

Global Lung Function Instrument Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Lung Function Instrument market size is expected to reach \$ 262 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Lung function instrument refers to a category of medical devices used to detect and assess human respiratory function status, serving as the core standard for diagnosing chronic airway diseases. Its core function involves collecting and analyzing parameters such as the volume and flow of inhaled and exhaled air during different breathing maneuvers, thereby evaluating airway patency, lung capacity, and the subtle mechanical properties of small airways. Lung function instruments primarily include product types such as spirometers, body plethysmographs, impulse oscillometry systems, and diffusion capacity testers. Based on device configuration, they can be divided into two categories: portable lung function instruments, suitable for primary care screening and bedside testing, and pulmonary function testing systems, which typically integrate more functional modules for comprehensive diagnosis in large hospitals or health examination centers. From an industrial value perspective, lung function instruments serve not only as critical tools for early detection and intervention of chronic respiratory diseases such as chronic obstructive pulmonary disease and asthma, but also as important infrastructure for assessing anesthesia surgical risks, monitoring occupational disease-related lung function impairment, and guiding respiratory rehabilitation therapy. With the enormous screening demand generated by approximately 100 million COPD patients and 45.7 million adult asthma patients in China, the strategic position of lung function instruments within the public health system is becoming increasingly prominent.

Opportunities and Key Drivers

According to World Health Organization data, COPD has become the third leading cause of death globally, with 90 percent of COPD deaths in low- and middle-income countries occurring among people under 70. Although over half of primary care institutions in China have been equipped with lung function instruments, both penetration rates and usage quality require improvement, prompting national advocacy for lung function testing to become as routine as blood pressure measurement. On the technological innovation front, Chongqing Ancute Technology, in collaboration with Chongqing University, has achieved a breakthrough with the world's first '8-in-1' multifrequency impulse oscillometry ultrasonic lung function testing device, controlling error rates within 1 percent. This device completes testing with just two minutes of tidal breathing without requiring forced exhalation, accommodating populations ranging from 2-kilogram infants to the elderly. In the U.S. market, portable pulmonary function testing systems are experiencing significant growth due to cost advantages and standardized measurement capabilities, with VYAIRE MEDICAL's Vyntus series receiving FDA approval in 2019. At the policy level, the 15th Five-Year Plan of Chongqing Municipality explicitly supports the industrialization of innovative medical devices and promotes collaborative research among industry, academia, and medical institutions.

Market Challenges and Risks

Primary care promotion faces three major difficulties: correct usage rates of equipped instruments in primary institutions require improvement due to insufficient physician knowledge of lung function; quality control compliance rates remain low, with inadequate quality monitoring leading to unreliable results and non-standardized reports; and patient cooperation needs enhancement, as some individuals struggle with forced exhalation techniques. Traditional devices also have technological limitations: differential pressure-type devices tend to be inaccurate at high flow rates, thermal-type devices are significantly affected by environmental temperature, and turbine-type devices suffer from rapid wear and insufficient precision due to reliance on physical rotation. Cross-infection risks similarly constrain market adoption, particularly in the post-pandemic era, imposing higher requirements for disposable components and antibacterial design of respiratory circuits and mouthpieces. While asthma cases in the United States increased from 24.9 million in 2021 to 26.0 million in 2022, healthcare reimbursement pressures and policy uncertainties continue to affect equipment procurement pace.

Downstream Demand Trends

At the clinical level, the pursuit of detection precision continues to intensify, with the

integration of ultrasonic technology and impulse oscillometry enabling simultaneous measurement of ventilation function and airway resistance, facilitating early identification of small airway disease. The primary care market is experiencing surging demand for portable, easy-to-use, and cost-controllable devices, with a multi-tiered product matrix ranging from thousands to hundreds of thousands of yuan adapting to different scenarios from township health centers to tertiary specialized hospitals. Patient experience has become an important consideration, with new technologies requiring only tidal breathing to complete testing, significantly lowering the cooperation threshold. The trend toward out-of-hospital care is accelerating the release of home care demand, with Ancute Technology planning to develop consumer-grade portable lung function instruments as ubiquitous as blood pressure monitors and glucose meters, potentially making complex testing accessible in home settings. AI-assisted decision-making systems are beginning to empower the entire process of diagnosis, treatment, and management, achieving early warning and remote patient monitoring through machine learning analysis of breathing patterns.

Regional Trends

North America holds a dominant market share, with the U.S. market reaching \$58.4 million in 2022, driven by rising asthma prevalence and increased awareness of early diagnosis, with domestic enterprises including VYAIR, MGC, and KoKo PFT leading high-end equipment innovation. The European market, relying on precision manufacturing enterprises such as ndd and COSMED, maintains traditional advantages in differential pressure and ultrasonic technologies, with stringent clinical evidence requirements driving equipment standardization. The Asia-Pacific region exhibits the most dynamic growth, with Chinese domestic enterprises transitioning from technology followers to independent research and development. Ancute Technology achieved nearly 20 million yuan in output value in 2025, with overseas markets accounting for two-thirds of sales and products exported to more than 30 countries. Emerging markets such as India are gradually releasing demand for cost-effective basic lung function instruments, driven by large patient populations and international aid programs.

This report studies the global Lung Function Instrument production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lung Function Instrument 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 Lung Function Instrument that

contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Lung Function Instrument total production and demand, 2021-2032, (Units)

Global Lung Function Instrument total production value, 2021-2032, (USD Million)

Global Lung Function Instrument production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Lung Function Instrument consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Lung Function Instrument domestic production, consumption, key domestic manufacturers and share

Global Lung Function Instrument production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Lung Function Instrument production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Lung Function Instrument production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Lung Function Instrument 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 SDI Diagnostics, Jones Medical Instrument, Futuremed, CMI Health, CAIRE, Benson Medical, Vitalograph, Schiller, ndd Medical, Sibelmed, 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 Lung Function Instrument market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (USD/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 Lung Function Instrument Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lung Function Instrument Market, Segmentation by Type:

Differential Pressure

Ultrasonic Flow

Hot-Wire

Turbine

Global Lung Function Instrument Market, Segmentation by Measurement Function:

Spirometry

Lung Volumes

Exhaled Gas Analysis

Maximal Respiratory Pressures

Global Lung Function Instrument Market, Segmentation by Patient Population:

Adult Instruments

Infant Instruments

Global Lung Function Instrument Market, Segmentation by Portability:

Pocket Size

Cart Size

Lab Size

Global Lung Function Instrument Market, Segmentation by Application:

Lung Disease Diagnosis

Respiratory Function Assessment

Epidemiological Research

Companies Profiled:

SDI Diagnostics

Jones Medical Instrument

Futuremed

CMI Health

CAIRE

Benson Medical

Vitalograph

Schiller

ndd Medical

Sibelmed

FUKUDA SANGYO

CHEST. MI

MIR

COSMED

Geratherm Medical AG

GANSHORN

Medikro

Uscom

Key Questions Answered:

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

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