



Service

Converter maintenance and inspection  
So you can rely on smooth production  
and processes



# Inspection and preventive maintenance

Converters are built to withstand high thermal and mechanical stresses. That's why they are robust and appear virtually indestructible. However, over time, it's likely the extreme strains they handle do affect their condition. So, to ensure

high plant availability, our experienced experts inspect your converter down to the smallest detail.

This is your key to reliable and above all safe operation.

## Here's what we check during a holistic converter system inspection:

- Functioning of the overall system
- Vessel, trunnion ring, and trunnion pin measurements
- Vessel deformation
- Critical points with in-depth, non-destructive testing
- Gear unit condition
- Bearing position and functioning
- Foundation stability
- Fastening bolt condition
- Dedusting system distortion and leakage

## It's an all-round service for your success that gives you all this:

- Better plant availability due to disruption-free operation
- Longer service life
- Higher safety
- Improved quality
- Lower maintenance costs thanks to new technologies
- Optimized processes
- Continuous condition monitoring

*Safe and reliable production after inspection of the core components.*



*Converter with optimized slag shield.*





Productivity, quality, and long service life – that’s what you get from our all-round service package. Included are regular inspections to help minimize unnecessary downtimes. This boosts both your productivity and occupational safety.

### Long operating times increase the risk of damage

- **Vessel** – Cracks and deformations lead to breakouts.
- **Tension elements** – Leaks and permanent temperature changes cause distortion and corrosion.
- **Fastening elements** – Loose bolts and pins cause vibrations. They damage the foundations.
- **Dedusting system** – Broken exhaust line welds damage the bay and create safety risks from falling parts.
- **Converter slag shield** – If the trunnion ring is not protected, liquid steel and slag clog the gap. That leads to a continuous heat transfer into the trunnion pins.
- **Converter suspension system** – Heat transfer from the vessel into the trunnion pins weakens the material and leads to permanent deformations.

*Old tension element.*



*New tension elements with “Superbolt” solution.*



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