



# **ON-SITE SERVICES FOR ROTARY KILNS**

# COMPLETE SERVICE SOLUTIONS FOR ROTARY KILNS

## Engineering and planning of maintenance projects

FLSmidth can provide on-site evaluations to:

- Define the job scope and welding procedure
- Specify needed resources such as cranes, tools, and manpower
- Detail the project schedule to ensure a smooth and efficient turnkey project execution.

## Installation services

The scope of kiln installation services includes:

- Delivery and replacement of field sections/tire sections and rollers
- Delivery and installation of girth gear, pinion and drives
- Maintenance services on kiln inlet and outlet sections and seals
- Change, reversal and alignment of girth gear, pinion and drives
- Installation of new kiln lines.

## Repair & refurbishment

Repair and refurbishment services help to reduce unplanned stoppages. Our on-site high-precision machining and grinding services mean that your plant equipment is refurbished in the shortest possible timeframe. **Our services include:**

- Surface grinding of tires/rollers during normal operation
- Grinding of thrust roller surface
- Adjustment of rollers after grinding

- Gouging and crack welding solution of all kiln components
- Installation and scraping of new bearing brasses.

Our mobile machining equipment can be prepared quickly and packed in containers for transporting to your site.

## Hot kiln alignment and measuring

Beside the visual inspection of your equipment, we also apply advanced measuring techniques for a wide range of measurements on all rotary equipment:

- Vertical and horizontal axis
- Kiln crank analysis
- Tire wobble range
- Shell test
- Girth gear and pinion worn out/wobble
- Gear, pinion and drive alignment/adjustment
- Drive vibration analysis.

We do not only provide you with a detailed measuring report, we also give you a general evaluation of the equipment, including specific conclusions and actual actions to take.

## Customised solutions

In addition to the above capabilities, FLSmidth offers a single source for a complete range of services – ranging from feasibility studies and condition monitoring to engineering, spare parts supply and installation – to match the specific needs of your plant.



Tire grinding



Theodolite measuring

FLSmidth supplies all the kiln installation tools required, including:

- Constructing support towers
- Cutting and welding equipment
- Lifting devices
- Auxiliary drives for kiln rotation