Industrial RT for Non-Destructive Testing Market: Top Trends and Key Players Analysis Report

Industrial RT for Non-Destructive Testing Market to Reach $1,088 Million, Globally, by 2022

WILMINGTON, DELAWARE, UNITED STATES, August 22, 2024 /EINPresswire.com/ -- Owing to the technological shift from traditional inspection systems to advanced systems, various industries are replacing traditional inspection systems with automated devices. In addition, an increase in demand for high-accuracy and durable inspection devices is fueling the market growth. Also, these inspection systems find maximum use in aerospace & defense and oil & gas applications. Allied Market Research, titled, Global Industrial RT for Non-Destructive Testing Market by Component and Application: Opportunity Analysis and Industry Forecast, 2014-2022, the Industrial RT for non-destructive testing market size was valued at $491 million in 2014, and is projected to reach at $1,088 million by 2022, growing at a CAGR of 10.1% from 2016 to 2022.

> “Increased oil & gas and nuclear power projects in the U.S. boost RT system adoption for non-destructive testing, critical for efficient operations and safety compliance in these sectors.”
>
> *Allied Market Research*

□□□□□□□□□ □□□□□□□□□ □□□□□□□ □□□□□□□ & □□□: https://www.alliedmarketresearch.com/request-sample/4551

RT system is used for testing materials for defects to avoid equipment failure. These systems are used to maximize the efficiency of a product. Radiographic testing is conducted under stringent settings to avoid mishaps, without contaminating the tested products. It acts as a preventative measure in industries utilizing volatile or high-pressure equipment and machinery. In addition, RT systems ensure the reliability of equipment by eliminating the risk of oversight or inaccuracy. Thus, the impact of this factor is high and is expected to maintain its effects on the market growth during the forecast period.

The aerospace & defense and oil & gas sectors constituted the largest market share in 2015, owing to the presence of large shale oil & gas reserves in countries such as the U.S., the UK, Germany, China, France, and Italy. The surge in operations in the aerospace & defense sector, particularly in the testing sector of the U.S. drives the RT system market, as NDT inspection plays

a vital role in the functioning of aircraft, satellites, and others. Presently, the portable NDT segment holds the largest market share, as the adoption of computed tomography is expected to increase over the next five years due to enhanced accuracy and efficiency.

North America is projected to hold the largest market size in the global industrial RT for the NDT market. The Asia-Pacific market is in its growth phase, owing to an increase in infrastructure projects and power plants.

In 2014, Portable NDT accounted for 34%, owing to its ability to detect internal and hidden defect/discontinuity along with its high penetrating power and accuracy. However, the computed tomography system segment is anticipated to witness significant growth in the coming years, owing to its high accuracy and efficiency. The inspection and testing segment held the largest market share of 52% in 2014 and is expected to grow at a CAGR of 9.9% during the forecast period. In 2015, the aerospace & defense sector contributed a significant revenue share of over 13.5% in the overall market.

□□□ □□□□□□□□□□ □□□□□□□ □□□□ □□□'□□ □□□□□□□□□□□□□:
https://www.alliedmarketresearch.com/request-for-customization/4551

□□□ □□□□□□□□□ □□□□□□□

□□□□□□□□ □□ □□□□□□□□□□□□ □□ □□□ □□ □□□ & □□□ □□□ □□□□□□□ □□□□□ □□□□□□□
The increase in the number of oil & gas and power generation projects, particularly in the nuclear energy sector in the U.S., has significantly increased the adoption of RT systems for non-destructive testing, as it plays a vital role in the efficient functioning of these industries. Non-destructive testing equipment is used in oil and gas operations of critical assets such as tanks, vessels, heat exchangers & condensers, piping, and rotating equipment to identify potential damage. In addition, an increase in the number of failures in oil & gas equipment and tools, especially pipes, fuels the need for non-destructive testing equipment in this industry. Moreover, RT systems are used in nuclear power plants for safe and complete testing of critical parts of nuclear power plants without modification of the plant.

□□□□□□□□□ □□□□□□ □□□□□□□□□□ □□□□□□□□□□□
Stringent product usage specifications, quality control requirements, and government safety regulations drive the market. Governments of various countries have taken initiatives to avoid mishaps in the past resulting from leakage in nuclear reactors, pipeline explosions, and refinery blasts. The U.S. Government has mandated non-destructive testing equipment manufacturers to periodically engage in inspection activities. In addition, The European Committee for Standardization (CEN) is the recognized European organization for planning, drafting, and implementing European Standards across all areas of economic activity except electro-technology and telecommunication. Therefore, the impact of this factor is expected to be high shortly.

□□□□ □□ □□□□□□□ □□□ □□□□□□□□□ □□□□□□□□□□□□□□□

The lack of skilled technicians is a major restraint for the adoption of the RT system in the NDT market. Technicians required for the inspection process are certified but do not possess the essential skills to perform the inspection with satisfactory levels of quality. In addition, most training institutes are not updated with the latest systems, and technicians are trained on outdated products that have become obsolete. This is a major hindrance to the growth of the RT system market, as it restricts the adoption of advanced products and technologies. Non-destructive testing system manufacturers have tapped into this opportunity, and have set up their training centers or academies. For instance, system manufacturers, such as Olympus, Carestream, and GE Measurement and Control Solutions have established training centers to train people on using all types of equipment. An increase in the number of training institutes is expected to neutralize the effects of this factor on market growth in the future.

□□□ □□□□□□□□ □□ □□□ □□□□□□□□□□ □□ □□□ □□□-□□□□□□□□□□□□ □□□□□□□ □□□□□□:

- Portable NDTs are projected to continue to maintain their leading position during the forecast period.
- Aerospace & defense application will continue to maintain its leading position till 2022.
- The North American region is expected to exhibit a promising growth rate over the forecast period.

□□□□□□□ □□□□□□ □□□□□□: https://www.alliedmarketresearch.com/purchase-enquiry/4551

The key players profiled in the report include □□□□□□ □□□□□□□□□□□ □□□□□□, □□□□□□□□ □□□□□□□□□□□, □□□□□□□, □□□□□□ □□□□□□□□ □□□□□ □□., □□□, □□□□□ □□□□□□□□□□□□□□, □□□□□□ □□□□□□□□□, □□□□□, □□□□□□□□ □□□□□□□, □□□□ □□□ □□□□ & □□. □□, □□□□□□□□□□□□□□ □□□□□ □□□□□□□ □□□. □□□, □□□□ □□□□□□□□□□□□, □□□□□ □□□□ □□□□□□□, □□□., □□□□□□□□□□□□□ □□□□□□□□□□□ □□□□□□□□□□ □□□., □□□□□□□ □□□□□□□□□□□□□□ □□□□, □□ □□□□□, □□□., □□□□□□ □□□ □□□, □□□□□ □□□□□□□□□, □□□□□, □□□□□□□□ □□□, □□□□□□□, □□□□□, 3□□-□□□, □□□□□ □□□□□, □□□ □□□□□□□, □□□□□ □□□□□□. These market players focus on the development of new technology, the launch of novel products with innovative variations, and the adoption of partnership and collaboration as key strategies to establish their position in the market.

□□□□□ □□:

Allied Market Research is a top provider of market intelligence that offers reports from leading technology publishers. Our in-depth market assessments in our research reports consider significant technological advancements in the sector. In addition to other areas of expertise, AMR focuses on analyzing high-tech and advanced production systems. We have a team of experts who compile thorough research reports and actively advise leading businesses to enhance their current procedures. Our experts have a wealth of knowledge on the topics they cover. Also, they use various tools and techniques when gathering and analyzing data, including patented data sources.

David Correa
Allied Market Research
+1 800-792-5285
email us here
Visit us on social media:
Facebook
X