



# Machinery

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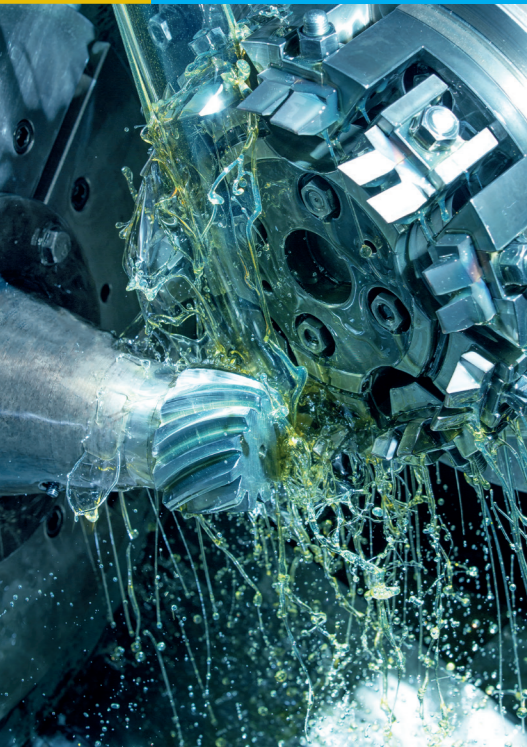
01

## Bevel gearing

Klingelnberg  
Cyclo palloid method

Palloid tooth system C 60 U

Largest outer diameter	600 mm
Module range	2,4-13 mm
Number of teeth	6-180



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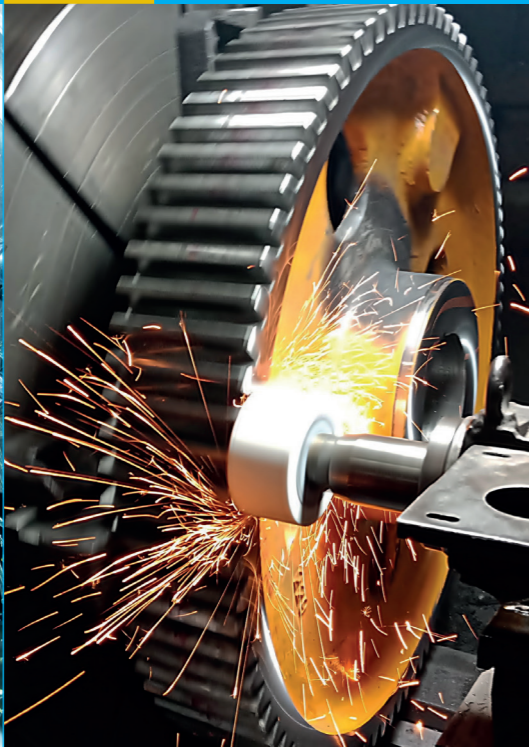
## CNC – Cylindrical grinding

Internal cylindrical grinding machine  
Glauchau SIG/1 AS-N x 500

Grinding diameter	40-400 mm
Distance between centres	500 mm
Centre height	355 mm
Max. workpiece weight	500 kg

Universal cylindrical grinding machine  
Studer S40

Largest distance between centres	1600 mm
Centre height	275 mm
Max. workpiece weight	150 kg



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## CNC – Turning milling centre Turning – conventional

Niles- Simmons N20MC

Turning length	2000 mm
Max. turning diameter	600 mm
Speed range	6 - 3800 rpm

Weiler turning lathe

Turning length	1300 mm
Max. turning diameter	345 mm
Speed range	20 - 2000 rpm



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## CNC – Machining centre Boring machine – conventional

Hüller Hille NBH 290

Clamping area	1000x800 mm
Workpiece swivel range	1600 mm
Max. workpiece weight	2500 kg

Horizontal boring machine Wotan-Werke

Clamping area	1700x1520
Heidenhain - Optics	
Max. workpiece weight	2800 kg



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## Measurement technique

Klingelnberg precision measuring centre P65  
measurement and evaluation of helical gears, bevel gears and other gearing, shafts and contours

Workpiece diameter	650 mm
Module range	0,5-20 mm
Measured width	200 mm
Distance between centres	35-1000 mm
Max. workpiece weight	500 kg

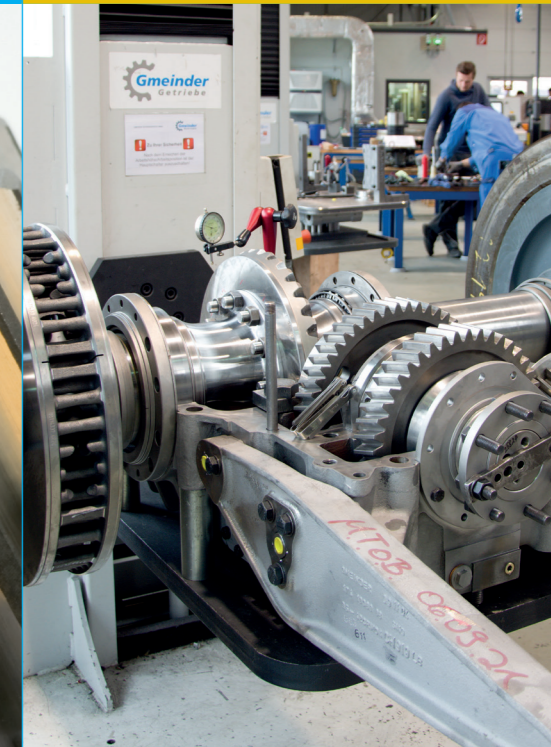


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## Assembly

Gearbox assembly for rail vehicle gearboxes.

- New assembly of all types of gearboxes and drives for rail vehicles
- Disassembly, diagnosis and overhaul/reassembly of service gearboxes
- Conversion and improvements of existing gearboxes and drives, also from third-party manufacturers



## Production data

Annual production capacity:	1500+ gearboxes
Main areas of activity:	new production, spare parts and servicing of gearboxes and drives for rail vehicles
Headcount:	100+
Products:	all types of helical and bevel gearboxes for rail vehicles including gearboxes with switching mechanism and built-in condition monitoring system
Core competences:	bevel gearings, housing machining, small components
Other services:	support, training, expert assessment

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## Test bay

### Test run 1-4

Output	18,5 – 30 KW
Speed	up to 4100 rpm

### Test run 5 and 6

Output	30 – 500 KW
Speed	up to 7000 rpm

8 test benches for trial runs and development tests with the possibility of testing inclinations and complete drive systems.



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## Quality assurance

Air-conditioned measuring room with constant temperature



09

## Warehousing

Pallet rack system model GAERNER pallet bays 680



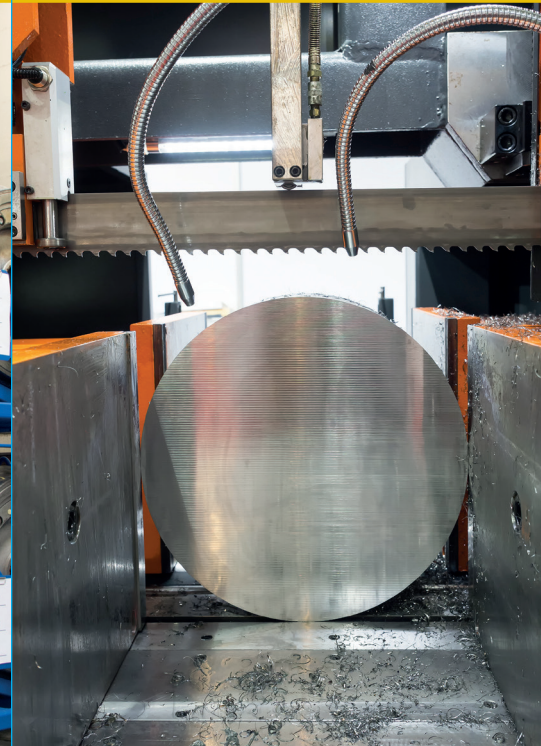
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## Miscellaneous

Cleaning system  
BVL Oberflächentechnik  
Model: RC 1600 RW 2 T (2004)

Compressed air dryer  
from Atlas Copco  
Model: FX11 (2012)

Bandsaw  
Model: HBP 360 A CNC  
Max. height 360 mm  
Automatic mode program



## Company is:

- DIN EN ISO 9001:2015
- DIN EN ISO 14001:2015
- DIN 27201-7

- DIN EN 15085-2
- DB Q1

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### World of Rail Drives



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