

## Machine list

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### General

Machinefabriek Emmen B.V. is a privately owned engineering company with a company ground of two hectares and a well-equipped workshop of 5.000 m<sup>2</sup>.

### Installation Works

Installation and maintenance works can be executed by our Installation Crews. For these installation works our crews have at their disposal well-equipped service vans with all the necessary tools.

### Welding

- Mig/Mag welding (automatic-endless)
- Argon welding
- Autogenous welding
- Spot-weld machine
- Electrically welding up to 550 A
- General-arc-welding up to 550 A
- Welding up to 1000 A under a powder cover
- Pulse welding

Our well trained welders have various valid welding certificates to work with all of the above-mentioned welding machines.

### Turning department

#### 01. CNC lathe Ursus - Fagor steering

Height of centres	815 mm
Turning diameter over saddle	485 mm
Distance between centres	3000 mm
Diameter through head of machine	137 mm

#### 02. CNC lathe ECOCA EL-5115 - Mitsubishi steering

Height of centres	510 mm
Turning diameter over saddle	290 mm
Distance between centres	1500 mm
Spindle culvert	80 mm

#### 03. CNC lathe PBR T35 SNC - Heidenhain steering

Height of centres	350 mm
Draaidiameter boven het bed	715 mm
Turning diameter over saddle	425 mm
Distance between centres	2000 mm

#### 04. Universal lathe Tur 50

Height of centres	250 mm
Turning diameter over saddle	300 mm
Distance between centres	2000 mm
Diameter through head of machine	90 mm

#### 05. Universal lathe Tur 50

Height of centres	250 mm
Turning diameter over saddle	300 mm
Distance between centres	3000 mm
Diameter through head of machine	90 mm

## Machine list

<b>06.</b>	<b>Universal lathe Tur 630 M</b>	
	Height of centres	315 mm
	Turning diameter over saddle	375 mm
	Distance between centres	2500 mm
	Diameter through head of machine	90 mm
<b>07.</b>	<b>Universal lathe Tur 630 M</b>	
	Height of centres	315 mm
	Turning diameter over saddle	375 mm
	Distance between centres	3000 mm
	Diameter through head of machine	90 mm
<b>08.</b>	<b>Universal lathe DE MOOR</b>	
	Height of centres	650 mm
	Turning diameter over saddle	1000 mm
	Max. turning diameter	1350 mm
	Distance between centres	4500 mm
	Diameter through head of machine	101 mm
<b>09.</b>	<b>Universal lathe AFM</b>	
	Height of centres	217 mm
	Turning diameter over saddle	260 mm
	Max. turning diameter	440 mm
	Distance between centres	1500 mm
	Diameter through head of machine	40 mm
<b>10.</b>	<b>Universal lathe Giana</b>	
	Height of centres	350 mm
	Turning diameter over saddle	440 mm
	Max. turning diameter	700 mm
	Distance between centres	2500 mm
	Diameter through head of machine	75 mm

### Machines milling department

<b>01.</b>	<b>CNC Bed milling machine Correa A-30 - Heidenhain steering</b>	
	Table surface	4000 x 1100 mm
	Distance stroke	4000 mm
	Radial stroke	1200 mm
	Vertical stroke	1000 mm
<b>02.</b>	<b>CNC Bed milling machine Zayer 3 BF 4500 - Heidenhain steering</b>	
	Table surface	4500 x 800 mm
	Distance stroke	4160 mm
	Radial stroke	1000 mm
	Vertical stroke	1000 mm
<b>03.</b>	<b>CNC Bed milling machine Zayer 3000 - Heidenhain steering</b>	
	Table surface	3000 x 800 mm
	Distance stroke	2765 mm
	Radial stroke	1000 mm
	Vertical stroke	1000 mm

## Machine list

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|------------|---|---------------|
| <b>04.</b> | <b>CNC Bed milling machine Correa A25/40 - Heidenhain steering</b>                |               |
|            | Table surface   | 4000 x 800 mm |
|            | Distance stroke   | 4000 mm       |
|            | Radial stroke   | 1200 mm       |
|            | Vertical stroke   | 1000 mm       |
| <b>05.</b> | <b>CNC (fixed)Bed milling machine Anayak FBZ-HV 4000 - Heidenhain st.</b>         |               |
|            | Table surface   | 4000 x 800 mm |
|            | Distance stroke   | 4000 mm       |
|            | Radial stroke   | 935 mm        |
|            | Vertical stroke   | 1050 mm       |
|            | Max. load Bed   | 45 tons       |
| <b>06.</b> | <b>CNC Bed milling machine HO CHUN Type UH 1250 - Heidenhain steering</b>         |               |
|            | Table surface   | 1800 x 360 mm |
|            | Distance stroke   | 1250 mm       |
|            | Radial stroke   | 540 mm        |
|            | Vertical stroke   | 470 mm        |
| <b>07.</b> | <b>Conventional milling machine Schaublin 53 - Digital 3d control of measures</b> |               |
|            | Table surface   | 1100 x 255 mm |
|            | Distance stroke   | 700 mm        |
|            | Radial stroke   | 250 mm        |
|            | Vertical stroke   | 430 mm        |
| <b>08.</b> | <b>Milling machine for gear wheels and pinions</b>                                |               |
|            | Max. module   | 14            |
|            | Max. gear wheel diameter  | 1200 mm       |
| <b>09.</b> | <b>Slotting machine URPE M300G</b>  |               |
|            | Turntable   | 380 mm        |
|            | Stroke  | 300 mm        |

### Machines sheet metal workshop

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|------------|---|----------------|
| <b>01.</b> | <b>Shearing machine</b>   |                |
|            | Max. sheet thickness  | 10 mm          |
|            | Max. width  | 3000 mm        |
| <b>02.</b> | <b>Bending machine</b>  |                |
|            | Max. bending Distance   | 3000 mm        |
|            | Max. pressure   | 80 tons        |
| <b>03.</b> | <b>Profile shearing and punching machine Peddinghouse Model 210 Super 2</b> |                |
| <b>04.</b> | <b>High performance plasma cutting machine</b>                              |                |
|            | Cutting table   | 3000 x 8000 mm |
|            | Capacity plasma cutting   | tot 40 mm      |
|            | Capacity gas cutting  | tot 130 mm     |
| <b>05.</b> | <b>Rolling machine</b>  |                |
|            | Max. width  | 1500 mm        |
|            | Max. sheet thickness  | 6 mm           |

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### Other equipment

- 01. Pillar drill machine Type 2.H55-Mk6**  
 Max. vertical stroke 1750 mm  
 Max. drilling diameter 60 mm
- 02. Several radial drilling machines and tap machines**  
 Wijk en Visser, Ambros, Bimak, Odessa, Abarboga Maskina-Alzmetall
- 03. Several grinding machines  
 Including a Glauchau 350 grinding machine**  
 Possibility to grind inner and outer surface  
 Height of centres 350 mm  
 Distance between centres 1500 mm
- 04. Several strip sander machines**
- 05. Several sawing machines**  
 Several (automatic) band sawing and circular sawing-machines  
 Up to 450 mm diameter cutting capacity
- 06. Flame spraying**  
 Cold and hot spraying of several materials, system Metco
- 07. Hydraulic press 100 tons**
- 08. Hydraulic presses up to 25 tons**
- 09. Hardening furnace**  
 Inner dimensions 200 x 500 x 500 mm
- 10. Hardness testers**  
 For HrC (Rockwell C Hardness), for HrB (Rockwell B Hardness) and Vickers.
- 11. Overhead cranes**  
 Sawing/cutting department 1x 3,2 tons  
 Lathers department 1x 3,2 tons  
 Milling department 2x 5,0 tons  
 Workbench fine department 2x 3,2 tons  
 Workbench large department 2x 10 tons & 1x 25,0 tons