

Global Ultra-High Pressure Balloon Catheter Market Size study, by Use (Diagnostic, Therapeutic), by Material (Nylon, Polyester), by Application (Cardiology, Urology, Nephrology, Others), by End Use (Hospitals, Ambulatory Surgical Centers, Specialty Clinics, Others) and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/GD7713F7AA30EN.html>

Date: March 2025

Pages: 285

Price: US\$ 3,218.00 (Single User License)

ID: GD7713F7AA30EN

Abstracts

The Global Ultra-High Pressure Balloon Catheter Market is valued at approximately USD 414.73 million in 2023 and is anticipated to grow with a healthy growth rate of more than 9.42% over the forecast period 2024-2032. The rising prevalence of cardiovascular diseases, increasing preference for minimally invasive procedures, and advancements in catheter material technology are key factors propelling market growth. These high-pressure catheters play a crucial role in treating coronary artery disease (CAD) and peripheral arterial disease (PAD) through precise and effective vascular interventions. Their robust design enables superior performance in angioplasty and stent placement procedures, making them indispensable tools in interventional cardiology and other medical fields.

The growing burden of cardiovascular diseases worldwide is a significant driver of the market. According to the World Health Organization (WHO), cardiovascular diseases are the leading cause of death globally, responsible for around 17.9 million deaths annually. Additionally, the increasing number of percutaneous coronary interventions (PCI) worldwide has boosted the demand for ultra-high-pressure balloon catheters. For instance, a Eurostat report (2021) indicated that over 1.1 million coronary angioplasty procedures were performed in 25 European Union countries, reflecting the increasing reliance on such procedures for effective treatment. Moreover, the rising incidence of

diabetes and obesity, which contribute to vascular complications, has further accelerated market expansion.

The market is witnessing rapid technological advancements, particularly in catheter materials and design. Companies are developing high-strength, ultra-thin materials capable of withstanding pressures up to 30 atm without rupturing. Innovations such as drug-coated balloons and hybrid balloon catheters integrating drug delivery mechanisms are gaining traction, offering improved patient outcomes. Additionally, regulatory approvals from entities like the FDA and EMA are streamlining product launches and enhancing accessibility. For instance, in March 2022, SIS Medical AG received FDA approval for its OPN NC Super High Pressure PTCA Balloon Catheter, further solidifying its position in the U.S. market.

Regionally, North America dominates the market, accounting for 40.21% of global revenue in 2024, driven by a strong presence of leading manufacturers, advanced healthcare infrastructure, and high adoption rates of minimally invasive procedures. In the Asia-Pacific region, the market is expected to grow at the fastest pace due to rising healthcare investments, increasing prevalence of cardiovascular diseases, and improving medical infrastructure. Meanwhile, Europe remains a key market, with Germany, the UK, and France leading in coronary angioplasty procedures and innovative medical device adoption. The Latin American and Middle Eastern & African (MEA) regions are also witnessing steady growth due to expanding healthcare access and rising awareness about cardiovascular health.

Major market players included in this report are:

Boston Scientific Corporation

BD

Terumo Medical Corporation

SIS Medical AG

Merit Medical Systems

BrosMed Medical Co., Ltd

TT Medical

Zhejiang Barty Medical Technology Co., Ltd

Medtronic plc

Abbott Laboratories

Cordis Corporation

MicroPort Scientific Corporation

Endologix LLC

Biotronik SE & Co. KG

Cardinal Health, Inc.

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

By Use:

Diagnostic

Therapeutic

By Material:

Nylon

Polyester

By Application:

Cardiology

Urology

Nephrology

Others

By End Use:

Hospitals

Ambulatory Surgical Centers (ASCs)

Specialty Clinics

Others

By Region:

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Italy

Spain

Sweden

Denmark

Norway

Asia Pacific

China

Japan

India

South Korea

Australia

Thailand

Latin America

Brazil

Argentina

Middle East & Africa (MEA)

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 insights for major regions.

Competitive landscape analysis, company profiling, and business strategy assessment.

Insights into key business strategies and recommendations for future market expansion.

Demand-side and supply-side analysis of the global ultra-high pressure balloon catheter market.

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