

# Roller kiln



The roller kiln is a modern firing aggregate in modular design and different constructions for many fields of application and firing of:

- Tableware and porcelain
- Technical ceramics
- Roof tiles and accessories
- Clinker bricks and spilt tiles
- Sanitary ware
- Special applications

Newly developed roller kiln concepts ensure highest product quality at minimum maintenance and personnel expenses.

The reliable roller drive system is equipped with helical gearing and runs in an oil bath, practically maintenance-free. Further advantages of this kiln type are the high temperature uniformity over the setting cross section in the different kiln zones and the significant reduction of the specific energy consumption and of the transit time.

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### Technical data

- Kiln length up to 150 m
- Setting width up to 3 m
- Roller level 1 - 3
- Firing temperature 800 - 1650 °C
- Fuel natural gas, liquid gas, others upon request
- Firing cycle 20 min up to 48 h, depending on application
- Kiln insulation fibre, lightweight bricks or sandwich construction

### Characteristics of roller kilns

- modular design
- low energy consumption due to optimised kiln control and high quality refractory lining with best isolating properties and high refractory resistance; lining alternatively with refractory lightweight bricks or as full fibre lining
- excellent firing results due to ideal temperature distribution
- high velocity nozzle mixing burners
- maintenance-free roller drive system
- self-optimisation of burners after power failure
- regulation by means of process control system with remote control function
- kiln visualisation system available in many different languages
- remote control and teleservice via modem connection
- minimum maintenance and not much personnel required due to automation
- oxidising/reducing atmosphere with high reproducibility possible
- slab transport system according to individual demands

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