

Global Medical Hollow Fiber Membrane Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Medical Hollow Fiber Membrane Module market size is expected to reach \$ 572 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

A Medical Hollow Fiber Membrane Module is a compact, sterile medical device consisting of thousands of bundled, semi-permeable hollow fiber membranes encased in a rigid housing, engineered for precise molecular/cellular separation in clinical and biopharmaceutical applications. It features micron-scale fiber walls and nanometer-scale pores, with tailored molecular weight cut-off (MWCO) values, and must meet strict biocompatibility, sterility, and mechanical integrity standards. It enables selective filtration, dialysis, or gas exchange for blood purification, bioprocessing, and organ support systems, offering high surface-area-to-volume ratios for efficient mass transfer.

In 2025, global Medical Hollow Fiber Membrane Module production reached approximately 547 K units, with an average global market price of around US\$ 720 per unit. The production capacity of Medical Hollow Fiber Membrane Module is approximately 692 K units per year, the average gross profit margin was 28-31%.

The upstream supply chain encompasses suppliers of high-purity medical-grade polymeric raw materials (e.g., polysulfone, polyethersulfone, PVDF), solvents, hydrophilic modifiers, and medical-grade housing resins, alongside manufacturers of precision spinning equipment, module assembly machinery, and sterilization systems. Downstream, finished modules are supplied to medical device OEMs (for hemodialyzers, oxygenators), biopharmaceutical companies (for TFF processes), hospital/clinic purchasing departments, and specialized medical distributors, ultimately

serving end-users in dialysis centers, ICUs, and biomanufacturing facilities.

The cost structure is dominated by material costs, accounting for 50%-60% of total production costs, with hollow fiber membrane materials (30%-40%) and medical-grade housing/encapsulation resins (15%-20%) as the largest components. Manufacturing costs (25%-30%) include precision fiber spinning, automated module assembly, and validated sterilization (gamma/E-beam), while R&D (for biocompatibility and performance optimization), regulatory compliance, quality control testing, and logistics contribute 10%-15% of total costs. High regulatory barriers and low production yields for premium modules further impact unit costs.

This report studies the global Medical Hollow Fiber Membrane Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Medical Hollow Fiber Membrane Module and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Medical Hollow Fiber Membrane Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Medical Hollow Fiber Membrane Module total production and demand, 2021-2032, (K Units)

Global Medical Hollow Fiber Membrane Module total production value, 2021-2032, (USD Million)

Global Medical Hollow Fiber Membrane Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Medical Hollow Fiber Membrane Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Medical Hollow Fiber Membrane Module domestic production, consumption, key domestic manufacturers and share

Global Medical Hollow Fiber Membrane Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Medical Hollow Fiber Membrane Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Medical Hollow Fiber Membrane Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Medical Hollow Fiber Membrane Module market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 3M (Membrana), Asahi Kasei Corporation, PARKER HANNIFIN CORP., Hangzhou Cobetter, Chengdu Mopu Bio-Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Medical Hollow Fiber Membrane Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Medical Hollow Fiber Membrane Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Medical Hollow Fiber Membrane Module Market, Segmentation by Type:

PMP Hollow Fiber Membrane Module

PES Hollow Fiber Membrane Module

Others

Global Medical Hollow Fiber Membrane Module Market, Segmentation by Flow Configuration:

Internal?Pressure Module

External?Pressure Module

Dialysis Module

Global Medical Hollow Fiber Membrane Module Market, Segmentation by Application:

Hemodialysis Treatment

Blood Purification

Extracorporeal Membrane Oxygenation

Other

Companies Profiled:

3M (Membrana)

Asahi Kasei Corporation

PARKER HANNIFIN CORP.

Hangzhou Cobetter

Chengdu Mopu Bio-Technology

Key Questions Answered:

1. How big is the global Medical Hollow Fiber Membrane Module market?
2. What is the demand of the global Medical Hollow Fiber Membrane Module market?
3. What is the year over year growth of the global Medical Hollow Fiber Membrane Module market?
4. What is the production and production value of the global Medical Hollow Fiber Membrane Module market?
5. Who are the key producers in the global Medical Hollow Fiber Membrane Module market?
6. What are the growth factors driving the market demand?

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