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ROTARY DRUM DRYER

Transforming Moisture into Precision Drying Solutions



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About Company

Genex stands as a beacon of excellence, holding prestigious certifications including ISO 9001:2015, ISO 14001:2015, and WHO-GMP, alongside being registered under Startup India.

Our global presence is a testament to the advanced infrastructure we've meticulously developed, enabling the production and delivery of cutting-edge machines renowned for their intelligent design and impeccable construction. With a significant stake in the global export market for food processing machinery and spare parts, Genex has earned unwavering trust within the industry. We boast the capability and resources to execute turnkey projects for manufacturers, with an excellent track record of 100% successful overseas installations.

Our machines not only showcase technological prowess but also reflect our commitment to creating products that carve a distinctive niche in the industry. We proudly serve esteemed clients such as the National Thermal Power Corporation, India, and the Food & Agriculture Organization of the United Nations and many more clients worldwide.





Vision & Mission

Vision

To pioneer innovation in food processing and industrial machinery, creating sustainable solutions that empower businesses globally. Our vision is to lead with cutting-edge technology, enhancing efficiency and quality in food production while contributing to a greener, more productive industrial landscape.

Mission

Our mission is to engineer and deliver superior food processing, industrial, and dryer machines that exceed customer expectations. We are committed to continuous research, development, and technological advancement, ensuring reliability, environmental responsibility, and operational excellence in every solution we provide.

ROTARY DRUM DRYER

Today, exploring the diverse range of industrial dryers available in the market highlights how they have significantly streamlined business operations for customers. In the past, reliance on traditional dryers posed considerable challenges. High maintenance costs often eroded profits, while their energy consumption and heat emissions posed operational hurdles.

Presently, rotary dryers, also known as rotary kilns, dominate the industry for their versatile design catering to various client needs. These drum dryers efficiently reduce moisture in agricultural and forestry waste by utilizing heated gases. They feature robust construction with large and cylindrical tubes, making them ideal for drying a wide range of raw materials, including those with moisture content of up to 50%.



GENEX ROTARY DRYER

Rotary dryers are widely utilized across nearly all industrial sectors, demonstrating exceptional performance, particularly in the mineral processing, chemical, and fertilizer industries, as well as in recycling operations.

Application areas of Rotary drum dryers

- Building materials
- Sand
- Minerals
- Limestone aggregates
- Glass cullet
- Moulding sand
- Ceramics
- Chemical substances
- Pigments
- Clay
- Bentonite
- Agro Chemicals
- Fertilizers
- Recycling
- Waste materials
- Inorganic sludges
- Filter cakes
- Iron sulphate
- Titanium dioxide
- Hydroxides
- Magnetite
- Metal chips
- Wood chips
- Gypsum
- Ore
- Ilmenite
- Slag
- Potash
- Salts
- Dolomite
- Fly ash
- Coke
- Anthracite
- Talc
- Steel shot
- Bone grist
- Fodder
- Cocoa nibs
- Rice
- Bulgur
- Pulses
- Grains
- Organic Products
- Superfoods

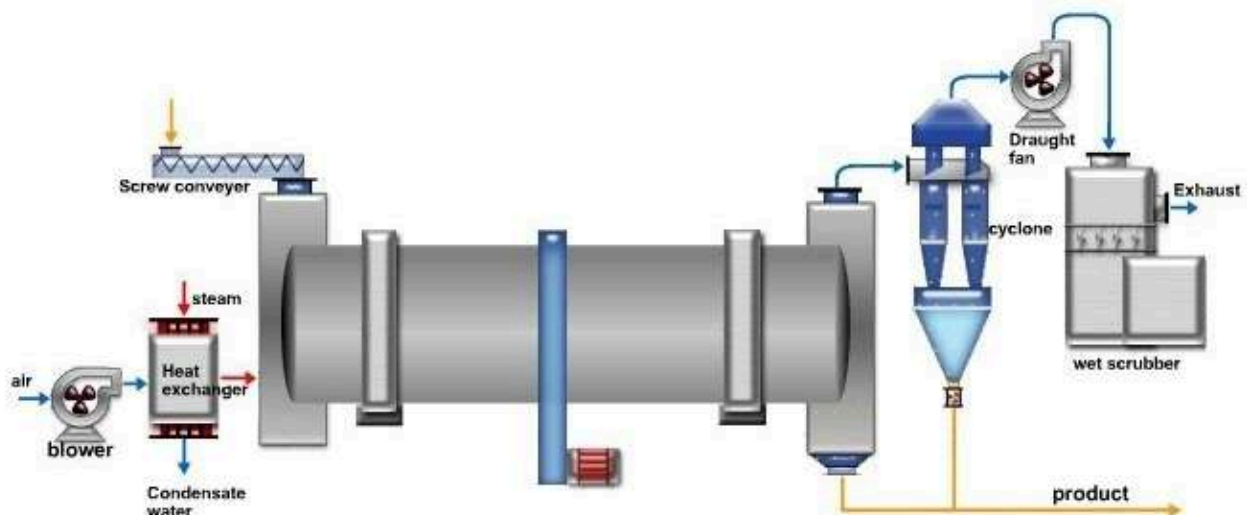


Working

In this process, steam is circulated inside a drum with a high heat transfer coefficient. The drying capacity depends on the surface area of the drum. Heat is transferred by conduction to the material, while the drum rotates at a rate of 1-10 revolutions per minute. As the drum rotates, the liquid material in the feed pan forms a thin layer on its external surface. The material is fully dried within slightly less than one complete rotation of the drum. A doctor's knife then scrapes off the dried material, which falls into a storage bin. The material remains in contact with the hot metal for only 6-15 seconds. Thus, processing conditions such as film thickness and steam temperature are precisely controlled.

Features

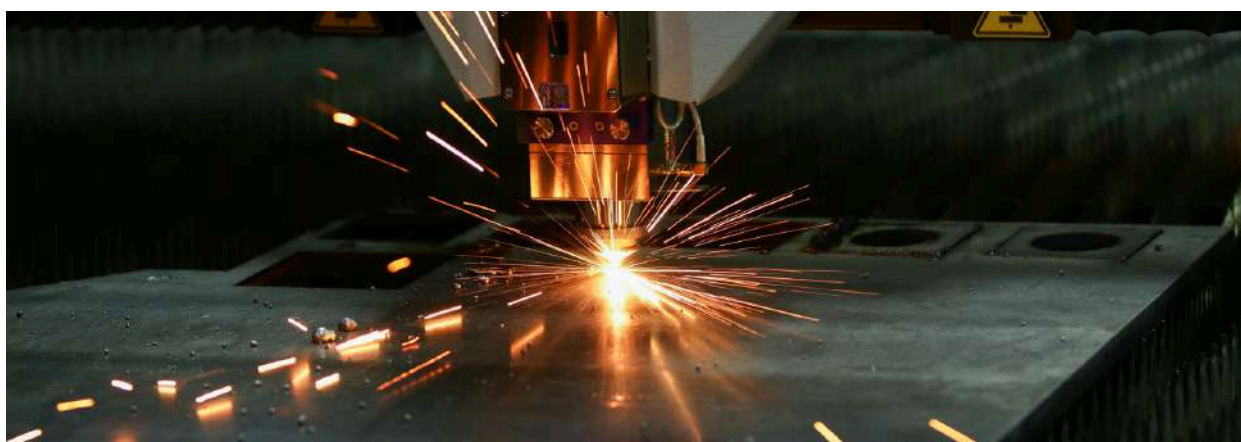
- These dryers excel in performance, crafted with precision for optimal functionality.
- Rotary drum dryers excel in enhancing heat transfer between materials and the hot gas stream.
- Rotary dryers are now preferred over traditional models for their versatility and specialized features.
- Widely utilized across agricultural, forestry, municipal waste, and petroleum industries.
- Cost-effective pricing makes these dryers accessible while meeting customer needs.
- Built robustly for long-term durability and customer satisfaction.
- Capable of processing large volumes of materials, streamlining industrial





Get In Touch

Discover innovation and reliability with our extensive range of food processing, industrial, and dryer machines. Engineered for efficiency and quality, our products promise to elevate your operations. Choose excellence, choose Genex Tech Industries, where cutting-edge technology meets unparalleled performance. Elevate your processing capabilities with us today.



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