



## High flexibility drying systems

### Proven design – low maintenance

Flash dryers serve the purpose of **rapid and gentle drying of fine-grained materials**. The dryer can be combined with a hammer mill and a separator in order to achieve the desired product grain size range. As a system component of a process chain, the shaft-type flash dryer is excellent for equalising fluctuations in raw material properties.

The material is fed into the riser duct of the dryer, through which hot drying gases from a combustion chamber, or exhaust gases from other thermal processes, flow from the bottom to the top. The gas and material are mixed intensively due to the special design. The dried product is normally collected in a cyclone.

Excellent mixing of the material and good flow conditions ensure very high drying speeds, such that even very moist materials often need a retention time in the unit of only a few seconds until they are completely dry. This is very important,

for example, in the case of temperature-sensitive materials. The thermal shock, which results from the material surface water spontaneously and violently evaporating, causes possibly existing larger agglomerations to burst even at the feed point. On the other hand, micro-agglomerations survive the drying process.

The flash dryer is suitable for interconnection with other machines, e.g. a mill or a POLCAL® gas suspension preheater.

# Flash Dryer



## Fields of application

Drying of phosphate, lime, dolomite, magnesite, gypsum, clay, metal ores, fly ash, slag and other fine-grained materials

## Main features

Effective drying with low energy requirement

Low space requirement

High availability

Great flexibility and simple operation

Low maintenance and repair requirement

## Design parameters

Daily capacity: 100 to 8000 tonnes

Grain size range of feed material: up to 2 mm

Dryer diameter: 0.4 to 3.6 m

Moisture of feed material: up to 35 %

With / without hammer mill

With / without combustion chamber

With / without wear protection

## Contact

thyssenkrupp Industrial Solutions AG

Graf-Galen-Straße 17

59269 Beckum, Germany

Phone: +49 2525 99-0

E-mail: [pyro.tkis@thyssenkrupp.com](mailto:pyro.tkis@thyssenkrupp.com)

[www.thyssenkrupp-industrial-solutions.com/pyroprocessing](http://www.thyssenkrupp-industrial-solutions.com/pyroprocessing)

Sales Agent

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