

## Machinery

### 1. Turning

(>20 CNC machines, brands: Okuma, DMG)

CNC-turning machine with powered tools

CNC-turning machine with powered tools and automation

Machining range: up to  $\varnothing$  600 mm x 1200 mm



### 2. Milling

(>10 CNC-machines, brands: Okuma, DMG, Hermle, Doosan)

Vertical and horizontal CNC-machining centers

X<sub>max</sub>: 900 mm

Y<sub>max</sub>: 400 mm

Z<sub>max</sub>: 300 mm



### 3. Tothing

(ca. 10 CNC-machines, brands: Liebherr, Gleason-Pfauter, Koepfer)

Vertical CNC-tothing machine:

$\varnothing$ <sub>max</sub>: 450 mm

Module: 10

Tothing width: 300 mm

Horizontal tothing machine:

$\varnothing$ <sub>max</sub>: 200 mm

Module: 2,5

Tothing width: 800 mm



### 4. Sawing (>5 band saws)

NC-sawing up to  $\varnothing$  450 mm



## Machinery

### 5. Grinding processing

Gear flank grinding CNC

Crown Circle- $\varnothing_{\max}$ : 500 mm, module 13  
 Length: 500 mm



Internal grinding CNC

$\varnothing_{\max}$ : 330 mm  
 Length: 150 mm

External grinding CNC

$\varnothing_{\max}$ : 340 mm  
 Length: 1000 mm

Planar grinding

Machining range: 300 mm x 500 mm

### 6. Broaching/shaping grooves (ca. 5 broaching machines)

	<u>max. width</u>	<u>max. length</u>
<u>Broaching vertical:</u>	22 mm	100 mm
<u>Broaching horizontal:</u>	32 mm	300 mm
<u>Shaping vertical:</u>	20 mm	100 mm

### 7. Balancing

### 8. Eroding

**X<sub>max</sub>: 700 mm**

**Y<sub>max</sub>: 400 mm**

**Z<sub>max</sub>: 300 mm**



## Maschinenpark

### 9. Measuring and testing

Covers all necessary measurement und testing equipment regarding the processing of gears for the generation of initial sample test reports and inspection protocols.  
Gear measuring machine branded Klingenberg.  
Automatic coordinate measuring machine branded Wenzel and Mitotoyo.  
Inspection of hardness, surface and burning.



### 10. Surface treatment

Bronzing in our own factory. Painting.  
Harden and temper by our capable suppliers.  
All hardening processes and surface treatments.



### 11. Installation

Separated department for the installation und processing of complete systems and assembly groups.

