

Global Closed Shake Flask System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Closed Shake Flask System market size was valued at US\$ 132 million in 2025 and is forecast to a readjusted size of US\$ 190 million by 2032 with a CAGR of 5.4% during review period.

In 2025, the global annual production capacity of closed shake flask systems was approximately 95,000 units, with an actual output of about 80,000 units. The global average selling price was around USD 1,600 per unit, and the gross profit margin of leading suppliers ranged from 40% to 60%. A Closed Shake Flask System is a sealed, sterile culture vessel system used in microbial and cell culture applications. It integrates gas exchange membranes, aseptic connectors, and leak-proof closures to enable safe shaking incubation while minimizing contamination risks.

Upstream components include medical-grade plastics, gas-permeable membranes, sterile connectors, and injection-molded closures. Midstream manufacturers focus on precision molding, membrane integration, leak testing, and gamma or ETO sterilization, with major production bases in the US, Europe, and China. Downstream, closed shake flask systems are widely used in biopharmaceutical R&D, process development, cell line screening, and early-stage fermentation. End users emphasize sterility assurance, oxygen transfer efficiency, scalability, and compatibility with automated incubator shakers.

The closed shake flask system market is growing steadily as biopharmaceutical companies increase investment in early-stage R&D and single-use technologies. Compared with traditional open shake flasks, closed systems offer superior contamination control, regulatory compliance, and operational safety. The rise of

biologics, cell and gene therapy, and high-throughput screening accelerates demand for standardized, scalable, and automation-friendly culture tools. Technological trends include improved gas-exchange membranes, integrated aseptic sampling ports, and compatibility with digital incubation platforms. Leading suppliers differentiate through sterility assurance, ease of use, and portfolio integration with broader single-use bioprocess solutions.

This report is a detailed and comprehensive analysis for global Closed Shake Flask System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Closed Shake Flask System market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Closed Shake Flask System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Closed Shake Flask System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Closed Shake Flask System market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Closed Shake Flask System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Closed Shake Flask System market based on the following parameters - company overview, sales quantity, revenue, price, gross

margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Corning, Thermo Fisher Scientific, Eppendorf, Sartorius, Merck Millipore, Greiner Bio-One, DWK Life Sciences, Kuhner Shaker, Gmp Plastic, Boenmed, etc.

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

Market Segmentation

Closed Shake Flask System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Glass Shake Flask System

Plastic Shake Flask System (PC / PETG)

Market segment by Volume Capacity

Small-Volume Shake Flask System

Medium-Volume Shake Flask System

Large-Volume Shake Flask System

Market segment by Application

Biopharmaceutical R&D Laboratory

Biotechnology Company

Others

Major players covered

Corning

Thermo Fisher Scientific

Eppendorf

Sartorius

Merck Millipore

Greiner Bio-One

DWK Life Sciences

Kuhner Shaker

Gmp Plastic

Boenmed

Jet-biofil

Cell-nest

King-bio

Y?C scientific

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Closed Shake Flask System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Closed Shake Flask System, with price, sales quantity, revenue, and global market share of Closed Shake Flask System from 2021 to 2026.

Chapter 3, the Closed Shake Flask System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Closed Shake Flask System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Closed Shake Flask System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Closed Shake Flask System.

Chapter 14 and 15, to describe Closed Shake Flask System sales channel, distributors, customers, research findings and conclusion.

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