

### Non-destructive Testing (NDT) Services Market by Type (Inspection, Training, Others), Method (Radiographic, Ultrasonic, Others), Application (Flaw Detection, Others), End-use Industry (Oil & Gas, Manufacturing, Others) & Geography - Global Forecast to 2030

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### **Abstracts**

The research report titled, 'Non-destructive Testing (NDT) Services Market by Type (Inspection, Training, Others), Method (Radiographic, Ultrasonic, Others), Application (Flaw Detection, Others), End-use Industry (Oil & Gas, Manufacturing, Others) & Geography—Forecasts to 2030', provides an in-depth analysis of NDT services market across five major geographies and emphasizes on the current market trends, market sizes, market shares, recent developments, and forecasts till 2030.

The non-destructive testing (NDT) services market is projected to reach \$16.83 billion by 2030, at a CAGR of 8.9% from 2023 to 2030. The growth of the NDT services market is driven by stringent regulatory standards imposed by governments regarding public safety and product quality, the rising need to assess the structural integrity of aging infrastructure and assets, and the rising significance of advanced NDT techniques in the industrial sector. However, the high cost of NDT services restrains the growth of this market.

In addition, increasing investment in infrastructure projects in developing economies and a high inclination towards outsourcing NDT processes are expected to generate growth opportunities for the stakeholders in this market. However, the lack of a skilled workforce and the increased complexity of machines and structures are major challenges impacting market growth. Additionally, the growing use of robots for NDT



and the integration of AI technology in the NDT process are prominent trends in the NDT services market.

Based on type, the global NDT services market is segmented into inspection services, training services, calibration and evaluation services, equipment rental services, and consulting services. In 2023, the inspection services segment is expected to account for the largest share of the global NDT services market. The segment's large market share is attributed to factors such as the increasing focus of players operating in the market on strategic developments to build inspection service capabilities and the need to inspect mass quantities of products among manufacturers.

However, the calibration and evaluation services segment is expected to record the highest CAGR during the forecast period. The need to keep equipment calibrated as per industry standards and the growing need for equipment calibration to broaden service capabilities for customers is expected to drive the growth of this segment in the coming years.

Based on method, the global NDT services market is segmented into visual testing, ultrasonic testing, liquid penetrant testing, radiographic testing, electromagnetic testing, acoustic emission testing, and other methods. In 2023, the ultrasonic testing segment is expected to account for the largest share of the global NDT services market. The segment's large share is attributed to its greater accuracy compared to other non-destructive testing techniques for detecting the depth of internal faults and the thickness of parts with parallel surfaces and the growing use of ultrasonic testing for the evaluation of pipelines.

However, the electromagnetic testing segment is expected to record the highest CAGR during the forecast period. The benefits of electromagnetic testing across end-use industries, the increasing focus of NDT equipment manufacturers in the development of electromagnetic testing equipment, and the growing use of various electromagnetic tests for testing the integrity of aircraft and aircraft parts are expected to drive the growth of this segment in the coming years.

Based on application, the global NDT services market is segmented into flaw detection, dimensional measurement, chemical composition determination, stress and structure analysis, and physical properties estimation. In 2023, the flaw detection segment is expected to account for the largest share of the global NDT services market. The large market share of this segment is attributed to the growing use of inspection testing for detecting variations in sizes, orientations, and shapes of materials and the increasing



use of ultrasonic testing for multilayer material flaw detection.

Moreover, the flaw detection segment is expected to record the highest CAGR during the forecast period. The increasing use of NDT testing in manufacturing for flaw detection due to extreme temperatures, stress, fatigue, and dynamic loads, and the implications and increasing initiatives of companies for the development of NDT equipment for flaw detection, is expected to drive the growth of this segment in the coming years.

Based on end-use industry, the global NDT services market is segmented into oil & gas, aerospace, power generation, healthcare and medical devices, manufacturing, military and defense, supply chain and transportation, public infrastructure, water and waste management, and other end-use industries. In 2023, the manufacturing segment is expected to account for the largest share of the global NDT services market. The large market share of this segment is attributed to the growing focus of companies on the development of radiography testing systems and the growing need for material testing in automotive manufacturing to ensure the structural integrity and reliability of components used in safety-critical areas such as bodywork, brakes, and steering systems.

Moreover, the manufacturing segment is expected to record the highest CAGR during the forecast period. The increasing adoption of X-ray technology and computed tomography (CT) for materials testing and the rising inclination of manufacturers towards additive manufacturing are expected to drive the growth of this segment in the coming years.

Based on geography, the global NDT services market is segmented into North America, Europe, Asia-Pacific, Latin America, and the Middle East & Africa. In 2023, Asia-Pacific is expected to account for the largest share of the global NDT services market. Asia-Pacific's major market share is attributed to the increasing industrialization, growing power generation projects in the region, the surge in oil and gas production across the region, and the growing need for inspection services in the oil and gas industry.

However, the Middle East & Africa is expected to record the highest CAGR during the forecast period. Factors such as the region's leading position in the oil and gas industry, government focus on increasing production of oil and gas, growing integration of robots for inspection of oil and gas infrastructure, stringent regulations for inspection of oil & gas industry assets and infrastructure are expected to drive the growth of the NDT services market in the coming years.



### Key Players:

Some of the key players operating in the NDT services market are SGS SA (Switzerland), Bureau Veritas (France), DEKRA SE (Sweden), Intertek Group plc (U.K.), T?V Rheinland (Germany), MISTRAS Group, Inc. (U.S.), TEAM, Inc. (U.S.), Waygate Technologies (Germany), Element Materials Technology (U.K.), Applus Services, S.A. (Spain), T?V S?D AG (Germany), Acuren (U.S.), Applied Technical Services, LLC (U.S.), Siemens Energy AG (Germany), PTS Group (U.K.), Vertech Group (Australia), TWI Ltd. (U.K.), NDT Group Inc. (Canada), Axess AS (Norway), Control Union (Netherlands), and Testia (France).

Key questions answered in the report-

Which are the high-growth market segments based on type, method, application, and end-use industry?

What was the historical market for NDT services?

What are the market forecasts and estimates for the period 2023–2030?

What are the major drivers, restraints, and opportunities in the NDT services market?

Who are the major players in the NDT services market?

What is the competitive landscape like in the NDT services market?

What are the recent developments in the NDT services market?

What are the different strategies adopted by the major players in the NDT services market?

What are the key geographic trends, and which are the high-growth countries?

Who are the local emerging players in the global NDT services market, and how do they compete with the other players?



Scope of the report:

Non-destructive Testing (NDT) Services Market Assessment—by Type

Inspection Services

**Training Services** 

Calibration and Evaluation Services

**Equipment Rental Services** 

**Consulting Services** 

Non-destructive Testing (NDT) Services Market Assessment—by Method

Visual Testing

**Ultrasonic Testing** 

**Automated Ultrasonic Backscatter Testing** 

Phased Array Ultrasonic Testing

Long Range Ultrasonic Testing

Internal Rotating Inspection Systems

Time-of-Flight Diffraction Testing

**Dry-coupled Ultrasonic Testing** 

Rapid Ultrasonic Gridding Testing

Liquid Penetrant Testing

Radiographic Testing

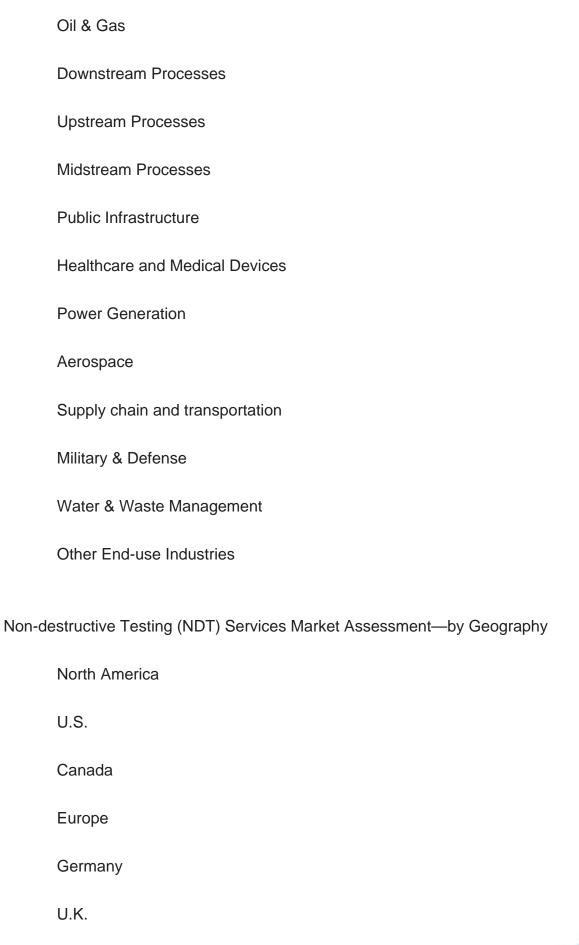


Conventional Radiography Digital Radiography Automated Radiographic Testing **Electromagnetic Testing** Remote Field Testing **Eddy Current Testing** Alternating Current Field Measurement Magnetic Particle Testing Magnetic Flux Leakage Testing **Acoustic Emission Testing** Other Methods Non-destructive Testing (NDT) Services Market Assessment—by Application Flaw Detection Dimensional Measurement **Chemical Composition Determination** Stress and Structure Analysis **Physical Properties Estimation** 

Non-destructive Testing (NDT) Services Market Assessment—by End-use Industry

Manufacturing







France	
Italy	
Spain	
Rest of Europe	
Asia-Pacific	
China	
Japan	
India	
South Korea	
Rest of Asia-Pacific	
Latin America	
Middle East & Africa	
Related Report:	
Inspection Robots Market - Global Opportunity Analysis and Industry Forecast (2023–2030)	
https://www.meticulousresearch.com/product/inspection-robots-market-5513	
Inspection Machines Market - Global Opportunity Analysis and Industry Forecast (2023–2030)	

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https://www.meticulousresearch.com/product/inspection-machines-market-2571

Testing, Inspection, and Certification Market - Global Opportunity Analysis and Industry



Forecast (2023-2030)

https://www.meticulousresearch.com/product/testing-inspection-and-certification-market-5151

X-ray Inspection Systems Market for Electronics & Semiconductors - Global Opportunity Analysis and Industry Forecast (2022–2029)

https://www.meticulousresearch.com/product/x-ray-inspection-systems-market-for-electronics-and-semiconductors-5253

Industrial X-ray Inspection System Market - Global Opportunity Analysis and Industry Forecast (2021-2028)

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Automotive Testing, Inspection, and Certification Market - Global Opportunity Analysis and Industry Forecast (2020-2027)

https://www.meticulousresearch.com/product/automotive-tic-market-4977



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