

Micro Catheters Market Forecasts to 2030 – Global Analysis By Product Type (Single Lumen, Dual Lumen, Triple Lumen, Multidirectional and Other Product Types), Material Type, Procedure, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Micro Catheters Market is accounted for \$2.1 billion in 2024 and is expected to reach \$3.1 billion by 2030 growing at a CAGR of 6.5% during the forecast period. Micro catheters are small, flexible tubes used in medical procedures to deliver treatments or collect samples from specific areas within the body. Typically measuring less than 2 millimeters in diameter, they are designed for precision access to narrow or hard-to-reach areas, such as blood vessels or the nervous system. Micro catheters are commonly used in interventional radiology, cardiology, and neurology for procedures like embolization, biopsy, or drug delivery, offering minimal invasiveness and improved patient outcomes.

According to the WORLD HEART REPORT 2023, over half a billion people worldwide were affected by cardiovascular diseases, which caused 20.5 million deaths in 2021, accounting for nearly a third of all global deaths. This marked an increase from the previous estimate of 121 million CVD-related deaths, emphasizing the growing global health crisis.

Market Dynamics:

Driver:

Increasing prevalence of chronic diseases

The increasing prevalence of chronic diseases, such as cardiovascular conditions, diabetes, and neurological disorders, is driving the demand for market. These advanced devices enable minimally invasive procedures, offering benefits like faster recovery and reduced complications. As the aging population grows and the incidence of chronic diseases rises globally, the micro catheter market is expanding, with these devices playing a crucial role in improving patient outcomes and enhancing treatment efficiency.

Restraint:

Product failures and recalls

Product failures and recalls in the market can have severe negative effects, including diminished consumer trust, reduced market share, and increased regulatory scrutiny. Such incidents may lead to financial losses for manufacturers due to compensation costs and lawsuits, alongside potential disruptions in the supply chain. Furthermore, safety concerns raised by product defects could discourage healthcare professionals from using these devices, hampering market growth and innovation.

Opportunity:

Rising preference for minimally invasive procedures

Rising preference for minimally invasive procedures is significantly boosting the market. Patients and healthcare professionals increasingly favor these techniques due to their benefits, such as shorter recovery times, reduced risk of infections, and fewer traumas compared to traditional surgeries. Micro catheters, enabling precise and targeted treatments, align with this trend, offering enhanced procedural efficiency. As demand for less invasive solutions grows, micro catheters play a critical role in advancing modern medical practices.

Threat:

Lack of skilled professionals

The lack of skilled professionals in the market poses a significant challenge, as it can hinder the effective use and adoption of these advanced medical devices. Inadequate training or expertise may lead to improper procedures, increased risk of complications, and suboptimal patient outcomes. This skills gap also limits the potential for innovation

and expansion in the market, slowing the growth of minimally invasive treatments and potentially reducing healthcare efficiency.

Covid-19 Impact:

The COVID-19 pandemic negatively impacted the market, causing delays in elective procedures and disruptions in the global supply chain. Hospitals prioritized urgent care, leading to a decline in demand for non-emergency treatments. Additionally, restrictions on travel and international trade affected the distribution of medical devices. However, the pandemic also accelerated the adoption of telemedicine and remote monitoring, which may indirectly drive future demand for minimally invasive procedures like those involving micro catheters.

The single lumen segment is expected to be the largest during the forecast period

The single lumen segment is expected to account for the largest market share during the projection period. Their simplicity and compact design make them ideal for minimally invasive treatments, offering precise access to target areas, especially in procedures like angioplasty or neurovascular interventions. The growing demand for these catheters is driven by their effectiveness in reducing patient recovery time, minimizing complications, and enabling efficient treatment of various chronic conditions.

The neurovascular segment is expected to have the highest CAGR during the forecast period

The neurovascular segment is expected to have the highest CAGR during the extrapolated period as these devices are crucial for treating conditions like aneurysms, strokes. Micro catheters allow for precise navigation through delicate neurovascular pathways, enabling minimally invasive treatments. Their growing use in neurovascular interventions is driven by advancements in catheter design, improving patient outcomes, reducing recovery time, and offering safer alternatives to traditional surgical methods.

Region with largest share:

North America region is projected to account for the largest market share during the forecast period driven by advancements in healthcare infrastructure and increasing demand for minimally invasive procedures. The region's strong healthcare system, coupled with technological innovations in micro catheter designs, supports market

expansion. Furthermore, the region's aging population and high healthcare expenditure contribute to the growing demand for these devices, making it a key market for micro catheter manufacturers.

Region with highest CAGR:

Asia Pacific is expected to register the highest growth rate over the forecast period. The expanding healthcare infrastructure, especially in emerging markets, is improving patient access to advanced medical treatments. This is also leading to greater awareness of the benefits of minimally invasive procedures. Additionally, ongoing developments in micro catheter designs, such as improved flexibility, durability, and steerability, have made these devices more effective in treating a wide range of conditions, further driving their adoption.

Key players in the market

Some of the key players in Micro Catheters market include Abbott Laboratories, Medtronic, Johnson & Johnson, Boston Scientific, Terumo Corporation, Stryker Corporation, Cardinal Health, Teleflex Incorporated, Philips Healthcare, Penumbra, Inc., Biotronik, Smith & Nephew, Cook Group, Lumenis, Fujifilm Holdings Corporation and MicroVention, Inc.

Key Developments:

In June 2024, MicroVention, Inc. (Terumo Corporation) launched the LVIS EVO, a next-generation coil-assist intracranial stent, in the U.S. It treats wide-neck intracranial aneurysms. It offers enhanced precision and flexibility for neurovascular procedures.

In February 2024, BIOTRONIK and IMDS introduced the Micro RX catheter, a highly flexible microcatheter designed for complex coronary interventions. The catheter enhances precision during procedures, offering greater navigation capabilities in challenging anatomies. Its improved design facilitates optimal performance for clinicians performing intricate vascular procedures.

Product Types Covered:

Single Lumen

Dual Lumen

Triple Lumen

Multidirectional

Other Product Types

Material Types Covered:

Polyurethane (PU)

Nylon

Polyethylene (PE)

Silicone

Other Material Types

Procedures Covered:

Diagnostic

Therapeutic

Interventional

Oncology

Neurovascular

Cardiovascular

Pulmonary

Other Procedures

End Users Covered:

Hospitals

Ambulatory Surgical Centers (ASCs)

Specialized Clinics

Diagnostic Centers

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments

Micro Catheters Market Forecasts to 2030 – Global Analysis By Product Type (Single Lumen, Dual Lumen, Triple L...

- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

2 PREFACE

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
 - 2.4.1 Data Mining
 - 2.4.2 Data Analysis
 - 2.4.3 Data Validation
 - 2.4.4 Research Approach
- 2.5 Research Sources
 - 2.5.1 Primary Research Sources
 - 2.5.2 Secondary Research Sources
 - 2.5.3 Assumptions

3 MARKET TREND ANALYSIS

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Product Analysis
- 3.7 End User Analysis
- 3.8 Emerging Markets
- 3.9 Impact of Covid-19

4 PORTERS FIVE FORCE ANALYSIS

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

5 GLOBAL MICRO CATHETERS MARKET, BY PRODUCT TYPE

- 5.1 Introduction
- 5.2 Single Lumen
- 5.3 Dual Lumen
- 5.4 Triple Lumen
- 5.5 Multidirectional
- 5.6 Other Product Types

6 GLOBAL MICRO CATHETERS MARKET, BY MATERIAL TYPE

- 6.1 Introduction
- 6.2 Polyurethane (PU)
- 6.3 Nylon
- 6.4 Polyethylene (PE)
- 6.5 Silicone
- 6.6 Other Material Types

7 GLOBAL MICRO CATHETERS MARKET, BY PROCEDURE

- 7.1 Introduction
- 7.2 Diagnostic
- 7.3 Therapeutic
- 7.4 Interventional
- 7.5 Oncology
- 7.6 Neurovascular
- 7.7 Cardiovascular
- 7.8 Pulmonary
- 7.9 Other Procedures

8 GLOBAL MICRO CATHETERS MARKET, BY END USER

- 8.1 Introduction
- 8.2 Hospitals
- 8.3 Ambulatory Surgical Centers (ASCs)
- 8.4 Specialized Clinics
- 8.5 Diagnostic Centers
- 8.6 Other End Users

9 GLOBAL MICRO CATHETERS MARKET, BY GEOGRAPHY

- 9.1 Introduction
- 9.2 North America
 - 9.2.1 US
 - 9.2.2 Canada
 - 9.2.3 Mexico
- 9.3 Europe
 - 9.3.1 Germany
 - 9.3.2 UK
 - 9.3.3 Italy
 - 9.3.4 France
 - 9.3.5 Spain
 - 9.3.6 Rest of Europe
- 9.4 Asia Pacific
 - 9.4.1 Japan
 - 9.4.2 China
 - 9.4.3 India
 - 9.4.4 Australia
 - 9.4.5 New Zealand
 - 9.4.6 South Korea
 - 9.4.7 Rest of Asia Pacific
- 9.5 South America
 - 9.5.1 Argentina
 - 9.5.2 Brazil
 - 9.5.3 Chile
 - 9.5.4 Rest of South America
- 9.6 Middle East & Africa
 - 9.6.1 Saudi Arabia
 - 9.6.2 UAE
 - 9.6.3 Qatar
 - 9.6.4 South Africa
 - 9.6.5 Rest of Middle East & Africa

10 KEY DEVELOPMENTS

- 10.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 10.2 Acquisitions & Mergers
- 10.3 New Product Launch

10.4 Expansions

10.5 Other Key Strategies

11 COMPANY PROFILING

11.1 Abbott Laboratories

11.2 Medtronic

11.3 Johnson & Johnson

11.4 Boston Scientific

11.5 Terumo Corporation

11.6 Stryker Corporation

11.7 Cardinal Health

11.8 Teleflex Incorporated

11.9 Philips Healthcare

11.10 Penumbra, Inc.

11.11 Biotronik

11.12 Smith & Nephew

11.13 Cook Group

11.14 Lumenis

11.15 Fujifilm Holdings Corporation

11.16 MicroVention, Inc.

List Of Tables

LIST OF TABLES

- Table 1 Global Micro Catheters Market Outlook, By Region (2022-2030) (\$MN)
- Table 2 Global Micro Catheters Market Outlook, By Product Type (2022-2030) (\$MN)
- Table 3 Global Micro Catheters Market Outlook, By Single Lumen (2022-2030) (\$MN)
- Table 4 Global Micro Catheters Market Outlook, By Dual Lumen (2022-2030) (\$MN)
- Table 5 Global Micro Catheters Market Outlook, By Triple Lumen (2022-2030) (\$MN)
- Table 6 Global Micro Catheters Market Outlook, By Multidirectional (2022-2030) (\$MN)
- Table 7 Global Micro Catheters Market Outlook, By Other Product Types (2022-2030) (\$MN)
- Table 8 Global Micro Catheters Market Outlook, By Material Type (2022-2030) (\$MN)
- Table 9 Global Micro Catheters Market Outlook, By Polyurethane (PU) (2022-2030) (\$MN)
- Table 10 Global Micro Catheters Market Outlook, By Nylon (2022-2030) (\$MN)
- Table 11 Global Micro Catheters Market Outlook, By Polyethylene (PE) (2022-2030) (\$MN)
- Table 12 Global Micro Catheters Market Outlook, By Silicone (2022-2030) (\$MN)
- Table 13 Global Micro Catheters Market Outlook, By Other Material Types (2022-2030) (\$MN)
- Table 14 Global Micro Catheters Market Outlook, By Procedure (2022-2030) (\$MN)
- Table 15 Global Micro Catheters Market Outlook, By Diagnostic (2022-2030) (\$MN)
- Table 16 Global Micro Catheters Market Outlook, By Therapeutic (2022-2030) (\$MN)
- Table 17 Global Micro Catheters Market Outlook, By Interventional (2022-2030) (\$MN)
- Table 18 Global Micro Catheters Market Outlook, By Oncology (2022-2030) (\$MN)
- Table 19 Global Micro Catheters Market Outlook, By Neurovascular (2022-2030) (\$MN)
- Table 20 Global Micro Catheters Market Outlook, By Cardiovascular (2022-2030) (\$MN)
- Table 21 Global Micro Catheters Market Outlook, By Pulmonary (2022-2030) (\$MN)
- Table 22 Global Micro Catheters Market Outlook, By Other Procedures (2022-2030) (\$MN)
- Table 23 Global Micro Catheters Market Outlook, By End User (2022-2030) (\$MN)
- Table 24 Global Micro Catheters Market Outlook, By Hospitals (2022-2030) (\$MN)
- Table 25 Global Micro Catheters Market Outlook, By Ambulatory Surgical Centers (ASCs) (2022-2030) (\$MN)
- Table 26 Global Micro Catheters Market Outlook, By Specialized Clinics (2022-2030) (\$MN)
- Table 27 Global Micro Catheters Market Outlook, By Diagnostic Centers (2022-2030) (\$MN)

Table 28 Global Micro Catheters Market Outlook, By Other End Users (2022-2030)
(\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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