CASE STUDY · MINING

CRUSHER ROLL MAINTENANCE.

Crusher rolls are among the largest and heaviest components in any mining operation, and keeping them in service is a challenge in itself.

INDUCTION HEATING

READ ONLINE

THE CHALLENGE.

Extended maintenance or unexpected repairs cause downtime, cost and aggravation. All machinery needs maintenance, even heavy-duty equipment like crusher rolls. Returning them from remote mining areas back to the manufacturer is costly and time consuming.

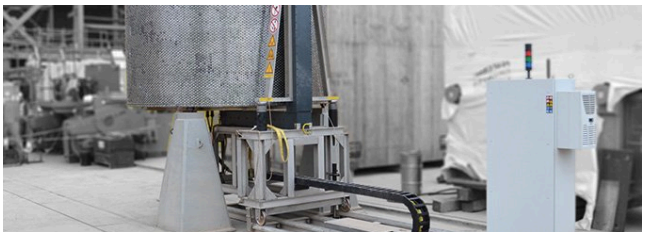
OUR SOLUTION.

TM developed the PROTHERM U-LINE, a safe, clean and cost-effective induction heating solution that integrates easily into an existing facility. It heats crusher rolls of up to 100 tonnes at a maximum of 1 °C per 5 minutes, which guarantees a tension-free heating process.



A PROTHERM U-LINE SOLUTION.

A mobile heater with a stationary roller and a light, easy-to-handle induction coil, designed to be operated on site at remote mining locations.



HEAVY COMPONENTS, ON SITE.

Crusher rolls of up to 100 tonnes are heated in place, so they do not have to be returned to the manufacturer for maintenance.

PROVEN RESULTS.

- Tension-free heating of crusher rolls up to 100 tonnes
- Controlled heating at a maximum of 1 °C per 5 minutes
- Maintaining on site, no transport back to the manufacturer
- Less downtime and lower maintenance costs
- Integrates easily into an existing facility
- Clean and safe operation, no open flames

Maintaining crusher rolls or other heavy components? Tell us about your part and your site, and we will engineer a safe, clean and cost-effective induction heating solution.

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TM'S 5 PRODUCT CATEGORIES.

A complete range of induction heating solutions, structured into five product families. Each series matches a specific application level and workpiece range, from compact and portable solutions to heavy-duty and fully customized systems.



EASYTHERM SERIES

Versatile workshop induction heaters for daily assembly and maintenance tasks. Programmable temperature control, automatic demagnetization and a wide range of models for workpieces from 1 to 300 kg.



SURETHERM SERIES

Advanced heaters that heat uniformly and demagnetize automatically, with controlled temperature ramps for fast, repeatable shrink-fit installations. Equipped with the original dual-sensor technology that TM invented and introduced to the market. Heats workpieces from 1 to 1600 kg.



EXTRATHERM SERIES

Compact mid-frequency heater that frees fixed parts and components in seconds: clean, targeted heat anywhere without flames or mess. The generator can be supplied with various flexible or custom coils.



PROTHERM SERIES

Fully custom-built induction heating systems engineered for your specific workpiece and process. Five product lines: U-LINE, H-LINE, S-LINE, STATOR HOUSING-LINE and ROTOR-LINE, covering industries from e-mobility to mining, heating parts up to 100 tonnes (100,000 kg).

EXPECTED
IN H2, 2026

PORTATHERM SERIES

Ultra-portable induction heater for on-site maintenance, field service and workshop applications. Compact, lightweight design with multi-frequency output for fast, flameless heating anywhere.

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TM INDUCTION HEATING