



**ALD Vacuum Technologies**  
High Tech is our Business

## Vacuum Induction Coils

Design – Manufacturing  
Reconditioning – Maintenance



### Services Offered

#### Vacuum induction coils

- On-site coil changing
- Damage analysis
- Advice on damage prevention
- Maintenance agreements

#### Vacuum furnace assembly

- VIM furnace lower-stage overhauls including power-bus installation
- Repair/retrofit of copper baffle and chill plates
- Cold-wall and copper-crucible repair

**At ALD, all copper elements  
are fundamentally welded**



ALD Vacuum Technologies is the leading global provider of processes and services in the field of vacuum process technology.

#### *Your contacts for induction coil services:*

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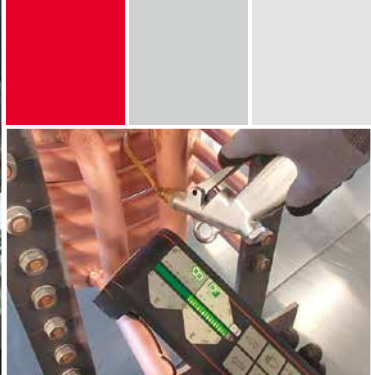
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Sand blasting for gentle surface treatment



The leakage test in the ppm range

## Induction Coil Manufacturing

As the world-leading vacuum furnace supplier, ALD is known for

- Manufacturing and repair
- Reconditioning and maintenance of induction coils
- Vacuum and atmosphere furnace systems
- Coil sizes for a melting capacity of up to 30 metric tons

## Induction Coil Reconditioning

ALD offers highly specialized expertise for repair and quality control

To guarantee high plant service lives and high melt quality, we apply only highest standards:

- Copper coils are tungsten-inert-gas welded
- Rings are cold-coiled (from 3 t)
- Surfaces are sand-blasted
- Insulating layers are coated
- Reconditioned coils are put through extensive final checks

## Maintenance of Induction Coils

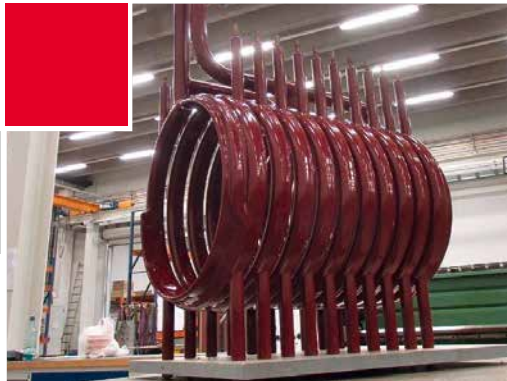
### Regular preventive maintenance

We offer service packages: predictive maintenance even before service is due.

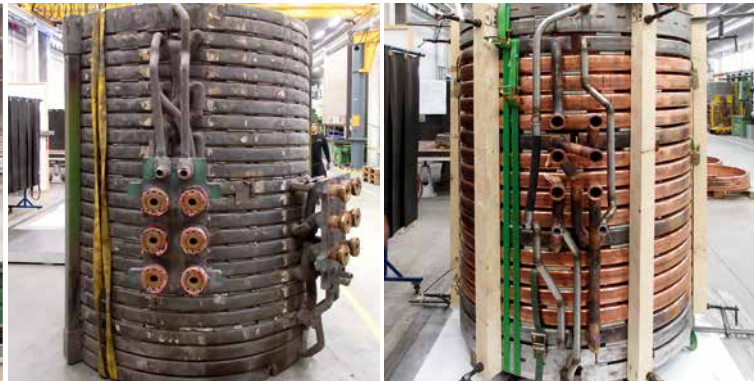
### Corona and leak testing are obligatory

All induction coils have their electrical insulating properties tested in our special vacuum chamber (corona test). Vacuum leak testing and water pressure test ensure no leakage.

Various application-specific coil insulating materials



An induction coil before and after reconditioning



Corona test – the electrical insulation test

