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Global Closed Shake Flask System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Closed Shake Flask System market size is expected to reach $ 190 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

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 studies the global Closed Shake Flask System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Closed Shake Flask System 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 Closed Shake Flask System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Closed Shake Flask System total production and demand, 2021-2032, (K Units)
Global Closed Shake Flask System total production value, 2021-2032, (USD Million)
Global Closed Shake Flask System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Closed Shake Flask System consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Closed Shake Flask System domestic production, consumption, key domestic manufacturers and share
Global Closed Shake Flask System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Closed Shake Flask System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Closed Shake Flask System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Closed Shake Flask System 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 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,

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new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Closed Shake Flask System 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 Closed Shake Flask System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Closed Shake Flask System Market, Segmentation by Type:

Glass Shake Flask System

Plastic Shake Flask System (PC / PETG)

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Global Closed Shake Flask System Market, Segmentation by Volume Capacity:

Small-Volume Shake Flask System

Medium-Volume Shake Flask System

Large-Volume Shake Flask System

Global Closed Shake Flask System Market, Segmentation by Application:

Biopharmaceutical R&D Laboratory

Biotechnology Company

Others

Companies Profiled:

Corning

Thermo Fisher Scientific

Eppendorf

Sartorius

Merck Millipore

Greiner Bio-One

DWK Life Sciences

Kuhner Shaker

Gmp Plastic

Boenmed

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Jet-biofil

Cell-nest

King-bio

Y&C scientific

Key Questions Answered:

1. How big is the global Closed Shake Flask System market?
2. What is the demand of the global Closed Shake Flask System market?
3. What is the year over year growth of the global Closed Shake Flask System market?
4. What is the production and production value of the global Closed Shake Flask System market?
5. Who are the key producers in the global Closed Shake Flask System market?
6. What are the growth factors driving the market demand?

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