

[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**

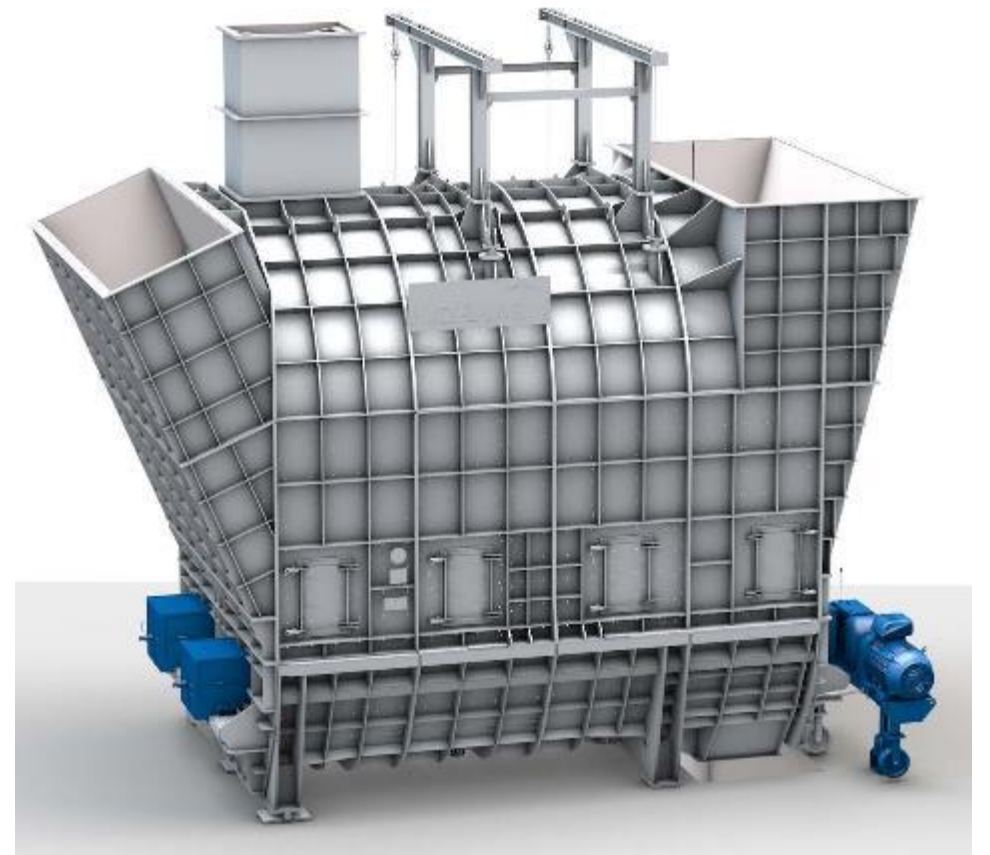
- Drying medium: hot gas, usually the flue gases from an oil - or gas-fired hot gas generator
- Compact, rugged design
- Minimum material retention time
- High heat efficiency



# Application

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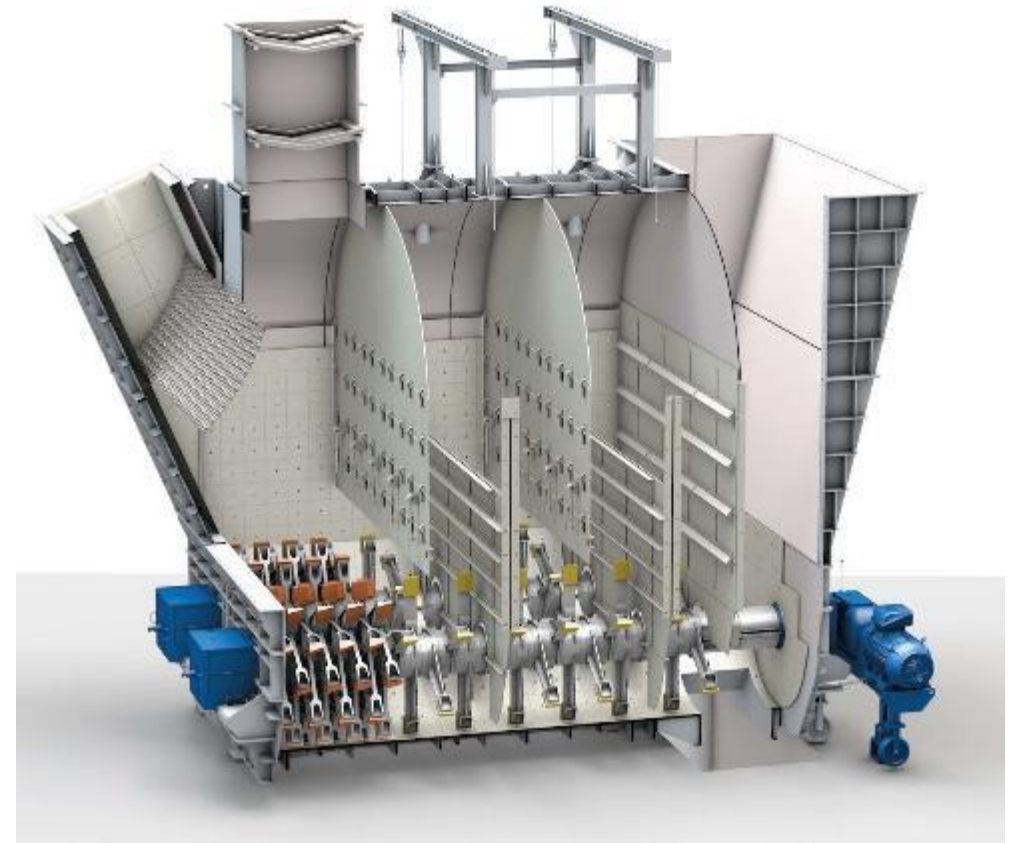
- Thermal drying (water vaporization)
  - Clay
  - Gypsum
  - Chemical gypsum
  - Chalk
  - Fly ash
  - Fluorite
  - Bentonite
  - Trass
  - Puzzolana



# 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

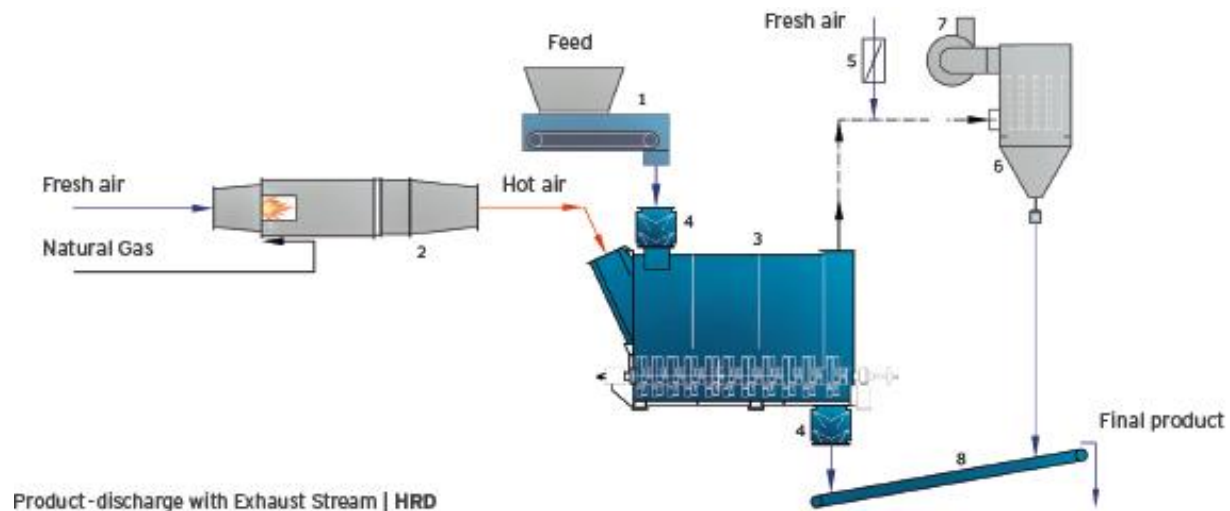
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- Consists of
  - Frame
  - Housing lower and upper part
  - Hot gas nozzles
  - Exhaust gas nozzles
  - Drive units
  - Two rotating agitator shafts in the lower housing
- Agitator shafts are equipped with throw arms on which paddles are bolted
- 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



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