

# Koepe Winder Bearings - Doubled Life, Zero Manual Lubrication

**Castrol Tribol GR 4020-460-2 PD**

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# THE CHALLENGE

## Twice the Life. Zero Guesswork.

Koepe winder bearings in copper mining required replacement every **4 years**. Each replacement caused **7 days** of downtime.

### Root issues identified:

- ❌ Lubricant starvation
- ❌ Manual greasing
- ❌ Incorrect grease type
- ❌ Micro-pitting on bearing races

### Technical Diagnosis:

- ❌ Inconsistent lubrication  
→ starvation
- ❌ Manual greasing leading to human error
- ❌ Wrong grease leading to micro-pitting

*Understanding Why Bearings Were Failing*

# THE SOLUTION

## Tribol GR 4020-460-2 PD & Automation

Switched to Castrol Tribol GR 4020-460-2 PD high-performance grease. Introduced automated lubrication system.

### Ensured:

- Uniform lubricant film
- No starvation
- No manual intervention
- Micro-pitting eliminated

Precise lubrication = **reliable bearing protection.**



# THE RESULT

## Performance Transformed Underground

### Key Points:

- Bearing life extended 2× beyond previous cycle.
- Zero manual greasing required.
- No unplanned replacements → major cost avoidance.
- Much more predictable operation and uptime.
- Lower risk, cleaner process, and higher operational safety.
- High-value solution delivering long-term ongoing savings.

*More Than Maintenance—A Reliability Breakthrough*



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