

Automated Cell Shakers Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Automated Cell Shakers, Orbital Shakers, Benchtop Incubator Shakers, Cell Shaker with Rotatory Arms, Accessories, Others), By Application (Drug Development, Regenerative Medicine, Cell Therapy, Stem Cell Research), By End User (Pharmaceutical Companies, Biopharmaceutical Companies, CDMOs & CMOs, Hospitals, Others), By Region and Competition, 2020-2030F

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Abstracts

Market Overview

The Global Automated Cell Shakers Market was valued at USD 701.21 million in 2024 and is projected to reach USD 1,058.56 million by 2030, growing at a CAGR of 7.08% during the forecast period. Market growth is being fueled by rising investments in laboratory automation and bioprocessing technologies. Automated cell shakers are integral to enhancing consistency and efficiency in workflows such as microbial fermentation, protein expression, and cell culture. The expanding biopharmaceutical sector—particularly in scaling biologics production—and increased demand from academic and research institutions for high-throughput screening are key growth drivers. Favorable government funding in life sciences, along with the growing focus on personalized medicine and regenerative therapies, is supporting the adoption of advanced shakers equipped with temperature regulation, contamination control, and precision agitation. These innovations are enabling reproducible and GMP-compliant

cell culture environments essential for next-generation therapies and drug development.

Key Market Drivers

Growing Demand for Biopharmaceuticals and Cell-Based Therapies

The increasing need for biopharmaceuticals and cell-based treatments is a major growth driver in the Global Automated Cell Shakers Market. In the U.S., biopharma venture capital surged to USD 27 billion in 2024, up from USD 23.2 billion in 2023, reflecting ongoing investment in biologics, gene therapies, and other advanced therapeutics. These therapies demand controlled and reproducible cell culture processes, which automated shakers facilitate by offering consistent agitation, gas exchange, and temperature control. This ensures the viability and quality of cells under GMP standards. Cell-based applications like CAR T therapy and stem cell expansion rely on delicate culturing conditions. For instance, the FDA's 2024 approval of lifileucel for melanoma underscores the growing relevance of cell therapies. Automated shakers minimize contamination risk and human error while enabling scale-up, enhancing operational efficiency, and reducing time to market.

Key Market Challenges

High Capital Investment and Operating Costs

A significant hurdle in the Global Automated Cell Shakers Market is the high upfront and operational costs associated with advanced equipment. Features such as programmable controls, integrated environmental systems, and smart connectivity elevate production and retail prices. This presents challenges for smaller labs, universities, and early-stage biotech firms that may lack the financial resources to invest in such systems. The need for multiple units in parallel processes further escalates cost concerns. Operational challenges include routine calibration, preventative maintenance, and occasional specialized servicing. Downtime from equipment failure can disrupt time-sensitive workflows and generate unexpected expenses. Additionally, personnel may require technical training or vendor certification to manage these complex systems. In incubated models, high energy consumption further increases long-term utility costs. Limited technical support in certain regions may prolong repair times, affecting equipment lifespan and operational continuity.

Key Market Trends

Smart Connectivity & Digital Integration

A key trend in the Global Automated Cell Shakers Market is the adoption of smart connectivity and digital integration, turning conventional lab devices into intelligent systems. The inclusion of IoT, cloud computing, and advanced software is enabling real-time data monitoring, remote control, and automated record keeping. These features allow researchers to optimize culture conditions, detect deviations, and improve reproducibility. Integration with LIMS (Laboratory Information Management Systems) streamlines data workflows, minimizes manual entry errors, and supports regulatory documentation, especially in GMP environments. Cloud-based accessibility enables remote oversight of shaker performance, including speed, temperature, and culture metrics. Predictive maintenance powered by operational data analytics alerts users to potential issues before failures occur, thereby reducing downtime and maintenance costs. This transformation enhances lab efficiency and ensures long-term reliability.

Key Market Players

Thermo Fisher Scientific Inc.

Eppendorf AG

Ohaus Corporation

Benchmark Scientific

Corning Incorporated

Grant Instruments

Kuhner Shaker

Infors AG

Boekel Scientific

VELP Scientifica Srl

Report Scope:

In this report, the Global Automated Cell Shakers Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Automated Cell Shakers Market, By Product:

- Automated Cell Shakers
- Orbital Shakers
- Benchtop Incubator Shakers
- Cell Shaker with Rotatory Arms
- Accessories
- Others

Automated Cell Shakers Market, By Application:

- Drug Development
- Regenerative Medicine
- Cell Therapy
- Stem Cell Research

Automated Cell Shakers Market, By End User:

- Pharmaceutical Companies
- Biopharmaceutical Companies

CDMOs & CMOs

Hospitals

Others

Automated Cell Shakers Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Automated Cell Shakers Market.

Available Customizations:

Global Automated Cell Shakers Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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