



**RAJ PROCESS**  
EQUIPMENTS AND SYSTEMS PVT. LTD.

# Drying Solution





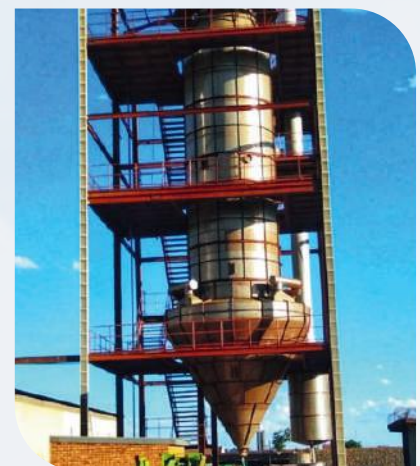
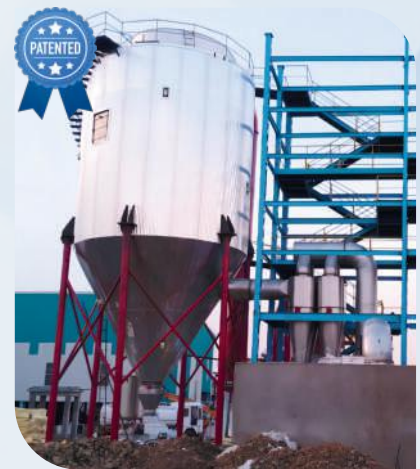
# Drying Technology

Raj has proven his expertise in dryers and has proven legacy of 25+years in industry. Raj offers various drying systems that cater to the specific needs of your product. These systems are designed to provide a one-step transformation of liquid feeds, wet cakes, and pastes into powder. Based on your product's nature, the most appropriate material for the product contact parts is selected. Our drying systems are turnkey equipment that includes the following systems:

- 1.Slurry Preparation/Mixing/Feeding System.
- 2.Air Heating System.
- 3.Feed automation/Dispersion/Agitation System.
- 4.Dry Product Collection/Conveying System.
- 5.Dust/Fines Collection System.

## Spray Dryer

Our area of expertise begins with spray drying technology. We have granted patent for Spent wash drying technology. We offer upto 20000 Kg/hr water evaporation with operating temperature of 1100°C.



# Flash Dryer

Flash Dryers are used for drying of wet cakes which are sensitive to heat due to very low residence time in the range of 0.5 to 2 sec in the flash dryer, heat sensitive product can be easily dried without degradation. There are different variations of flash dryers available depending upon the need to disperse the wet cake or pastes.

The types of flash dryer are :

Cage Mill Flash Dryer

Spin Flash Dryer



# Rotary Dryer

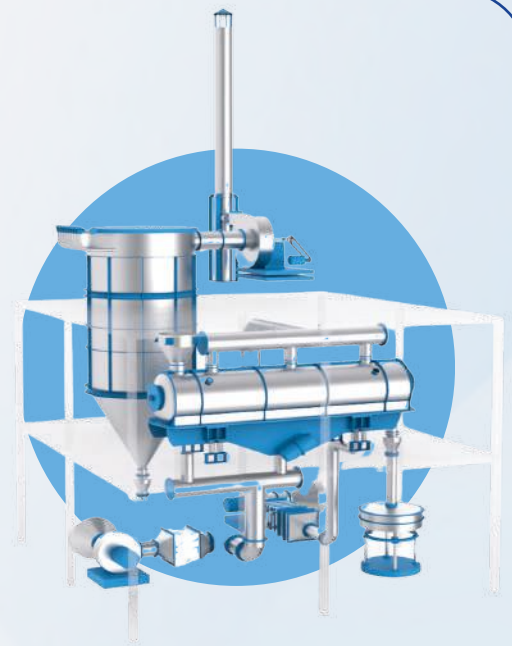
Raj offer rotary dryers which are used for drying, wet powders and cakes which are easily breakable and dispersible. Rotary dryer consist of rotary drum with angle lifting v blades which lift the feed as the drum rotates and showers it in stream of hot air flowing through the drum. Rotary dryers can be used as a calciners using direct or indirect firing. GMP plants are offered for Pharmaceutical, food and biochemical application.





# Continuous Fluid Bed Dryer

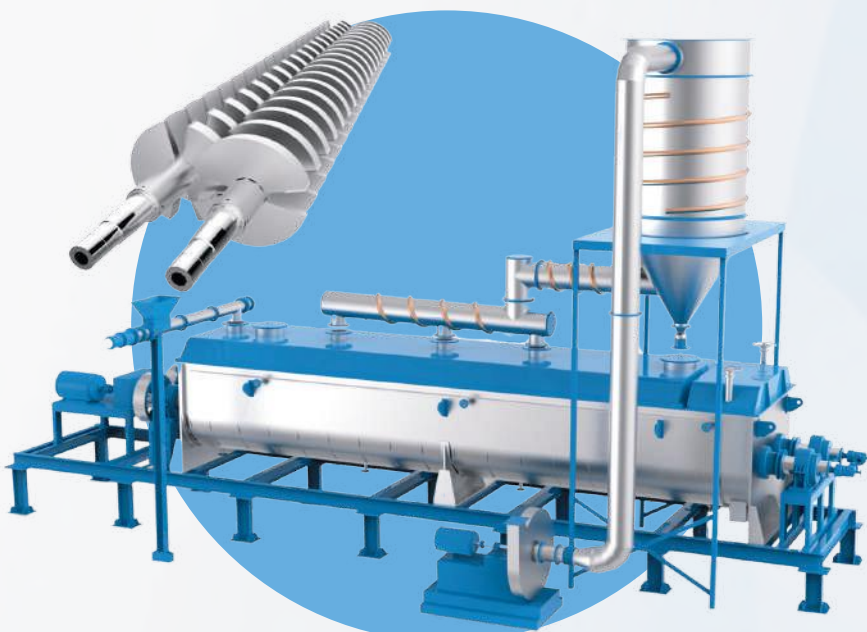
Raj Process offers a range of continuous fluid bed dryers/coolers, designed for effective drying. The continuous process can be implemented in both static and dynamic (Vibratory) fluid beds. In a static fluid bed, uniform materials that do not tend to agglomerate are processed. On the other hand, Vibratory fluid bed dryer are designed for continuous operation and are particularly suitable for materials that are sticky and have a wide particle size distribution. The vibratory motion ensures the fluidization and transport of materials within the bed.



# Paddle Dryer

Raj Paddle dryer is indirectly heated with steam or circulated thermal fluid (hot oil). This provides for high energy efficiencies and low off-gas volumes. Two counter-rotating paddle shafts in a heated trough ensure very high heat transfer and optimum mixing.

Two different heat zones are possible. A vacuum model (RVPD), allowing drying temperatures to be kept low for heat sensitive food products can also be supplied. Raj has supplied Paddle Dryer with High capacities up to 300m<sup>2</sup> HTA. Can handle a wide range of materials, including powders, granules, pastes, sludge, and more.



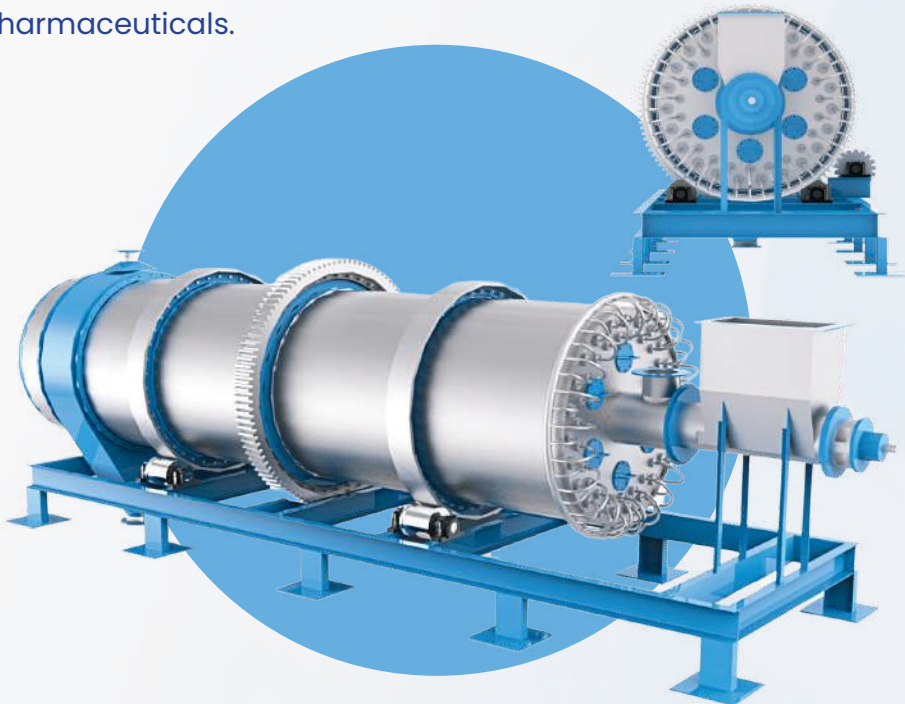
# Rotary Vacuum Dryer

Rotary Vacuum Paddle Dryer( RVPD ) offers a versatile , clean , simple and effective Process Solution for Vacuum Drying at Low Temperatures, Extraction of useful Liquids, Solvent Distillation/Recovery, Reaction, Crystallization, Process commencing with either Slurries or Pastes or Wet Cake, in Batch Operation carried out by indirect heating and often under Vacuum. It is possible to dry heat sensitive materials at well be low boiling points of solvents. Products having Lumping properties could be easily handled for powder production by use of breaker bars in the RVPD .



# Steam Tube Bundle Dryer

A steam tube bundle dryer is a type of dryer that uses steam as the heating medium. It consists of a large cylindrical tube bundle that is mounted horizontally and rotated slowly on its axis. The tube bundle is filled with a large number of small-diameter tubes that are arranged in a staggered pattern to maximize the heat transfer area. Steam is introduced into the tubes, and as it flows through, it transfers its heat to the material being dried, which is fed into the dryer at one end and removed at the other. Overall, steam tube bundle dryers are a reliable and efficient option for drying a wide range of materials, making them a popular choice in many industries, including food processing, chemical manufacturing, and pharmaceuticals.





# Cone Screw Dryer

A cone screw dryer is a type of industrial dryer that is commonly used for excellent drying of free flowing powder material containing moisture or solvent. The construction of cone screw dryer as the name suggest consist of conical container with jacket or limpet in which screw rotates about it's own axis and revolves along the wall of cone. In some cases a vacuum system is used.

Cone screw dryer offer fast drying times as the mixing screw continuously circulates the product from the bottom to the top of the vessel improving heat transfer.



## Allied Products



**Bag Filters**



**Wet Scrubbers**

Pollution Control Systems



**Automization System**



**Rotary Valve**



**Pressure Nozzle**

Dryer Accessories



**Blowers**



# Infrastructure that we have

We have 5 Manufacturing facilities across Maharashtra, India with origin and corporate office in Pune, India. Our Company is Certified with ISO 9001 -2015, ISO14001:2015, BS OHSAS 18001:2007, ASME 'U' Stamp, 'S' Stamp, National Board 'R' Stamp.



## Corporate Office

Sadanand Business Center, Sr.No. 140/1, 14th Floor, Baner, Pune - 411 045 Maharashtra, India



## Unit I

Plot No. 166 & 167, Sector No.7. PCNTDA Bhosari, Pune - 411 026 (India)



## Unit II

Sr. No. 373, Village Kharabwadi, Chakan, Tal - Khed, Dist - Pune (India)



## Unit III

Plot No. -14, SEZ, Village - Nimgaon, Tal - Khed, Dist - Pune - 410505 (India)



## Unit IV

Gat No. 530, Alp Ahire, Tal - Khandala, Dist - Satara - 412802 (India)



## Unit V

Gat No. 118/2, A/P- Wasuli, Tal - Khed, Dist - Pune - 410501 (India)

# State of art Facility

Our state-of-the-art facility is equipped with advanced machinery, including CNC drillings, CNC Turning, laser cutting machines, VMC machines, Hydraulic press, Laser welding and many other. These cutting-edge machines allow us to produce high-quality products with precision and efficiency.





# Customers We Served



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