



Customer Success Story

We pioneer motion

Correct lubrication keeps roller presses running smoothly
Increased operation time, savings in five-figure range

The roller presses of an Indian manufacturer of gray and white cement as well as ready-mix concrete are under heavy stress during the crushing process with a total output of 100 million tons per year. For this reason, high quality Schaeffler cylindrical roller bearings are also installed in these in order to optimize the manufacturing process. In addition, to increase bearing life, the cement manufacturer switched his lubrication to the efficient, environmentally friendly Schaeffler performance grease Arcanol LOAD1000, which is designed for high loads.

Customer
Manufacturer of cement,
India
Sector
Cement
Application
Roller presses
Solution
Lubricants

Customer benefits

- Highly increased grease service and bearing life
- Customized lubricant: perfectly designed for high bearing loads
- Best suited for working conditions involving a high degree of contamination and shock loads

What drives our customer ...



Challenge

When the roller presses are not working properly, the clinker does not have the required fineness and is therefore of poor quality. If the roller press comes to a standstill, there is a risk of production stop of 10-12 days. For many years, the customer has therefore been using special Schaeffler cylindrical roller bearings for this application.

The reason is that these bearings can withstand constant pressure, impact loads and contamination. What worried the maintenance team was the question of optimum lubrication. Previously, non-specialized lubricants were often used. This meant that more lubricant was needed, bearing life was shortened due to incorrect lubrication, and there was a higher risk of unplanned downtime.



Technical information roller presses

Roller diameter	1400 ~ 2000 mm
Production capacity	950~1050 tons/h
Application	Raw material of cement, clinker and other materials.
Bearing	Cylindrical roller bearings, Z 517680

What Schaeffler offers ...

Solution

To avoid such lubrication-related failures and downtimes, Schaeffler recommended the lubricant ARCANOL-LOAD1000. This high-performance grease is specially adapted to the requirements of roller presses and is therefore also recommended by the OEM for this application.

How well the performance grease is matched to the application and how it differs from greases from other manufacturers can be seen in the graphic 1 below.



arcanol LOAD1000 Bearing Grease

Information on the high-performance grease Arcanol LOAD1000

Worked penetration / 0,1 mm	265-295
Drop point	≥ 180
Copper corrosion after 24h/120°C (T2 cooper, 100°C/24h)	≤ 2
Base oil viscosity 40°C	1000 mm ² /s
Base oil viscosity 100 °C	38 mm ² /s
Water resistance (79 °C, 1 h)	≤1-90 %
Corrosion protection (Emcor)	≤ 0 / 0
FE8 (536050,7.5/80-RT)	≤ 35 mg
FE9 bearing lifetime (A/1500/6000-140°C, L50)	≥ 150 h
Maximum speed (roller bearing)	200,000 mm/min.

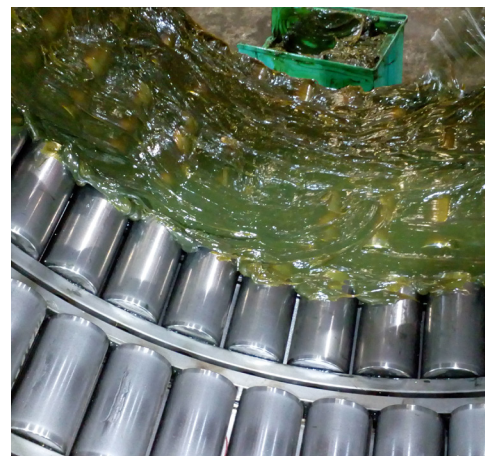
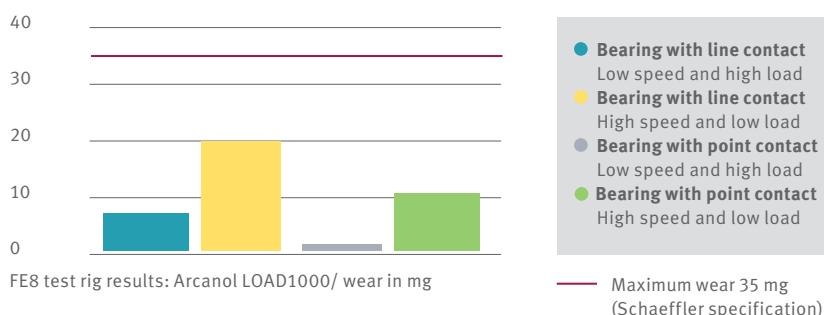
What's special

The customer benefits from a customized solution for his applications from a single source.

The complete package – the cylindrical roller bearings and the ARCANOL-LOAD1000 lubrication solution – fulfills the specific requirements of a roller press. The customer was so enthusiastic that

he immediately signed an annual contract for his lubrication needs. Everything from a single source also means that the customer uses condition monitoring solutions from Schaeffler.

Graphic 1: Arcanol LOAD1000 has excellent wear properties for various bearing types and application conditions.



Schaeffler bearing greased with Arcanol LOAD1000

What else Schaeffler has to report ...

Suitable lubrication specifications Easy to access and free of charge

The intuitive Schaeffler Grease App tells you when and how to lubricate. The app is available in web based form or as an app for smartphones. With just a few entries and clicks, you will always have the most suitable type of Arcanol grease, grease service life, the relubrication interval, and the lubricant quantity for initial lubrication and relubrication of your bearings.

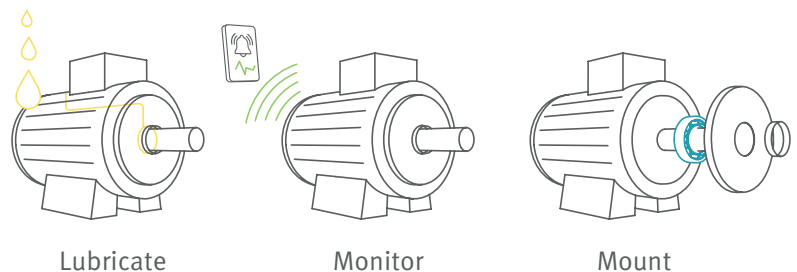
In other words: One less thing to worry about ...



[Link](#)

Arcanol LOAD1000 is part of the Schaeffler Lifetime Solutions portfolio, which offers a comprehensive range of products, services and solutions for industrial maintenance. It is designed to support maintenance engineers over the entire lifetime of a machine.

www.schaeffler.de/en/lifetime-solutions



Customer

The company is one of the very reputed producers of gray cement, ready-mix concrete in India.

Why Schaeffler?

- Lubricant experts
- Technical know-how
- Competent customer service

Why this specific solution?

- 100% verified lubricating greases
- Longer bearing life
- Environment-friendly