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Mobile C-Arm Market ? Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Full Size C-arm v/s Mini Size C-arm), By Technology (Flat Panel v/s Image Intensifiers), By Application (Orthopedics and Trauma, Cardiovascular, Urology, Gastroenterology, Neurology, Others), By End Users (Hospitals, Specialty Clinics, Ambulatory Surgical Clinics), By Region & Competition, 2021-2031F

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Abstracts

The Global Mobile C-Arm Market is projected to expand from USD 1.98 Billion in 2025 to USD 2.75 Billion by 2031, registering a CAGR of 5.63%. These versatile diagnostic imaging units are essential in operating rooms for providing real-time fluoroscopic visualization during cardiovascular, orthopedic, and trauma surgeries. Growth is primarily fuelled by the increasing global burden of chronic diseases and an aging population necessitating surgical care, alongside a significant transition toward minimally invasive procedures that require intraoperative guidance. This demand is illustrated by NHS England data from 2024, which showed diagnostic imaging activity hitting 47.2 million tests?a 4.8% annual rise?while fluoroscopy specifically increased by 2.0%, highlighting the critical need for mobile imaging to improve surgical accuracy and patient results.

Conversely, market growth faces substantial hurdles due to the high capital investment needed for these sophisticated systems and the strict budget limitations within healthcare facilities. Elevated costs for acquisition and maintenance often force smaller institutions to postpone equipment updates, thereby limiting the uptake of modern

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technologies. Additionally, the durability of existing hardware results in a prolonged replacement cycle that hinders rapid market penetration, creating a challenge for manufacturers to prove the return on investment for high-end mobile C-arm models despite their obvious clinical importance.

Market Driver

The escalating incidence of chronic ailments and orthopedic disorders serves as a major driver for the Global Mobile C-Arm Market. With the geriatric demographic growing, age-associated conditions like osteoporosis and osteoarthritis are leading to a higher volume of surgical procedures, specifically fracture repairs and joint replacements. Mobile C-arms are essential for these operations, providing high-resolution, real-time imaging that facilitates precise implant positioning and lowers revision rates. This upward trend is evidenced by the American Joint Replacement Registry?s '2025 Annual Report' from October 2025, which noted that cumulative hip and knee arthroplasty procedures exceeded 4.4 million, marking an 8.8% rise from the prior year and underscoring the increased reliance on mobile imaging to handle the musculoskeletal disease burden.

Simultaneously, the rising global preference for minimally invasive surgical (MIS) techniques is transforming market dynamics. Medical providers are increasingly favoring methods that reduce patient trauma and speed up recovery, which depend heavily on the advanced fluoroscopic guidance offered by mobile C-arms, especially in spinal and cardiovascular interventions where accuracy is critical. This strong demand for interventional tools is reflected in Siemens Healthineers' 'Q4 Fiscal Year 2025 Earnings Release' from November 2025, where the Advanced Therapies segment achieved a 3.8% year-over-year revenue growth. Furthermore, market momentum is supported by ongoing medical infrastructure investments, as seen in GE HealthCare?s October 2025 report showing a 6% total revenue increase in the third quarter driven by imaging performance, suggesting a continued growth trend as facilities enhance their diagnostic capacities for complex workflows.

Market Challenge

The Global Mobile C-Arm Market faces a significant obstacle in the form of substantial capital requirements for advanced imaging units, exacerbated by tight budgetary limits within healthcare organizations. Outpatient centers and hospitals often function with slim financial margins, compelling administrators to carefully evaluate every capital expense. The high costs associated with acquiring and maintaining equipment

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discourage facilities from replacing older units, resulting in the extended use of legacy hardware. This financial prudence interrupts the standard replacement cycle and creates a bottleneck for market growth, as a lack of funding postpones the adoption of newer, clinically superior mobile C-arm systems needed for complex procedures.

This pattern of delayed investment is confirmed by recent industry statistics illustrating the gravity of financial strain. Data from the American Hospital Association in 2025 indicates that approximately 94% of healthcare administrators anticipated postponing equipment upgrades to cope with rising operational expenses and tariff-related costs. Such widespread deferral of purchasing decisions directly restricts manufacturers from introducing premium technologies to the market. Consequently, even with growing clinical demand for intraoperative imaging, the market?s expansion potential remains limited by the economic challenges healthcare providers face in justifying the return on investment for new systems.

Market Trends

The incorporation of Artificial Intelligence for Real-Time Image Optimization and Analytics is fundamentally transforming the market by tackling issues of radiation safety and operational efficiency. AI algorithms are being embedded into mobile C-arm systems to automate patient positioning and improve image sharpness, which decreases both cumulative dose exposure and procedure duration. This evolution toward intelligent productivity offers financial benefits for manufacturers focusing on automated workflow technologies to boost profitability. As reported by GE HealthCare in their 'Third Quarter 2024 Financial Results' from October 2024, the Imaging segment achieved an 18% year-over-year rise in segment EBIT, a success credited to robust productivity efforts utilizing these advanced automated features.

At the same time, the merging of Mobile Imaging with Surgical Robotics and Navigation Systems is broadening the clinical application of C-arms from basic diagnostics to sophisticated intraoperative guidance. With neurosurgery and spinal procedures requiring elevated precision, mobile C-arms are being designed to communicate seamlessly with robotic platforms, forming a unified ecosystem for implant placement and instrument tracking. The demand for such integrated technologies is highlighted by recent financial results; for instance, Stryker?s 'Q3 2024 Earnings Call Transcript' from October 2024 revealed that the MedSurg and Neurotechnology segment posted constant currency sales growth of 12.9%, demonstrating the fast-paced adoption of systems that combine visualization with surgical navigation.

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Key Market Players

Siemens Healthineers AG

Koninklijke Philips N.V.

General Electric Company

Ziehm Imaging GmbH

Shimadzu Corporation

Canon Medical Systems Corporation

Hologic, Inc.

OrthoScan, Inc.

Eurocolumbus S.r.l.

Allengers Medical Systems Limited

Report Scope

In this report, the Global Mobile C-Arm Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Mobile C-Arm Market, By Type

Full Size C-arm v/s Mini Size C-arm

Mobile C-Arm Market, By Technology

Flat Panel v/s Image Intensifiers

Mobile C-Arm Market, By Application

Orthopedics and Trauma

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Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Mobile C-Arm Market.

Available Customizations:

Global Mobile C-Arm Market report with the given market data, TechSci Research offers

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customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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