

# **Global Desiccant Wheel Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031**

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## **Abstracts**

According to our (Global Info Research) latest study, the global Desiccant Wheel market size was valued at US\$ 194 million in 2024 and is forecast to a readjusted size of USD 268 million by 2031 with a CAGR of 4.8% during review period.

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.

More and more dehumidification wheel systems are integrating IoT technology, using sensors to monitor ambient humidity and temperature in real time, enabling remote data collection and analysis, so that dehumidification operation modes can be automatically adjusted to improve energy efficiency and system performance. Intelligent control systems can automatically adjust operation strategies based on real-time humidity data, optimize energy consumption, reduce human intervention, and improve maintenance efficiency.

The development of new materials (such as improved molecular sieves, silica gel, etc.) will greatly improve the energy efficiency ratio of dehumidification wheels, enabling them to achieve better dehumidification performance under both low and high humidity conditions.

The pharmaceutical, food and beverage, and electronics industries have very strict requirements for humidity control. Desiccant rotors are essential to maintain optimal humidity levels to ensure product quality and safety. The rise of electric vehicles (EVs) and renewable energy storage has driven demand for lithium-ion batteries, which require a low humidity environment during production to improve performance and safety.

The industrialization and urbanization processes in regions such as Asia Pacific, Latin America, and Africa have driven the demand for efficient humidity control systems. Develop more customized dehumidification solutions for the special needs of different industries and application scenarios, such as food preservation, pharmaceutical drying, space technology, and other fields.

This report is a detailed and comprehensive analysis for global Desiccant Wheel market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Desiccant Wheel market size and forecasts, in consumption value (\$ Million), sales quantity (Unit), and average selling prices (USD/Unit), 2020-2031

Global Desiccant Wheel market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Unit), and average selling prices (USD/Unit), 2020-2031

Global Desiccant Wheel market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Unit), and average selling prices (USD/Unit), 2020-2031

Global Desiccant Wheel market shares of main players, shipments in revenue (\$ Million), sales quantity (Unit), and ASP (USD/Unit), 2020-2025

#### The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Desiccant Wheel

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Desiccant Wheel market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Seibu Giken, DRI, Proflute, Rotor Source, Puressci, Trane, NICHIAS Corporation, Ecotech, NovelAire, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

Desiccant Wheel market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Silica Gel

Molecular Sieve

### Market segment by Application

Lithium Battery

Pharmaceutical

Food Industry

Chemical Industry

Electronics

Others

Major players covered

Seibu Giken

DRI

Proflute

Rotor Source

Puressci

Trane

NICHIAS Corporation

Ecotech

NovelAire

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East)

& Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Desiccant Wheel product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Desiccant Wheel, with price, sales quantity, revenue, and global market share of Desiccant Wheel from 2020 to 2025.

Chapter 3, the Desiccant Wheel competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Desiccant Wheel breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Desiccant Wheel market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Desiccant Wheel.

Chapter 14 and 15, to describe Desiccant Wheel sales channel, distributors, customers, research findings and conclusion.

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