

Spray Drying Equipment Market Size, Key Market Players, SWOT, Revenue Growth Analysis, 2023–2032

Spray Drying Equipment Market report also sheds light on the supply chains and the changes in the trends of upstream raw materials and downstream distributors.

NEW YORK, NY, UNITED STATES, June 30, 2023 /EINPresswire.com/ -- The global market for spray drying equipment reached a value of USD 7

billion in 2022. It is projected to reach USD 12.87 billion by 2032, with a compound annual growth rate (CAGR) of 7% during the forecast period. The growth of the market is primarily driven by factors such as the increasing demand for functional foods and beverages, the expansion of the chemical and pharmaceutical sectors, and the growing popularity of spray-dried foods.

One of the key drivers for the market is the rising consumer demand for nutritious and functional foods and beverages worldwide. Spray drying is extensively used in the food industry for the production of powdered goods like milk powder, coffee, tea, and fruit powders. This process helps preserve the nutritional value of products and extends their shelf life, thus fueling the demand for spray drying equipment.

The chemical and pharmaceutical industries are also contributing to the growth of the [spray drying equipment market](#). Spray drying is commonly employed in the pharmaceutical sector to create inhalable formulations and powdered medications. It offers several advantages such as enhanced solubility, improved bioavailability, and increased stability of medications. Similarly, the chemical industry utilizes spray-drying equipment to produce various compounds including pigments, catalysts, and enzymes.

Expansion of the dairy sector is another significant factor driving market growth. Spray drying is widely used in the dairy industry for the production of milk powder, whey powder, and other dairy-based products. The technique helps maintain the freshness of dairy products for longer periods and enhances their portability, thereby increasing the demand for spray drying



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equipment.

The introduction of advanced technologies is also contributing to the revenue growth of the spray drying equipment market. Manufacturers are continuously improving spray drying technology to enhance its efficiency, cost-effectiveness, and environmental friendliness. The adoption of cutting-edge technologies like infrared radiation and microwave-assisted spray drying is fueling the demand for spray drying equipment by accelerating and optimizing the drying process.

However, there are several challenges that could hamper the revenue growth of the spray drying equipment market. These include high capital investment and maintenance costs, stringent environmental regulations, and the availability of alternative drying methods.

Despite these obstacles, the market for spray drying equipment is expected to maintain its growth trajectory during the forecast period. The development of advanced technologies in spray drying equipment, the expansion of the dairy industry, and the increasing demand for spray-dried products in the food industry are anticipated to drive market revenue growth.

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Some major companies in the global spray drying equipment market include:

- GEA Group AG
- SPX FLOW, Inc.
- Dedert Corporation
- Buchi Labortechnik AG
- Yamato Scientific Co., Ltd.
- C.E. Rogers Company
- New AVM Systech Pvt. Ltd.
- Tetra Pak International S.A.
- European SprayDry Technologies LLP
- Changzhou Lemar Drying Engineering Co. Ltd.

Advantages of the Spray Drying Equipment Market:

1. **Preservation of Nutritional Value:** The use of spray drying equipment ensures that the nutritional value of products is preserved during the drying process. This is especially crucial for the production of powdered goods such as milk powder, coffee, tea, and fruit powders. The spray drying technique helps retain the essential nutrients, vitamins, and flavors of the original product.
2. **Extended Shelf Life:** Spray drying plays a significant role in increasing the shelf life of various products. By rapidly removing moisture from liquid or semi-liquid substances, spray drying equipment helps create stable and dry powders that have a longer shelf life. This allows for

better storage and distribution of products without compromising their quality.

3. **Enhanced Solubility and Bioavailability:** Spray drying is widely used in the pharmaceutical industry to produce powdered medications. This technique offers the advantage of improved solubility and bioavailability of drugs. By transforming liquid formulations into dry powders, spray drying equipment enhances the drug's ability to dissolve in various solutions and improves its absorption and effectiveness in the body.

4. **Cost-Effective Production:** Spray drying equipment provides a cost-effective solution for large-scale production. The high efficiency and continuous operation of spray dryers contribute to reducing production costs and increasing overall productivity. The automated processes and optimized drying parameters help manufacturers achieve higher output and reduce wastage, making spray drying a cost-efficient choice for many industries.

5. **Versatile Application:** The versatility of spray drying equipment allows it to be used across various industries. It finds extensive applications in food and beverage production, pharmaceutical manufacturing, chemical processing, and the dairy industry. From creating powdered food products to developing inhalable pharmaceutical formulations, spray drying equipment offers flexibility and adaptability to meet diverse industry needs.

6. **Improved Product Stability:** Spray drying equipment aids in the preservation of product stability by preventing moisture-related degradation. By rapidly removing moisture content from the product, spray drying reduces the risk of microbial growth, enzymatic reactions, and chemical degradation. This leads to products with enhanced stability, extended shelf life, and reduced chances of spoilage.

7. **Efficient Drying Process:** Spray drying equipment facilitates a highly efficient drying process. The design of spray dryers allows for rapid and uniform drying of liquid or slurry feed, ensuring consistent product quality. The controlled drying conditions, including temperature and airflow, help achieve desired moisture levels and product characteristics. The efficient drying process also reduces drying time, increasing production throughput.

Overall, the advantages of spray drying equipment in terms of nutritional preservation, extended shelf life, improved solubility and bioavailability, cost-effective production, versatility, product stability, and efficient drying process make it a valuable technology in various industries.

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Segments covered :

By Product Type Outlook, Application Outlook, Regional Outlook

By Type Outlook

- Rotary Atomizer
- Nozzle Atomizer
- Fluidized

- Closed Loop
- Others

By Application Outlook

- Food
- Pharmaceuticals
- Chemicals
- Ceramics
- Others

Regional Outlook

- North America (U.S.A., Canada, Mexico)
- Europe (Italy, U.K., Germany, France, Rest of Europe)
- Asia Pacific (China, India, Japan, South Korea, Australia, Rest of APAC)
- Latin America (Chile, Brazil, Argentina, Peru, Rest of Latin America)
- Middle East & Africa (Saudi Arabia, U.A.E., South Africa, Rest of MEA)

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