

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

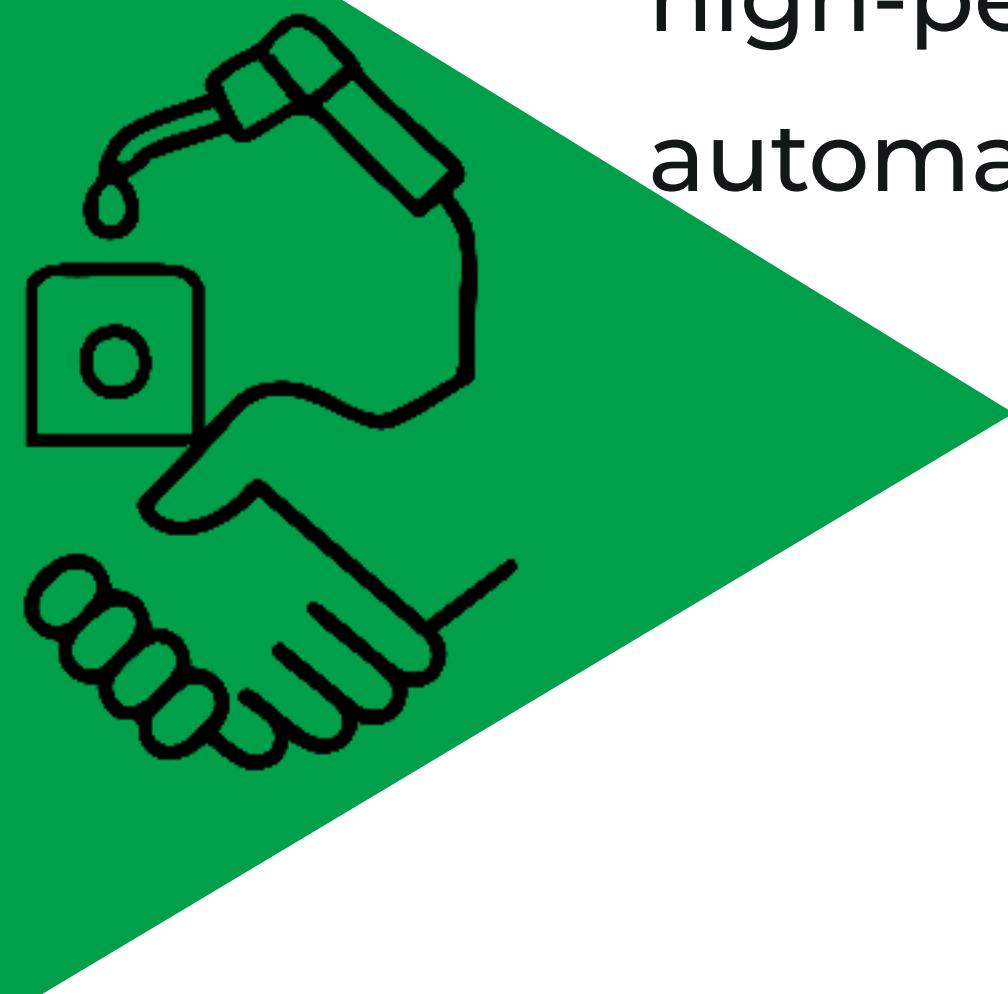
Technical Diagnosis:

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

Understanding Why Bearings Were Failing

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.

Performance Transformed Underground

Key Points:

- Bearing life extended 2x 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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