

# **Ultrasonic Testing Market Size, Share & Trends Analysis Report By Type (Phased Array Ultrasonic Testing, Time-of-Flight Diffraction), By Equipment, By Services, By Application, By End Use Industry, By Region, And Segment Forecasts, 2025 - 2030**

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## **Abstracts**

This report can be delivered to the clients within 3 Business Days

### **Ultrasonic Testing Market Size & Trends**

The global ultrasonic testing market size was estimated at USD 3.36 billion in 2024 and is projected to grow at a CAGR of 7.5% from 2025 to 2030. The growth can be attributed to the government regulations mandating Non-Destructive Testing (NDT), including Ultrasonic Testing (UT).

The growth can be attributed to the government regulations mandating Non-Destructive Testing (NDT), including Ultrasonic Testing (UT). The U.S. Nuclear Regulatory Commission (NRC) enforces strict guidelines requiring regular ultrasonic testing inspections of reactor components to identify potential cracks or weaknesses that lead to catastrophic accidents. For instance, ultrasonic testing is used to inspect pressure vessels and piping systems in nuclear plants to prevent radioactive leaks.

Similarly, in the oil and gas sector, regulations from agencies like the U.S. Pipeline and Hazardous Materials Safety Administration (PHMSA) stipulate ultrasonic testing inspections during pipeline construction and maintenance to ensure integrity and prevent leaks or explosions. These regulatory requirements create a robust demand for ultrasonic testing equipment and qualified personnel, driving market expansion.

Advancements in ultrasonic testing technology, such as phased array ultrasonic testing (PAUT) and time-of-flight diffraction (TOFD), are transforming the market by offering higher precision, faster inspection times, and improved defect detection capabilities. PAUT, for instance, uses multiple ultrasonic probes to generate detailed images, enabling precise flaw characterization. The National Institute of Standards and Technology (NIST) plays a pivotal role in developing standards and methodologies for these advanced ultrasonic testing techniques, ensuring their reliability and accuracy.

The integration of automation and robotics in ultrasonic testing systems further enhances efficiency, reducing inspection times and operational costs. For example, automated ultrasonic testing systems are increasingly used in aerospace to inspect complex composite materials, minimizing human error. These technological innovations make ultrasonic testing more attractive to industries, contributing to market growth. The ongoing research and development supported by government agencies like NIST are expected to drive further advancements, sustaining this trend.

The adoption of continuous monitoring techniques using ultrasonic testing is a significant trend, particularly in industries like manufacturing, energy, and transportation. Continuous ultrasonic testing monitoring enables real-time detection of developing fractures, voids, and other flaws, preventing unexpected equipment failures and reducing downtime for repairs. This approach enhances production efficiency and cost savings, making it highly desirable.

The U.S. Department of Energy (DOE) emphasizes the importance of NDT methods, including ultrasonic testing, for ensuring the safety and reliability of energy infrastructure, such as pipelines and power generation equipment. For instance, ultrasonic testing is used to monitor pipelines for corrosion, preventing costly failures and environmental hazards. The regulatory push for regular inspections in power generation, driven by agencies like the DOE, supports the growth of continuous ultrasonic testing monitoring systems, fueling market demand.

The integration of ultrasonic testing with digital technologies, such as artificial intelligence (AI) and data analytics, is creating new opportunities for market growth. AI-driven ultrasonic testing systems can analyze inspection data more accurately and quickly, improving defect detection and reducing human error. This trend is particularly evident in industries like aerospace and defense, where precision and reliability are paramount. The Federal Aviation Administration (FAA) supports the development of advanced NDT technologies, including ultrasonic testing, to ensure the safety and performance of aircraft components. For example, AI-enhanced ultrasonic testing is

used to inspect composite materials in aircraft, detecting hidden defects with greater accuracy. Similarly, the U.S. Department of Defense (DOD) leverages advanced ultrasonic testing for defense applications, such as inspecting military equipment. The growing emphasis on predictive maintenance, supported by digital technologies, is expected to drive further adoption of ultrasonic testing, contributing to market expansion.

## Global Ultrasonic Testing Market Report Segmentation

This report forecasts revenue growth at the global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the global ultrasonic testing market report based on type, equipment, services, application, end use industry, and region.

### Type Outlook (Revenue, USD Billion, 2018 - 2030)

Phased Array Ultrasonic Testing (PAUT)

Time-of-Flight Diffraction (TOFD)

Guided Wave Testing

Immersion Testing

Others

### Equipment Outlook (Revenue, USD Billion, 2018 - 2030)

Flaw Detectors

Thickness Gauges

Transducers & Probes

Imaging Systems

Tube Inspection Systems

Others

Services Outlook (Revenue, USD Billion, 2018 - 2030)

Inspection Services

Equipment Rental Services

Calibration Services

Training Services

Application Outlook (Revenue, USD Billion, 2018 - 2030)

Weld Inspection

Corrosion Detection

Thickness Measurement

Material Characterization

Others

End Use Industry Outlook (Revenue, USD Billion, 2018 - 2030)

Oil & Gas

Manufacturing

Aerospace

Power Generation

Automotive

Others

Regional Outlook (Revenue, USD Billion, 2018 - 2030)

## North America

U.S.

Canada

Mexico

## Europe

Germany

UK

France

## Asia Pacific

China

Japan

India

South Korea

Australia

## Latin America

Brazil

## Middle East and Africa (MEA)

KSA

UAE

## South Africa

### **Companies Mentioned**

Baker Hughes Company  
MISTRAS Group  
Eddyfi Technologies  
Sonatest  
Intertek Group plc  
Olympus Corporation  
T?V Rheinland  
NDT Systems Inc  
Sonotron NDT  
Cygnus Instruments Ltd.

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