

Heat treatment

Quality through competence



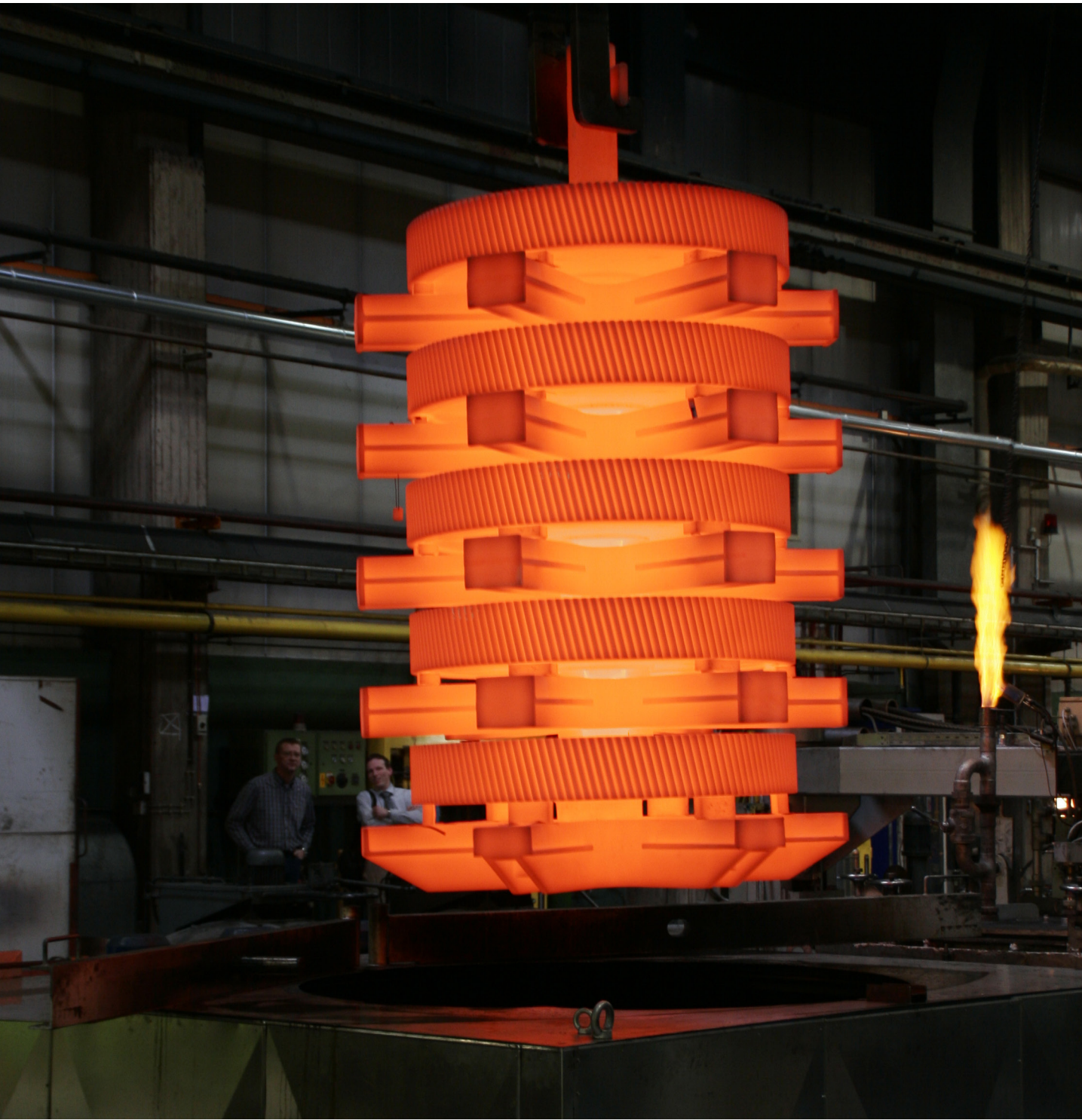


Heat treatment

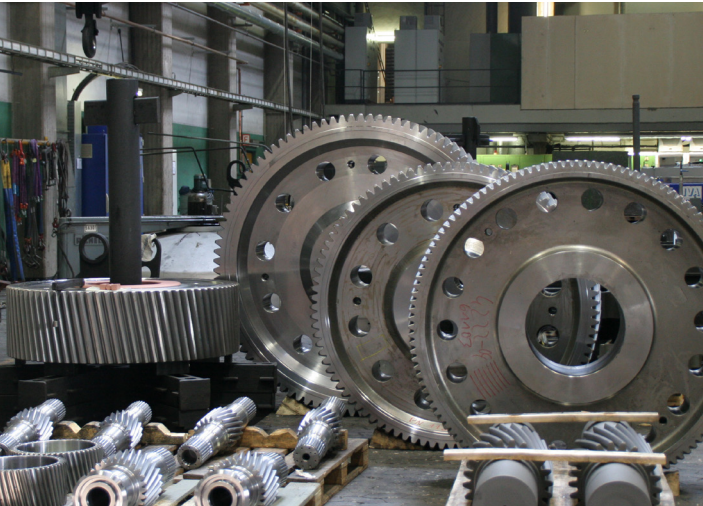
To ensure that the heavily stressed drive elements reliably withstand the high loads, shafts and gears, for example, are subjected to a hardening process.

This is carried out in our in-house hardening shop. Our experienced staff, a professional process control system and high-performance equipment ensure optimum results every time.

You too can benefit from our decades of experience and our flexibility, and talk to us about the capacities of our heat treatment centre.



Our treatment methods



Case hardening

Oven dimensions:	
Diameter:	800 - 2.600 mm
Height:	2.600 - 2.700 mm
Unit weight:	12.500 kg

High-performance equipment and process technology ensure an optimal carbon supply in the gas atmosphere. This results in a carbon content and case hardening depth in the work piece with low defect tolerances.

The standard process used in our company is direct hardening. Single hardening and hardening after isothermal transformation can also be carried out on request.

Carburisation

Oven dimensions:	
Diameter:	800-2.600 mm
Height:	2.600-2.700 mm
Unit weight:	12.500 kg

6 vertical retort furnaces with electric resistance heating, grouped in several control zones. Process control by a modern process control system.

Tempering

Oven dimensions:	
Diameter:	800-2.600 mm
Height:	800-2.700 mm
Unit weight:	12.500 kg

6 vertical retort furnaces with electric resistance heating, grouped in several control zones. Can also be carried out under inert gas to prevent decarburisation and scaling.

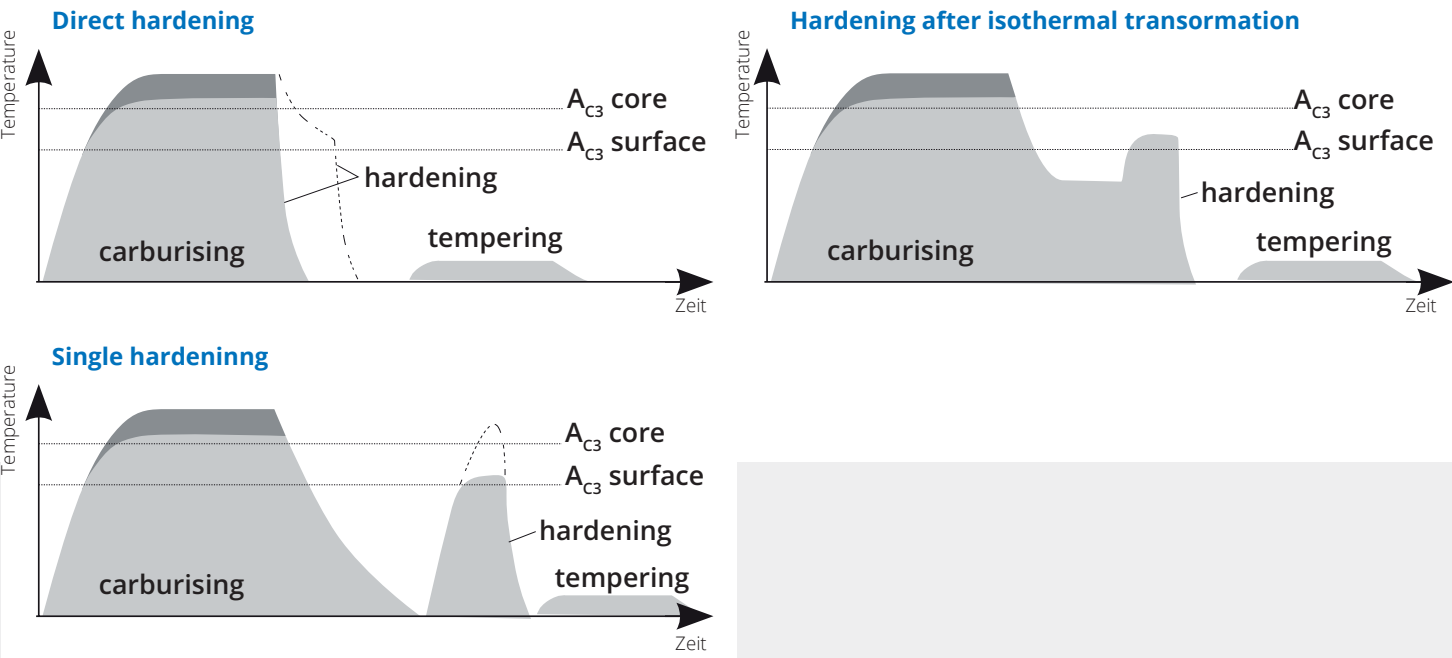
Annealing

Oven dimensions:	
Diameter:	800 - 2.400 mm
Height:	800 - 2.700 mm
Unit weight:	12.500 kg

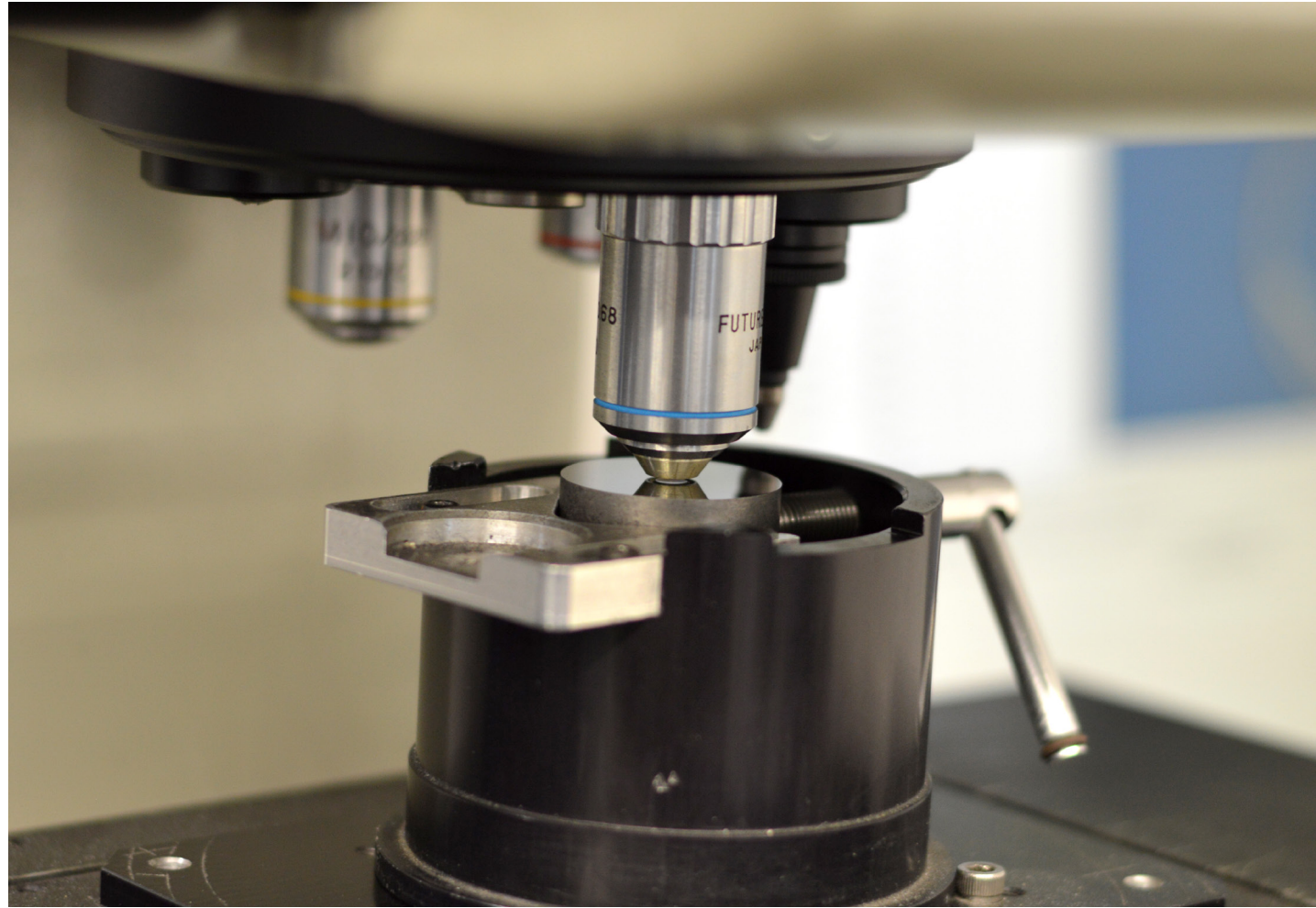
6 vertical retort furnaces with electric resistance heating with air circulation. Switching and temperature control device. Registration of the heating room temperature.

Facilities

6 vertical retort furnaces for case hardening, carburising, tempering and annealing as well as a cleaning blast cabinet.



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Test laboratory - Quality assurance

In order to meet the requirements of different classification societies, the heat treatment process is subject to continuous quality inspection.

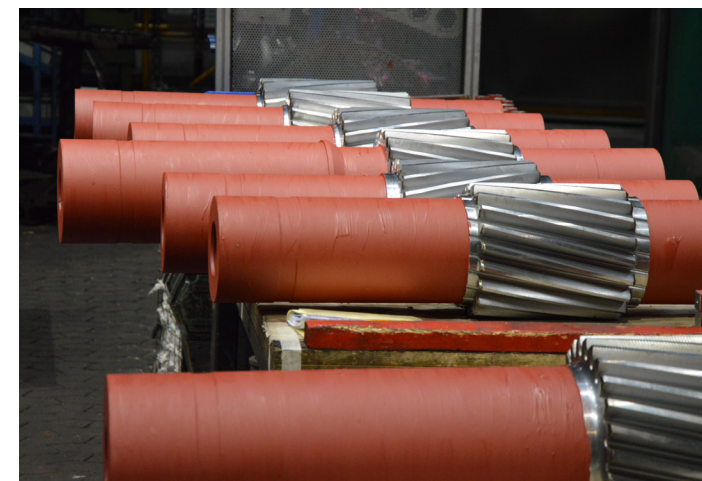
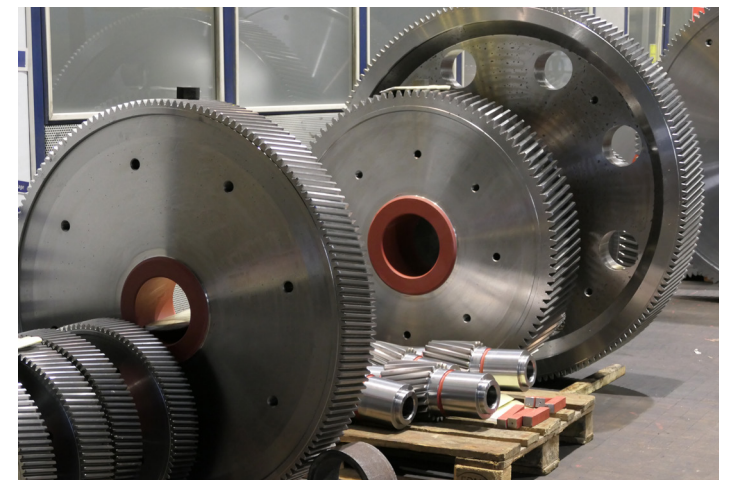
We work very closely with the classification societies LR, ABS, DNV, BV, KR, ClassNK, RINA and CSS, among others.

All common hardness tests such as Rockwell, Brinell and Vickers are carried out in our laboratory.

The corresponding testing equipment is monitored annually by a certified company.

All heat treatment processes are documented via our process control system and are therefore reproducible.

Examples of our range of parts:





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Dimensions and dry weights are approximate and may vary with housing or by input and ratio. Specifications are subject to change without notice. Please contact your REINTJES distributor for current information and binding data.

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