

C-Arms - Market Insights, Competitive Landscape and Market Forecast-2027

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Report description:

C-Arms Market By Type (Full-Size C-Arms, Mini C-Arms, Others), By Device Type (Mobile C-Arms And Fixed C-Arms), By Detector Type (Image Intensifiers, Flat Panel), By Application (Orthopedic And Trauma Surgeries, Radiology Surgeries, Neurosurgeries, Others), By End-User (Hospitals, Ambulatory Surgery Centers, Diagnostic Imaging Centres, Others), by geography is expected to grow at a steady CAGR forecast till 2027 owing to rising incidence of severe chronic diseases and rapid technological developmental activities

Global C-Arms Market was valued at USD 1.88 billion in 2021, growing at a CAGR of 4.50% during the forecast period from 2022 to 2027 to reach USD 2.45 billion by 2027. The C-Arms market is witnessing positive growth owing to the rising incidence of severe chronic diseases, increase in the number of orthopedic disorders such as injuries and diseases affecting the musculoskeletal system in humans, rapid technological developmental activities, growing awareness for early detection, advancements in maneuverability and imaging capabilities, increasing incidences of the aging population, thereby contributing to the growth of the C-Arms market during the forecast period from 2022-2027.

C-Arms Market Dynamics:

The C-Arms market is witnessing a growth in product demand owing to various reasons. The major advantage of C-Arms is its ability to provide high-resolution X-ray images in real-time, which helps physicians to monitor progress at any point during the operation and immediately make necessary changes. C-Arms are widely used to diagnose chronic diseases like oncology, cardiovascular.

In addition to chronic diseases, the rising prevalence of cancers is another important factor responsible for the growth of the Global C-Arms market. As per WHO 2020, the leading cause of death worldwide was cancer which accounted for nearly 10 million

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deaths in 2020.

As per the World Health Organization in the year 2020, cancer is considered to be the second most prominent cause of death worldwide, accounting for about 9.6 million lives affected in the year 2018.

Moreover, according to Cancer Research UK 2018, the population suffering from cancer is expected to increase in the future. As per their 2018 report, if recent trends in the incidence of major cancers and population growth are consistent, it is predicted that there will be 27.5 million new cancer cases worldwide each year by 2040. Therefore, in order to facilitate the diagnosis of different types of cancer in both women and men, C-Arms are witnessing an increase in demand, leading to overall C-Arms market growth.

C-Arms have a consistently strong demand these days in the field of medical imaging of various cancers of the body. It is an effective imaging technique that helps physicians to diagnose various types of tumors.

Hence, early detection is essential for a cure because survival is dependent on the treatment pathway for the disease. With proper scans, diagnosis becomes better. Therefore, the increasing prevalence of chronic diseases is projected to result in the growing demand for C-Arms, thereby contributing to the growth of the C-Arms market during the forecast period from 2022-2027.

Another key factor responsible for the growth of the C-Arms market is the increasing geriatric population base across the globe. According to the data provided by the World Health Organization, in 2020, about one billion people across the world were over the age of 60. The source further stated that by 2050, the elderly population in the 60 and above age group is expected to double in number representing about 2.1 billion people, and people in the age group of 80 and above are estimated to triple between 2020 and 2050 to reach 426 million. Age is considered as one of the key risk factors associated with the development of various disorders such as examining internal and bone injuries, diagnosing spinal problems and skeletal injuries, therefore, the rising elderly population is expected to lead to a rise in the patient population of chronic diseases across the world, which in turn would lead to an increase in demand for C-Arms in the forecast period (2022-2027).

Moreover, the latest technological advancements such as integrating artificial intelligence, auto-detection technology with X-Ray machines, and redesigning the digital radiography systems into ergonomic and user-compatible designs have also added to the rising demand for C-Arms, thereby propelling the C-Arms market.

However, high costs and disadvantages in the form of overheating, which allows them to only be used for a short period of time may be certain limiting factors of the C-Arms market growth.

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The outbreak of the pandemic led to the cancellation of outpatient visits and the suspension of non-emergency hospitals and procedures. This resulted in the reduced number of routine clinical examinations of the visits and related procedures. However, vaccine development of COVID-19 has initiated the process of economic recovery with the easing of lockdown restrictions and the return of normalcy in the economic landscape which has initiated the process of resumption of regular healthcare services such as outpatients visits and resumption of healthcare services, thereby bringing the demand for products on track in the C-Arms market.

C-Arms Market Segment Analysis:

C-Arms Market By Type (Full-Size C-Arms, Mini C-Arms, Others), By Device Type (Mobile C-Arms And Fixed C-Arms), By Detector Type (Image Intensifiers, Flat Panel), By Application (Orthopedic And Trauma Surgeries, Radiology Surgeries, Neurosurgeries, Others), By End-User (Hospitals, Ambulatory Surgery Centers, Diagnostic Imaging Centres, Others), and By Geography (North America, Europe, Asia-Pacific, and Rest of the World)

In the Type segment of the C-Arms market, the Mini C-Arms are estimated to hold a higher share in the C-Arms market during the forecast period (2022-2027). This can be attributed to the specific features associated with these devices.

The dominance of this segment is due to the portability of these C-arms as compared to the full-size C-arms. Several market players have a strong portfolio of Mini C-Arms and are now launching new products in this segment.

Moreover, the mini C-arm enables the clinician to obtain dynamic images and perform interventions such as manipulations or injections. The mini C-arm results in significantly lower radiation exposure for the patients than a formal X-ray.

Therefore, considering the advantages associated with Mini C-Arms, this product category is expected to generate significant revenue share eventually contributing to the overall growth of the global C-Arms market in the forecast period.

North America is expected to dominate the overall C-Arms Market:

Among all the regions, North America is expected to account for the largest share in the Global C-Arms market. Factors such as the rising incidence of severe chronic diseases such as radiology, oncology, and others, rapid technological developmental activities, growing awareness for early detection, increasing incidences of the aging population, and increased product launches are expected to aid in the growth of North America C-Arms Market.

Furthermore, high disposable income, sophisticated healthcare infrastructure, increased awareness regarding disease progression are also expected to aid in the C-Arms market growth in this region.

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According to the data from the 2018 National Health Interview Survey (NHIS), more than half (51.8%) of adults had at least 1 of 10 selected diagnosed chronic conditions, and 27.2% of US adults had multiple chronic conditions.

Furthermore, according to the Centers for Disease Control and Prevention in the USA (2020), the number of new cancer cases will go up by 24% in men and 21% in women by 2020.

Furthermore, according to the American Heart Association 2021, in the year 2019 cardiovascular disorders were the leading cause of death in the United States and coronary heart disease had accounted for about 42.1% of the deaths attributable to CVD in the United States.

Therefore, the rising adoption of C-Arms in the country would result in the rising demand for treatments that make use of C-Arms, which in turn would provide a conducive growth environment for the United States C-Arms market as well as the North American region.

Furthermore, the increased emphasis on product development activities and the high interest of device manufacturers in accessing local markets further aid in the growth of the regional markets for C-Arms.

These kinds of product launches in the local markets drive the product demand in the market. Therefore, the interplay of various factors such as the presence of a large patient population, encouraging reimbursement policies as well as new product launches in the region is expected to boost the North America C-Arms market during the forecast period.

C-Arms Market Key Players:

Some of the key market players operating in the C-Arms market include Siemens Healthcare GmbH, General Electric Company, Ziehm Imaging GmbH, FUJIFILM Holdings America Corporation, Canon Medical Systems Corporation, Koninklijke Philips N.V., Shimadzu Corp., Hologic, Inc., Eurocolumbus Srl, ASSING S.P.A., DMS Imaging, Trivitron Healthcare, SternMed GmbH, Villa Sistemi Medicali Spa (DGT Holdings Corporation), BMI Biomedical International s.r.l., Idetec Medical Imaging, BPL Medical Technologies, EcoRay Co., Ltd. ECOTRON, SIMAD s.r.l. and others.

Recent Developmental Activities in the C-Arms Market:

? On November 16, 2021, FUJIFILM Healthcare Americas announced the launch of the Persona CS mobile fluoroscopy system, its new, compact mobile C-arm imaging solution designed for rapid and seamless positioning in the operating room (OR) environments. The powerful and compact system is designed to provide enhanced live image guidance during a wide range of surgeries in the OR, including orthopedic, complicated surgical, pain management (anesthetics), and emergency procedures

? On November 19, 2020, FUJIFILM Medical Systems USA, Inc. entered the surgical and fluoroscopy markets with two new systems: the Persona C Surgical C-Arm and Persona RF PREMIUM System. These systems can provide digital x-ray imaging studies and fluoroscopy exams, allowing physicians to enhance workflow and assess their patient's conditions.

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Key Takeaways from the C-Arms Market Report Study

? Market size analysis for current C-Arms market size (2021), and market forecast for 5 years (2022-2027)

? The effect of the COVID-19 pandemic on this market is significant. To capture and analyze suitable indicators, our experts are closely watching the C-Arms market.

? Top key product/services/technology developments, merger, acquisition, partnership, joint venture happened for last 3 years

? Key companies dominating the global C-Arms market.

? Various opportunities available for the other competitor in the C-Arms market space.

? What are the top performing segments in 2021? How these segments will perform in 2027.

? Which is the top-performing regions and countries in the current C-Arms market scenario?

? Which are the regions and countries where companies should have concentrated on opportunities for C-Arms market growth in the coming future?

Target Audience who can be benefited from this C-Arms Market Report Study

? C-Arms products providers

? Research organizations and consulting companies

? C-Arms-related organizations, associations, forums, and other alliances

? Government and corporate offices

? Start-up companies, venture capitalists, and private equity firms

? Distributors and Traders dealing in C-Arms

? Various End-users who want to know more about the C-Arms market and latest technological developments in the C-Arms market.

Frequently Asked Questions for C-Arms Market:

1. What are C-Arms?

C-Arm is a medical imaging device that is based on X-ray technology and can be used flexibly in various ORs within a clinic. The C-shaped arm is used to connect the X-ray source and X-ray detector. It is often used in surgery, orthopedics, traumatology, vascular surgery, and cardiology for intra-operative imaging.

2. What is the market for Global C-Arms?

Global C-Arms Market was valued at USD 1.88 billion in 2021, growing at a CAGR of 4.50% during the forecast period from 2022 to 2027 to reach USD 2.45 billion by 2027.

3. What are the drivers for Global C-Arms Market?

The C-Arms market is witnessing a positive market growth owing to the rising incidence of severe chronic diseases, increase in the number of orthopedic disorders such as injuries and diseases affecting the musculoskeletal system in humans, rapid technological developmental activities, growing awareness for early detection, advancements in maneuverability and imaging capabilities, increasing incidences of the aging population.

4. Who are the key players operating in the Global C-Arms Market?

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Some of the key market players operating in the C-Arms market include Siemens Healthcare GmbH, General Electric Company, Ziehm Imaging GmbH, FUJIFILM Holdings America Corporation, Canon Medical Systems Corporation, Koninklijke Philips N.V., Shimadzu Corp., Hologic, Inc., Eurocolumbus Srl, ASSING S.P.A., DMS Imaging, Trivitron Healthcare, SternMed GmbH, Villa Sistemi Medicali Spa (DGT Holdings Corporation), BMI Biomedical International s.r.l., Idetec Medical Imaging, BPL Medical Technologies, EcoRay Co., Ltd. ECOTRON and others.

5. Which region has the highest share in C-Arms Market?

North America is expected to hold the highest share in the revenue in the C-Arms market during the forecast period. Factors such as the rising incidence of severe chronic diseases such as radiology, oncology, and others, rapid technological developmental activities, growing awareness for early detection, increasing incidences of the aging population, and increased product launches.

Table of Contents:

- 1.C-Arms Market Report Introduction
- 2.C-Arms Market Executive Summary
 - 2.1. Scope of the Study
 - 2.2. Market at Glance
 - 2.3. Competitive Assessment
 - 2.4. Financial Benchmarking
- 3. Regulatory Analysis
 - 3.1. The United States
 - 3.2. Europe
 - 3.3. Japan
 - 3.4. China
- 4. C-Arms Market Key Factors Analysis
 - 4.1. C-Arms Market Drivers
 - 4.1.1. The Rising Incidence of Severe Chronic Diseases
 - 4.1.2. Growing Geriatric Population
 - 4.1.3. Technological Advancements in Product Development
 - 4.2. C-Arms Market Restraints and Challenges
 - 4.2.1. High Cost of the Equipment
 - 4.2.2. Heating Issues
 - 4.3. C-Arms Market Opportunities
 - 4.3.1. Rising Strategic Business Activities among the Manufacturers
 - 4.3.2. Targeting Emerging Markets for Product Launches
- 5. C-Arms Market Porter's Five Forces Analysis
 - 5.1. Bargaining Power of Suppliers
 - 5.2. Bargaining Power of Consumers
 - 5.3. Threat of New Entrants
 - 5.4. Threat of Substitutes
 - 5.5. Competitive Rivalry
- 6. COVID-19 Impact Analysis on C-Arms Market
- 7. C-Arms Market Layout
 - 7.1. By Type
 - 7.1.1. Full-Size C-Arms

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- 7.1.2. Mini C-Arms
- 7.1.3. Others
- 7.2. By Device Type
 - 7.2.1. Mobile
 - 7.2.2. Fixed
- 7.3. By Detector
 - 7.3.1. Image Intensifiers
 - 7.3.2. Flat Panel
- 7.4. By Application
 - 7.4.1. Orthopedic And Trauma Surgeries
 - 7.4.2. Radiology Surgeries
 - 7.4.3. Neuro Surgeries
 - 7.4.4. Others
- 7.5. By End User
 - 7.5.1. Hospitals
 - 7.5.2. Ambulatory Surgery Centers
 - 7.5.3. Diagnostic Imaging Centres
 - 7.5.4. Others
- 7.6. By Geography
 - 7.6.1. North America
 - 7.6.1.1. North America C-Arms Market, by Type
 - 7.6.1.2. North America C-Arms Market, by Detector
 - 7.6.1.3. North America C-Arms Market, by Application
 - 7.6.1.4. North America C-Arms Market, by End User
 - 7.6.1.5. North America C-Arms Market, by Country
 - 7.6.1.5.1. United States
 - 7.6.1.5.2. Canada
 - 7.6.1.5.3. Mexico
 - 7.6.2. Europe
 - 7.6.2.1. Europe C-Arms Market, by Type
 - 7.6.2.2. Europe C-Arms Market, by Detector
 - 7.6.2.3. Europe C-Arms Market, by Application
 - 7.6.2.4. Europe C-Arms Market, by End User
 - 7.6.2.5. Europe C-Arms Market, by Country
 - 7.6.2.5.1. France
 - 7.6.2.5.2. Germany
 - 7.6.2.5.3. United Kingdom
 - 7.6.2.5.4. Italy
 - 7.6.2.5.5. Spain
 - 7.6.2.5.6. Russia
 - 7.6.2.5.7. Rest of Europe
 - 7.6.3. Asia-Pacific
 - 7.6.3.1. Asia-Pacific C-Arms Market, by Type
 - 7.6.3.2. Asia-Pacific C-Arms Market, by Detector
 - 7.6.3.3. Asia-Pacific C-Arms Market, by Application
 - 7.6.3.4. Asia-Pacific C-Arms Market, by End User
 - 7.6.3.5. Asia-Pacific C-Arms Market, by Country

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- 7.6.3.5.1. China
- 7.6.3.5.2. Japan
- 7.6.3.5.3. India
- 7.6.3.5.4. Australia
- 7.6.3.5.5. South Korea
- 7.6.3.5.6. Rest of Asia Pacific
- 7.6.4. Rest of the World (RoW)
 - 7.6.4.1. RoW C-Arms Market, by Type
 - 7.6.4.2. RoW C-Arms Market, by Detector
 - 7.6.4.3. RoW C-Arms Market, by Application
 - 7.6.4.4. RoW C-Arms Market, by End User
 - 7.6.4.5. RoW C-Arms Market, by Region
 - 7.6.4.5.1. Middle East
 - 7.6.4.5.2. Africa
 - 7.6.4.5.3. South America
- 8. C-Arms Market Global Company Share Analysis - Key 3-5 Companies
- 9. C-Arms Market Company and Product Profiles
 - 9.1. Siemens Healthcare GmbH
 - 9.1.1. Company Overview
 - 9.1.2. Company Snapshot
 - 9.1.3. Financial Overview
 - 9.1.4. Product Listing
 - 9.1.5. Entropy
 - 9.2. General Electric Company
 - 9.2.1. Company Overview
 - 9.2.2. Company Snapshot
 - 9.2.3. Financial Overview
 - 9.2.4. Product Listing
 - 9.2.5. Entropy
 - 9.3. Ziehm Imaging GmbH
 - 9.3.1. Company Overview
 - 9.3.2. Company Snapshot
 - 9.3.3. Financial Overview
 - 9.3.4. Product Listing
 - 9.3.5. Entropy
 - 9.4. FUJIFILM Holdings America Corporation
 - 9.4.1. Company Overview
 - 9.4.2. Company Snapshot
 - 9.4.3. Financial Overview
 - 9.4.4. Product Listing
 - 9.4.5. Entropy
 - 9.5. Canon Medical Systems Corporation
 - 9.5.1. Company Overview
 - 9.5.2. Company Snapshot
 - 9.5.3. Financial Overview
 - 9.5.4. Product Listing
 - 9.5.5. Entropy

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- 9.6. Koninklijke Philips N.V.
 - 9.6.1. Company Overview
 - 9.6.2. Company Snapshot
 - 9.6.3. Financial Overview
 - 9.6.4. Product Listing
 - 9.6.5. Entropy
- 9.7. Shimadzu Corp.
 - 9.7.1. Company Overview
 - 9.7.2. Company Snapshot
 - 9.7.3. Financial Overview
 - 9.7.4. Product Listing
 - 9.7.5. Entropy
- 9.8. Hologic, Inc.
 - 9.8.1. Company Overview
 - 9.8.2. Company Snapshot
 - 9.8.3. Financial Overview
 - 9.8.4. Product Listing
 - 9.8.5. Entropy
- 9.9. Eurocolumbus srl
 - 9.9.1. Company Overview
 - 9.9.2. Company Snapshot
 - 9.9.3. Financial Overview
 - 9.9.4. Product Listing
 - 9.9.5. Entropy
- 9.10. ASSING S.P.A.
 - 9.10.1. Company Overview
 - 9.10.2. Company Snapshot
 - 9.10.3. Financial Overview
 - 9.10.4. Product Listing
 - 9.10.5. Entropy
- 9.11. DMS Imaging
 - 9.11.1. Company Overview
 - 9.11.2. Company Snapshot
 - 9.11.3. Financial Overview
 - 9.11.4. Product Listing
 - 9.11.5. Entropy
- 9.12. Trivitron Healthcare
 - 9.12.1. Company Overview
 - 9.12.2. Company Snapshot
 - 9.12.3. Financial Overview
 - 9.12.4. Product Listing
 - 9.12.5. Entropy
- 9.13. SternMed GmbH
 - 9.13.1. Company Overview
 - 9.13.2. Company Snapshot
 - 9.13.3. Financial Overview
 - 9.13.4. Product Listing

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- 9.13.5. Entropy
- 9.14. Villa Sistemi Medicali Spa (DGT Holdings Corporation)
 - 9.14.1. Company Overview
 - 9.14.2. Company Snapshot
 - 9.14.3. Financial Overview
 - 9.14.4. Product Listing
 - 9.14.5. Entropy
- 9.15. BMI Biomedical International s.r.l.
 - 9.15.1. Company Overview
 - 9.15.2. Company Snapshot
 - 9.15.3. Financial Overview
 - 9.15.4. Product Listing
 - 9.15.5. Entropy
- 9.16. Idetec Medical Imaging
 - 9.16.1. Company Overview
 - 9.16.2. Company Snapshot
 - 9.16.3. Financial Overview
 - 9.16.4. Product Listing
 - 9.16.5. Entropy
- 9.17. BPL Medical Technologies
 - 9.17.1. Company Overview
 - 9.17.2. Company Snapshot
 - 9.17.3. Financial Overview
 - 9.17.4. Product Listing
 - 9.17.5. Entropy
- 9.18. EcoRay Co., Ltd.
 - 9.18.1. Company Overview
 - 9.18.2. Company Snapshot
 - 9.18.3. Financial Overview
 - 9.18.4. Product Listing
 - 9.18.5. Entropy
- 9.19. ECOTRON
 - 9.19.1. Company Overview
 - 9.19.2. Company Snapshot
 - 9.19.3. Financial Overview
 - 9.19.4. Product Listing
 - 9.19.5. Entropy
- 9.20. SIMAD s.r.l.
 - 9.20.1. Company Overview
 - 9.20.2. Company Snapshot
 - 9.20.3. Financial Overview
 - 9.20.4. Product Listing
 - 9.20.5. Entropy
- 10. KOL Views
- 11. PROJECT APPROACH
- 12. About DelveInsight
- 13. Disclaimer & Contact Us

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