efficiency, reduce defect rates, enhance production traceability, and strengthen global industrial quality assurance capabilities.

2025 Global Market Average Gross Profit Margin: 32%.

This report studies the global Automated and Robotic Welding Inspection System demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automated and Robotic Welding Inspection System, 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 Automated and Robotic Welding Inspection System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automated and Robotic Welding Inspection System total market, 2021-2032, (USD Million)

Global Automated and Robotic Welding Inspection System total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Automated and Robotic Welding Inspection System total market, key domestic companies, and share, (USD Million)

Global Automated and Robotic Welding Inspection System revenue by player, revenue and market share 2021-2026, (USD Million)

Global Automated and Robotic Welding Inspection System total market by Type, CAGR, 2021-2032, (USD Million)

Global Automated and Robotic Welding Inspection System total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Automated and Robotic Welding

Inspection System market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Waygate Technologies, YXLON International, Nikon Metrology, Eddyfi Technologies, Shimadzu, North Star Imaging, Zetec, FOERSTER Group, Zeiss Industrial Metrology, Sonatest, 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 Automated and Robotic Welding Inspection System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Automated and Robotic Welding Inspection System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automated and Robotic Welding Inspection System Market, Segmentation by Type:

Visual Welding Inspection (VT)

Ultrasonic Testing (UT)

Radiographic Testing (RT)

Magnetic Particle Testing (MT)

Others

Global Automated and Robotic Welding Inspection System Market, Segmentation by Deployment Mode:

Portable

Fixed

Inline Production Line Systems

Mobile Field Inspection Units

Global Automated and Robotic Welding Inspection System Market, Segmentation by System Automation Level:

Manual

Semi-Automated

Fully Automated

Global Automated and Robotic Welding Inspection System Market, Segmentation by Application:

Automotive

Aerospace

Shipbuilding

Oil & Gas

Power Generation

Others

Companies Profiled:

Waygate Technologies

YXLON International

Nikon Metrology

Eddyfi Technologies

Shimadzu

North Star Imaging

Zetec

FOERSTER Group

Zeiss Industrial Metrology

Sonatest

Bosello High Technology

Vidisco

Comet Group

Fujifilm NDT Systems

Hitachi High-Tech

SEC Co., Ltd.

SBT Ultrasonic

Optizone Technology (Shenzhen) Limited

Key Questions Answered

1. How big is the global Automated and Robotic Welding Inspection System market?
2. What is the demand of the global Automated and Robotic Welding Inspection System market?
3. What is the year over year growth of the global Automated and Robotic Welding Inspection System market?
4. What is the total value of the global Automated and Robotic Welding Inspection System market?
5. Who are the Major Players in the global Automated and Robotic Welding Inspection System market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Automated and Robotic Welding Inspection System Introduction
- 1.2 World Automated and Robotic Welding Inspection System Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World Automated and Robotic Welding Inspection System Total Market by Region (by Headquarter Location)
 - 1.3.1 World Automated and Robotic Welding Inspection System Market Size by Region (2021-2032), (by Headquarter Location)
 - 1.3.2 United States Based Company Automated and Robotic Welding Inspection System Revenue (2021-2032)
 - 1.3.3 China Based Company Automated and Robotic Welding Inspection System Revenue (2021-2032)
 - 1.3.4 Europe Based Company Automated and Robotic Welding Inspection System Revenue (2021-2032)
 - 1.3.5 Japan Based Company Automated and Robotic Welding Inspection System Revenue (2021-2032)
 - 1.3.6 South Korea Based Company Automated and Robotic Welding Inspection System Revenue (2021-2032)
 - 1.3.7 ASEAN Based Company Automated and Robotic Welding Inspection System Revenue (2021-2032)
 - 1.3.8 India Based Company Automated and Robotic Welding Inspection System Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Automated and Robotic Welding Inspection System Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Automated and Robotic Welding Inspection System Consumption Value (2021-2032)
- 2.2 World Automated and Robotic Welding Inspection System Consumption Value by Region
 - 2.2.1 World Automated and Robotic Welding Inspection System Consumption Value by Region (2021-2026)
 - 2.2.2 World Automated and Robotic Welding Inspection System Consumption Value

Forecast by Region (2027-2032)

2.3 United States Automated and Robotic Welding Inspection System Consumption Value (2021-2032)

2.4 China Automated and Robotic Welding Inspection System Consumption Value (2021-2032)

2.5 Europe Automated and Robotic Welding Inspection System Consumption Value (2021-2032)

2.6 Japan Automated and Robotic Welding Inspection System Consumption Value (2021-2032)

2.7 South Korea Automated and Robotic Welding Inspection System Consumption Value (2021-2032)

2.8 ASEAN Automated and Robotic Welding Inspection System Consumption Value (2021-2032)

2.9 India Automated and Robotic Welding Inspection System Consumption Value (2021-2032)

3 WORLD AUTOMATED AND ROBOTIC WELDING INSPECTION SYSTEM COMPANIES COMPETITIVE ANALYSIS

3.1 World Automated and Robotic Welding Inspection System Revenue by Player (2021-2026)

3.2 Industry Rank and Concentration Rate (CR)

3.2.1 Global Automated and Robotic Welding Inspection System Industry Rank of Major Players

3.2.2 Global Concentration Ratios (CR4) for Automated and Robotic Welding Inspection System in 2025

3.2.3 Global Concentration Ratios (CR8) for Automated and Robotic Welding Inspection System in 2025

3.3 Automated and Robotic Welding Inspection System Company Evaluation Quadrant

3.4 Automated and Robotic Welding Inspection System Market: Overall Company Footprint Analysis

3.4.1 Automated and Robotic Welding Inspection System Market: Region Footprint

3.4.2 Automated and Robotic Welding Inspection System Market: Company Product Type Footprint

3.4.3 Automated and Robotic Welding Inspection System Market: Company Product Application Footprint

3.5 Competitive Environment

3.5.1 Historical Structure of the Industry

3.5.2 Barriers of Market Entry

3.5.3 Factors of Competition

3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

4.1 United States VS China: Automated and Robotic Welding Inspection System Revenue Comparison (by Headquarter Location)

4.1.1 United States VS China: Automated and Robotic Welding Inspection System Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)

4.1.2 United States VS China: Automated and Robotic Welding Inspection System Revenue Market Share Comparison (2021 & 2025 & 2032)

4.2 United States Based Companies VS China Based Companies: Automated and Robotic Welding Inspection System Consumption Value Comparison

4.2.1 United States VS China: Automated and Robotic Welding Inspection System Consumption Value Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Automated and Robotic Welding Inspection System Consumption Value Market Share Comparison (2021 & 2025 & 2032)

4.3 United States Based Automated and Robotic Welding Inspection System Companies and Market Share, 2021-2026

4.3.1 United States Based Automated and Robotic Welding Inspection System Companies, Headquarters (States, Country)

4.3.2 United States Based Companies Automated and Robotic Welding Inspection System Revenue, (2021-2026)

4.4 China Based Companies Automated and Robotic Welding Inspection System Revenue and Market Share, 2021-2026

4.4.1 China Based Automated and Robotic Welding Inspection System Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies Automated and Robotic Welding Inspection System Revenue, (2021-2026)

4.5 Rest of World Based Automated and Robotic Welding Inspection System Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Automated and Robotic Welding Inspection System Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Automated and Robotic Welding Inspection System Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Automated and Robotic Welding Inspection System Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Visual Welding Inspection (VT)

5.2.2 Ultrasonic Testing (UT)

5.2.3 Radiographic Testing (RT)

5.2.4 Magnetic Particle Testing (MT)

5.2.5 Others

5.3 Market Segment by Type

5.3.1 World Automated and Robotic Welding Inspection System Market Size by Type (2021-2026)

5.3.2 World Automated and Robotic Welding Inspection System Market Size by Type (2027-2032)

5.3.3 World Automated and Robotic Welding Inspection System Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY DEPLOYMENT MODE

6.1 World Automated and Robotic Welding Inspection System Market Size Overview by Deployment Mode: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Deployment Mode

6.2.1 Portable

6.2.2 Fixed

6.2.3 Inline Production Line Systems

6.2.4 Mobile Field Inspection Units

6.3 Market Segment by Deployment Mode

6.3.1 World Automated and Robotic Welding Inspection System Market Size by Deployment Mode (2021-2026)

6.3.2 World Automated and Robotic Welding Inspection System Market Size by Deployment Mode (2027-2032)

6.3.3 World Automated and Robotic Welding Inspection System Market Size Market Share by Deployment Mode (2027-2032)

7 MARKET ANALYSIS BY SYSTEM AUTOMATION LEVEL

7.1 World Automated and Robotic Welding Inspection System Market Size Overview by System Automation Level: 2021 VS 2025 VS 2032

7.2 Segment Introduction by System Automation Level

7.2.1 Manual

7.2.2 Semi-Automated

7.2.3 Fully Automated

7.3 Market Segment by System Automation Level

7.3.1 World Automated and Robotic Welding Inspection System Market Size by System Automation Level (2021-2026)

7.3.2 World Automated and Robotic Welding Inspection System Market Size by System Automation Level (2027-2032)

7.3.3 World Automated and Robotic Welding Inspection System Market Size Market Share by System Automation Level (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Automated and Robotic Welding Inspection System Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automotive

8.2.2 Aerospace

8.2.3 Shipbuilding

8.2.4 Oil & Gas

8.2.5 Power Generation

8.2.6 Others

8.3 Market Segment by Application

8.3.1 World Automated and Robotic Welding Inspection System Market Size by Application (2021-2026)

8.3.2 World Automated and Robotic Welding Inspection System Market Size by Application (2027-2032)

8.3.3 World Automated and Robotic Welding Inspection System Market Size Market Share by Application (2021-2032)

9 COMPANY PROFILES

9.1 Waygate Technologies

9.1.1 Waygate Technologies Details

9.1.2 Waygate Technologies Major Business

9.1.3 Waygate Technologies Automated and Robotic Welding Inspection System Product and Services

9.1.4 Waygate Technologies Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026)

9.1.5 Waygate Technologies Recent Developments/Updates

9.1.6 Waygate Technologies Competitive Strengths & Weaknesses

9.2 YXLON International

9.2.1 YXLON International Details

9.2.2 YXLON International Major Business

9.2.3 YXLON International Automated and Robotic Welding Inspection System Product and Services

9.2.4 YXLON International Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026)

9.2.5 YXLON International Recent Developments/Updates

9.2.6 YXLON International Competitive Strengths & Weaknesses

9.3 Nikon Metrology

9.3.1 Nikon Metrology Details

9.3.2 Nikon Metrology Major Business

9.3.3 Nikon Metrology Automated and Robotic Welding Inspection System Product and Services

9.3.4 Nikon Metrology Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026)

9.3.5 Nikon Metrology Recent Developments/Updates

9.3.6 Nikon Metrology Competitive Strengths & Weaknesses

9.4 Eddyfi Technologies

9.4.1 Eddyfi Technologies Details

9.4.2 Eddyfi Technologies Major Business

9.4.3 Eddyfi Technologies Automated and Robotic Welding Inspection System Product and Services

9.4.4 Eddyfi Technologies Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026)

9.4.5 Eddyfi Technologies Recent Developments/Updates

9.4.6 Eddyfi Technologies Competitive Strengths & Weaknesses

9.5 Shimadzu

9.5.1 Shimadzu Details

9.5.2 Shimadzu Major Business

9.5.3 Shimadzu Automated and Robotic Welding Inspection System Product and Services

9.5.4 Shimadzu Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026)

9.5.5 Shimadzu Recent Developments/Updates

9.5.6 Shimadzu Competitive Strengths & Weaknesses

9.6 North Star Imaging

9.6.1 North Star Imaging Details

- 9.6.2 North Star Imaging Major Business
- 9.6.3 North Star Imaging Automated and Robotic Welding Inspection System Product and Services
- 9.6.4 North Star Imaging Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026)
- 9.6.5 North Star Imaging Recent Developments/Updates
- 9.6.6 North Star Imaging Competitive Strengths & Weaknesses
- 9.7 Zetec
 - 9.7.1 Zetec Details
 - 9.7.2 Zetec Major Business
 - 9.7.3 Zetec Automated and Robotic Welding Inspection System Product and Services
 - 9.7.4 Zetec Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Zetec Recent Developments/Updates
 - 9.7.6 Zetec Competitive Strengths & Weaknesses
- 9.8 FOERSTER Group
 - 9.8.1 FOERSTER Group Details
 - 9.8.2 FOERSTER Group Major Business
 - 9.8.3 FOERSTER Group Automated and Robotic Welding Inspection System Product and Services
 - 9.8.4 FOERSTER Group Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026)
 - 9.8.5 FOERSTER Group Recent Developments/Updates
 - 9.8.6 FOERSTER Group Competitive Strengths & Weaknesses
- 9.9 Zeiss Industrial Metrology
 - 9.9.1 Zeiss Industrial Metrology Details
 - 9.9.2 Zeiss Industrial Metrology Major Business
 - 9.9.3 Zeiss Industrial Metrology Automated and Robotic Welding Inspection System Product and Services
 - 9.9.4 Zeiss Industrial Metrology Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Zeiss Industrial Metrology Recent Developments/Updates
 - 9.9.6 Zeiss Industrial Metrology Competitive Strengths & Weaknesses
- 9.10 Sonatest
 - 9.10.1 Sonatest Details
 - 9.10.2 Sonatest Major Business
 - 9.10.3 Sonatest Automated and Robotic Welding Inspection System Product and Services
 - 9.10.4 Sonatest Automated and Robotic Welding Inspection System Revenue, Gross

Margin and Market Share (2021-2026)

9.10.5 Sonatest Recent Developments/Updates

9.10.6 Sonatest Competitive Strengths & Weaknesses

9.11 Bosello High Technology

9.11.1 Bosello High Technology Details

9.11.2 Bosello High Technology Major Business

9.11.3 Bosello High Technology Automated and Robotic Welding Inspection System Product and Services

9.11.4 Bosello High Technology Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026)

9.11.5 Bosello High Technology Recent Developments/Updates

9.11.6 Bosello High Technology Competitive Strengths & Weaknesses

9.12 Vidisco

9.12.1 Vidisco Details

9.12.2 Vidisco Major Business

9.12.3 Vidisco Automated and Robotic Welding Inspection System Product and Services

9.12.4 Vidisco Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026)

9.12.5 Vidisco Recent Developments/Updates

9.12.6 Vidisco Competitive Strengths & Weaknesses

9.13 Comet Group

9.13.1 Comet Group Details

9.13.2 Comet Group Major Business

9.13.3 Comet Group Automated and Robotic Welding Inspection System Product and Services

9.13.4 Comet Group Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026)

9.13.5 Comet Group Recent Developments/Updates

9.13.6 Comet Group Competitive Strengths & Weaknesses

9.14 Fujifilm NDT Systems

9.14.1 Fujifilm NDT Systems Details

9.14.2 Fujifilm NDT Systems Major Business

9.14.3 Fujifilm NDT Systems Automated and Robotic Welding Inspection System Product and Services

9.14.4 Fujifilm NDT Systems Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026)

9.14.5 Fujifilm NDT Systems Recent Developments/Updates

9.14.6 Fujifilm NDT Systems Competitive Strengths & Weaknesses

9.15 Hitachi High-Tech

9.15.1 Hitachi High-Tech Details

9.15.2 Hitachi High-Tech Major Business

9.15.3 Hitachi High-Tech Automated and Robotic Welding Inspection System Product and Services

9.15.4 Hitachi High-Tech Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026)

9.15.5 Hitachi High-Tech Recent Developments/Updates

9.15.6 Hitachi High-Tech Competitive Strengths & Weaknesses

9.16 SEC Co., Ltd.

9.16.1 SEC Co., Ltd. Details

9.16.2 SEC Co., Ltd. Major Business

9.16.3 SEC Co., Ltd. Automated and Robotic Welding Inspection System Product and Services

9.16.4 SEC Co., Ltd. Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026)

9.16.5 SEC Co., Ltd. Recent Developments/Updates

9.16.6 SEC Co., Ltd. Competitive Strengths & Weaknesses

9.17 SBT Ultrasonic

9.17.1 SBT Ultrasonic Details

9.17.2 SBT Ultrasonic Major Business

9.17.3 SBT Ultrasonic Automated and Robotic Welding Inspection System Product and Services

9.17.4 SBT Ultrasonic Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026)

9.17.5 SBT Ultrasonic Recent Developments/Updates

9.17.6 SBT Ultrasonic Competitive Strengths & Weaknesses

9.18 Optizone Technology (Shenzhen) Limited

9.18.1 Optizone Technology (Shenzhen) Limited Details

9.18.2 Optizone Technology (Shenzhen) Limited Major Business

9.18.3 Optizone Technology (Shenzhen) Limited Automated and Robotic Welding Inspection System Product and Services

9.18.4 Optizone Technology (Shenzhen) Limited Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026)

9.18.5 Optizone Technology (Shenzhen) Limited Recent Developments/Updates

9.18.6 Optizone Technology (Shenzhen) Limited Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Automated and Robotic Welding Inspection System Industry Chain
- 10.2 Automated and Robotic Welding Inspection System Upstream Analysis
- 10.3 Automated and Robotic Welding Inspection System Midstream Analysis
- 10.4 Automated and Robotic Welding Inspection System Downstream Analysis

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 Automated and Robotic Welding Inspection System Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World Automated and Robotic Welding Inspection System Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World Automated and Robotic Welding Inspection System Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World Automated and Robotic Welding Inspection System Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World Automated and Robotic Welding Inspection System Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World Automated and Robotic Welding Inspection System Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World Automated and Robotic Welding Inspection System Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World Automated and Robotic Welding Inspection System Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World Automated and Robotic Welding Inspection System Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key Automated and Robotic Welding Inspection System Players in 2025

Table 12. World Automated and Robotic Welding Inspection System Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global Automated and Robotic Welding Inspection System Company Evaluation Quadrant

Table 14. Head Office of Key Automated and Robotic Welding Inspection System Players

Table 15. Automated and Robotic Welding Inspection System Market: Company Product Type Footprint

Table 16. Automated and Robotic Welding Inspection System Market: Company Product Application Footprint

Table 17. Automated and Robotic Welding Inspection System Mergers & Acquisitions Activity

Table 18. United States VS China Automated and Robotic Welding Inspection System Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China Automated and Robotic Welding Inspection System Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based Automated and Robotic Welding Inspection System Companies, Headquarters (States, Country)

Table 21. United States Based Companies Automated and Robotic Welding Inspection System Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies Automated and Robotic Welding Inspection System Revenue Market Share (2021-2026)

Table 23. China Based Automated and Robotic Welding Inspection System Companies, Headquarters (Province, Country)

Table 24. China Based Companies Automated and Robotic Welding Inspection System Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies Automated and Robotic Welding Inspection System Revenue Market Share (2021-2026)

Table 26. Rest of World Based Automated and Robotic Welding Inspection System Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies Automated and Robotic Welding Inspection System Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies Automated and Robotic Welding Inspection System Revenue Market Share (2021-2026)

Table 29. World Automated and Robotic Welding Inspection System Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World Automated and Robotic Welding Inspection System Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World Automated and Robotic Welding Inspection System Market Size by Type (2027-2032) & (USD Million)

Table 32. World Automated and Robotic Welding Inspection System Market Size by Deployment Mode, (USD Million), 2021 & 2025 & 2032

Table 33. World Automated and Robotic Welding Inspection System Market Size Value by Deployment Mode (2021-2026) & (USD Million)

Table 34. World Automated and Robotic Welding Inspection System Market Size by Deployment Mode (2027-2032) & (USD Million)

Table 35. World Automated and Robotic Welding Inspection System Market Size by System Automation Level, (USD Million), 2021 & 2025 & 2032

Table 36. World Automated and Robotic Welding Inspection System Market Size Value by System Automation Level (2021-2026) & (USD Million)

Table 37. World Automated and Robotic Welding Inspection System Market Size by System Automation Level (2027-2032) & (USD Million)

Table 38. World Automated and Robotic Welding Inspection System Market Size by

Application, (USD Million), 2021 & 2025 & 2032

Table 39. World Automated and Robotic Welding Inspection System Market Size by Application (2021-2026) & (USD Million)

Table 40. World Automated and Robotic Welding Inspection System Market Size by Application (2027-2032) & (USD Million)

Table 41. Waygate Technologies Basic Information, Manufacturing Base and Competitors

Table 42. Waygate Technologies Major Business

Table 43. Waygate Technologies Automated and Robotic Welding Inspection System Product and Services

Table 44. Waygate Technologies Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 45. Waygate Technologies Recent Developments/Updates

Table 46. Waygate Technologies Competitive Strengths & Weaknesses

Table 47. YXLON International Basic Information, Manufacturing Base and Competitors

Table 48. YXLON International Major Business

Table 49. YXLON International Automated and Robotic Welding Inspection System Product and Services

Table 50. YXLON International Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 51. YXLON International Recent Developments/Updates

Table 52. YXLON International Competitive Strengths & Weaknesses

Table 53. Nikon Metrology Basic Information, Manufacturing Base and Competitors

Table 54. Nikon Metrology Major Business

Table 55. Nikon Metrology Automated and Robotic Welding Inspection System Product and Services

Table 56. Nikon Metrology Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 57. Nikon Metrology Recent Developments/Updates

Table 58. Nikon Metrology Competitive Strengths & Weaknesses

Table 59. Eddyfi Technologies Basic Information, Manufacturing Base and Competitors

Table 60. Eddyfi Technologies Major Business

Table 61. Eddyfi Technologies Automated and Robotic Welding Inspection System Product and Services

Table 62. Eddyfi Technologies Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 63. Eddyfi Technologies Recent Developments/Updates

Table 64. Eddyfi Technologies Competitive Strengths & Weaknesses

Table 65. Shimadzu Basic Information, Manufacturing Base and Competitors

Table 66. Shimadzu Major Business

Table 67. Shimadzu Automated and Robotic Welding Inspection System Product and Services

Table 68. Shimadzu Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 69. Shimadzu Recent Developments/Updates

Table 70. Shimadzu Competitive Strengths & Weaknesses

Table 71. North Star Imaging Basic Information, Manufacturing Base and Competitors

Table 72. North Star Imaging Major Business

Table 73. North Star Imaging Automated and Robotic Welding Inspection System Product and Services

Table 74. North Star Imaging Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 75. North Star Imaging Recent Developments/Updates

Table 76. North Star Imaging Competitive Strengths & Weaknesses

Table 77. Zetec Basic Information, Manufacturing Base and Competitors

Table 78. Zetec Major Business

Table 79. Zetec Automated and Robotic Welding Inspection System Product and Services

Table 80. Zetec Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 81. Zetec Recent Developments/Updates

Table 82. Zetec Competitive Strengths & Weaknesses

Table 83. FOERSTER Group Basic Information, Manufacturing Base and Competitors

Table 84. FOERSTER Group Major Business

Table 85. FOERSTER Group Automated and Robotic Welding Inspection System Product and Services

Table 86. FOERSTER Group Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 87. FOERSTER Group Recent Developments/Updates

Table 88. FOERSTER Group Competitive Strengths & Weaknesses

Table 89. Zeiss Industrial Metrology Basic Information, Manufacturing Base and Competitors

Table 90. Zeiss Industrial Metrology Major Business

Table 91. Zeiss Industrial Metrology Automated and Robotic Welding Inspection System Product and Services

Table 92. Zeiss Industrial Metrology Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 93. Zeiss Industrial Metrology Recent Developments/Updates

Table 94. Zeiss Industrial Metrology Competitive Strengths & Weaknesses
Table 95. Sonatest Basic Information, Manufacturing Base and Competitors
Table 96. Sonatest Major Business
Table 97. Sonatest Automated and Robotic Welding Inspection System Product and Services
Table 98. Sonatest Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 99. Sonatest Recent Developments/Updates
Table 100. Sonatest Competitive Strengths & Weaknesses
Table 101. Bosello High Technology Basic Information, Manufacturing Base and Competitors
Table 102. Bosello High Technology Major Business
Table 103. Bosello High Technology Automated and Robotic Welding Inspection System Product and Services
Table 104. Bosello High Technology Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 105. Bosello High Technology Recent Developments/Updates
Table 106. Bosello High Technology Competitive Strengths & Weaknesses
Table 107. Vidisco Basic Information, Manufacturing Base and Competitors
Table 108. Vidisco Major Business
Table 109. Vidisco Automated and Robotic Welding Inspection System Product and Services
Table 110. Vidisco Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 111. Vidisco Recent Developments/Updates
Table 112. Vidisco Competitive Strengths & Weaknesses
Table 113. Comet Group Basic Information, Manufacturing Base and Competitors
Table 114. Comet Group Major Business
Table 115. Comet Group Automated and Robotic Welding Inspection System Product and Services
Table 116. Comet Group Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 117. Comet Group Recent Developments/Updates
Table 118. Comet Group Competitive Strengths & Weaknesses
Table 119. Fujifilm NDT Systems Basic Information, Manufacturing Base and Competitors
Table 120. Fujifilm NDT Systems Major Business
Table 121. Fujifilm NDT Systems Automated and Robotic Welding Inspection System Product and Services

Table 122. Fujifilm NDT Systems Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 123. Fujifilm NDT Systems Recent Developments/Updates

Table 124. Fujifilm NDT Systems Competitive Strengths & Weaknesses

Table 125. Hitachi High-Tech Basic Information, Manufacturing Base and Competitors

Table 126. Hitachi High-Tech Major Business

Table 127. Hitachi High-Tech Automated and Robotic Welding Inspection System Product and Services

Table 128. Hitachi High-Tech Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 129. Hitachi High-Tech Recent Developments/Updates

Table 130. Hitachi High-Tech Competitive Strengths & Weaknesses

Table 131. SEC Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 132. SEC Co., Ltd. Major Business

Table 133. SEC Co., Ltd. Automated and Robotic Welding Inspection System Product and Services

Table 134. SEC Co., Ltd. Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 135. SEC Co., Ltd. Recent Developments/Updates

Table 136. SEC Co., Ltd. Competitive Strengths & Weaknesses

Table 137. SBT Ultrasonic Basic Information, Manufacturing Base and Competitors

Table 138. SBT Ultrasonic Major Business

Table 139. SBT Ultrasonic Automated and Robotic Welding Inspection System Product and Services

Table 140. SBT Ultrasonic Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 141. SBT Ultrasonic Recent Developments/Updates

Table 142. SBT Ultrasonic Competitive Strengths & Weaknesses

Table 143. Optizone Technology (Shenzhen) Limited Basic Information, Manufacturing Base and Competitors

Table 144. Optizone Technology (Shenzhen) Limited Major Business

Table 145. Optizone Technology (Shenzhen) Limited Automated and Robotic Welding Inspection System Product and Services

Table 146. Optizone Technology (Shenzhen) Limited Automated and Robotic Welding Inspection System Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 147. Optizone Technology (Shenzhen) Limited Recent Developments/Updates

Table 148. Optizone Technology (Shenzhen) Limited Competitive Strengths & Weaknesses

Table 149. Global Key Players of Automated and Robotic Welding Inspection System Upstream (Raw Materials)

Table 150. Global Automated and Robotic Welding Inspection System Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Automated and Robotic Welding Inspection System Picture

Figure 2. World Automated and Robotic Welding Inspection System Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Automated and Robotic Welding Inspection System Total Revenue (2021-2032) & (USD Million)

Figure 4. World Automated and Robotic Welding Inspection System Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World Automated and Robotic Welding Inspection System Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company Automated and Robotic Welding Inspection System Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company Automated and Robotic Welding Inspection System Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company Automated and Robotic Welding Inspection System Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company Automated and Robotic Welding Inspection System Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company Automated and Robotic Welding Inspection System Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company Automated and Robotic Welding Inspection System Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company Automated and Robotic Welding Inspection System Revenue (2021-2032) & (USD Million)

Figure 13. Automated and Robotic Welding Inspection System Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Automated and Robotic Welding Inspection System Consumption Value (2021-2032) & (USD Million)

Figure 16. World Automated and Robotic Welding Inspection System Consumption Value Market Share by Region (2021-2032)

Figure 17. United States Automated and Robotic Welding Inspection System Consumption Value (2021-2032) & (USD Million)

Figure 18. China Automated and Robotic Welding Inspection System Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe Automated and Robotic Welding Inspection System Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan Automated and Robotic Welding Inspection System Consumption Value (2021-2032) & (USD Million)

Figure 21. South Korea Automated and Robotic Welding Inspection System Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN Automated and Robotic Welding Inspection System Consumption Value (2021-2032) & (USD Million)

Figure 23. India Automated and Robotic Welding Inspection System Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of Automated and Robotic Welding Inspection System by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Automated and Robotic Welding Inspection System Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Automated and Robotic Welding Inspection System Markets in 2025

Figure 27. United States VS China: Automated and Robotic Welding Inspection System Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Automated and Robotic Welding Inspection System Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World Automated and Robotic Welding Inspection System Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World Automated and Robotic Welding Inspection System Market Size Market Share by Type in 2025

Figure 31. Visual Welding Inspection (VT)

Figure 32. Ultrasonic Testing (UT)

Figure 33. Radiographic Testing (RT)

Figure 34. Magnetic Particle Testing (MT)

Figure 35. Others

Figure 36. World Automated and Robotic Welding Inspection System Market Size Market Share by Type (2021-2032)

Figure 37. World Automated and Robotic Welding Inspection System Market Size by Deployment Mode, (USD Million), 2021 & 2025 & 2032

Figure 38. World Automated and Robotic Welding Inspection System Market Size Market Share by Deployment Mode in 2025

Figure 39. Portable

Figure 40. Fixed

Figure 41. Inline Production Line Systems

Figure 42. Mobile Field Inspection Units

Figure 43. World Automated and Robotic Welding Inspection System Market Size Market Share by Deployment Mode (2021-2032)

Figure 44. World Automated and Robotic Welding Inspection System Market Size by System Automation Level, (USD Million), 2021 & 2025 & 2032

Figure 45. World Automated and Robotic Welding Inspection System Market Size Market Share by System Automation Level in 2025

Figure 46. Manual

Figure 47. Semi-Automated

Figure 48. Fully Automated

Figure 49. World Automated and Robotic Welding Inspection System Market Size Market Share by System Automation Level (2021-2032)

Figure 50. World Automated and Robotic Welding Inspection System Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 51. World Automated and Robotic Welding Inspection System Market Size Market Share by Application in 2025

Figure 52. Automotive

Figure 53. Aerospace

Figure 54. Shipbuilding

Figure 55. Oil & Gas

Figure 56. Power Generation

Figure 57. Others

Figure 58. World Automated and Robotic Welding Inspection System Market Size Market Share by Application (2021-2032)

Figure 59. Automated and Robotic Welding Inspection System Industrial Chain

Figure 60. Methodology

Figure 61. Research Process and Data Source

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