

Global NDT-Based Welding Inspection System Market Growth (Status and Outlook) 2026-2032

<https://marketpublishers.com/r/GAEAE8A29F6AEN.html>

Date: July 2026

Pages: 121

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

ID: GAEAE8A29F6AEN

Abstracts

The global NDT-Based Welding Inspection System market size is predicted to grow from US\$ 1493 million in 2025 to US\$ 2367 million in 2032; it is expected to grow at a CAGR of 7.1% from 2026 to 2032.

NDT-Based Welding Inspection System refers to integrated hardware and software solutions that utilize Non-Destructive Testing (NDT) technologies to evaluate weld quality, detect internal and surface defects, and verify structural integrity without damaging the inspected component. These systems combine inspection instruments, sensors, imaging technologies, automation equipment, and data analysis software to perform real-time or post-process weld evaluation in industrial environments such as construction, oil and gas, shipbuilding, power generation, and manufacturing.

The NDT-Based Welding Inspection System industry chain includes upstream suppliers of ultrasonic sensors, radiographic sources, X-ray tubes, detectors, magnetic coils, imaging chips, AI processors, calibration equipment, and industrial software platforms, midstream manufacturers and integrators developing NDT inspection devices, robotic inspection systems, AI-based defect recognition software, and automated welding inspection platforms, and downstream users including oil and gas companies, EPC contractors, construction firms, shipbuilding industries, power generation plants, aerospace manufacturers, and industrial fabrication companies that deploy these systems to ensure weld quality, structural safety, regulatory compliance, defect detection accuracy, and operational reliability across critical infrastructure and manufacturing applications worldwide.

Current and planned projects in the NDT-Based Welding Inspection System market include expansion of automated ultrasonic and radiographic inspection system

manufacturing facilities in North America, Europe, and Asia-Pacific, development of AI-powered weld defect detection platforms for real-time quality assurance, deployment of robotic inline welding inspection systems in automotive and pipeline industries, establishment of digital inspection data cloud platforms for EPC contractors, investment in drone-based and remote inspection technologies for offshore and hazardous environments, integration of smart factory welding inspection systems, and government-supported infrastructure safety initiatives requiring advanced NDT systems for pipelines, bridges, power plants, and large-scale industrial construction projects globally.

2025 Global Market Average Gross Profit Margin: 37%.

United States market for NDT-Based 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 NDT-Based 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 NDT-Based 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 NDT-Based Welding Inspection System players cover Waygate Technologies, Evident Scientific, Eddyfi Technologies, Nikon Metrology, Zetec, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the "NDT-Based Welding Inspection System Industry Forecast" looks at past sales and reviews total world NDT-Based Welding Inspection System sales in 2025, providing a comprehensive analysis by region and market sector of projected NDT-Based Welding Inspection System sales for 2026 through 2032. With NDT-Based 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 NDT-Based Welding Inspection System industry.

This Insight Report provides a comprehensive analysis of the global NDT-Based 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 NDT-Based 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 NDT-Based Welding Inspection System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for NDT-Based 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 NDT-Based Welding Inspection System.

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

Segmentation by Type:

Ultrasonic Testing (UT) Systems

Radiographic Testing (RT) Systems

Magnetic Particle Inspection (MPI) Systems

Others

Segmentation by System Automation Level:

Manual

Semi-Automated

Fully Automated

Segmentation by Deployment Mode:

Portable NDT Inspection Systems

Fixed Industrial Inspection Systems

Inline Production Line Systems

Mobile Field Inspection Units

Segmentation by Application:

Oil & Gas Welding Inspection

Construction & Infrastructure Inspection

Power Plant Welding Inspection

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

Evident Scientific

Eddyfi Technologies

Nikon Metrology

Zetec

Shimadzu

YXLON International

Sonatest

FOERSTER Group

Bosello High Technology

Vidisco

North Star Imaging

Comet Group

Varex Imaging

SBT Ultrasonic

Optizone Technology (Shenzhen) Limited

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