



Rotary Kilns for Mining

Designed for the toughest service in the toughest applications. We are the world's leading supplier of rotary kilns for mining applications. From the most remote locations to the most urban locations, we deliver the highest level of kiln and pyroprocessing technology to a wide range of industries and applications.

Kiln construction features:

- Shell materials for any application
- Shell internals to optimize heat transfer for any process
- Fully floating cast or forged riding rings for smooth operation
- Proprietary sleeve bearings for vibration free operation and easy maintenance
- Hydraulic and mechanical thrust devices to maintain alignment
- Gear and friction drive designs
- Mid-kiln fuel/air injection technology for reaction atmosphere control
- Multiple burner technologies for single or multiple fuels and optimum burning zone control
- Sizes from 1 meter to 6.5 meters diameter and up to 200 meters long

Durable and efficient by design

Our process experts develop the most efficient process solutions, helping our customers produce their product reliably, consistently, and cost-effectively, using the least energy and with the lowest possible emissions.

Complete kiln system auxiliaries including:

- Feed preparation and feed homogenization systems
- Fuel preparation and dosing systems
- Multistage cyclone preheater and precalciner systems
- Flash dryer technology
- Kiln offgas treatment systems
- Kiln product coolers
- Heat recovery systems
- Automation / digitalization and controls
- Product handling, storage, and packaging systems
- CemScanner™ continuous kiln shell scanner
- KilnLoq® gas analyzer systems
- ECS/ProcessExpert® process control and process management systems
- Digitalization and remote system monitoring and control

In depth experience with wide range of applications such as:

- Alumina
- Bauxite
- Catalyst
- Clay
- Dolomite
- Diatomaceous earth
- Ferro-Nickel / Ferro Chrome
- Iron Ore
- Ilmenite
- Lightweight Aggregate
- Limestone
- Magnesite
- Petroleum Coke
- Phosphates
- Rare Earth
- Soda ash
- Spodumene
- Trona
- Vanadium Salts

Take full advantage of our process experts and test equipment. Our extensive Test Center, located near Bethlehem, PA USA, is home to multiple rotary kilns, from small-scale batch kilns to pilot scale kilns. Also available for testing are gas suspension preheaters, flash dryers, rotary dryers, milling, classification, gas treatment, material and fuel preparation, and dosing equipment; all available to simulate your complete pyroprocess in the lab, making sure that your capital investment will perform as expected before you make the investment.



FLSmidth A/S

Vigerslev Allé 77
DK-2500 Valby
Copenhagen
Tel: +45 3618 1000
Fax: +45 3630 1820
E-mail: info@flsmidth.com
www.flsmidth.com

Copyright © 2020 FLSmidth A/S.
ALL RIGHTS RESERVED. FLSmidth is a (registered) trademark of FLSmidth A/S. This brochure makes no offers, representations or warranties (express or implied), and information and data contained in this brochure are for general reference only and may change at any time.

Advanced burner designs for optimized combustion and fuel efficiency and low emissions

- Optimized heat input
- Single or multi-fuel designs
- Solid, liquid, gas and waste fuel designs
- Solid and waste fuel preparation and dosing systems