Grinding retrofits

Trunnion bearing Iubrication system

Automated system to extend bearing and trunnion life





Your challenge

Maintaining oil temperature, flow, and cleanliness is vital for the health of your mill. If not controlled, fluctuations can shorten the life of key components.

The Metso solution

A trunnion bearing lubrication system retrofit featuring:

- Custom-sized reservoir
- Filtration system and heat exchanger
- Temperature, flow, and pressure instrumentation

Reservoir to separate contaminants from lubricant

- Sized for proper retention time, allowing dirt and air to separate from the oil
- To reach desired viscosity, oil is preheated in the reservoir before being pumped to the next phase

Filtration and heat exchanger to eliminate dirt and cool the oil

• Oil is pumped through a filtration and cooling system to ensure that oil being distributed to bearing is clean and at optimal temperature

Instrumentation to monitor oil condition

- Oil condition is monitored via pressure, temperature, and flow instrumentation
- Modern instrumentation is compatible with existing DCS or PLC, and is mounted on the reservoir/base

Multiple retrofit options available

- Replace entire system or only selected components
- Available as a water or air-cooled system
- With the addition of a valve or flow divider, oil can be evenly distributed to the pinion bearings
- Hydrodynamic or hydrostatic system based on your mill's existing trunnion bearing configuration

Why Metso services?

- As the OEM of your mill, Metso has the expert knowledge to maximize its life
- With detailed drawings, design expertise and field service personnel, Metso's services are reliable, accurate and timely



Hydrostatic lubrication system



Hydrostatic lubrication system with high pressure pumps



Hydrodynamic lubrication system

