

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?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL INDUSTRIAL COMPUTED TOMOGRAPHY MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY OFFERING

- 6.1 Equipment
 - 6.1.1 Market Trends
 - 6.1.2 Key Segments
 - 6.1.2.1 Line Beam Scanners
 - 6.1.2.2 Cone Beam Scanners
 - 6.1.3 Market Forecast
- 6.2 Services

- 6.2.1 Market Trends
- 6.2.2 Market Forecast

7 MARKET BREAKUP BY APPLICATION

- 7.1 Flaw Detection and Inspection
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Failure Analysis
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Assembly Analysis
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Others
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast

8 MARKET BREAKUP BY END USE INDUSTRY

- 8.1 Aerospace
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Automotive
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Electronics
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
- 8.4 Oil and Gas
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast
- 8.5 Others
 - 8.5.1 Market Trends
 - 8.5.2 Market Forecast

9 MARKET BREAKUP BY REGION

- 9.1 North America

- 9.1.1 United States
 - 9.1.1.1 Market Trends
 - 9.1.1.2 Market Forecast
- 9.1.2 Canada
 - 9.1.2.1 Market Trends
 - 9.1.2.2 Market Forecast
- 9.2 Asia-Pacific
 - 9.2.1 China
 - 9.2.1.1 Market Trends
 - 9.2.1.2 Market Forecast
 - 9.2.2 Japan
 - 9.2.2.1 Market Trends
 - 9.2.2.2 Market Forecast
 - 9.2.3 India
 - 9.2.3.1 Market Trends
 - 9.2.3.2 Market Forecast
 - 9.2.4 South Korea
 - 9.2.4.1 Market Trends
 - 9.2.4.2 Market Forecast
 - 9.2.5 Australia
 - 9.2.5.1 Market Trends
 - 9.2.5.2 Market Forecast
 - 9.2.6 Indonesia
 - 9.2.6.1 Market Trends
 - 9.2.6.2 Market Forecast
 - 9.2.7 Others
 - 9.2.7.1 Market Trends
 - 9.2.7.2 Market Forecast
- 9.3 Europe
 - 9.3.1 Germany
 - 9.3.1.1 Market Trends
 - 9.3.1.2 Market Forecast
 - 9.3.2 France
 - 9.3.2.1 Market Trends
 - 9.3.2.2 Market Forecast
 - 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
 - 9.3.4 Italy

- 9.3.4.1 Market Trends
- 9.3.4.2 Market Forecast
- 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
- 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
- 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others
 - 9.4.3.1 Market Trends
 - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
 - 9.5.1 Market Trends
 - 9.5.2 Market Breakup by Country
 - 9.5.3 Market Forecast

10 SWOT ANALYSIS

- 10.1 Overview
- 10.2 Strengths
- 10.3 Weaknesses
- 10.4 Opportunities
- 10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

- 12.1 Overview

- 12.2 Bargaining Power of Buyers
- 12.3 Bargaining Power of Suppliers
- 12.4 Degree of Competition
- 12.5 Threat of New Entrants
- 12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

- 14.1 Market Structure
- 14.2 Key Players
- 14.3 Profiles of Key Players
 - 14.3.1 Baker Hughes Company
 - 14.3.1.1 Company Overview
 - 14.3.1.2 Product Portfolio
 - 14.3.1.3 Financials
 - 14.3.1.4 SWOT Analysis
 - 14.3.2 Bruker Corporation
 - 14.3.2.1 Company Overview
 - 14.3.2.2 Product Portfolio
 - 14.3.2.3 Financials
 - 14.3.2.4 SWOT Analysis
 - 14.3.3 Carl Zeiss AG
 - 14.3.3.1 Company Overview
 - 14.3.3.2 Product Portfolio
 - 14.3.3.3 SWOT Analysis
 - 14.3.4 Comet Group
 - 14.3.4.1 Company Overview
 - 14.3.4.2 Product Portfolio
 - 14.3.4.3 Financials
 - 14.3.5 Hitachi Ltd.
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
 - 14.3.5.3 Financials
 - 14.3.5.4 SWOT Analysis
 - 14.3.6 Nikon Corporation
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio

- 14.3.6.3 Financials
- 14.3.6.4 SWOT Analysis
- 14.3.7 North Star Imaging Inc. (Illinois Tool Works Inc.)
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
- 14.3.8 Omron Corporation
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
 - 14.3.8.3 Financials
 - 14.3.8.4 SWOT Analysis
- 14.3.9 Rigaku Corporation
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
- 14.3.10 Shimadzu Corporation
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
 - 14.3.10.3 Financials
 - 14.3.10.4 SWOT Analysis
- 14.3.11 Thermo Fisher Scientific Inc.
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio
 - 14.3.11.3 Financials
 - 14.3.11.4 SWOT Analysis
- 14.3.12 VJ Group Inc.
 - 14.3.12.1 Company Overview
 - 14.3.12.2 Product Portfolio
- 14.3.13 Werth Inc.
 - 14.3.13.1 Company Overview
 - 14.3.13.2 Product Portfolio

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