

Global Automated and Robotic Welding Inspection System Market Growth (Status and Outlook) 2026-2032

<https://marketpublishers.com/r/G5388F22F628EN.html>

Date: July 2026

Pages: 137

Price: US\$ 3,660.00 (Single User License)

ID: G5388F22F628EN

Abstracts

The global Automated and Robotic Welding Inspection System market size is predicted to grow from US\$ 1229 million in 2025 to US\$ 1882 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 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%.

United States market for Automated and Robotic Welding Inspection System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Automated and Robotic Welding Inspection System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Automated and Robotic Welding Inspection System is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Automated and Robotic Welding Inspection System players cover Waygate Technologies, YXLON International, Nikon Metrology, Eddyfi Technologies, Shimadzu, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the "Automated and Robotic Welding Inspection System Industry Forecast" looks at past sales and reviews total world Automated and Robotic Welding Inspection System sales in 2025, providing a comprehensive analysis by region and market sector of projected Automated and Robotic Welding Inspection System sales for 2026 through 2032. With Automated and Robotic Welding Inspection System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automated and Robotic Welding Inspection System industry.

This Insight Report provides a comprehensive analysis of the global Automated and Robotic Welding Inspection System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Automated and Robotic Welding Inspection System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automated and Robotic Welding Inspection System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automated and Robotic Welding Inspection System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Automated and Robotic Welding Inspection System.

This report presents a comprehensive overview, market shares, and growth opportunities of Automated and Robotic Welding Inspection System market by product type, application, key players and key regions and countries.

Segmentation by Type:

Visual Welding Inspection (VT)

Ultrasonic Testing (UT)

Radiographic Testing (RT)

Magnetic Particle Testing (MT)

Others

Segmentation by Deployment Mode:

Portable

Fixed

Inline Production Line Systems

Mobile Field Inspection Units

Segmentation by System Automation Level:

Manual

Semi-Automated

Fully Automated

Segmentation by Application:

Automotive

Aerospace

Shipbuilding

Oil & Gas

Power Generation

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

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

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