

# Global Non Destructive Testing (NDT) in Aerospace & Defense Market Research Report 2023

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### **Abstracts**

Nondestructive testing or non-destructive testing (NDT) is a wide group of analysis techniques used in science and technology industry to evaluate the properties of a material, component orsystem without causing damage. The terms nondestructive examination (NDE), nondestructive inspection (NDI), and nondestructive evaluation (NDE) are also commonly used to describe this technology. Because NDT does not permanently alter the article being inspected, it is a highly valuable technique that can save both money and time in product evaluation, troubleshooting, and research. The six most frequently used NDT methods are eddy-current, magnetic-particle, liquid penetrant, radiographic, ultrasonic, and visual testing. NDT is commonly used in forensic engineering, Aircraft Industry, petroleum engineering, Space Industry, civil engineering, systems engineering, aeronautical engineering, medicine, and art. Innovations in the field of nondestructive testing have had a profound impact on medical imaging, including on echocardiography, medical ultrasonography, and digital radiography.

According to QYResearch's new survey, global Non Destructive Testing (NDT) in Aerospace & Defense market is projected to reach US\$ 537.9 million in 2029, increasing from US\$ 392.9 million in 2022, with the CAGR of 4.6% during the period of 2023 to 2029. Influencing issues, such as economy environments, COVID-19 and Russia-Ukraine War, have led to great market fluctuations in the past few years and are considered comprehensively in the whole Non Destructive Testing (NDT) in Aerospace & Defense market research.

The Non-Destructive Testing (NDT) market in the Aerospace & Defense sector is influenced by several drivers and restrictions that impact its growth and development. NDT methods are critical for ensuring the safety, reliability, and performance of



aerospace and defense components and systems. Here are some key drivers and restrictions affecting the NDT market in Aerospace & Defense:

#### Drivers:

Safety and Regulatory Compliance: Stringent safety standards and regulatory requirements in the aerospace and defense industries drive the demand for NDT methods to ensure the integrity of critical components and structures.

Quality Assurance: The need for quality assurance and control in the manufacturing, maintenance, and repair of aircraft, missiles, and defense systems fuels the demand for NDT technologies.

Aircraft Fleet Expansion: The global expansion of commercial and military aircraft fleets increases the need for regular inspections, maintenance, and NDT testing to extend the lifespan of aircraft.

Rising Defense Budgets: Increased defense spending by governments worldwide leads to higher investments in defense equipment, necessitating rigorous NDT for reliability and readiness.

Technological Advancements: Ongoing advancements in NDT technologies, such as digital radiography, ultrasonic testing, and eddy current testing, enhance detection capabilities and inspection accuracy.

Additive Manufacturing: The growth of additive manufacturing (3D printing) in aerospace and defense requires NDT techniques for assessing the quality and integrity of printed components.

Composite Materials: The use of composite materials in aircraft construction, which require specialized NDT techniques, drives the demand for advanced testing methods.

Globalization of Supply Chains: Global supply chains in aerospace and defense demand consistent NDT standards and practices across different regions, contributing to market growth.

Predictive Maintenance: NDT is crucial for implementing predictive maintenance strategies that reduce downtime and maintenance costs.



#### Restrictions:

High Costs: Acquiring, maintaining, and operating advanced NDT equipment can be costly, which can limit adoption, particularly for smaller aerospace and defense organizations.

Skilled Workforce: Skilled NDT technicians and engineers are required to perform complex inspections, and a shortage of qualified personnel can be a restriction.

Complexity and Training: Some NDT methods are complex and require extensive training and certification, leading to longer learning curves and potential skill shortages.

Environmental Challenges: NDT in extreme environmental conditions, such as harsh temperatures or confined spaces, can be challenging and may require specialized equipment.

Regulatory Compliance: Meeting strict regulatory requirements and certifications for NDT in aerospace and defense is essential but can be time-consuming and costly.

Interoperability: Ensuring interoperability and compatibility of NDT equipment and software across different manufacturers' systems can be a challenge.

Data Management: Handling and managing the vast amount of data generated during NDT inspections require efficient data storage, analysis, and reporting solutions.

Risk Mitigation: Balancing the need for thorough NDT inspections with the desire to minimize downtime and operational disruption can be a delicate challenge.

Overall, the NDT market in Aerospace & Defense is vital for ensuring the safety and reliability of aircraft, defense systems, and components. While cost and workforce challenges exist, the industry's commitment to safety and quality, combined with ongoing technological advancements, is expected to drive continued growth and innovation in NDT methods and practices.

#### Report Scope

This report, based on historical analysis (2018-2022) and forecast calculation (2023-2029), aims to help readers to get a comprehensive understanding of global Non Destructive Testing (NDT) in Aerospace & Defense market with multiple angles, which



provides sufficient supports to readers' strategy and decision making.

By Company		
	GE Measurement & Control	
	Olympus Corporation	
	Magnaflux	
	YXLON	
	Nikon Metrology Inc.	
	Fujifilm	
	Sonatest	
	Mistras Group, Inc.	
Segment by Type		
	Ultrasonic Testing	
	Radiography Testing	
	Magnetic Particle Testing & Eddy-current Testing	
	Others	
Segment by Application		
	Aircraft Industry	
	Defense	



# By Region

North America		
Un	ited States	
Ca	nada	
Europe		
Ge	ermany	
Fra	ance	
UK		
Ital	ly	
Ru	ssia	
No	rdic Countries	
Re	st of Europe	
Asia-Pacific		
Ch	ina	
Jap	oan	
So	uth Korea	
So	utheast Asia	
Inc	lia	
Au	stralia	
Re	st of Asia	



Latin America			
Mexico			
Brazil			
Rest of Latin America			
Middle East & Africa			
Turkey			
Saudi Arabia			
UAE			
Rest of MEA			
The Non Destructive Testing (NDT) in Aerospace & Defense report covers below items:			
Chapter 1: Product Basic Information (Definition, Type and Application)			
Chapter 2: Global market size, regional market size. Market Opportunities and Challenges			
Chapter 3: Companies' Competition Patterns			
Chapter 4: Product Type Analysis			
Chapter 5: Product Application Analysis			
Chapter 6 to 10: Country Level Value Analysis			
Chapter 11: Companies' Outline			
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Chapter 12: Market Conclusions



Chapter 13: Research Methodology and Data Source



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