

ZELTWANGER MASCHINENBAU

# Machine list



## CNC MILLING AND DRILLING:

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### 1 CNC five-axis portal high-precision machining center DMG MORI DMU 210 $\mu$ Precision

Positioning accuracy < 4  $\mu$ m, volumetric accuracy < 15  $\mu$ m, with CNC rotary table, IKZ, infrared probe, swivel milling head for 5-sided machining in automatic mode

**Tool changer:** 123 magazine places

**Linear axes:** X: 2,100 mm, Z: 1,250 mm, Y: 2,100 mm

Automatic universal milling head with integrated motor spindle as a driven B-axis

**Spindle speed:** 12,000 U / min high performance spindle, HSK-A100

**Year of construction:** 2018

### 1 CNC five-axis portal machining center DMG MORI DMU 210 P

With CNC rotary table, IKZ, infrared probe, swivel milling head for 5-sided machining in automatic mode

**Tool changer:** 123 magazine places

**Linear axes:** X: 2,100 mm, Z: 1,250 mm, Y: 2,100 mm

Automatic universal milling head with integrated motor spindle as a driven B-axis

**Spindle speed:** 12,000 U / min high performance spindle, HSK-A100

**Year of construction:** 2018

### 1 CNC five-axis high-precision machining center DMG MORI DMU 125 $\mu$ Precision

Positioning accuracy < 4  $\mu$ m, volumetric accuracy < 15  $\mu$ m, with CNC rotary table, IKZ, infrared probe, swivel milling head for 5-sided machining in automatic mode

**Tool changer:** 123 magazine places

**Linear axes:** X: 1,250 mm, Z: 1,000 mm, Y: 1,250 mm

Automatic universal milling head with integrated motor spindle as a driven B-axis

**Spindle speed:** 12,000 U / min high performance spindle, HSK-A100

**Year of construction:** 2021

### 1 CNC five-axis universal machining center DMG MORI DMC 125 U "duoBlock"

With CNC rotary table, IKZ, infrared probe, swivel milling head for 5-sided machining in automatic mode

**Tool changer:** 120 magazine places

**Linear axes:** X: 1,250 mm, Z: 1,000 mm, Y: 1,250 mm

Pallet changer with flexible pallet system

Automatic universal milling head with integrated motor spindle as a driven B-axis

**Spindle speed:** 12,000 U / min high performance spindle, HSK-A100

**Year of construction:** 2012

**1 CNC five-axis universal machining center DMG MORI DMU 125 P “duoBLOCK”**

With CNC rotary table, IKZ, infrared probe, swivel milling head for 5-sided machining in automatic mode

**Tool changer:** 120 magazine places

**Linear axes:** X: 1,250 mm, Z: 1,000 mm, Y: 1,000 mm

Automatic universal milling head with integrated motor spindle as a driven B-axis

**Spindle speed:** 10,000 U / min high performance spindle, HSK-A100

**Year of construction:** 2006

**1 CNC five-axis universal machining center DMG MORI DMU 100 P “duoBLOCK”**

With CNC rotary table, IKZ, infrared probe, swivel milling head for 5-sided machining in automatic mode

**Tool changer:** 120 magazine places

**Linear axes:** X: 1,000 mm, Z: 1,000 mm, Y: 1,000 mm

Automatic universal milling head with integrated motor spindle as a driven B-axis

**Spindle speed:** 10,000 U / min high performance spindle, HSK-A100

**Year of construction:** 2008

**1 five-axis machining center Heller HF 5500 APC**

With CNC swivel rotary table and pallet carrier, IKZ, infrared measuring probe

**Tool changer:** 160 magazine places

Pallet changer with flexible pallet system

Accuracy package

**Linear axes:** X: 900 mm, Z: 930 mm, Y: 950 mm

**Spindle speed:** 16,000 U / min high performance spindle, HSK-A63

**Year of construction:** 2023

**1 five-axis machining center Heller HF 3500 APC**

With CNC swivel rotary table and pallet carrier, IKZ, infrared measuring probe

**Tool changer:** 160 magazine places

Pallet changer with flexible pallet system

Accuracy package

**Linear axes:** X: 710 mm, Z: 710 mm, Y: 750 mm

**Spindle speed:** 16,000 U / min high performance spindle, HSK-A63

**Year of construction:** 2022

**1 CNC five-axis universal machining center DMG MORI DMC 80 FD “duoBLOCK”**

**A milling / turning / grinding machining center**

With CNC rotary table, IKZ, infrared probe, swivel milling head for 5-sided machining in automatic mode

**Tool changer:** 123 magazine places

Pallet changer with flexible pallet system

**Linear axes:** X: 800 mm, Z: 850 mm, Y: 1,050 mm

Automatic universal milling head with integrated motor spindle as a driven B-axis

**Spindle speed:** 12,000 U / min high performance spindle, HSK-A63

**Year of construction:** 2018

**1 CNC five-axis universal machining center DMG MORI DMC 80 U “duoBLOCK”**

With CNC rotary table, IKZ, infrared probe, swivel milling head for 5-sided machining in automatic mode

**Tool changer:** 120 magazine places

Pallet changer with flexible pallet system

**Linear axes:** X: 800 mm, Z: 800 mm, Y: 1,050 mm

Automatic universal milling head with integrated motor spindle as a driven B-axis

**Spindle speed:** 12,000 U / min high performance spindle, HSK-A63

**Year of construction:** 2010

**1 CNC universal machining center DMG MORI DMC 80 U “hi-dyn”**

With CNC rotary table, IKZ, infrared probe, swivel milling head for 5-sided machining in automatic mode

**Tool changer:** 120 magazine places

**Linear axes:** X: 800 mm, Z: 600 mm, Y: 700 mm

**Spindle speed:** 12,000 U / min high performance spindle

**Completely overhauled:** 2013

**1 CNC five-axis universal machining center DMG MORI DMU 80 P “duoBlock”**

With CNC rotary table, IKZ, infrared probe, swivel milling head for 5-sided machining in automatic mode

**Tool changer:** 123 magazine places

**Linear axes:** X: 800 mm, Z: 850 mm, Y: 1,050 mm

**Spindle speed:** 18,000 U / min high performance spindle, HSK-A63

**Year of construction:** 2017

**1 CNC five-axis universal machining center DMG MORI DMU 80 P “duoBlock”**

With CNC rotary table, IKZ, infrared probe, swivel milling head for 5-sided machining in automatic mode

**Tool changer:** 123 magazine places

**Linear axes:** X: 800 mm, Z: 850 mm, Y: 1,050 mm

**Spindle speed:** 18,000 U / min high performance spindle, HSK-A63

**Year of construction:** 2015



**1 CNC five-axis universal machining center DMG MORI DMU 80 P “duoBlock”**

With CNC rotary table, IKZ, infrared probe, swivel milling head for 5-sided machining in automatic mode

**Tool changer:** 120 magazine places

**Linear axes:** X: 800 mm, Z: 800 mm, Y: 1,050 mm

**Spindle speed:** 12,000 U / min high performance spindle, HSK-A63

**Year of construction:** 2011

**2 CNC universal milling and drilling machines DMG MORI DMU 80 P “hi-dyn”**

With CNC rotary table, IKZ, infrared probe, swivel milling head for 5-sided machining in automatic mode

**Tool changer:** 120 magazine places

**Linear axes:** X: 800 mm, Z: 800 mm, Y: 800 mm

**Spindle speed:** 12,000 U / min high performance spindle

**Year of construction:** 2007

**1 CNC universal milling and drilling machine DMG MORI DMU 80 P “hi-dyn”**

With CNC rotary table, IKZ, infrared probe, swivel milling head for 5-sided machining in automatic mode

**Tool changer:** 60 magazine places

**Linear axes:** X: 800 mm, Z: 600 mm, Y: 700 mm

**Spindle speed:** 12,000 U / min high performance spindle

**Year of construction:** 2002

**1 CNC five-axis universal machining center DMG MORI DMU 75 monoBLOCK 2nd**

With CNC swivel rotary table, IKZ, infrared measuring probe

**Tool changer:** 120 magazine places

**Linear axes:** X: 750 mm, Z: 650 mm, Y: 560 mm

**Spindle speed:** 20,000 U / min high performance spindle, HSK-A63, accuracy package

**Year of construction:** 2023

**2 CNC five-axis universal machining centers DMG MORI DMC 60 HL**

With CNC swivel rotary table and pallet carrier, IKZ, infrared measuring probe

**Tool changer:** 183 magazine places

Pallet changer with flexible pallet system

**Linear axes:** X: 630 mm, Z: 750 mm, Y: 800 mm

**Spindle speed:** 15,000 U / min high performance spindle, HSK-A63

**Year of construction:** 2018

**1 CNC five-axis universal machining center DMG MORI DMU 60 eVo**

With CNC swivel rotary table, IKZ, infrared measuring probe

**Tool changer:** 120 magazine places

**Linear axes:** X: 600 mm, Z: 500 mm, Y: 500 mm

**Spindle speed:** 18,000 U / min high performance spindle, HSK-A63

**Year of construction:** 2018

**1 CNC five-axis universal machining center DMG MORI DMU 60 eVo**

With CNC swivel rotary table, IKZ, infrared measuring probe

**Tool changer:** 120 magazine places

**Linear axes:** X: 600 mm, Z: 500 mm, Y: 500 mm

**Spindle speed:** 18,000 U / min high performance spindle, HSK-A63

**Year of construction:** 2014

**2 CNC five-axis universal machining centers DMG MORI DMU 60 eVo**

With CNC swivel rotary table, IKZ, infrared measuring probe

**Tool changer:** 120 magazine places

**Linear axes:** X: 600 mm, Z: 500 mm, Y: 500 mm

**Spindle speed:** 18,000 U / min high performance spindle, HSK-A63

**Year of construction:** 2012

**1 CNC five-axis universal machining center with robot loading system DMGMORI DMU 60 eVo**

With CNC swivel rotary table, IKZ, infrared measuring probe

**Tool changer:** 120 magazine places

**Linear axes:** X: 600 mm, Z: 500 mm, Y: 500 mm

**Spindle speed:** 18,000 U / min high performance spindle, HSK-A63

**Year of construction:** 2011

**1 CNC five-axis universal machining center DMG MORI DMU 60 P "hi-dyn"**

With CNC rotary table, IKZ, infrared probe, swivel milling head for 5-sided machining in automatic mode

**Tool changer:** 120 magazine places

**Linear axes:** X: 600 mm, Z: 600 mm, Y: 700 mm

**Automatic universal milling head with integrated motor spindle as a driven B-axis**

**Spindle speed:** 12,000 U / min high performance spindle

**Year of construction:** 2008

**1 CNC five-axis universal machining center DMG MORI DMU 60 P “hi-dyn”**

With CNC rotary table, IKZ, infrared probe, swivel milling head for 5-sided machining in automatic mode

**Tool changer:** 30 magazine places

**Linear axes:** X: 600 mm, Z: 600 mm, Y: 700 mm

**Automatic universal milling head with integrated motor spindle as a driven B-axis**

**Spindle speed:** 12,000 U / min high performance spindle

**Year of construction:** 2006

**1 CNC universal milling and drilling machine DMG MORI DMU 60 monoBlock**

With IKZ, infrared measuring probe

**Tool changer:** 60 magazine places

**Linear axes:** X: 730 mm, Z: 560 mm, Y: 700 mm

**Spindle speed:** 12,000 U / min high performance spindle

**Year of construction:** 2009

**7 CNC five-axis universal machining centers DMG MORI DMU 50 3rd**

With CNC swivel rotary table, capable of simulation

**Tool changer:** 60 magazine places, IKZ

**Linear axes:** X: 650 mm, Z: 475 mm, Y: 520 mm

**Year of construction:** 2017 to 2022

**1 CNC universal milling and drilling machine DMG MORI DMU 50**

With CNC swivel rotary table, capable of simulation

**Tool changer:** 30 magazine places

**Linear axes:** X: 500 mm, Z: 400 mm, Y: 450 mm

**Year of construction:** 2016

**1 CNC universal milling and drilling machine DMG MORI DMU 50**

With tool changer and rigid table

**Linear axes:** X: 500 mm, Z: 400 mm, Y: 450 mm

**Year of construction:** 2004

**2 CNC universal milling and drilling machines DMG MORI DMU 50**

With tool changer and swivel rotary table with digital display

**Linear axes:** X: 500 mm, Z: 400 mm, Y: 400 mm

**Year of construction:** 2001

**Multiple inch tool presetting and measuring devices with image processing technology**

## CAM PROGRAMMING:

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### Multiple 2.5-D and 3D CAM workstations with 5-axis modules and feature technology

Equipped with all common standard interfaces, e.g. DXF, DWG, IGES, STEP, VDA

## DRILLING RANGE:

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### 1 Danube quick radial drilling machine Danuflex 135

**Work table:** 600 mm x 1,800 mm  
**Cantilever travel path:** 1,050 mm  
**max. drilling performance:** 35 mm  
**Year of construction:** 2000

## ROTARY RANGE:

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### 1 CNC precision lathe Weiler E80 / D3

Spindle hole: 106 mm, center height: 400 mm, center width: 2,000 mm  
**Year of construction:** 2011

### 1 turning-milling machining center DMG MORI CTX beta 1250 TC 4A

Center height: 250 mm, center width: 1,250 mm, 6-sided complete machining with counter spindle  
Milling spindle: compactMASTER, spindle speed: 12,000 U / min. HSK A63  
12-position star turret VDI 40  
**Tool changer:** 80 magazine places  
**Year of construction:** 2022

### 1 turning-milling machining center with robot loading system DMG MORI CTX beta 1250 TC 2nd

Center height: 250 mm, center width: 1,250 mm, 6-sided complete machining by counter spindle  
Milling spindle: compactMASTER, spindle speed: 12,000 U / min. HSK A63  
**Tool changer:** 80 magazine places  
**Year of construction:** 2018



**1 turning-milling machining center DMG MORI CTX beta 1250 TC 2nd**

Center height: 250 mm, center width: 1,250 mm, 6-sided complete machining by counter spindle

Milling spindle: compactMASTER, spindle speed: 12,000 U / min. HSK A63

**Tool changer:** 80 magazine places

**Year of construction:** 2015

**1 CNC universal lathe DMG MORI CLX 550 V3**

With C-axis and 12-fold disc turret, all tools are driven

Spindle hole: 104 mm, center height: 240 mm, center width: 1,240 mm

**Year of construction:** 2018

**1 CNC universal lathe DMG MORI CTX 520 linear V4**

With C-axis, Y-axis and 12-fold disc turret, all tools are driven

Spindle hole: 90 mm, center height: 335 mm, center width: 1,350 mm

**Year of construction:** 2006

**1 CNC universal lathe DMG MORI CTX beta 800 Limited Edition**

With C-axis and 12-fold disc turret VDI 40, all tools are driven,

6-sided complete machining by counter spindle

Spindle hole: 65 mm, center height: 280 mm, center width: 800 mm, spindle speed: 5000

Bar loading magazine

**Year of construction:** 2022

**2 CNC universal lathes DMG MORI CTX beta 800**

With C-axis and 12-fold disc turret, all tools are driven

Spindle hole: 65 mm, center height: 280 mm, center width: 800 mm

**Year of construction:** 2014

**1 CNC universal lathe DMG MORI CTX beta 800**

With C-axis and 12-fold disc turret, all tools are driven

Spindle hole: 65 mm, center height: 280 mm, center width: 800 mm

**Year of construction:** 2013

**1 CNC universal lathe DMG MORI CTX beta 800**

With C-axis and 12-fold disc turret, all tools are driven

Spindle hole: 65 mm, center height: 280 mm, center width: 800 mm

**Year of construction:** 2012

**1 CNC universal lathe DMG MORI CTX 420 linear V3**

With C-axis and 12-fold disc turret, all tools are driven  
Spindle hole: 65 mm, center height: 280 mm, center width: 635 mm  
**Year of construction:** 2005

**1 CNC universal lathe DMG MORI CTX alpha 500 V3**

With C-axis and 12-fold disc turret, all tools are driven  
Spindle hole: 65 mm, center height: 250 mm, center width: 500 mm, spindle speed: 6000  
**Year of construction:** 2022

**1 CNC universal lathe DMG MORI NEF 400 V3**

With C-axis and 12 driven tools  
12-position turret, spindle hole: 65 mm, center height: 135 mm, center width: 800 mm  
**Year of construction:** 2015

**1 CNC universal lathe DMG MORI NEF 400**

12-position turret, spindle hole: 65 mm, center height: 135 mm, center width: 800 mm  
**Year of construction:** 2007

**1 precision lathe Weiler Condor VC plus**

Spindle hole: 57 mm, center height: 180 mm, center width: 800 mm  
**Year of construction:** 2015

**1 precision lathe Weiler Condor VC**

Spindle hole: 56 mm, center height: 180 mm, center width: 800 mm  
**Year of construction:** 2008

**WIRE-CUT EDM RANGE:**

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**1 Agie Charmilles Progress VP 3**

Spark erosion cutting machine  
**Linear axes:** X: 500 mm, Z: 426 mm, Y: 350 mm  
**Thin wire technology:** up to 0.05 mm  
**Maximum workpiece dimensions:** 1,050 x 650 x 420 mm  
**Year of construction:** 2018

#### **1 Agie Charmilles Progress VP 2**

Spark erosion cutting machine

**Linear axes:** X: 350 mm, Z: 256 mm, Y: 250 mm

**Thin wire technology:** up to 0.05 mm

**Maximum workpiece dimensions:** 750 x 550 x 250 mm

**Year of construction:** 2016

#### **1 Agie Classic 2S**

Spark erosion cutting machine

**Linear axes:** X: 350 mm, Z: 256 mm, Y: 250 mm

**Maximum workpiece dimensions:** 750 x 550 x 250 mm

**Year of construction:** 2002

### **GRINDING RANGE:**

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#### **1 CNC universal cylindrical grinding machine Studer S31 CNC**

C-axis for form and thread grinding

Center distance: 1,000 mm, center height: 175 mm

**Year of construction:** 2013

#### **1 high-precision surface and profile grinding machine ELB BD 15 KGT STC**

With CNC control unit

Grinding range: 1,500 x 600 mm, max. workpiece height: 600 mm

**Year of construction:** 2011

#### **1 high-precision surface and profile grinding machine ELB BD 10 ZRT XC PRO**

With CNC control unit

Grinding range: 1,000 x 600 mm, max. workpiece height: 610 mm

**Year of construction:** 2018

#### **1 high-precision surface and profile grinding machine ELB BD 10 KGT STC**

With CNC control unit

Grinding range: 1,000 x 600 mm, max. workpiece height: 500 mm

**Year of construction:** 2012

**1 precision rotary table grinding machine Geibel and Hotz RT 600 SD**

With NC control unit

**Grinding range:**  $\varnothing$  600 x 200 mm

**Year of construction:** 2017

**1 precision surface grinding machine Geibel and Hotz FS640SC**

With NC control unit

**Grinding range:** 600 x 400 x 375 mm

**Year of construction:** 2005

**1 horizontal cross grinding machine Sunnen MBB - 1660 CG**

Spindle speed: 200 - 2,500 min, diameter range: 1.5 – 165 mm

**Year of construction:** 2011

**SAWING RANGE:**

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**1 automatic band saw Kasto tec A4**

**Saw cut range:** 430 x 430 mm

**Year of construction:** 2007

**1 semi-automatic universal circular saw Kaltenbach KKS 400**

Saw cut round up to 130 mm, miter cut up to 180°

**Year of construction:** 2006

**WELDING RANGE:**

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**Gas shielded welding, electric welding, brazing and oxyacetylene welding**

We also weld aluminum + stainless steels 1.4301, 1.4571, 1.4404, 1.4112, 1.4122.

**Several TIG and MIG-MAG welding machines**

**1 precision system welding table - make: DEMELER**

With precision grid clamping system

**3 annealing furnace NABERTHERM**

**Interior dimensions:** 750 x 1,000 x 750 mm

**1 temperature test chamber / climatic chamber**

**Temperature range:** +180 °C to -40 °C

**Year of construction:** 2017

**QUALITY ASSURANCE:**

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**1 CNC coordinate measuring machine ZEISS ACCURA**

**Linear axes:** X: 1,600 mm, Z: 1,000 mm, Y: 3,000 mm

Calypso VAST Navigator Software

**Year of construction:** 2018

**1 CNC coordinate measuring machine ZEISS ACCURA**

**Linear axes:** X: 900 mm, Z: 800 mm, Y: 1,600 mm

Calypso VAST Navigator Software

**Year of construction:** 2014

**1 CNC coordinate measuring machine ZEISS CONTURA**

**Linear axes:** X: 1,000 mm, Z: 600 mm, Y: 1,600 mm

Calypso VAST Navigator Software

**Year of construction:** 2007

**1 CNC coordinate measuring machine ZEISS CONTURA**

**Linear axes:** X: 900 mm, Z: 600 mm, Y: 1,200 mm

Calypso VAST Navigator Software

**Year of construction:** 2022

**1 CNC coordinate measuring machine ZEISS CONTURA**

**Linear axes:** X: 1,000 mm, Z: 600 mm, Y: 1,200 mm

Calypso VAST Navigator Software

**Year of construction:** 2017

**1 IFA hard stone slab 2,000 x 1,000 mm**

With TESA Micro-Hite, height measuring device

**6 IFA hard stone slab 1,200 x 800 mm**

With TESA Micro-Hite, height measuring devices

**1 Faro Gage measuring arm**

**Work volume:** 1.2 m

**Multiple roughness measuring devices**

**LASER MARKING:**

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**1 Trumpf Tru Mark Station 7000**

Laser marking machine, max. workpiece size, width: 1,000 mm, height: 400 mm, depth: 500 mm

**Year of construction:** 2023

**1 Trumpf Tru Mark Station 7000**

Laser marking machine, max. workpiece size, width: 1,000 mm, height: 400 mm, depth: 500 mm

**Year of construction:** 2012

**PART CLEANING:**

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**1 Elma ultrasonic cleaning line**

**Year of construction:** 2014



## **SURFACE FINISH:**

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### **1 glass bead blasting machine RAGA PULSAR III**

With abrasive recovery for ultra-fine finishing of aluminum and stainless steel

### **1 barrel finishing machine**

## **SERVICES:**

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**Through a solid network of subcontractors we offer:**

CNC laser cutting (stainless steel and aluminum)  
CNC coordinate grinding  
Flame cutting / plasma arc cutting  
Waterjet cutting  
Sink erosion  
3D printing  
All surface finish and hardening procedures with very short delivery times

## **ASSEMBLY SERVICES:**

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### **Assembly of:**

Small and large assemblies  
Special machines  
Stations and production lines  
Handling systems  
Clamping devices  
Complete machines, electrically and pneumatically installed

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