

Industrial Computed Tomography Market Size, Share, Trends, and Forecast by Offering, Application, End Use Industry, and Region, 2025-2033

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Abstracts

The global industrial computed tomography market size was valued at USD 538.59 Million in 2024. Looking forward, IMARC Group estimates the market to reach USD 843.84 Million by 2033, exhibiting a CAGR of 4.86% during 2025-2033. Asia-Pacific currently dominates the market, holding a significant market share of over 33.7% in 2024. The market is experiencing growth due to the rising demand for non-destructive testing (NDT) in manufacturing. Advancements in CT technology including enhanced resolution and 3D imaging capabilities are further increasing the overall industrial computed tomography market share across the globe.

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 segment of the global industrial computed tomography market, along with forecasts at the global, regional, and country levels from 2025-2033. The market has been categorized 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.How big is the industrial computed tomography market?

- 2.What is the future outlook of industrial computed tomography market?
- 3.What are the key factors driving the industrial computed tomography market?
- 4.Which region accounts for the largest industrial computed tomography market share?
- 5.Which are the leading companies in the global industrial computed tomography market?

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