

Global Automated and Robotic Welding Inspection System Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Automated and Robotic Welding Inspection System market size was valued at US\$ 1293 million in 2025 and is forecast to a readjusted size of US\$ 1937 million by 2032 with a CAGR of 6.1% during review period.

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 is a detailed and comprehensive analysis for global Automated and Robotic Welding Inspection System market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Automated and Robotic Welding Inspection System market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Automated and Robotic Welding Inspection System market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Automated and Robotic Welding Inspection System market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Automated and Robotic Welding Inspection System market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automated and Robotic Welding Inspection System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 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.

Market segmentation

Automated and Robotic Welding Inspection System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Visual Welding Inspection (VT)

Ultrasonic Testing (UT)

Radiographic Testing (RT)

Magnetic Particle Testing (MT)

Others

Market segment by Deployment Mode

Portable

Fixed

Inline Production Line Systems

Mobile Field Inspection Units

Market segment by System Automation Level

Manual

Semi-Automated

Fully Automated

Market segment by Application

Automotive

Aerospace

Shipbuilding

Oil & Gas

Power Generation

Others

Market segment by players, this report covers

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

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Automated and Robotic Welding Inspection System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Automated and Robotic Welding Inspection System, with revenue, gross margin, and global market share of Automated and Robotic Welding Inspection System from 2021 to 2026.

Chapter 3, the Automated and Robotic Welding Inspection System competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Automated and Robotic Welding Inspection System market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Automated and Robotic Welding Inspection System.

Chapter 13, to describe Automated and Robotic Welding Inspection System research findings and conclusion.

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