



**48<sup>+</sup> Years**  
*Of experience*

# INDUSTRIAL DRYERS



In Association with SVCH-Technologii, Moscow (Russia)

ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018



# ABOUT US

KERONE is now renowned for serving the specialized needs of customers with the best quality and economical process of application engineering solutions and industrial heating products manufactured in a high-quality environment by a trained and qualified workforce (special purpose machinery)



KERONE is a pioneer in application and implementation engineering with its vast experience and team of professionals.



KERONE is devoted to serve the industry to optimize its operations both economically and environmentally with its specialized process engineering solutions.



KERONE is having immense expertise in manufacturing and implementing various types of engineering solutions.



KERONE is possessing employee strength of more than 280+ experts continuously putting efforts for happy industrial engineering solutions



48+ Years Manufacturing Excellence



Great Sale Support



Highly Customized Product



Adherence to Standards



Sound Infrastructure



Team of experts Delivering Quality



Timely Delivery



Cost Effective Solutions





# WHY CHOOSE US

"Choose Kerone for innovative solutions tailored to your unique product needs, ensuring efficiency, reliability, and unmatched quality."

With decades of expertise, cutting-edge technology, and a customer-centric approach, Kerone Engineering offers tailor-made Applications Engineering solutions that prioritize quality, flexibility, and cost-effectiveness. Benefit from our commitment to excellence, post-sales support, and innovative solutions for your unique Applications Engineering needs. Choose Kerone Engineering for reliability, performance, and unmatched value.

## MISSION



To enhance the value of customer operation through our customer need centric engineering solution.



We are committed to providing our customers with unique and best-in-class products in the industrial thermal processing segments. Through strategic tie-ups for technical know-how with renowned leaders in industry-specific segments, we ensure that our offerings meet the highest standards of quality and innovation.

## VISION



Turn into a world leader in providing specialized, top-notch quality and ecological industrial heating, cooling, and drying solutions across the globe.



To attain global recognition as the best of quality and environment-friendly engineering solution company.



Enhance the value of customer operation through our customer need centric engineering solution.





# TRUSTED PARTNERS







## Industrial Dryers

Industrial dryers, also popularly known simply as dryers in various industries, are indispensable machines used to reduce or remove moisture or water content from large quantities of material during the manufacturing process. These dryers are designed to be efficient, effective, and controllable, providing quick and controlled response times for moisture removal without affecting the physical, chemical, or biological properties of the material. They are essential for ensuring optimal conditions for processing, storage, and transportation.

Industrial dryers utilize advanced technologies such as hot air circulation, vacuum drying, and infrared or microwave energy to achieve efficient and uniform drying. They are designed to handle large volumes of materials, making them suitable for a wide range of industries, including food processing, pharmaceuticals, chemicals, and textiles. These dryers play a critical role in maintaining product quality and extending shelf life by preventing mold, spoilage, and degradation. Featuring robust construction and precise control systems, industrial dryers offer high efficiency, energy savings, and operational flexibility. Additionally, they are equipped with safety features and automated controls to ensure consistent performance and minimize downtime, making them indispensable for modern industrial operations that demand reliable and effective drying solutions.

### Industries Catered

- Pharmaceutical
- Food processing
- Plastic
- Rubber
- Chemical
- Automobile
- Textile
- Paper
- Ceramics
- Printing





## Industrial Dryer Selection

- Pre-and Post-drying operations (if any)
- Physical form of feed
- Size of the material to be fed
- Average throughput
- Fuel choice
- Moisture content in material
- Particle density
- Physical construction of material
- Level of moisture at output level
- Chemical / biochemical
- Microbiological activity
- Corrosion and Toxicity
- Space availability for dryer
- Construction material required
- Expected variation in throughput (turndown ratio)
- Sensitivity isotherms (equilibrium moisture content)

## Features

- Accurately calculated processing time
- Low cost of operation
- Minimum handling
- Less fuel consumption
- Controlled noise level
- Compact construction
- Accurately calibrated
- Minimum Maintenance
- Uniform drying temperature is assured
- Highly controllable design and technology

## Advantages

- Robust and durable construction
- Maintains product quality
- Efficient moisture removal
- Extends shelf life
- Prevents mold and spoilage
- Suitable for large volumes
- Precise control systems
- Energy-saving technologies
- Safety features included
- Automated and reliable operation



## Application

- Air Conditioning Industry
- Bagasse Industry
- Biochemical Industry
- Dye Pigments Industry
- Mineral Industry
- Agriculture Industry
- Phosphates Industry
- Polymer Industry
- Refrigeration Industry
- Pharmaceuticals And Biochemi



## Types of Dryers

### Drum Dryer



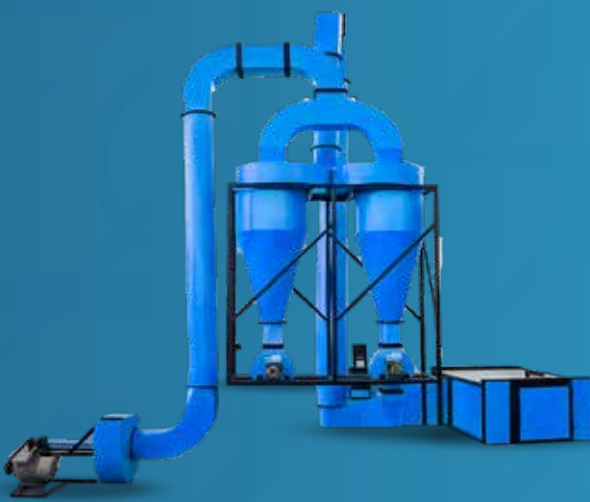
The drum dryer is very flexible in nature, its operation depends on the pressure of steam within the drum, speed of drum rotation, width of applicator and the ratio of drum speed rotations.

### Spray Dryer



Spray drying is a method of dehydrating fluids, solutions and thin slurries, it converts the fluids or slurries to powder form. Liquid or slurry material to be dehydrated is sprayed in the form of a fine droplet dispersion into hot airstream.

### Flash Dryer



Flash dryers are direct drying units and are known as convective dryers. In pneumatic flash drying system particulate solids to be dried travel through the drying duct along with hot air and get dried during transport in a hot gas stream.

### Tunnel Dryer



Tunnel dryer is commonly used to get manufactured with hot air for drying of material, however the advancement in heating technology has enabled the tunnel dryer with advanced and faster drying techniques such as microwave/ RF/ Infrared.

### Rotary Dryer



Rotary dryers are one of the most common types of industrial dryer, utilised for large quantities of material with particles of size 10 mm or larger.

### Microwave Heating Dryer



Microwave is not a type of heat, rather it's a form of energy that is exhibited as heat by the means of their interaction with the material. It results in material heating themselves, the mechanism of energy conversion used is dipole rotation.



## Radio Frequency Heating Dryer



The heat is generated within the material hence there is no losses in terms of conduction of heat in surrounding, radio frequency (RF) industrial dryers are highly controllable as the rate of heat production is proportion of radio frequency energy supplied to the materials.

## Tray Dryer



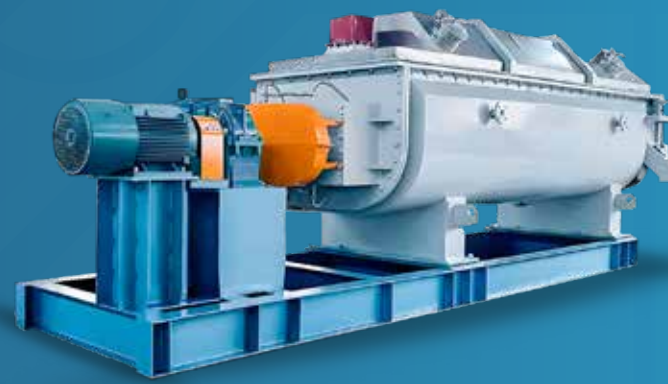
A tray dryer machine dries materials on trays with hot air circulation, ensuring uniform drying. It's used in pharmaceuticals, chemicals, food processing, and textiles. Key features include multiple trays, precise temperature control, and energy efficiency.

## Infrared Dryer



Infrared (IR) dryers are modern day industrial drying solutions for material surface, Infrared (IR) dryer uses the infrared radiations, and Infrared radiations are invisible electromagnetic radiation whose wavelength is longer than the visible light wave range between 0.78 and 1000  $\mu\text{m}$ .

## Sludge Dryer



Sludge dryers dewater sludge, reduce volume, and recover valuable materials. They promote circular economy practices and waste-to-energy solutions, supporting sustainable waste management and reducing environmental impact.

## Slag Dryer



A slag dryer machine dries slag from metal smelting using rotary drum technology for efficient moisture removal. It features robust construction and energy efficiency, essential for improving material quality in metallurgy, cement, and construction industries.

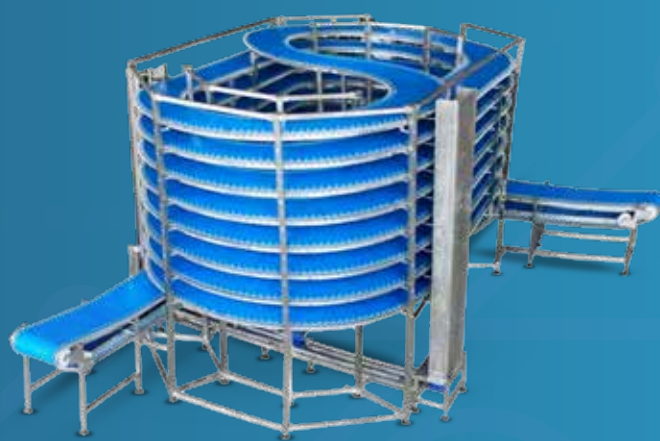
## Rotary Infrared Dryer



A rotary infrared dryer quickly and uniformly dries materials using infrared heating and rotary motion. Ideal for various industries, it improves efficiency and product quality.



### Spiral Conveyor Dryer



The Spiral Conveyor Dryer efficiently dries materials using a spiral belt. It's ideal for vertical bulk transport in various industries and supports drying and heating/cooling processes. The compact design offers significant heat exchange, with a laser-welded version for enhanced efficiency.

### Tower Dryer



Tower dryers efficiently dry grains and bulk solids with their vertical design and counterflow drying process. Equipped with perforated trays and advanced controls, they ensure optimal conditions, enhancing product quality and storage stability.

### Grain Dryer



Grain dryers reduce moisture in harvested grains for better storage and quality, using heated air and ventilation. They prevent mold and spoilage in crops like wheat, corn, and rice. Available in batch or continuous flow types, they improve agricultural efficiency and sustainability.

### Band Dryer



A band dryer is a continuous drying machine for materials like food, chemicals, and pharmaceuticals. It uses a conveyor belt in heated air for efficient drying, with precise temperature and airflow control to maintain product quality.

### Freeze dryer



Freeze dryers, or lyophilizers, remove moisture by freezing and applying a vacuum, preserving structure and quality. Used in pharmaceuticals, food, and research, they extend shelf life and prevent thermal damage, producing lightweight, rehydratable products.

### Heat Pump Dryer



Heat pump dryers are energy-efficient appliances that dry clothes using a heat exchange process, consuming less energy than traditional dryers. They operate at lower temperatures, preserving fabric quality and offering a greener alternative to conventional drying methods.

### Microwave Spices Dryer



A microwave spices dryer uses microwave radiation to quickly and evenly dry spices, preserving their flavor and nutrients effectively. It offers a rapid drying process compared to traditional methods, maintaining high product quality.

### Coal Dryer



A coal dryer efficiently removes moisture from coal, improving its combustion efficiency and reducing transportation costs. It uses heated air or gas to dry the coal, enhancing its overall quality and performance in energy production.





# THANK YOU

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