

Aerospace NDT Market by Technique (Ultrasonic Testing, Radiographic Testing, and Eddy Current Testing), Aircraft Type (Commercial Aircraft, Spacecraft & Launch Vehicles), Application (Airframe & Structures, Avionics & Electronics), and Region - Global Forecast to 2032

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Abstracts

The global aerospace NDT market is anticipated to grow from USD 3.23 billion in 2026 and is projected to reach USD 5.69 billion by 2032, growing at a CAGR of 9.9%.

“Based on application, avionics & electronics to register highest CAGR during forecast period”

The avionics & electronics segment is expected to register the highest CAGR in the aerospace NDT market from 2026 to 2032. The growth of the segment is driven by the rapid increase in aircraft electrification and digitalization across commercial and defense verticals. The growing integration of advanced flight control electronics, communication modules, radar systems, and sensors is significantly increasing the need for precise and non-invasive inspection techniques. Additionally, stringent safety and certification requirements for electronic systems are pushing OEMs and MRO providers to adopt non-destructive testing extensively. Furthermore, the growing use of advanced avionics in unmanned aerial vehicles (UAVs) is also contributing to the market growth.

“Based on services, inspection services to hold largest market share throughout forecast period”

The inspection services segment is expected to account for the largest share of the

aerospace NDT market for services during the forecast period. The recurring and mandatory nature of inspection activities across aircraft lifecycles drives the market growth of the segment. Increasing global aircraft fleet size and utilization rates are significantly increasing the volume of routine and scheduled inspections, particularly within maintenance, repair, and overhaul (MRO) operations. Furthermore, stringent regulatory frameworks are further mandating frequent and highly reliable inspection protocols, reinforcing sustained demand for third-party and in-house inspection services.

“North America to hold largest market share throughout forecast period”

North America is expected to account for the largest share of the aerospace NDT market during the forecast period. The market growth is driven by the region’s well-established aerospace ecosystem and high concentration of aircraft OEMs and component manufacturers. The presence of leading industry players and continuous investments in advanced aircraft programs are significantly increasing the demand for high-precision NDT solutions in the region. Furthermore, growing defense expenditure, particularly in the US, is also driving the adoption of advanced NDT technologies. Furthermore, early adoption of advanced inspection technologies such as digital radiography, ultrasonic testing, and computed tomography is reinforcing North America’s hold in the global aerospace NDT market.

Extensive primary interviews have been conducted with key industry experts in the aerospace NDT market to determine and verify the market size for various segments and subsegments gathered through secondary research. The breakdown of primary participants for the report is shown below.

The study contains insights from various industry experts, from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type - Tier 1 - 55%, Tier 2 - 25%, and Tier 3 - 20%

By Designation - Directors - 50%, Managers - 30%, and Others - 20%

By Region – North America - 45%, Europe - 30%, Asia Pacific - 20%, Middle East - 3%, Africa - 1%, and South America – 1%.

The key players in the aerospace NDT market include SGS SA (Switzerland), Wabtec

Corporation (US), Baker Hughes Company (UK), Intertek Group Plc (UK), Bureau Veritas (France), Element Materials Technology (UK), MISTRAS Group (US), DEKRA (Germany), Nikon Metrology, LLC (US), and Applus+ (Spain).

The study includes an in-depth competitive analysis of these key players in the aerospace NDT market, with their company profiles, recent developments, and key market strategies.

Study Coverage:

The report segments the aerospace NDT market and forecasts its market size by offering (equipment and services), by technique (ultrasonic testing, radiographic testing, eddy current testing, magnetic particle testing, liquid penetrant testing, visual testing, acoustic emission testing, and other techniques), by aircraft type (commercial aircraft, military & defense aircraft, spacecraft & launch vehicles, helicopters, unmanned aerial vehicles (UAVs)/drones and business & general aviation), by application (airframe & structures, engines & propulsion systems, avionics & electronics, landing gear & mechanical systems, interiors & cabin systems, and other applications). The report also analyzes key market drivers, restraints, opportunities, and challenges influencing industry growth. It provides a detailed regional assessment across North America, Europe, Asia Pacific, the Middle East, Africa, and South America, along with country-level insights for major markets. In addition, the study includes value chain analysis and competitive landscape assessment of leading players operating in the global aerospace NDT ecosystem.

Key Benefits of Buying the Report:

Analysis of key drivers (increasing aircraft production and fleet expansion, growing adoption of advanced materials and additive manufacturing), restraints (high cost of advanced NDT equipment and implementation, complexity in inspection of advanced aerospace components), opportunities (integration of AI and automation in NDT, expansion of space and defense programs), and challenges (rapid technological advancements and need for continuous upgrades, data management and integration issues)

Product and Service Development/Innovation: Detailed insights on upcoming technologies, research and development activities, and new product and service launches in the aerospace NDT market

Market Development: Comprehensive information about lucrative markets by analyzing the aerospace NDT market across varied regions

Market Diversification: Exhaustive information about new products/services, untapped geographies, recent developments, and investments in the aerospace NDT market

Competitive Assessment: In-depth assessment of market shares and growth strategies of leading players, such as SGS SA (Switzerland), Wabtec Corporation (US), Baker Hughes Company (UK), Intertek Group Plc (UK), Bureau Veritas (France), Element Materials Technology (UK), MISTRAS Group (US), DEKRA (Germany), Nikon Metrology, LLC (US), and Applus+ (Spain)

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