

# Carotherm GmbH & Co. KG

We have many years of experience and the equipment required to harden your gear wheels. Various heat-treatment processes can be carried out in our universally usable systems:

- Case-hardening in nitrogen-methanol-propane process
- Stress-relief heat treatment
- Annealing



Our state-of-the-art process-controlled systems enable us to provide consistently high quality and on-time deliveries with the shortest of deadlines.

## Certification

- Certified according to DIN ISO 9001: 2008
- Cooperation with all major classification societies:  
DNV GL, LR, BV, CCS, RS

## Technical equipment

### 1 Shaft furnace

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Diameter	1,900 mm
Depth	2,500 mm
Rated temperature	1,000 °C
Max. batch weight	8,000 kg

### 3 blast furnaces SG 140/200

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Diameter	1,400 mm
Depth	2,000 mm
Rated temperature	1,000 °C
Max. batch weight	8,000 kg

### 1 tempering furnace

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Diameter	1,900 mm
Depth	2,500 mm
Rated temperature	650 °C
Max. batch weight	8,000 kg

### 1 Quenching bath (Polymer bath)

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### 1 Shot-blasting machine

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max. load	3,000 kg
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## Material laboratory

for metallographic investigations, hardness testing, hardness profiles, and consultation



Our material experts use the most modern devices to perform hardness testing and metallographic investigations.

We also provide these tests as an independent service.

We summarise the results for you in an comprehensive report.

We will be happy to advise you in detail about our extensive services.  
Don't hesitate to contact us!

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Carbotherm GmbH & Co. KG is a 100% subsidiary of the mid-sized machine-construction company Wolfgang Preinfalk GmbH, with headquarters in St. Ingbert, Germany.

