

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

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Abstracts

The global Welding Inspection System market size is expected to reach \$ 7145 million by 2032, rising at a market growth of 8.6% CAGR during the forecast period (2026-2032).

In 2025, global Welding Inspection System production reached approximately 97,729 Units. The average price is approximately \$40,000. Welding Inspection Systems are industrial inspection systems used to inspect, evaluate, and determine the quality of welds during and after the welding process. Their core function is to achieve defect identification, quality control, process monitoring, and traceability management during the welding manufacturing process, ensuring that the welded structure meets design specifications and safety standards.

Gross Profit Margin Levels

The gross profit margin of welding inspection systems cannot be simply viewed as a uniform value because the cost structures of vision/AI software-based, AUT/PAUT/UT, and X-ray/CT systems differ significantly. Based on publicly available product structures, the overall industry gross profit margin is roughly between 45% and 62%. Among these, vision/3D weld inspection systems typically have higher gross profit margins, commonly ranging from 55% to 70%, due to the high proportion of software, algorithms, statistical analysis, defect classification, and traceability functions. Ultrasonic/AUT/phased array systems typically have gross profit margins between 48% and 60%. X-ray/CT/digital X-ray systems, due to higher BOM costs for detectors, radiation sources, shielding, safety, and mechanical systems, often have gross profit margins closer to 40% to 55%.

Industry Drivers

The core drivers of the welding inspection system industry are: First, the continuous improvement of safety regulations and quality traceability requirements, especially in high-reliability fields such as automotive, aerospace, oil and gas, rail transportation, and pressure equipment; second, automation and AI, with manufacturing companies increasingly looking to shift from spot checks to 100% online inspection and directly feed the inspection results back to the welding process; third, the rapid growth of power batteries, laser welding, body-in-white, and lightweight materials, driving up the demand for high-speed, high-resolution, and quantifiable weld inspection; fourth, rising defect costs, with companies seeking to reduce rework, scrap, and recalls; and fifth, changes in the labor structure, with a shortage of skilled welding inspectors, driving the standardization, visualization, automatic grading, and remote data management systems to accelerate the replacement of manual experience-based judgment.

This report studies the global Welding Inspection System production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Welding Inspection System total production and demand, 2021-2032, (K Units)

Global Welding Inspection System total production value, 2021-2032, (USD Million)

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

Global Welding Inspection System consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Welding Inspection System domestic production, consumption, key domestic manufacturers and share

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

Global Welding Inspection System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Welding Inspection System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Welding Inspection System 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 Waygate Technologies (USA), Evident (Japan), Eddyfi Technologies (Canada), ABB Robotics (Switzerland), Xiris Automation (Canada), SmartRay (Germany), VITRONIC (Germany), Precitec (Germany), Zetec (USA), Sonatest (UK), 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 Welding Inspection System 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 Welding Inspection System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Welding Inspection System Market, Segmentation by Type:

Ultrasonic Welding Inspection System

Radiographic Welding Inspection System

Others

Global Welding Inspection System Market, Segmentation by Inspection Accuracy:

Micrometer-Level High-Precision Inspection System: Inspection Accuracy ?
50?m

Submillimeter-Level Medium-Precision Inspection System: Inspection Accuracy
50?m-1mm

Millimeter-Level Conventional Precision Inspection System: Inspection Accuracy
? 1mm

Global Welding Inspection System Market, Segmentation by Maximum Weld Thickness
Inspection:

Ultra-Thin Component Inspection System: Inspectable Thickness ? 1mm

Medium-Thin Component Inspection System: Inspectable Thickness 1-20mm

Medium-Thick Component Inspection System: Inspectable Thickness
20-100mm

Heavy Component Inspection System: Inspectable Thickness ? 100mm

Global Welding Inspection System Market, Segmentation by Application:

Automobile Manufacturing Industry

Oil and Gas Industry

Aerospace and Defense Industry

Others

Companies Profiled:

Waygate Technologies (USA)

Evident (Japan)

Eddyfi Technologies (Canada)

ABB Robotics (Switzerland)

Xiris Automation (Canada)

SmartRay (Germany)

VITRONIC (Germany)

Precitec (Germany)

Zetec (USA)

Sonatest (UK)

SIUI (China)

Mitech (China)

Fujifilm NDT Systems (Japan)

Comet Yxlon (Germany)

Dothing Tech (China)

NDT Engineering & Aerospace Korea (South Korea)

Monitech (South Korea)

OKOndt Group (UK)

MERMEC (Italy)

JME Advanced Inspection Systems (UK)

D?RR NDT (Germany)

Nikon Metrology (Japan)

Cognex (USA)

Keyence (Japan)

SICK (Germany)

Key Questions Answered:

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

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