

Rotary kiln sealing system

Advantages

- Low maintenance due to automatic adjustment
- Smooth compensation of radial and axial runouts
- Reliable prevention of false air suction and media blowout
- Reduction of energy costs and media losses
- Increased process efficiency
- Long maintenance intervals
- Retrofit capability for existing kilns



Operating range

- Diameter: 1000–8000 mm
- Maximum process temperature: 1100 °C (2012 °F)
- Rotational speed: max. 2 m/s
- Radial movement capability: 35 mm
- Axial movement capability: 300 mm

* other values on request

Features

- Packing ropes with sliding elements guided in a housing
- Prestressed ropes ensure continuous contact with kiln tube
- Self-adjusting sealing elements with spring system
- Guide plates for optimal positioning and radial movement compensation
- Tension unit serves as wear indicator
- Optional dust discharge system
- Freely selectable size

Recommended applications

- Kaolin calcination
- Titanium dioxide calcination
- Gypsum processing
- Chemical industry
- Building materials industry

Materials (metal parts)

- Body cover: Stainless steel
- Guide plates: Bronze
- Packing: Braided cord with PTFE impregnation (asbestos-free)
- Thrust plate: Stainless steel
- Housing: Stainless steel

Functional description

- Two packing ropes with sliding elements are guided within a housing. The ropes are prestressed to maintain contact between the kiln tube and the sealing elements.
- Self-lubricating packing rings reduce wear and allow for easy replacement.
- Guide plates ensure optimal positioning and compensate for radial movements. A spring system absorbs frictional forces and prestresses the sealing ropes.
- Self-adjusting tension unit used as a visual wear indicator.
- A dust discharge system enables the removal of process residues. The split housing design allows for retrofit installation.

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