



The drying flexibility

Proven design – highest process flexibility – low maintenance

Rotary dryers are used in the minerals industry for drying wet and/or abrasive materials. They are designed for very **high throughputs** and can process materials with **diverse granulometric properties**.

A rotary dryer consists of an inclined rotating cylinder with internal lifter or blades, where the process material is dried through direct contact with the hot gases.

The thyssenkrupp Industrial Solutions direct fired drying drums are heated with coal, oil, gas and/or waste heat. The continuously operating rotary dryers are designed for co-current or counter-current operation with single or variable speed drive.

Depending on the material characteristics, different shapes of blades/internals such as a scoop lifter can be selected for higher heat transfer between hot gas and material.

Different sealing systems for dryer feed end and discharge end are available for most economic operating conditions, in order to avoid emissions and false air intake.

In combination with rotating screen, hot gas generator and off-gas system, the rotary dryers can be individually designed for various applications and demands, thereby achieving the best solution for our clients.



Fields of application

Drying of various ores and concentrates such as nickel, iron, zinc, vanadium

Drying limestone and lightweight aggregates

Drying of phosphates and fertilizers

Drying of other materials

Main features

Controlled drying process while maintaining low fuel consumption

Rugged design with high availability and low maintenance cost

High throughput

High flexibility for drying materials varying in material size and moisture

Design parameters

Fuels such as coal, oil, gas and/or waste heat with hot gas temperatures up to 1000 °C

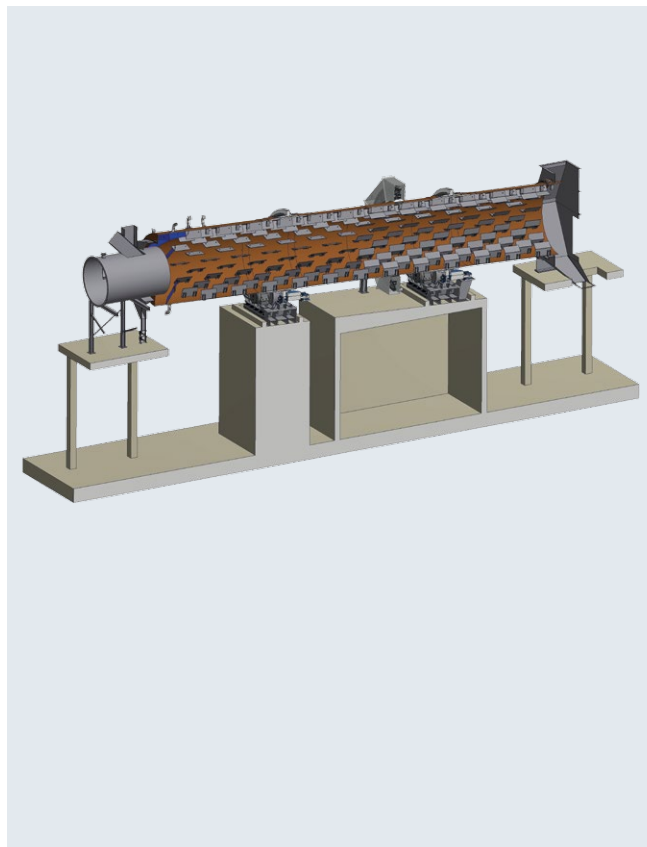
600 t/h throughput (e.g. for Ni-Ore)

Single or double speed drive with rugged design

Co-current or counter-current design

Variable diameter up to 7.2 m

Variable length depending on product moisture



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