

ROTARY KILN TECHNOLOGY



TECHNOLOGY

Rotary kilns are used for a variety of thermal material conversion processes for free-flowing, granular bulk materials. The bulk material can be calcined (lime), sintered (cement), roasted (phosphate), expanded (expanded clay), regenerated (lime sludge) or its crystal structure can be changed (aluminum oxide) in the rotary kiln.



Rotary kiln

The bulk material is fed in countercurrent to the hot gas. The running rings support the weight of the rotary kiln via the rollers and the foundations and are supported twice or multiple times. The rotary kiln is driven by a motor (e.g. gear ring pinion drive, friction wheel drive).

ZETTL GmbH has many years of experience in special plant construction and can manufacture rotary kilns of any size and tailored to the needs of the costumers. Pyrolysis kilns have proven themselves for recycling old tires, waste wood, composite materials, biomass and sewage sludge. The advantage is obvious, because the rotary kilns can carry out various operations for thermal processes individually or in combination, e.g. for high throughputs and process-related, long residence times.

APPLICATION

Environmental technology:

Old tires
Composites
Lignite
Sewage sludge
Waste incineration
Decontamination of soil

Minerals, ores, building materials:

Gypsum
Aluminium Oxide
Ceramic and glass material
Aluminium scrap

TECHNICAL DATA

Diameter:	up to 6 m
Lenght:	up to 130 m
Working temperature directly:	up to 1.150 °C
Working temperature indirect:	up to 850 ° C
Inclination/Speed:	process-oriented

THROUGHPUT

Pyrolysis:	up to 1,3 t/h
Contaminated soil:	up to 6 t/h

