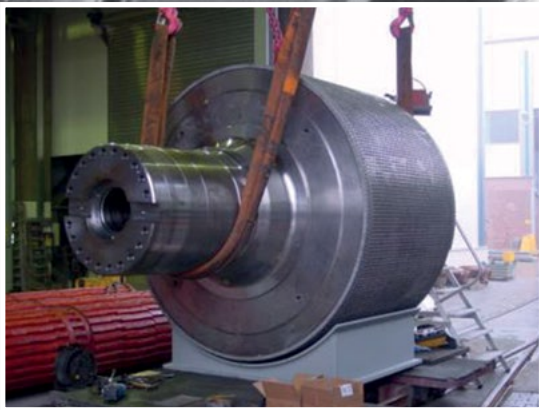




**TAILOR-MADE**  
INDUCTION HEATING EQUIPMENT

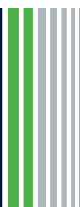


fitting  
solutions  
for

**ROLLING  
MILLS.**

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**M&R**  
EQUIPMENT



## Mounting Rings

### Customer Request

Rollers, coupling and bearings must be heated before assemble. A manufacturer of crushers in the mining industry asked us to developed an induction heater to heat a 100 ton roller, tension free to 220°C within 17 hours.

### Our Solution

TM developed a 480V-100KW low frequency induction heater which heats the part fully controlled and uniform in 17 hours up to 220°C. To control this heating cycle, TM supplied our special program to heat the part in a temperature ramp. The temperature will increase every minute the same °C, producing straight heating graph until the end of the cycle.

### Advantage

Low energy consumption. Relatively small footprint compared to conventional methods. Easy to integrate in existing production facility. Small purchase price against conventional methods. Easy to handle; heater moves & heavy part remains stationary.



## Dismounting Rings

### Customer Request

Before used rolls are repaired, inner rings have to be removed. This is done by heating the inner ring, causing it to expand and easily be pull away from the shaft.

### Our Solution

By sliding a coil over the inner ring and connecting it to a mid frequency generator, we are able to heat only the inner ring while the shaft stays cool. After heating it is easy to slide the ring and coil together from the shaft.

### Advantage

Inner ring can be used again, no damage or overheating. Induction coil is relative light and easy to handle. Controlled heating and dismounting process.

