



Precise and safe lubrication

of the inner surfaces of riding rings at rotary kilns

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With the handy “ss. LUBAC Ring Star” lubrication gun or the fully automatic, stationary Ring Star automatic application unit of ss.LUBAC, the lubricant can now be applied with pinpoint accuracy to into the ring gap of the riding ring or onto the surface of the axial stopper

Until now, manual lubricant application into the riding ring gap of rotary kilns was a major challenge for maintenance staff. The reason: high temperatures up to 400°C and the rotating kiln tube are a potential danger that should not be underestimated. With the Ring Star unit, the lubricant can now be applied precisely, in sufficient quantity and at a safe distance

Automatic filling - proven method - safe for the employee

With the manual, compressed air operated lubricant gun, the lubricant comes at high speed directly into the riding ring gap at high speed. The Ring Star lubrication gun is connected to the compressed air supply network at the operating site via a compressed air quick coupling and a hose line. Once the lubrication gun is filled with the lubricant, it is immediately ready for operation. The unit is equipped as standard with a filling connection and a level sensor for automatic filling.

Benefits at glance

- Precise lubricant application
- Saving time and money
- The amount of lubricant is properly dosed
- Sustainable use of lubricants
- No contamination in the area surrounding the rotary kiln
- Prevention of occupational accidents – application is done from a safe distance
- Perfect for **WOLFRACOAT C FLUID** and **GRAFLOSCON SY 20 ULTRA**, leading products for this application



ss. LUBAC Ring Star unit

Technical data	Ring Star lubrication gun	Ring Star automatic unit
Weight	Approx. 4.5 kg	Approx. 50 kg
Container volume		1.5 cdm
Max. spray distance		1,500 mm
Operating temperature range		+10 to +45 °C
Input air pressure	1.5 – 4 bar	1.8 – 8 bar
Required air quality		744 (ISO 8573-1)
Air pressure filter		270 µm

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A proved solution among experts in the cement industry

Companies, such as the cement plant LEUBE in Austria have installed an automatic filling station.

“The ss.LUBAC Ring Star – lubricating gun has been in use at LEUBE for several years. Directly at the rotary kiln installed is the automatic filling station and at each riding ring is a connection to the compressed air system. We prefer the manual version of the Ring Star because the maintenance staff can make service inspections on the rotary kiln at the same time,” explains Christian Wörgötter, Head of Plant Management and Maintenance of the Zementwerk LEUBE GmbH.

The advantage for the customer

The lubricant can be applied with the ss.LUBAC Ring Star from a safe distance. “Because of this guided shot our lubricant WOLFRACOAT C FLUID gets directly into the ring gap. The amount of lubricant is properly portioned and there is no contamination in the surrounding area of the rotary kiln,” says Werner Gschwandtner, Technical Consultant at Klüber Lubrication Austria. “This precision also serves the safety of the employees. They can work precisely in spite of high temperatures.”

Preventing contamination of the plant and the safe and precise application of the lubricant were also the deciding factors for the development of the ss.LUBAC Ringstar. “A longtime customer contacted ss.LUBAC. He had seen other lubricating systems, but could not see his ideas of precision and cleanliness in the current application solution realized,” confirmed Thomas W. Schulz, Managing Director and founder of ss.LUBAC in Bad Ischl. “We incorporated all the suggestions of the experts from the cement plants into the development. We were also in close contact with Klüber Lubrication. It was clear from the start that our solution with WOLFRACOAT C FLUID must be functional, as this lubricant is known as one of the leading products for this application on the world market.”



Lubricating the ring gap using ss. LUBAC Ring Star

WOLFRACOAT C FLUID

for rotary kilns with usual shell temperature

Viscous high-temperature lubricating compound with solid lubricants

Mineral / ester oil mixture

Functionality of the lubricating film down to -25 °C

Evaporation of the base oil from 200°C
Upper service temperature > 500 °C

GRAFLOSCON SY 20 ULTRA

for rotary kilns with increased shell temperature

Liquid high-temperature solid lubricant synthetic oil dispersion

Fully synthetic base oil

Functionality of the lubricating film down to -30 °C

Evaporation of the base oil above 300 °C
Upper service temperature > 500 °C

Solid lubricant content approx. 14 - 18 % by weight



Safely stowed away: filling station including automatic filling device of the ss. LUBAC Ring Star at the LEUBE cement plant

Automatic application unit for precise application

As an alternative to the manual Ring Star applicator gun, the ss.LUBAC Ring Star system can also be set up stationary and for fully automatic operation. In these stationary systems, all components are housed in a sheet metal cabinet and are kept at operating temperature with an integrated Vortec compressed air cooling system.

These systems installed fixed at the kiln are controlled by sensors, depending on the respective operating parameters of the furnace and spray the lubricant to the ring gap with the utmost precision.



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