

## Lathes

### Charles Swing 500

The Charles Swing 500 is a conventional lathe. The specifications are:

- Turning length: 1250 mm
- Spindle bore:  $\varnothing$  50 mm
- Max. turning diameter:  $\varnothing$  300 mm



### Doosan Puma 400 XLMB

The Doosan Puma 400 XLMB is a CNC lathe. The specifications are:

- Turning length: 3,000 mm
- Spindle bore:  $\varnothing$  116 mm
- Max. turning diameter:  $\varnothing$  560 mm

The Doosan Puma 400 XLMB has powered tools.



### CMZ TD35Y

The CMZ TD35Y is a CNC lathe. The specifications are:

- Turning length: 1350 mm
- Spindle bore:  $\varnothing$  80 mm
- Max. turning diameter:  $\varnothing$  400 mm
- Y axis movement: +80mm - 60mm

The CMZ TD35Y has powered tools.



## Milling machines

### Correa Norma 45 (5-axis)

The Correa Norma 45 is a CNC milling machine. The specifications are:

- Axis range (X, Y, Z): 4500 x 1250 x 1500 mm
- Total clamping surface: 4800 x 1000 mm
- Clamping surface (surface-mounted) turntable:  $\varnothing$  800 mm
- Cooling through the spindle: 70 bar
- Other: Automatically adjustable milling head ( $2.5^\circ \times 2.5^\circ$ )

The Correa Norma 45 has a tool changer with 60 positions.



## Hartford HSA-4260

The Hartford HSA-4260 is a CNC portal milling machine. The specifications are:

- Axis range (X, Y, Z): 4050 x 2600 x 1070 mm
- Total clamping surface: 4150 x 2040 mm
- Cooling through the spindle: 20 bar
- Other: Angled head

The Hartford HSA-4260 features a 20-position tool changer.



## Hartford MVP-1060

The Hartford MVP-1060 is a CNC milling machine. The specifications are:

- Axle range (X, Y, Z): 1020 x 520 x 550 mm
- Total clamping surface: 1150 x 520 mm
- Cooling through the spindle: 20 bar

The Hartford MVP-1060 features a 30 position tool changer.



## Hedelius Tiltenta T7-2600 (5-axis)

The Hedelius Tiltenta T7-2600 is a CNC milling machine. The specifications are:

- Axle range (X, Y, Z): 2600 x 750 x 695 mm
- Rapid traverse: 40/40/40 m / min
- Total clamping surface: 3080 x 750 mm
- Turntable clamping surface:  $\varnothing$  750 mm
- Maximum product diameter turntable:  $\varnothing$ 1100 mm
- Cooling through the spindle: 20 bar
- Cooling: conditioned cooling water system

The Hedelius Tiltenta T7-2600 has a tilting milling head and a tool changer with 50 positions.



## Hermle B300U (5-axis)

The Hermle B300U is a CNC milling machine. The specifications are:

- Axis range (X, Y, Z): 800 x 600 x 500 mm
- Total clamping surface: 500 x 400 mm
- Turntable  $\varnothing$  280 mm
- Cooling through the spindle: 40 bar
- Cooling: conditioned cooling water system

The Hermle B300U has a tool changer with 30 positions.



## Construction

### Drilling

Various drill presses and radial drills.



### CNC plasma cutting

The Eckert Jantar 2 is a CNC plasma cutting machine.

- Cutting range: 3000 x 1500 mm
- Cutting thickness: up to 50 mm steel and 40 mm stainless steel
- Engraving function

The Eckert Jantar 2 also includes a tube cutting option up to a maximum diameter of 320 mm.



### CNC press brake

The MVD C135-3100 is a CNC press brake. The specifications are:

- Edge length: 3100 mm
- Thickness: up to 15 mm



### Cutting machine

Cut up to 3000 mm long.



### Welding

Certified welding (Lloyds, Energieconsult, DNV and others) and high-quality welding:

- Welding aluminum
- Autogenous welding
- Electric welding
- MIG / MAG welding
- Orbital welding
- Stud welding for steel and stainless steel
- TIG welding



## Blasting

With glass bead blasting, stainless steel parts up to 1210 x 600 x 600 mm can be blasted.



## Slide grinding

With the RÖSLER we can slide grinding (deburring) parts up to a maximum of 1400 x 360 x 360 mm.



## Sawing

Semi-automatic and fully-automatic sawing to a square of 400 x 600 mm.



## 3D printing

### 3D Plastic Printer

With the 3D plastic printer parts of 300 x 300 x 300 mm can be printed.



### 3D Metal printer

The Concept laser M1 is a 3D metal printer, with which parts up to 250 x 250 x 250 mm can be printed. Stainless steel 316 is printed with metal powder with a layer thickness of 20 - 80 microns per layer.



## Programming

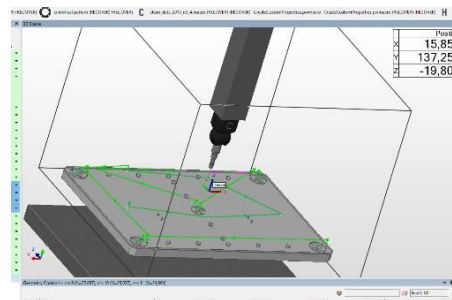
**CAD/Cam software**  
TOPSOLID 7



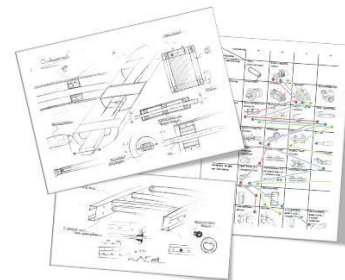
**3D CAD systeem**  
SolidWorks



**3D Measuring software**  
Polyworks 2020 (3D measuring machine & measuring arm)  
Faro scene (3D space scanner)



**Drawing management system**  
SolidWorks Enterprise PDM.



## 3D measuring

### 3D laser scanner

The FARO Focus 3D X130 is a 3D laser scanner, with which existing spaces can be 3D scanned.



### 3D measuring arm with scanner

Faro Quantum S including scanner has a spherical measuring range of 2.5 meters.



### 3D measuring arm

The Mitutoyo Euro C-A776 Apex is a 3D measuring machine for measuring parts up to 700 x 700 x 600 mm.



### Various hoisting and lifting options

Various hoisting and lifting options, including an overhead crane up to 20 tons



### Conditioned measuring room

Various measuring instruments.



## Certification

### ISO 3834-2

Welding technical qualities consisting of various welding method qualifications and welder qualifications.



### NEN-EN 1090

Technical requirements for load-bearing structures.



### ISO 9001

Quality management system



### SSC (VCA)

\*(2008/05)

\*(2008/5.1)

NACE-code 29, 56

NACE-code C28

