



Product datasheet

Shaft Dryer

The gentle drying solution

Our shaft dryer was designed in close cooperation with the refractories industry and enables gentle drying of pellets and briquettes.

The Shaft Dryer operates according to the counter-flow principle.

It is specifically designed to reduce the moisture content of pellets or briquettes to a level acceptable for the kiln feed. Its unique design enables efficient heat exchange and generates only a small amount of fines, thus improving overall plant efficiency.

Preheated air (e.g. 300 °C) reaches the upper as well as the lower part by means of a drying air fan. In the upper section the hot gas enters the chamber and flows through a bundle of pipes from top to bottom. The pipes warm up and contribute to the drying process. To reach the required heat, the drying air is heated to a constant and controlled drying temperature by using an air heater.

In the lower section a cross construction and an arrangement of gas entry and exit cones ensure the distribution of the hot gas, which passes through the material in counterflow. The dried material is discharged through a cone into a tube which empties into a vibrating feeder.

Shaft Dryer

Technical specification

Fields of application

Drying of calcined material pellets, such as alumina or spinel

Main features

High thermal efficiency

Due to the controlled combustion chamber firing system, the hot gas generation makes very smooth plant operation possible, even when process off-gas is used

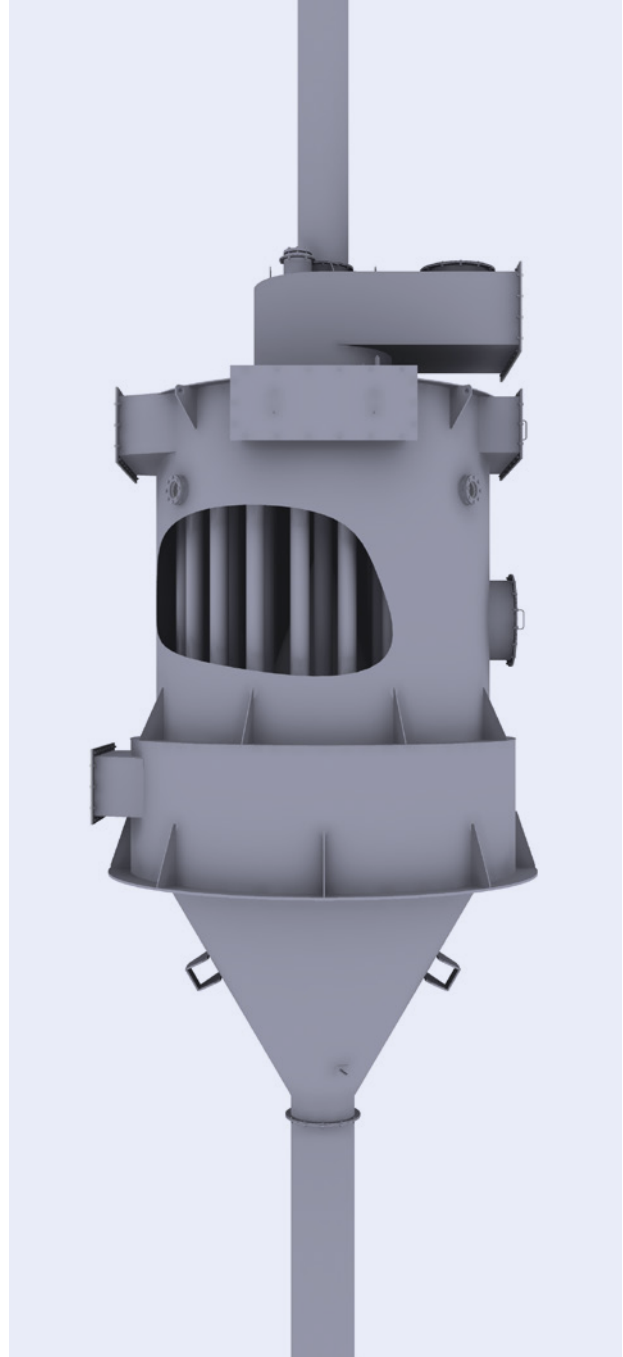
Gentle treatment of the feed material owing to its static structure

Low maintenance and operating costs

Low wear and low maintenance requirement

Design parameters

Daily output: up to 100 tons



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