

Industrial Computed Tomography Market Report by Offering (Equipment, Services), Application (Flaw Detection and Inspection, Failure Analysis, Assembly Analysis, and Others), End Use Industry (Aerospace, Automotive, Electronics, Oil and Gas, and Others), and Region 2024-2032

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Abstracts

The global industrial computed tomography market size reached US\$ 512.4 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 810.0 Million by 2032, exhibiting a growth rate (CAGR) of 5.1% during 2024-2032.

Industrial computed tomography (ICT) refers to a computer-aided non-destructive testing (NDT) technique that deploys X-ray radiation to represent the internal and external geometries of the scanned object. It aids in reverse engineering, non-contact measurement, contact evaluation, failure analysis, flaw detection, and metrology, thereby promoting the instant and accurate interpretation of micro and large structures. This, in turn, enables manufacturers to improve product design and reduce development costs.

Industrial Computed Tomography Market Trends:

One of the key factors driving the industrial computed tomography market growth is the widespread product adoption across various industrial verticals, such as commercial, electronics, aerospace, oil and gas, military, and defense, to meet the growing complexity in the design and manufacturing of components. This is further supported by the rapid advancements in sensor and digital detector technologies, which, in turn, is facilitating the utilization of industrial computed tomography for implementing prototypes and spot-check sample inspection, thereby aiding in maintaining the product efficiency

and reliability. In line with this, the shifting inclination of manufacturers toward radiography and the additive manufacturing techniques on account of the increasing need for quantitative measuring of material dimension and product density is acting as another major growth-inducing factor. Moreover, the widespread adoption of additive manufacturing techniques, such as three-dimensional (3D) printing, in the healthcare sector for producing surgical implants, instruments, and bioengineering tools is also contributing to the market growth. The market is also driven by the significant expansion in the automotive industry. Since the utilization of industrial computed tomography does not require the assembled systems to be disassembled for inspection of automobiles, this is providing an impetus to the market growth significantly.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global industrial computed tomography market report, along with forecasts at the global, regional and country levels from 2024-2032. Our report has categorized the market based on offering, application and end use industry.

Breakup by Offering:

Equipment

Line Beam Scanners

Cone Beam Scanners

Services

Breakup by Application:

Flaw Detection and Inspection

Failure Analysis

Assembly Analysis

Others

Breakup by End Use Industry:

Aerospace

Automotive

Electronics

Oil and Gas

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Baker Hughes Company, Bruker Corporation, Carl Zeiss AG, Comet Group, Hitachi Ltd., Nikon Corporation, North Star Imaging Inc. (Illinois Tool Works Inc.), Omron Corporation, Rigaku Corporation, Shimadzu Corporation, Thermo Fisher Scientific Inc., VJ Group Inc. and Werth Inc.

Key Questions Answered in This Report

1. What was the size of the global industrial computed tomography market in 2023?
2. What is the expected growth rate of the global industrial computed tomography market during 2024-2032?

3. What are the key factors driving the global industrial computed tomography market?
4. What has been the impact of COVID-19 on the global industrial computed tomography market?
5. What is the breakup of the global industrial computed tomography market based on the offering?
6. What is the breakup of the global industrial computed tomography market based on the application?
7. What is the breakup of the global industrial computed tomography market based on end use industry?
8. What are the key regions in the global industrial computed tomography market?
9. Who are the key players/companies in the global industrial computed tomography market?

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