

# **Global Medical Imaging Phantoms Market Size Study, By Product, Application, End-use, and Regional Forecasts 2022-2032**

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## **Abstracts**

The global medical imaging phantoms market is valued at USD 171.39 million in 2023 and is projected to grow at a healthy CAGR of 5.9% during the forecast period 2024-2032. Medical imaging phantoms are indispensable tools in quality assurance, calibration, and testing of advanced imaging systems such as MRI, CT, ultrasound, and X-ray. Their pivotal role in ensuring the accuracy and precision of diagnostic imaging procedures continues to drive the market forward, particularly in the wake of increasing chronic disease prevalence.

The World Health Organization (WHO) reported significant global incidences of chronic diseases such as chronic obstructive pulmonary disease (COPD) and cardiac failure, with approximately 251 million cases of COPD documented in 2023. This increasing disease burden underscores the necessity of reliable diagnostic imaging systems, which in turn demand high-quality phantoms for performance optimization. The adoption of sophisticated imaging technologies within healthcare facilities further elevates the importance of imaging phantoms in delivering precise diagnostic outcomes.

Technological advancements are revolutionizing medical imaging phantoms by enhancing their precision and material versatility. In 2023, significant innovations, such as the development of 3D-printed phantoms and modality-specific designs, have significantly improved the performance of imaging systems. These advancements enable better calibration and ensure compliance with increasingly stringent safety regulations. Entities such as the FDA have mandated routine quality assurance testing, propelling healthcare facilities to procure imaging phantoms to meet regulatory standards.

Regionally, North America holds the largest market share, accounting for 36.4% in 2023, driven by substantial investments in healthcare infrastructure, R&D activities, and the presence of cutting-edge medical imaging technologies. In the Asia Pacific, the market is anticipated to exhibit the fastest CAGR of 6.6% over the forecast period. Countries like Japan, China, and India are experiencing significant healthcare reforms and investments in advanced diagnostic centers, fueling demand for imaging phantoms.

In Europe, a robust focus on medical technology innovation, particularly in Germany, is enhancing the adoption of imaging phantoms for quality assurance. Hospitals and diagnostic imaging centers remain the largest end-users, with a growing emphasis on regulatory compliance and standardized imaging protocols.

Major market players included in this report are:

BARTEC Top Holding GmbH

Gold Standard Phantoms

IBA Worldwide

Kyoto Kagaku Co., Ltd.

Leeds Test Objects

Mirion Technologies, Inc.

PTW Freiburg GmbH

Pure Imaging Phantoms

RSD Radiology Support Devices

CIRS, Inc.

Carville Ltd.

Festo AG

Fischer Medical Ventures

Siemens Healthineers

Philips Healthcare

The detailed segments and sub-segments of the market are explained below:

#### By Product

CT (Computed Tomography) Phantoms

MRI (Magnetic Resonance Imaging) Phantoms

Ultrasound Phantoms

X-ray Phantoms

Nuclear Medicine Phantoms

Others

#### By Application

Calibration & Quality Assurance

Diagnostic Imaging

Research & Development

Training & Education

Therapeutic Applications

#### By End-Use

Hospitals & Diagnostic Imaging Centers

Medical Device Manufacturers

Others

By Region:

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Denmark

Sweden

Norway

Asia Pacific

Japan

China

India

Australia

South Korea

Thailand

Latin America

Brazil

Argentina

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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