

[Rapid Dryer. HRD]

**HAZEMAG**

**Experience.  
Innovation.  
Results.**

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**Crushing | Screening | Feeding**

# Rapid Dryer

**An agitator shaft dryer which can handle many different materials**

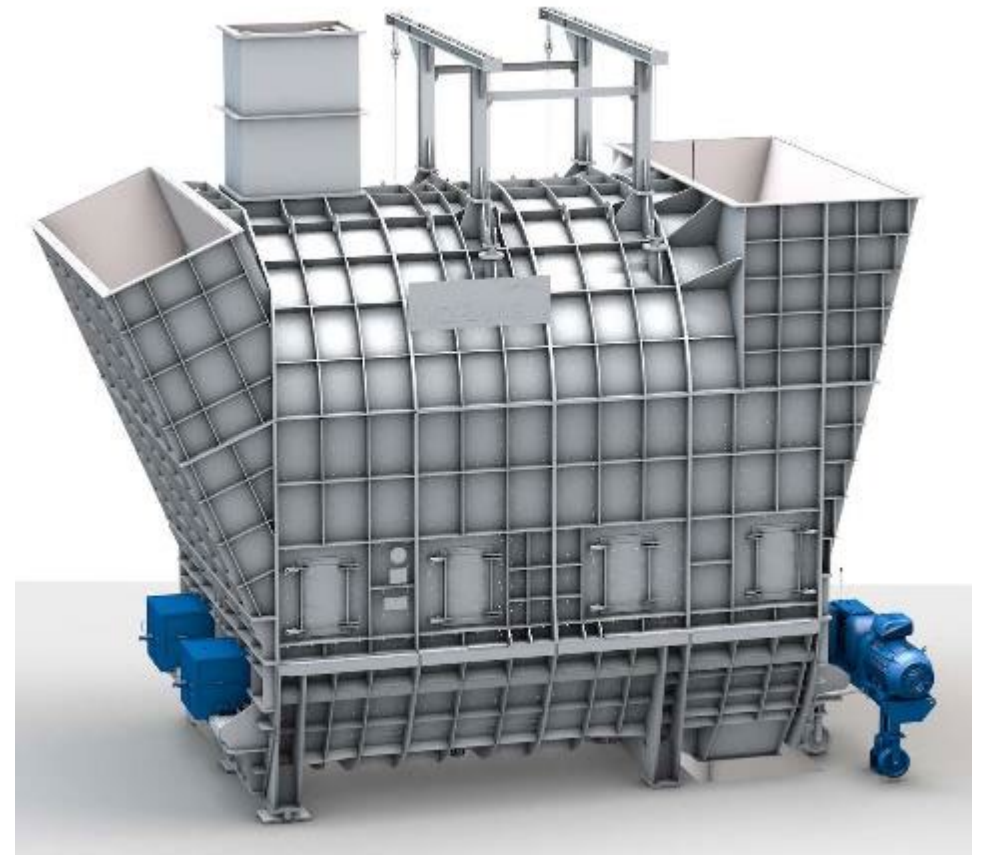
- Drying medium: hot gas, usually the flue gases from an oil - or gas-fired hot gas generator
- Compact, rugged design
- Minimum material retention time
- High heat efficiency



# Application

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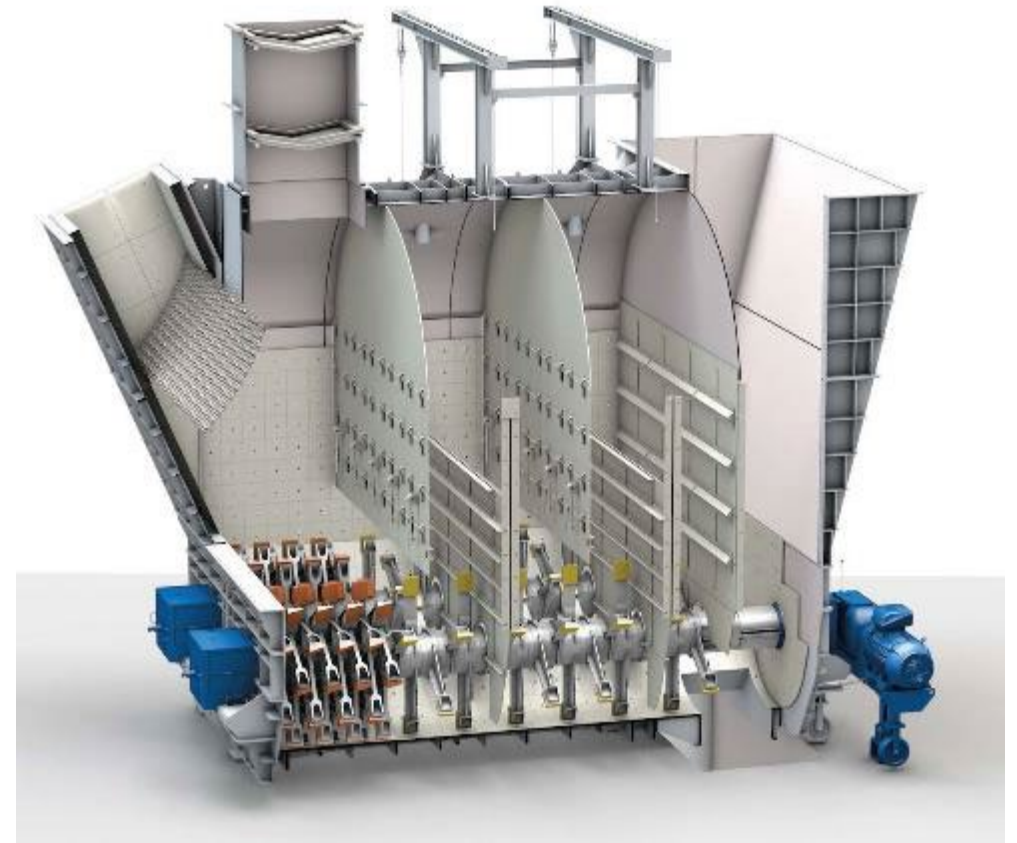
- Thermal drying (water vaporization)
  - Clay
  - Gypsum
  - Chemical gypsum
  - Chalk
  - Fly ash
  - Fluorite
  - Bentonite
  - Trass
  - Puzzolana



# Operation Method

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- Hot gas and feed material are passing the dryer
- Feed material is mechanically agitated with the paddles mounted on the two shafts
- Thermally-mild drying within short time, without overheating the material
- Material is broken up into small lumps, which results in intensive water evaporation



# Operation Method

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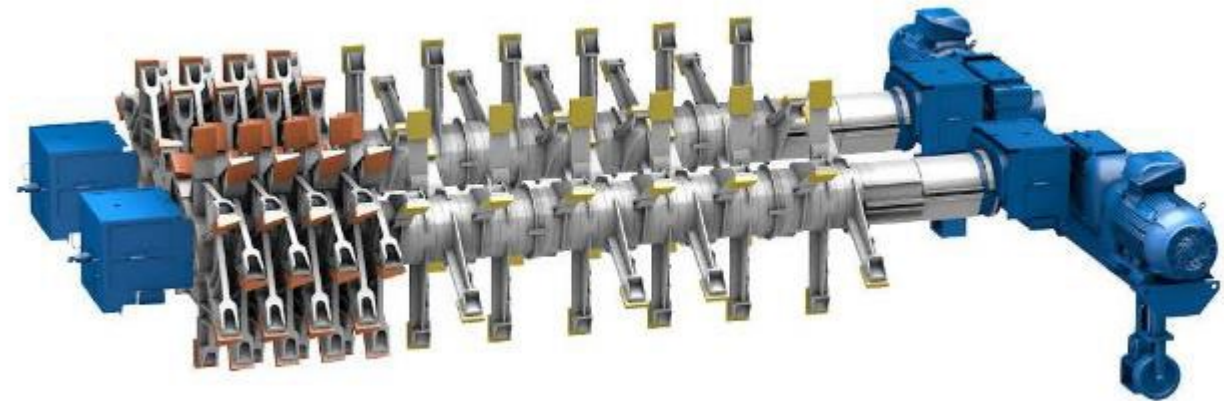
- Without overheating the material
- Intensive moisture evaporation is coupled with simultaneous drop and drying gas temperature
- Material is broken up into small lumps
  - Permits intensive transfer of heat and matter



# Equipment

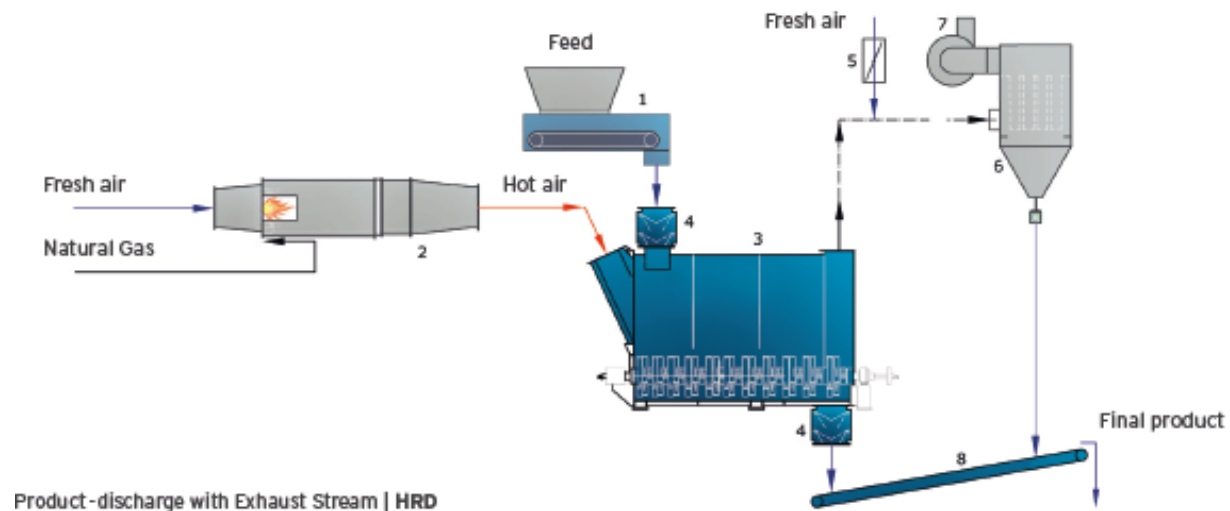
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- Consists of
  - Frame
  - Housing lower and upper part
  - Hot gas nozzles
  - Exhaust gas nozzles
  - Drive units
  - Two rotating agitator shafts in the lower housing
- Agitator shafts are equipped with throw arms on which paddles are bolted
- Partially protected against wear with exchangeable wear liners
- Internal height adjustable compartment walls control the retention time



# Product Discharge

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Dried product

# Product Description

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Type	Agitator Shaft Dimensions [mm]	max. Water Vaporisation* [kg/h]
HRD 0630	590 x 3.000	670
HRD 0637	590 x 3.740	800
HRD 0837	780 x 3.740	1.400
HRD 0940	900 x 4.040	2.800
HRD 0946	900 x 4.640	3.800
HRD 1051	1.050 x 5.060	5.100
HRD 1061	1.050 x 6.080	6.600
HRD 1261	1.240 x 6.080	10.000/13.5000
HRD 1861	1.800 x 6.080	17.000/21.000
HRD 2170	2.100 x 7.040	27.000

\* depending on feed material size distribution and density



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