



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

# DRUM DRYER

EFFICIENT - CONTINUOUS - RELIABLE DRYING SOLUTION



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

# ABOUT US

Kerone Engineering Solutions Ltd is a global leader in advanced industrial heating, drying, cooling & end to end process engineering solutions. With over five decades of proven expertise, we specialize in designing, manufacturing, and delivering highly customized, cutting-edge systems tailored to the evolving needs of industries worldwide.

Our commitment to engineering excellence, sustainability, digitalization, and technological innovation has positioned us as a trusted partner for businesses across multiple sectors. By integrating Artificial Intelligence (AI), Machine Learning (ML), and Internet of Things (IoT) technologies into our systems, Kerone ensures smarter automation, real-time monitoring, predictive maintenance, and data-driven process optimization—empowering our clients to achieve greater productivity, efficiency, and reliability.



**50+**

Years of Experience



**10,000+**

Satisfied Clients



**500+**

Employee



**100+**

Experts



**50+**

Global Presence



**50+ Years Manufacturing Excellence**



**Great Sale Support**



**Highly Customized Product**



**Adherence to Standards**



**Sound Infrastructure**



**Team of experts Delivering Quality**



**Timely Delivery**



**Cost Effective Solutions**



# INDUSTRIES WE SERVE

- ✓ Food Processing & Agro-Processing
- ✓ Chemicals & Petrochemicals
- ✓ Pharmaceuticals
- ✓ Textiles, Automotive & Aerospace
- ✓ Paper & Packaging
- ✓ Ceramics & Glass
- ✓ Rubber & Plastics
- ✓ Environmental & Waste Management
- ✓ Oil, Gas & Steel Industries



- ✓ Industry Expertise – Over 50 years of global engineering leadership.
- ✓ Custom Solutions – Tailored engineering that meets unique industrial requirements.
- ✓ Global Reach – Trusted by industries across continents with proven reliability.
- ✓ Digital & Smart Systems – AI/ML-powered automation, IoT-based monitoring, and predictive insights.
- ✓ Cutting-Edge Technology – Continuous innovation in heating, drying, and advanced processing.
- ✓ Energy Efficiency – AI-optimized designs for lower energy consumption and sustainability.

## QUALITY & COMPLIANCE

At Kerone, quality and compliance are non-negotiable. All our solutions are engineered in adherence to international standards and industry best practices, ensuring maximum safety, durability, reliability, and efficiency. With integrated digital technologies, we enable smarter quality control and compliance tracking across all operations.





Powered by AI/ML & IoT

## Description

The Industrial Drum Dryer is a continuous drying system designed for efficient removal of moisture from liquid, slurry, and paste materials by indirect heating over a rotating steam-heated drum. It is widely used for drying heat-sensitive and viscous materials into flakes or powder form. The system ensures uniform drying, controlled film thickness, and high thermal efficiency with minimal product degradation.

### Principle of Operation

#### Step

#### Description

Feed Application

Liquid/slurry feed is applied uniformly on the rotating heated drum surface.

Film Formation

A thin film of product forms over the heated drum.

Drying

Moisture evaporates due to heat transfer from the heating medium inside the drum.

Scraping

Dried material is removed by a stationary doctor blade.

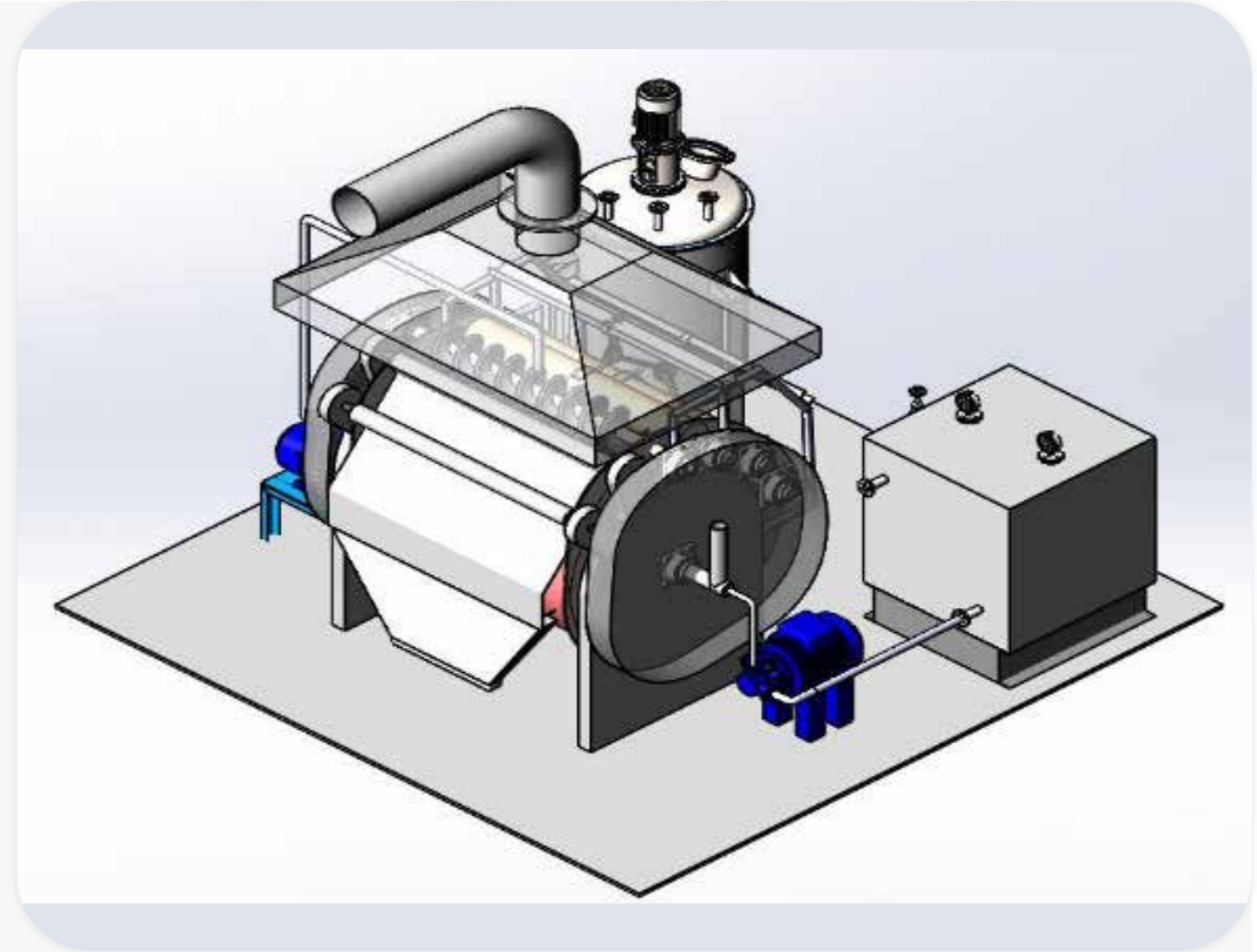
Discharge

Flakes/powder are collected via hopper or screw conveyor.

# Types Of Drum Dryers

## Single Drum Dryer

## Double Drum Dryer



## Single Drum Dryer

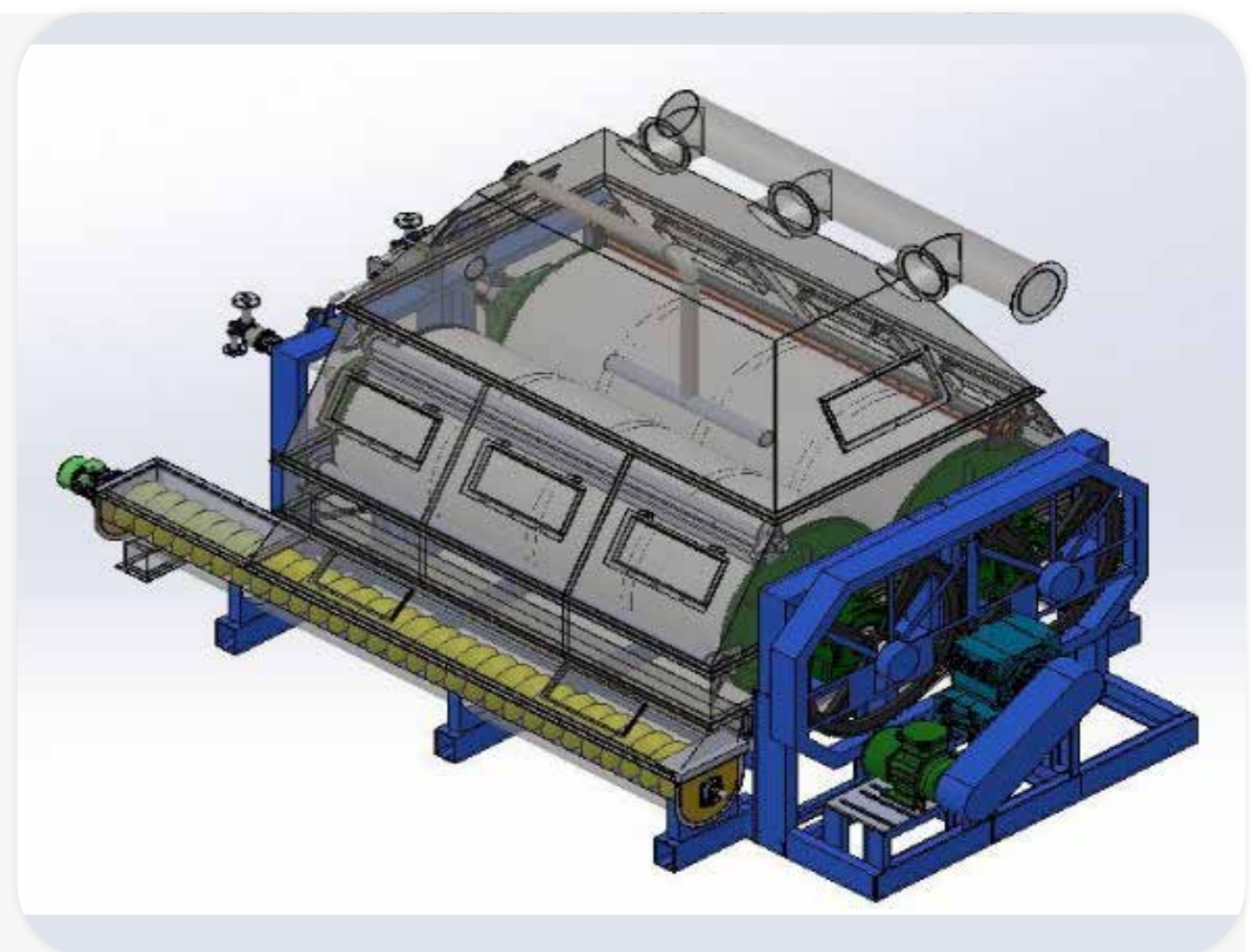
A Single Drum Dryer is a contact-type drying machine used to remove moisture from liquid or slurry materials by spreading them as a thin film over a heated rotating drum. The material dries quickly through direct heat transfer from the drum surface. The dried layer is then scraped off by a stationary blade, producing flakes or powder for further processing.

## Description

One rotating drum with applicator

## Applications

Standard Slurries



## Double Drum Dryer

A Double Drum Dryer is a contact drying system that uses two parallel, counter-rotating heated drums to dry liquid or slurry materials efficiently. The feed material forms a thin film in the gap between the drums, allowing rapid heat transfer and uniform moisture evaporation. The dried product is scraped off as flakes or powder, making it suitable for further processing or packaging.

## Description

Two drums rotating towards each other

## Applications

High Capacity Drying

## Types Of Feed Application Systems

Feed Type	Description	Suitable For	Applications
Roller Feed	Feed transferred via applicator roll	Medium viscosity slurry	Uniform film thickness
Dip Feed	Drum partially dips into feed trough	Low viscosity liquids	Simple operation
Dip Roller Feed	Combination of dip + applicator roll	High solids slurry	Better thickness control
Splash / Sprayer Feed	Spray nozzles apply feed	Thin liquids	Controlled distribution



Roller Feed



Dip Feed



Dip Roller Feed



Sprayer Feed

## Technical Specifications

Parameter	Specification Range
Drum Diameter	500 mm – 2000 mm
Drum Length	500 mm – 5000 mm
Evaporation Capacity	50 – 2000 kg/hr
Material of Construction	SS304 / SS316 / MS with coating
Surface Finish	Mirror / Matt / Chrome plated
Drive System	Variable speed motor with gearbox
Control System	PLC / SCADA

## Heating Medium Options

Heating Medium	Typical Temperature Range	Application Suitability
Saturated Steam	120°C – 180°C	Food, pharma, starch, chemicals
Superheated Steam	180°C – 250°C	High moisture industrial slurries
Thermal Oil	150°C – 300°C	Chemical & specialty materials
Hot Water	80°C – 120°C	Heat-sensitive products
Electric Heating	Up to 250°C	Lab / pilot scale

## Applications

Industry	Applications
Food Industry	Starch, mashed potato, baby food, cereal slurry
Chemical Industry	Pigments, dyes, resins
Pharma Industry	Herbal extracts, intermediates
Agro Processing	Fruit pulp, vegetable puree
Bio Products	Algae, biomass slurry





# THANK YOU

## UNIT 1 (KESL)

4 & 5, Marudhar Industrial Estate, Gas Godown Lane, Goddev Fatak Road, Bhayander (E), Dist. Thane - 401105. (India)

Contact Us  
+91-22 48255071, 48255072

## UNIT 2 (MIDC)

Plot No. B-47, Addl. MIDC Anand Nagar, Ambernath (E), Dist. Thane - 421506 (India)

Contact Us  
+91(0251)2620542/43/44/45/46

## UNIT 3 (KRDC)

Plot No K2, Industrial Gala F4A, D- Wing, MGN Properties, Opposite Godrej Co., Addl MIDC Anand Nagar, Ambernath (E)- 421506 (India)

Contact Us  
+91-2512620543/44

## UNIT 4 (EUROPE)

(EMitech) Viale della Palma, 7, 70033 Corato BA, Italy (Europe)

Contact Us  
+91-2512620543/44

## UNIT 5 (THAILAND)

Thailand Representative: 163 Rajapark Building, 18th floor, Sukhumvit 21 Road (Asoke), Wattana, Bangkok - 10110, Thailand

Contact Us  
G.Vivekanand  
+6689 500 9821

## Uzbekistan / Kazakhstan (Office)

TIT Company LLC: 100060, 2, A. Kahhar, Tashkent, Uzbekistan

Contact Us  
Mr. Slava  
+998 903540963

## Israel (Office)

Ornatus Industrial Tech Ltd: Dam Hamacbim 36, 7178602 Modiin, Israel

Contact Us  
Omri Fabian  
+972 584844887

## Australia & New Zealand (Office)

Linetech Pty Ltd: Po Box 3046, Browns Plains, Qld 4118. Australia

Contact Us  
Eric Quevauvilliers  
+61 (0)418 871 005

## Bangladesh (Office)

House-10, Road-5 Priyanka City, Sector-12, Uttara, Dhaka-1230, Bangladesh

Contact Us  
Md. Emtiaz Morshed  
+8801747762200

## Chile & South America (LatAM)

La Concepcion 165 Oficina 303, Providencia, Santiago, CHILE

Contact Us  
+56 232 243 921



SCAN HERE

## ✉ Our Mails

info@kerone.com  
sales@kerone.com  
marketing@kerone.com

## 🌐 Website

www.kerone.com  
www.kerone.in  
www.keronedryers.com  
www.keronebiochar.com