

# **Industrial Radiography Equipment Market Size, Share & Trends Analysis Report By Type (Detection & Imaging Devices, Radiation Sources Exposure Control Equipment), By Industry (Automotive, Aerospace, Oil And Gas), By Region, And Segment Forecasts, 2025 - 2033**

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## **Abstracts**

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### **Industrial Radiography Equipment Market Summary**

The global industrial radiography equipment market size was estimated at USD 1.77 billion in 2024 and is projected to reach USD 3.35 billion by 2033, growing at a CAGR of 7.5% from 2025 to 2033. The industrial radiography equipment market has been driven by the growing demand for non-destructive testing (NDT) across critical industries such as oil & gas, aerospace, automotive, manufacturing, and power generation.

Industrial radiography plays a vital role in ensuring the quality, safety, and dependability of materials and structures across various applications. Consequently, increasing focus on quality assurance, structural integrity, and safety compliance has sped up the adoption of radiographic systems. Additionally, infrastructure growth in emerging markets and strict inspection standards in developed economies have further boosted market growth. The market is also driven by the growing complexity of industrial components, which requires high-precision inspection technologies.

A gradual transition from conventional film-based systems to digital radiography, including computed radiography (CR), direct digital radiography (DR), and real-time

radiography (RTR), has been witnessed across all major industries. DR is a modern imaging technique that utilizes digital detectors to capture images directly, eliminating the need for film or intermediate scanning processes. It is widely adopted in industries that demand rapid results and high-resolution imaging, including automotive, aerospace, and electronics manufacturing. On the other hand, RTR is used in dynamic inspection scenarios where instant feedback is essential, such as monitoring moving components, evaluating welds in real time, and conducting quality control on assembly lines. These technological advancements are expected to contribute to the growth of the industrial radiography equipment market.

The increasing demand for industrial radiography equipment in the aerospace sector is expected to drive market growth during the forecast period. The aerospace industry relies heavily on industrial radiography to ensure the safety, reliability, and performance of aircraft components. It is used to inspect critical structural parts such as wings, fuselage sections, and engine components for internal defects, as flaw-free parts are essential for flight safety. Radiographic techniques are also used to examine composite materials for issues like delaminations, voids, and other imperfections that could compromise structural integrity. During routine maintenance and overhauls, radiography helps detect fatigue cracks, corrosion, and other types of damage, supporting the continued airworthiness of aircraft systems.

However, certain restraints have hindered market growth. High initial costs of digital radiography systems, ongoing maintenance, and operator training have limited adoption, especially among small and medium enterprises. Strict regulatory requirements, along with a shortage of skilled personnel, have further affected operational efficiency in several regions. Additionally, concerns about radiation exposure and equipment misuse have increased scrutiny, restricting market penetration in safety-sensitive environments.

## Global Industrial Radiography Equipment Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global industrial radiography equipment market report based on type, industry, and region.

Type Outlook (Revenue, USD Million, 2021 - 2033)

Detection and Imaging Devices

Radiation Sources

Exposure Control Equipment

Industry Outlook (Revenue, USD Million, 2021 - 2033)

Automotive

Aerospace

Oil and Gas

Manufacturing

Power Generation

Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Asia Pacific

China

Japan

India

South Korea

Australia

Latin America

Brazil

Middle East and Africa (MEA)

KSA

UAE

South Africa

## Contents

### **CHAPTER 1. METHODOLOGY AND SCOPE**

- 1.1. Market Segmentation and Scope
- 1.2. Research Methodology
  - 1.2.1. Information Procurement
- 1.3. Information or Data Analysis
- 1.4. Methodology
- 1.5. Research Scope and Assumptions
- 1.6. Market Formulation & Validation
- 1.7. Country Based Segment Share Calculation
- 1.8. List of Data Sources

### **CHAPTER 2. EXECUTIVE SUMMARY**

- 2.1. Market Outlook
- 2.2. Segment Outlook
- 2.3. Competitive Insights

### **CHAPTER 3. INDUSTRIAL RADIOGRAPHY EQUIPMENT MARKET VARIABLES, TRENDS, & SCOPE**

- 3.1. Market Lineage Outlook
- 3.2. Market Dynamics
  - 3.2.1. Market Driver Analysis
  - 3.2.2. Market Restraint Analysis
  - 3.2.3. Industry Challenge
- 3.3. Industrial Radiography Equipment Market Analysis Tools
  - 3.3.1. Industry Analysis - Porter's
    - 3.3.1.1. Bargaining power of the suppliers
    - 3.3.1.2. Bargaining power of the buyers
    - 3.3.1.3. Threats of substitution
    - 3.3.1.4. Threats from new entrants
    - 3.3.1.5. Competitive rivalry
  - 3.3.2. PESTEL Analysis
    - 3.3.2.1. Political landscape
    - 3.3.2.2. Economic and social landscape
    - 3.3.2.3. Technological landscape

## **CHAPTER 4. INDUSTRIAL RADIOGRAPHY EQUIPMENT MARKET: TYPE ESTIMATES & TREND ANALYSIS**

### 4.1. Segment Dashboard

### 4.2. Industrial Radiography Equipment Market: Type Movement Analysis, 2024 & 2033 (USD Million)

### 4.3. Detection and Imaging Devices

#### 4.3.1. Detection and Imaging Devices Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

### 4.4. Radiation Sources

#### 4.4.1. Radiation Sources Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

### 4.5. Exposure Control Equipment

#### 4.5.1. Exposure Control Equipment Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

## **CHAPTER 5. INDUSTRIAL RADIOGRAPHY EQUIPMENT MARKET: INDUSTRY ESTIMATES & TREND ANALYSIS**

### 5.1. Segment Dashboard

### 5.2. Industrial Radiography Equipment Market: Industry Movement Analysis, 2024 & 2033 (USD Million)

### 5.3. Automotive

#### 5.3.1. Automotive Market Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

### 5.4. Aerospace

#### 5.4.1. Aerospace Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

### 5.5. Oil and Gas

#### 5.5.1. Oil and Gas Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

### 5.6. Manufacturing

#### 5.6.1. Manufacturing Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

### 5.7. Power Generation

#### 5.7.1. Power Generation Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

### 5.8. Others

#### 5.8.1. Others Revenue Estimates and Forecasts, 2021 - 2033 (USD Million)

## **CHAPTER 6. INDUSTRIAL RADIOGRAPHY EQUIPMENT MARKET: REGIONAL**

## ESTIMATES & TREND ANALYSIS

6.1. Industrial Radiography Equipment Market Share, By Region, 2024 & 2033 (USD Million)

6.2. North America

6.2.1. North America Industrial Radiography Equipment Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.2.2. U.S.

6.2.2.1. U.S. Industrial Radiography Equipment Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.2.3. Canada

6.2.3.1. Canada Industrial Radiography Equipment Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.2.4. Mexico

6.2.4.1. Mexico Industrial Radiography Equipment Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.3. Europe

6.3.1. Europe Industrial Radiography Equipment Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.3.2. UK

6.3.2.1. UK Industrial Radiography Equipment Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.3.3. Germany

6.3.3.1. Germany Industrial Radiography Equipment Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.3.4. France

6.3.4.1. France Industrial Radiography Equipment Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.4. Asia Pacific

6.4.1. Asia Pacific Industrial Radiography Equipment Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.4.2. China

6.4.2.1. China Industrial Radiography Equipment Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.4.3. Japan

6.4.3.1. Japan Industrial Radiography Equipment Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.4.4. India

6.4.4.1. India Industrial Radiography Equipment Market Estimates and Forecasts,

2021 - 2033 (USD Million)

6.4.5. South Korea

6.4.5.1. South Korea Industrial Radiography Equipment Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.4.6. Australia

6.4.6.1. Australia Industrial Radiography Equipment Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.5. Latin America

6.5.1. Latin America Industrial Radiography Equipment Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.5.2. Brazil

6.5.2.1. Brazil Industrial Radiography Equipment Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.6. Middle East and Africa

6.6.1. Middle East and Africa Industrial Radiography Equipment Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.6.2. UAE

6.6.2.1. UAE Industrial Radiography Equipment Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.6.3. KSA

6.6.3.1. KSA Industrial Radiography Equipment Market Estimates and Forecasts, 2021 - 2033 (USD Million)

6.6.4. South Africa

6.6.4.1. South Africa Industrial Radiography Equipment Market Estimates and Forecasts, 2021 - 2033 (USD Million)

## **CHAPTER 7. COMPETITIVE LANDSCAPE**

7.1. Company Categorization

7.2. Company Market Positioning

7.3. Company Heat Map Analysis

7.4. Company Profiles/Listing

7.4.1. Baker Hughes Company

7.4.1.1. Participant's Overview

7.4.1.2. Financial Performance

7.4.1.3. Product Benchmarking

7.4.1.4. Strategic Initiatives

7.4.2. Comet

7.4.2.1. Participant's Overview

- 7.4.2.2. Financial Performance
- 7.4.2.3. Product Benchmarking
- 7.4.2.4. Strategic Initiatives
- 7.4.3. D?RR NDT GmbH & Co. KG
  - 7.4.3.1. Participant's Overview
  - 7.4.3.2. Financial Performance
  - 7.4.3.3. Product Benchmarking
  - 7.4.3.4. Strategic Initiatives
- 7.4.4. Source Production & Equipment Co., Inc.
  - 7.4.4.1. Participant's Overview
  - 7.4.4.2. Financial Performance
  - 7.4.4.3. Product Benchmarking
  - 7.4.4.4. Strategic Initiatives
- 7.4.5. Pacific NDT
  - 7.4.5.1. Participant's Overview
  - 7.4.5.2. Financial Performance
  - 7.4.5.3. Product Benchmarking
  - 7.4.5.4. Strategic Initiatives
- 7.4.6. FUJIFILM Holdings America Corporation
  - 7.4.6.1. Participant's Overview
  - 7.4.6.2. Financial Performance
  - 7.4.6.3. Product Benchmarking
  - 7.4.6.4. Strategic Initiatives
- 7.4.7. Vidisco Ltd.
  - 7.4.7.1. Participant's Overview
  - 7.4.7.2. Financial Performance
  - 7.4.7.3. Product Benchmarking
  - 7.4.7.4. Strategic Initiatives
- 7.4.8. ZEISS
  - 7.4.8.1. Participant's Overview
  - 7.4.8.2. Financial Performance
  - 7.4.8.3. Product Benchmarking
  - 7.4.8.4. Strategic Initiatives
- 7.4.9. Varex Imaging
  - 7.4.9.1. Participant's Overview
  - 7.4.9.2. Financial Performance
  - 7.4.9.3. Product Benchmarking
  - 7.4.9.4. Strategic Initiatives
- 7.4.10. Carestream

- 7.4.10.1. Participant's Overview
- 7.4.10.2. Financial Performance
- 7.4.10.3. Product Benchmarking
- 7.4.10.4. Strategic Initiatives

## List Of Tables

### LIST OF TABLES

Table 1 Global Industrial Radiography Equipment market size estimates & forecasts, 2021 - 2033 (USD Million)

Table 2 Global Industrial Radiography Equipment market, by region, 2021 - 2033 (USD Million)

Table 3 Global Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 4 Global Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 5 Detection and Imaging Devices market, by region, 2021 - 2033 (USD Million)

Table 6 Radiation Sources market, by region, 2021 - 2033 (USD Million)

Table 7 Exposure Control Equipment market, by region, 2021 - 2033 (USD Million)

Table 8 Automotive Industrial Radiography Equipment market, by region, 2021 - 2033 (USD Million)

Table 9 Aerospace Industrial Radiography Equipment market, by region, 2021 - 2033 (USD Million)

Table 10 Oil and Gas Industrial Radiography Equipment market, by region, 2021 - 2033 (USD Million)

Table 11 Manufacturing Industrial Radiography Equipment market, by region, 2021 - 2033 (USD Million)

Table 12 Power Generation Industrial Radiography Equipment market, by region, 2021 - 2033 (USD Million)

Table 13 Other Industrial Radiography Equipment market, by region, 2021 - 2033 (USD Million)

Table 14 North America Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 15 North America Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 16 U.S. Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 17 U.S. Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 18 Canada Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 19 Canada Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 20 Mexico Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Million)

Table 21 Mexico Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 22 Europe Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 23 Europe Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 24 UK Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 25 UK Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 26 Germany Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 27 Germany Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 28 France Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 29 France Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 30 Asia Pacific Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 31 Asia Pacific Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 32 China Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 33 China Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 34 India Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 35 India Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 36 Japan Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 37 Japan Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 38 South Korea Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 39 South Korea Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 40 Australia Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 41 Australia Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 42 Latin America Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 43 Latin America Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 44 Brazil Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 45 Brazil Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 46 MEA Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 47 MEA Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 48 UAE Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 49 UAE Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 50 KSA Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 51 KSA Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

Table 52 South Africa Industrial Radiography Equipment market, by Type, 2021 - 2033 (USD Million)

Table 53 South Africa Industrial Radiography Equipment market, by Industry, 2021 - 2033 (USD Million)

## List Of Figures

### LIST OF FIGURES

- Fig. 1 Industrial Radiography Equipment market segmentation
- Fig. 2 Market research process
- Fig. 3 Information procurement
- Fig. 4 Primary research pattern
- Fig. 5 Market research approaches
- Fig. 6 Value chain-based sizing & forecasting
- Fig. 7 Parent market analysis
- Fig. 8 Market formulation & validation
- Fig. 9 Industrial Radiography Equipment market snapshot
- Fig. 10 Industrial Radiography Equipment market segment snapshot
- Fig. 11 Industrial Radiography Equipment market competitive landscape snapshot
- Fig. 12 Market research process
- Fig. 13 Market driver relevance analysis (Current & future impact)
- Fig. 14 Market restraint relevance analysis (Current & future impact)
- Fig. 15 Industrial Radiography Equipment market, Type outlook key takeaways (USD Million)
- Fig. 16 Industrial Radiography Equipment market, Type movement analysis 2024 & 2033 (USD Million)
- Fig. 17 Detection and Imaging Devices market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 18 Radiation Sources market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 19 Exposure Control Equipment market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 20 Industrial Radiography Equipment market: Industry outlook key takeaways (USD Million)
- Fig. 21 Industrial Radiography Equipment market: Industry movement analysis 2024 & 2033 (USD Million)
- Fig. 22 Automotive market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 23 Aerospace market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 24 Oil and Gas market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 25 Manufacturing market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 26 Power Generation market revenue estimates and forecasts, 2021 - 2033 (USD Million)
- Fig. 27 Others market revenue estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 28 Regional marketplace: Key takeaways

Fig. 29 Industrial Radiography Equipment market: Regional outlook, 2024 & 2033 (USD Million)

Fig. 30 North America Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 31 U.S. Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 32 Canada Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 33 Mexico Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 34 Europe Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 35 UK Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 36 Germany Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 37 France Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 38 Asia Pacific Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 39 China Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 40 Japan Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 41 India Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 42 Australia Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 43 South Korea Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 44 Latin America Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 45 Brazil Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 46 MEA Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 47 KSA Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 48 UAE Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 49 South Africa Industrial Radiography Equipment market estimates and forecasts, 2021 - 2033 (USD Million)

Fig. 50 Strategy framework

Fig. 51 Company Categorization

## I would like to order

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