

Global Ultrafine Air Classifier Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ultrafine Air Classifier market size is expected to reach \$ 242 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

The ultrafine air classifier is a piece of high-end powder processing equipment that utilizes a high-speed rotating classification rotor to generate a centrifugal force field, enabling precise particle size classification of micron-scale powders. In 2025, global sales volume reached approximately 1,850 units with an average unit price of around \$82,000, while the industry's capacity utilization rate stood at approximately 72%. Upstream suppliers primarily provide specialty steels, high-speed motors, fans, and automation control systems; downstream applications span sectors such as deep processing of non-metallic minerals, advanced ceramic powders, lithium-ion battery cathode and anode materials, pharmaceutical intermediates, and fine chemicals, with an overall gross profit margin of approximately 34%. Regarding the cost structure, direct materials—such as wear-resistant steel, precision bearings, and electronic control components—account for about 55%, labor and manufacturing overheads for 25%, and R&D and amortization for 20%. In terms of demand and business opportunities, downstream requirements include the ultrafine classification of calcium carbonate, kaolin, alumina, and quartz powder, as well as the classification and purification of lithium iron phosphate (LFP) and sodium-ion battery anode materials; key downstream clients include Guangyuan Chemical, Gongga Xue New Materials, Omya, Sinocera, and Shanshan. Market drivers include policy support for the localization of high-end equipment under initiatives like "Made in China 2025" and new materials industry plans, alongside technological innovations such as multi-rotor tandem classification and closed-loop inert gas protection processes; furthermore, evolving consumer demands—specifically the increasingly stringent requirements for consistent particle size distribution in downstream products—have spurred the need for higher classification

precision and intelligent capabilities.

The market for ultrafine air classifiers is experiencing structural growth, driven primarily by the rapid expansion of the new energy and new materials supply chains. As demand for ultrafine powders for lithium-ion battery cathode and anode materials continues to rise through 2025, specific requirements—such as a D50 particle size of under 2 microns for LFP and LMFP precursors, and the need for precision classification for sodium-ion battery hard-carbon anodes—are directly translating into new orders for classification equipment. However, the market landscape is sharply polarized: international brands like Germany's Netzsch and Japan's Hosokawa maintain technological dominance in the sub-micron classification sector, while Chinese brands such as Wuquan Machinery and Jisu Dongli are rapidly expanding their volume in the general ultrafine classification market by leveraging cost-effectiveness and superior after-sales service. While the industry's average price has dropped to around \$80,000, high-end micron-level classifiers still command premium prices exceeding \$150,000. Capacity surpluses in downstream sectors like calcium carbonate and alumina have resulted in capacity utilization rates below 65% for standard classifiers, whereas production lines serving the new energy materials sector are operating near full capacity; this disparity tests companies' capabilities in developing application-specific processing technologies. Looking ahead, the focus of technological evolution will shift toward intelligent control systems, interlocked online particle size monitoring, and negative-pressure closed-loop systems; companies capable of providing integrated solutions that combine powder modification and classification will secure higher gross margins. Meanwhile, Europe's Carbon Border Adjustment Mechanism (CBAM) is driving upgrades to eco-friendly classification processes for fillers like calcium carbonate, creating a window of opportunity for equipment replacement. Overall, market sales volume is projected to exceed 2,500 units by 2028, with the share of specialized classifiers for emerging materials rising from 35% to over 50%, alongside an expected increase in industry concentration.

Report Scope

This report studies the global Ultrafine Air Classifier production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ultrafine Air Classifier 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 Ultrafine Air Classifier that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ultrafine Air Classifier total production and demand, 2021-2032, (Units)

Global Ultrafine Air Classifier total production value, 2021-2032, (USD Million)

Global Ultrafine Air Classifier production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Ultrafine Air Classifier consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Ultrafine Air Classifier domestic production, consumption, key domestic manufacturers and share

Global Ultrafine Air Classifier production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Ultrafine Air Classifier production by Classification Principle, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Ultrafine Air Classifier production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Ultrafine Air Classifier 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 NETZSCH-Feinmahltechnik GmbH (DE), Hosokawa Micron Corporation (JP), RIECO Industries Limited (IN), EARTHTECHNICA Co., Ltd. (JP), Metso Corporation (FI), NEUMAN & ESSER GmbH & Co. KG (DE), Sturtevant, Inc. (US), Prater Industries, Inc. (US), Chemill GmbH & Co. KG (DE), Mesmine Machinery (CN), 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 Ultrafine Air Classifier market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Classification Principle, 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 Ultrafine Air Classifier Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Ultrafine Air Classifier Market, Segmentation by Classification Principle:

Dynamic Air Classifier

Static Air Classifier

Turbo Air Classifier

Global Ultrafine Air Classifier Market, Segmentation by Classifier Wheel Configuration:

Single-Wheel Type

Multi-Wheel Type

Global Ultrafine Air Classifier Market, Segmentation by Cut Size (D97):

D97<3 ?m

D97 3–10 ?m

D97>10 ?m

Global Ultrafine Air Classifier Market, Segmentation by Application:

Biology and Medicine

Food

Chemical Industry and Metallurgy

Other

Companies Profiled:

NETZSCH-Feinmahltechnik GmbH (DE)

Hosokawa Micron Corporation (JP)

RIECO Industries Limited (IN)

EARTHTECHNICA Co., Ltd. (JP)

Metso Corporation (FI)

NEUMAN & ESSER GmbH & Co. KG (DE)

Sturtevant, Inc. (US)

Prater Industries, Inc. (US)

Chemill GmbH & Co. KG (DE)

Mesmine Machinery (CN)

Shandong ALPA Powder Technology Co., Ltd. (CN)

Qingdao EPIC Powder Machinery Co., Ltd. (CN)

Guangdong Puhler Smart Nano Technology Co., Ltd. (CN)

Yinda Machinery Co., Ltd. (CN)

Nisshin Engineering Inc. (JP)

Key Questions Answered

1. How big is the global Ultrafine Air Classifier market?
2. What is the demand of the global Ultrafine Air Classifier market?
3. What is the year over year growth of the global Ultrafine Air Classifier market?
4. What is the total value of the global Ultrafine Air Classifier market?
5. Who are the Major Players in the global Ultrafine Air Classifier market?
6. What are the growth factors driving the market demand?

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