Buss-SMS-Canzler

CFT - Combi Fluidization Technology
Multipurpose Drying

We live process engineering
and special manufacturing

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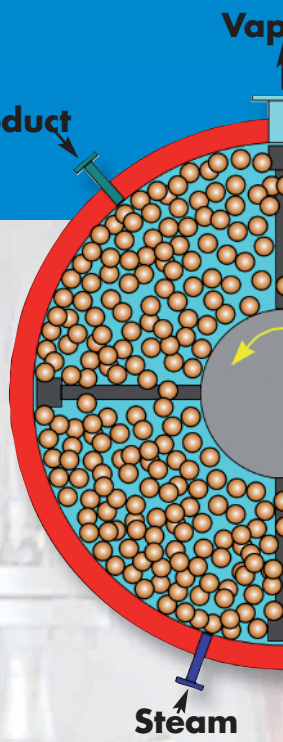
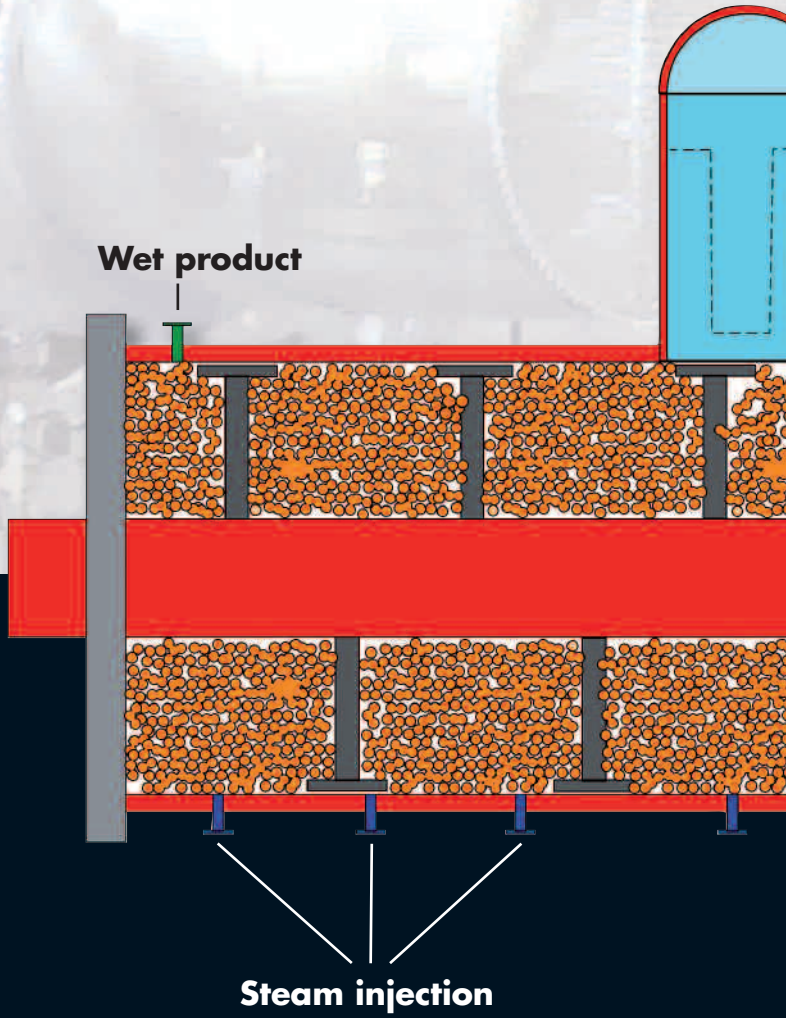
CFT - Combi Fluidization Technology Multipurpose Drying

Buss-SMS-Canzler has extensive experience in contact drying with thin film and segmented disc dryers.
The Combi Fluidization Technology is an innovation of our partner VER Verfahrensingenieure GmbH. The Combi Fluidization Technology combines contact and fluidized bed drying, and has its strengths in the economic treatment of sludges and pastes that are difficult to handle.
The fluidized bed in the horizontal dryer is produced mechanically, by a rotating paddle system. For processes under atmospheric pressure, steam can be applied as additional heat transfer medium and also serves as inertization.

The main component of the Combi Fluidization Technology is the CFT dryer. This dryer is filled with dry product, which is fluidized by the rotor. The wet product is fed into the hot fluidized bed, and is immediately encapsulated by the dry product. Due to the movement of the fluidized bed, the wet product is evenly distributed throughout the dry product and dried efficiently. By encapsulating the wet feed, sticky phases, product balling, and product sticking or forming crusts on the wall are largely avoided.

The whole process can be compared with the conventional drying with external reflux system. However, with our Combi Fluidization Technology the external mechanical work is no longer necessary.





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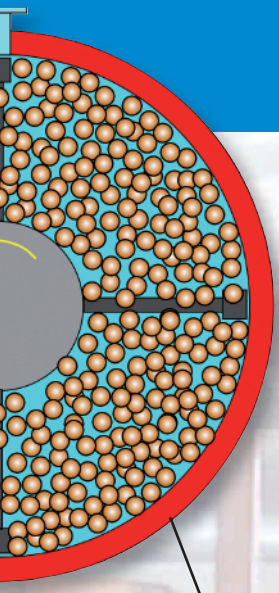
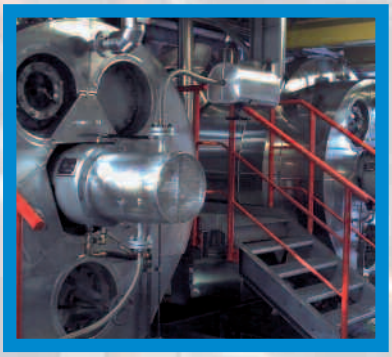
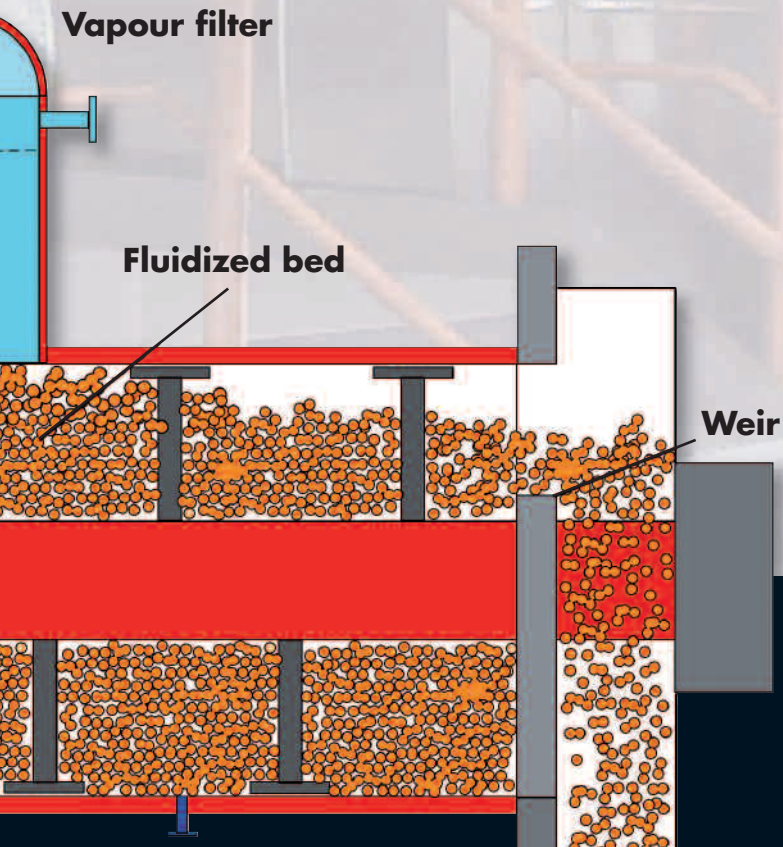
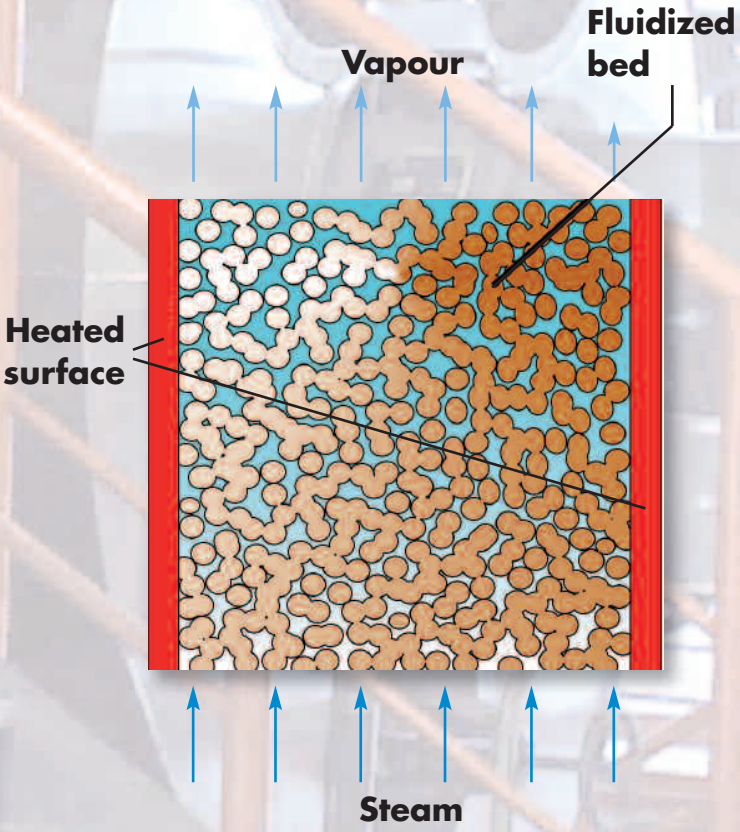


Heated shell



The range of application of this technology is very wide, as various heating methods are available and temperatures up to approx. 600°C can be reached. Additionally, the CFT dryer can be operated under vacuum or pressure.





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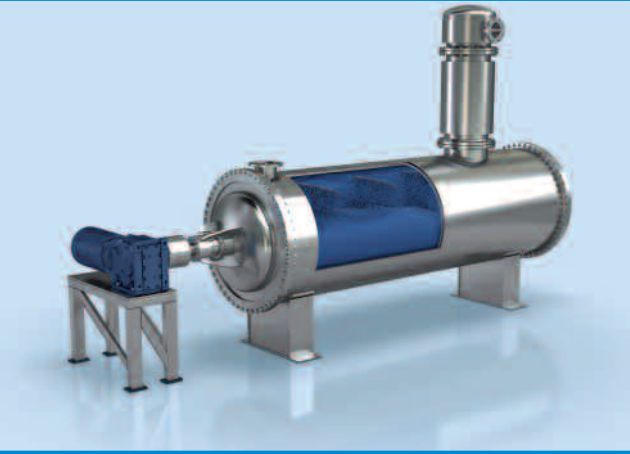

Range of Application

Many of the slurries and sludges occuring in the field of environmental protection can be processed under atmospheric pressure, as e. g. ink and varnish slurries.
Moreover, the Combi Fluidization Technology offers a very interesting alternative with regard to cost and energy demand compared to the spray drying of products with sticky phases, if no specific properties and conditions of the dry product are indicated.

Further applications are:

Application	Type
Environment	
	Industrial sludges
	Sewage sludges
	Drilling muds
	Decontamination of soils
	Tar sludges
Coal applications	
	Coal slurry
	Coal from biomass
	Brown coal
Biological processes	
	Residues from fermentation
	Marc
	(grain, wine, fruit)
Chemicals	
	Salts
Food	
	Yeast
Pet food	
	Starches
	Proteins

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