



POLSINT® High-temperature shaft kiln



It's getting hot

Proven design – highest temperatures – best product qualities

The POLSINT® high-temperature shaft kiln has been designed especially for use in the refractories industry, in order to thermally **treat and sinter different materials at extreme temperatures of up to 2300 °C**. Thanks to its high flexibility, POLSINT® fulfils the complex and very specific requirements of this industry with regard to product quality and the wide range of raw materials.

The POLSINT® is fed with lumpy raw material (crushed, briquetted or pelletised), which is sintered at extremely high temperatures in the counterflow to the combustion gases. To obtain these high temperatures, preheated air that has previously been supplied for cooling the product at the discharge end of the kiln is used as secondary air. The fuel is injected via radially arranged burner lances that reach into the bed of material, in order to ensure an optimal temperature distribution. A variable-speed discharge mechanism controls the quantity of product discharged from the kiln.

POLSINT® provides high flexibility with regard to the demands on product quality and the temperature profile of the feed material.



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Fields of application

Calcination of magnesite, dolomite, limestone, kaolin and bauxite

Direct sintering of natural magnesite, dolomite and kaolin

Sintering of calcined materials (magnesia, dolime, alumina, spinel)

Main features

Uniquely high thermal efficiency

High flexibility regarding temperature levels and profiles for highest product quality

Operation at up to 2300 °C

Suitable for liquid and gaseous fuels, including low calorific gas

Low maintenance and operating costs

Specific heat consumption (kcal/kg)

Raw magnesite/dolomite: 1200 to 1300

Bauxite: 400 to 800

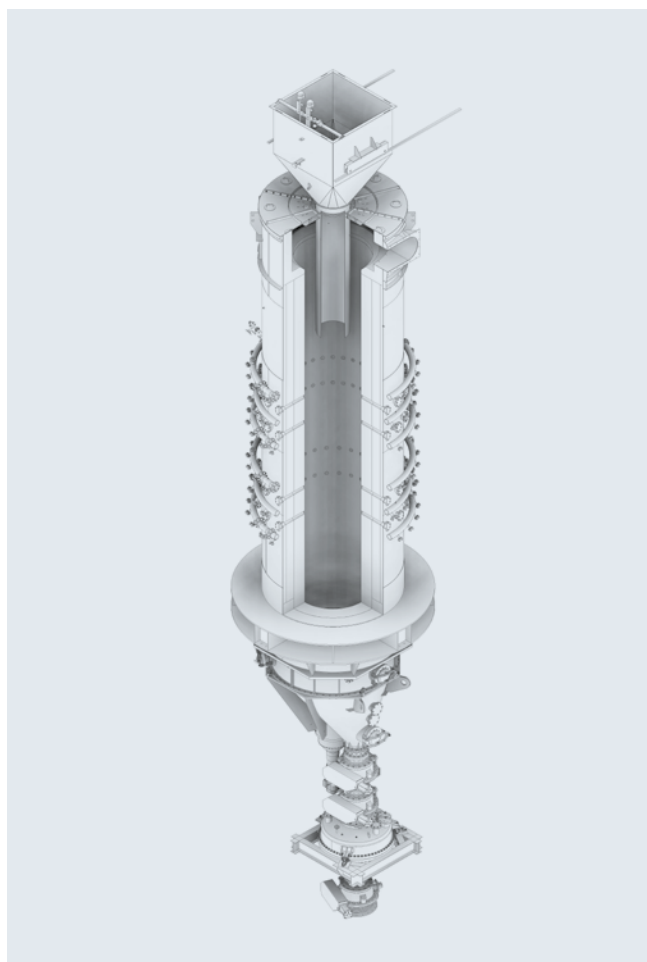
Kaolin: 300 to 600

Calcined magnesia/dolime/alumina: 200 to 400

Design parameters

Outside diameter: 2.1 to 3.6 m

Daily output: 10 to 200 tons (depending on the type of application)



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Sales Agent

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