

Global Arterial Cannula Market to Reach USD 40 Billion by 2033, registering a CAGR of 6.6% | FMI

Explore key insights on the Arterial Cannula Market, including growth trends, demand drivers, and forecasts from 2023 to 2033.

NEWARK, DE, UNITED STATES, April 25, 2025 /EINPresswire.com/ -- The global [arterial cannula](#) market has witnessed remarkable growth, reaching a market value of USD 21 billion in 2023. With a robust compound annual growth rate (CAGR) of 6.6%, this market is projected to expand significantly, reaching USD 40 billion by 2033. The rapid growth can be attributed to the increasing prevalence of cardiovascular diseases, advancements in medical technologies, and the growing demand for extracorporeal membrane oxygenation (ECMO) procedures, where arterial cannulas are essential.



“

Europe's National Health Strategy aims to reduce cardiovascular risks by promoting lifestyle changes, with a projected CAGR of 6.3% from 2023-2033.”

Sabyasachi Ghosh, Principal Consultant. Future Market Insights

Arterial cannulas are essential medical devices used to facilitate cardiopulmonary procedures, such as extracorporeal membrane oxygenation (ECMO) and cardiopulmonary bypass (CPB). During CPB, arterial cannulas are inserted into the ascending aorta to ensure continuous perfusion, maintaining adequate blood circulation during heart surgeries. These devices are typically made from biocompatible materials, including silicone, polyurethane, polyvinyl chloride (PVC), and other specialized materials designed for high performance and biocompatibility.

Arterial cannulas are essential medical devices used to facilitate cardiopulmonary procedures, such as extracorporeal membrane oxygenation (ECMO) and cardiopulmonary bypass (CPB). During CPB, arterial cannulas are inserted into the ascending aorta to ensure continuous perfusion, maintaining adequate blood circulation during heart surgeries. These devices are typically made from biocompatible materials, including silicone, polyurethane, polyvinyl chloride (PVC), and other specialized materials designed for high performance and biocompatibility.

specialized materials designed for high performance and biocompatibility.

Arterial cannulas market size and forecast: 2023-2030

<https://www.futuremarketinsights.com/report-sample#5245502d47422d3135393435>

Arterial cannulas are available in various sizes to suit different patient needs, with the 20-22 Fr size being particularly dominant due to its application in ECMO, which commands the largest share of the arterial cannula market. These devices are typically flexible and translucent, featuring hard or smooth plastic tips with a connection that facilitates easy attachment to perfusion equipment. A key feature of some arterial cannulas is wire reinforcement, which reduces the risk of kinking and ensures durability throughout the procedure.

Arterial cannulas market drivers

Several factors are driving the rapid expansion of the arterial cannula market. The most significant of these is the increasing prevalence of cardiovascular diseases (CVDs), which necessitate more frequent use of arterial cannulas for various heart surgeries, including bypass surgeries and ECMO procedures. According to the American Heart Association, nearly half of all individuals in the United States were affected by some form of cardiovascular disease in 2019, highlighting the rising demand for cardiovascular interventions. Furthermore, the Centers for Disease Control and Prevention (CDC) reported that approximately 20.1 million individuals aged 20 and older in the U.S. were living with coronary artery disease in 2020, making up about 7.2% of the adult population.

As the incidence of CVDs continues to rise globally, the need for procedures such as bypass surgeries, which rely on the use of arterial cannulas, is expected to grow. This, in turn, is fueling the demand for high-quality arterial cannulas in both developed and emerging markets. Another key driver of market growth is the increasing healthcare expenditure and advancements in medical facilities, especially in emerging economies. With improved access to healthcare services and the introduction of advanced medical technologies, countries in South Asia, East Asia, and Latin America are seeing an uptick in the use of arterial cannulas for critical cardiovascular procedures. Additionally, the growing prevalence of sedentary lifestyles, obesity, and associated heart conditions further contributes to the market's upward trajectory.

Arterial cannulas market challenges

Technological improvements in arterial cannula design are also accelerating market growth. Manufacturers are continuously innovating to improve the performance and ease of use of these devices. Newer innovations, such as moveable suture rings, tapered collars, and straight tips, are enhancing the functionality of arterial cannulas, making them more adaptable to a wider range of surgical scenarios. These advancements are expected to increase the adoption rate of arterial cannulas globally, particularly in emerging markets where there is a growing demand for cost-effective, high-quality medical devices.

Furthermore, the introduction of new devices and regulatory clearances by key players in the market is contributing to the expansion of the arterial cannula portfolio. Companies are focusing on the development of specialized products for niche applications, such as ECMO and other advanced perfusion techniques, which require specific arterial cannula designs.

Regional Market Outlook

1. Asia Pacific Market Outlook:

- o The Asia Pacific region is projected to experience substantial growth in the arterial cannula market, driven by advancements in healthcare, increasing government spending, and a rising population suffering from cardiovascular diseases and diabetes.
- o The aging population and an expanding patient pool are expected to fuel demand for arterial cannulas. Increased government efforts in rural areas and favorable healthcare laws will support market expansion.
- o The market in Asia Pacific is predicted to grow at a CAGR of 6.1% from 2023 to 2033.

2. North America Market Outlook:

- o North America, with its prominent market players and robust healthcare institutions, is poised for significant market growth.
- o The rise in lifestyle-related diseases, increased awareness of minimally invasive procedures, and the growing popularity of cosmetic surgeries are key drivers of market demand.
- o North America is expected to dominate the global arterial cannula market, growing at a CAGR of 6.5% from 2023 to 2033.

3. Europe Market Outlook:

- o Europe holds the second-largest market share, with factors such as an aging population, government initiatives, and favorable reimbursement policies contributing to growth.
- o The European Union's efforts to combat cardiovascular risks and promote healthier lifestyles will drive arterial cannula demand.
- o Europe is forecasted to grow at a CAGR of 6.3% from 2023 to 2033.

4. ECMO Segment Market Outlook:

- o The ECMO (Extracorporeal Membrane Oxygenation) segment is leading the market, due to the high incidence of cardiovascular and respiratory diseases. This segment is expected to continue its dominance in the coming years.
- o The ECMO segment's growth is attributed to the increasing prevalence of chronic lung diseases, such as COPD, and the rising need for lung failure treatment.

5. Future Market Trends and Outlook:

- o The hospital segment leads the arterial cannula market, benefiting from a high volume of procedures, experienced specialists, and advanced surgical instruments available in hospital settings.
- o The growing number of hospital admissions due to chronic diseases is expected to contribute significantly to the expansion of this segment during the forecast period.

For more information on the Arterial Cannula Market, visit our report: <https://www.futuremarketinsights.com/reports/arterial-cannula-market>

Arterial Cannula Market

The global arterial cannula market is highly competitive, with key players continuously engaging in strategic activities such as acquisitions, partnerships, and collaborations. These efforts are aimed at expanding market reach, increasing product portfolios, and strengthening their presence in key regions.

Some of the leading companies in the arterial cannula market include Medtronic, plc, LivaNova plc, Edwards Lifesciences, Getinge AB, Fresenius Medical Care, BD, Nipro Corporation, Andocor, Freelif Medical GmbH, Surgical Holdings, and Kangxin Medical. These companies are at the forefront of technological advancements and product development, offering a diverse range of arterial cannulas for various medical applications, including cardiopulmonary bypass surgeries and ECMO.

In a notable development, in April 2020, LivaNova plc received a CE mark for their Bi-Flow Extracorporeal Membrane Oxygenation (ECMO) cannula, which is specifically designed for ECMO treatments. This innovation allows femoral artery cannulation to be performed more effectively, showcasing the continued evolution of arterial cannulas in the medical field.

Arterial Cannula Market

The arterial cannula market is highly competitive, with key players continuously engaging in strategic activities such as acquisitions, partnerships, and collaborations. These efforts are aimed at expanding market reach, increasing product portfolios, and strengthening their presence in key regions.

1. Market Segmentation:

- o **ECMO (Extracorporeal Membrane Oxygenation):** As the largest application segment, ECMO is expected to continue driving the demand for arterial cannulas, especially for patients with severe cardiac and respiratory failure.
- o **CPB (Cardiopulmonary Bypass):** Arterial cannulas play a critical role in CPB surgeries, ensuring adequate blood flow during heart surgeries.
- o **Other Specialized Procedures:** This category includes other specialized procedures requiring arterial cannulas, such as vascular access and organ transplants.

□. □□ □□□□:

- o The most commonly used sizes for arterial cannulas are 20-22 Fr, which are particularly preferred for ECMO applications.
- o Other sizes, such as 14-16 Fr, 17-19 Fr, and 23-25 Fr, also cater to different patient needs depending on the type of procedure being performed.

□. □□ □□□-□□□:

- o □□□□□□□□□□: The largest end-user segment, hospitals are the primary setting for major surgeries requiring arterial cannulas.
- o □□□□□□□□□□ □□□□□□□□ □□□□□□□□: As outpatient surgeries increase in number, ambulatory centers are becoming an important end-use segment.
- o □□□□□□: This includes specialized clinics and surgical units in various healthcare settings.

□. □□ □□□□□□:

- o The arterial cannula market is analyzed across key regions, including North America, Latin America, Europe, South Asia, East Asia, Oceania, and the Middle East & Africa. North America holds the largest market share, followed by Europe and Asia-Pacific, where growing healthcare infrastructure and rising healthcare expenditure are expected to boost demand.

□□□ □□□□ □□□□□ □□ □□□□□□□□□□ □□□□□□ □□□□□□□□□□□□ □□□!

<https://www.futuremarketinsights.com/industry-analysis/therapeutic-device>

□□□□□□□□□□

The global arterial cannula market is poised for significant growth in the coming decade, driven by the increasing prevalence of cardiovascular diseases, technological innovations, and a growing demand for advanced medical procedures like ECMO and cardiopulmonary bypass surgeries. With a diverse range of applications and continuous advancements in device design, the arterial cannula market is set to expand substantially, offering substantial opportunities for market participants.

As the global healthcare landscape evolves, the arterial cannula market will continue to thrive, with leading players focusing on product innovations and strategic partnerships to maintain a competitive edge and cater to the growing needs of healthcare providers and patients worldwide.

□□□□□ □□□□□□ □□□□□□ □□□□□□□□□□ (□□□□)

Future Market Insights, Inc. (ESOMAR certified, recipient of the Stevie Award, and a member of

the Greater New York Chamber of Commerce) offers profound insights into the driving factors that are boosting demand in the market. FMI stands as the leading global provider of market intelligence, advisory services, consulting, and events for the Packaging, Food and Beverage, Consumer Technology, Healthcare, Industrial, and Chemicals markets. With a vast team of over 400 analysts worldwide, FMI provides global, regional, and local expertise on diverse domains and industry trends across more than 110 countries.

□□□□□□ □□

Future Market Insights Inc.
Christiana Corporate, 200 Continental Drive,
Suite 401, Newark, Delaware - 19713, USA
T: +1-347-918-3531
For Sales Enquiries: sales@futuremarketinsights.com
Website: <https://www.futuremarketinsights.com>
[LinkedIn](#) | [Twitter](#) | [Blogs](#) | [YouTube](#)

Ankush Nikam
Future Market Insights, Inc.
+91 90966 84197

[email us here](#)

Visit us on social media:

[LinkedIn](#)

[Facebook](#)

[YouTube](#)

[X](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/806491199>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.