

# Global Desiccant Wheel Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Desiccant Wheel market size is expected to reach \$ 479 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

In 2024, global desiccant wheel production reached approximately 283,655 units, with an average global market price of around US\$ 1,170 per unit, the production capacity is 333,398 units, with a gross profit margin of approximately 35.5%.

A desiccant wheel is very similar to a thermal wheel, but with a coating applied for the sole purpose of dehumidifying, or 'drying', the air stream. The desiccant is normally silica gel. As the wheel turns, the desiccant passes alternately through the incoming air, where the moisture is adsorbed, and through a "regenerating" zone, where the desiccant is dried and the moisture expelled. The wheel continues to rotate, and the adsorbent process is repeated. Regeneration is normally carried out by the use of a heating coil, such as a water or steam coil, or a direct-fired gas burner.

Core raw materials include fiberglass, silicone, and steel. Upstream raw material suppliers are relatively dispersed, the industry chain is mature, and it is a highly competitive sector. Major raw materials and components are readily available, and there is no significant dependence on any particular type of raw material or a single supplier.

The downstream applications of desiccant wheel have gradually shifted from traditional warehousing and commercial dehumidification to industrial processes with strict requirements for low dew points and controllable humidity, particularly in lithium-ion batteries, pharmaceuticals, food and beverage, and precision electronics.

The market for desiccant wheels has gradually shifted from traditional warehousing and

commercial dehumidification to industrial processes with stringent requirements for low dew points and controlled humidity, particularly in the lithium-ion battery, pharmaceutical, food and beverage, and precision electronics sectors. Drying rooms and cell processing lines in lithium battery plants require extremely low dew points for extended periods to ensure battery consistency and safety. Pharmaceutical and bioprocessing require traceable humidity records and stability control. Food cold chain and drying processes also pursue more sophisticated humidity management. These demands not only raise the technical barriers to entry for individual devices but also drive growth in procurement of complete line- and process-level dehumidification solutions.

Technological advancements are focused on two parallel paths: first, improving the efficiency of materials and core components, and second, digitalization and system-level intelligence. On the material side, manufacturers and R&D institutions continue to invest in adsorbents with higher moisture absorption capacity and lower regeneration temperatures (including modified silica gel, molecular sieves, and composite coatings), as well as optimized rotor geometries, with the goal of increasing dehumidification per unit volume and reducing regeneration energy consumption. Leading companies such as Munters are also publicly promoting projects to 'redesign the rotor' and utilize super-adsorbent materials to improve energy efficiency and volume ratio. Meanwhile, the integration of the Internet of Things, cloud platforms, and AI control is transforming rotor units from passive actuators to active process nodes. Through real-time sensing, remote monitoring, predictive maintenance, and intelligent regeneration strategies, the equipment can be scheduled on demand, automatically optimize regeneration cycles, and provide traceable data to upstream plant energy efficiency management systems, significantly reducing downtime and operating costs.

The development of emerging markets encompasses both geographic expansion and horizontal expansion of applications. Asia-Pacific (including China, India, and Southeast Asia) is becoming the most active growth region due to manufacturing outflows and the expansion of the lithium battery and electronics industry chains. Meanwhile, Latin America, Africa, and some Middle Eastern countries are gradually adopting high-performance dehumidification solutions, driven by cold chain modernization, food processing industry upgrades, and pharmaceutical infrastructure expansion, creating long-term growth potential. At the application level, in addition to traditional warehousing and commercial air conditioning, emerging applications such as 'dry rooms/dry chambers,' dedicated dehumidification for battery manufacturing, pharmaceutical stabilization warehouses, and data center humidity control are driving market demand for high-value-added, verifiable, and systematic solutions.

The desiccant wheel industry also presents significant opportunities and drivers in the replacement and aftermarket sectors. With the rapid expansion of industries such as pharmaceuticals, electronics, lithium batteries, and food and beverages, a large number of dehumidification rotor systems invested over the past decade are gradually entering the middle and late stages of their lifecycles, resulting in a significant increase in replacement demand. Traditional rotors mostly use silica gel or molecular sieve as the main adsorption material, with high operating energy consumption and maintenance costs. When the equipment ages, users are more inclined to adopt new products with better energy efficiency, intelligent control and low regeneration energy consumption, thereby driving the expansion of the replacement market.

This report studies the global Desiccant Wheel production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Desiccant Wheel total production and demand, 2021-2032, (Unit)

Global Desiccant Wheel total production value, 2021-2032, (USD Million)

Global Desiccant Wheel production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Unit), (based on production site)

Global Desiccant Wheel consumption by region & country, CAGR, 2021-2032 & (Unit)

U.S. VS China: Desiccant Wheel domestic production, consumption, key domestic manufacturers and share

Global Desiccant Wheel production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Unit)

Global Desiccant Wheel production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Unit)

Global Desiccant Wheel production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Unit)

This report profiles key players in the global Desiccant Wheel 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 Munters, Seibu Giken, CooBase, DRI, Puressci, Rotor Source, Proflute, Trane, NICHIAS Corporation, Ecotech, 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 Desiccant Wheel market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Unit) 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 Desiccant Wheel Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Desiccant Wheel Market, Segmentation by Type:

Silica Gel

Molecular Sieve

Global Desiccant Wheel Market, Segmentation by Size:

Diameter (2,000 mm)

Global Desiccant Wheel Market, Segmentation by End User:

OEM

Replacement

Global Desiccant Wheel Market, Segmentation by Application:

Lithium Battery

Pharmaceutical

Food

Chemical

Electronics

Others

Companies Profiled:

Munters

Seibu Giken

CooBase

DRI

Puressci

Rotor Source

Proflute

Trane

NICHIAS Corporation

Ecotech

NovelAire

**Key Questions Answered:**

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

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