

# MACHINERY LIST

## CAD/CAM – SYSTEMS

- TopSolid
- WinTool (toolmanagement)

## CNC TURNING/MILLING COMBINATION

	Diameter [mm]	Displacement (x,y,z) [mm]
SHW UniSpeed 5T	1900	2000 x 1300 x 1300

## TURNING LATHES

CNC Vertical turning	Max. diameter [mm]	Diameter lathe [mm]	Height [mm]	Stroke [mm]	
STANKO	1.400	1.400	500	700	
Vertimaxx 2000	2.050	1.600	1.450	1.175	
TOSHULIN Basicturn 2000	2.300	2.000	2.000	1.350	With driven tools
Schiess	2.100	1.600	1.100	775	

CNC Horizontal turning	Diameter above bed/cross slide [mm]	Length [mm]	
CTX 510 ECO	465	1.100	With driven tools
Monforts RNC-7 1500	700	1.500	
CMZ TD35Y-3200	950/550	3.200	With driven tools, Y-axis and hydraulic actuated steady rest (stroke: 30-245 mm)
PUMA 600M II	1.030/800	1.600	With driven tools

Teach-In turning	Diameter above bed/cross slide [mm]	Length [mm]
Weiler E50	530/170	2.000

Conventional turning	Diameter above bed/cross slide [mm]	Length [mm]
Boehringer	440/170	1.5000

## BORING MACHINES

	Table dimensions [mm]	Displacement (x, y, z) [mm]	
Sacem	1.600 x 2.000 CNC rotating table	4.000 x 2.000 x 2.000	Spindle length: 1.000 mm

## MILLING MACHINES

	Table dimensions [mm]	Displacement (x, y, z) [mm]	
Hedelius T7 Single	1.900 x 750	1.600 x 750 x 800	5-axis simultaneous + CNC rotating table ø1.100 mm
Hedelius T7 Single	1.900 x 750	1.600 x 750 x 800	5-axis simultaneous + CNC rotating table ø1.100 mm
AXA 4000 XTS 50	4.000 x 1.000	4.000 x 900 x 950	5-axis + CNC rotating table ø1.200 mm
Anayak Performer 2500	2.700 x 850	2.500 x 1.000 x 1.100	5-axis + CNC rotating table (build on)
Anayak Performer 2000	2.200 x 850	2.000 x 1.000 x 1.100	5-axis + CNC rotating table (build on)
Micron/Haas	1.320 x 450	1.270 x 500 x 500	3-axis
YCM NXV 1020A	1.120 x 520	1.020 x 520 x 540	3-axis

## MULTITASK MACHINES

	Diameter above bed [mm]	Length [mm]	
PUMA SMX 3100S	660	1.540	Main spindle and sub spindle chuck: 340mm Spindle speed: 3.000 RPM Milling spindle power: 26kW Milling spindle speed: 12.000 RPM Full 5-axis simultaneous machining

## GRINDING MACHINES

Cylindrical grinding	Diameter [mm]	Length [mm]	
Schautd CNC	515	3.000	Max. weight 800 kg

Internal cylindrical grinding	Diameter [mm]	Length [mm]	
Wotan	450	700	

Surface grinding	Table dimensions [mm]	Length [mm]	
Elb	900 x 500	400	

Radial grinding	Diameter [mm]	Length [mm]
Elb	600	250

Universal grinding	Diameter [mm]	Length [mm]
Kellenberger	500	1.650

## CNC SAWING MACHINES

	Diameter [mm]
KASTO Twin A4 x 5	460

## BALANCING

	Technical details	Length [mm]
Schenk	Max. $\varnothing$ 3.500 mm Max. weight 1.500 kg Max. 3.600 RPM	3.870

## DRILLING

	Table dimensions [mm]	Height [mm]
Raboma 1250	1.250 x 1.500	1.600
Raboma 1600	1.600 x 1.500	1.600

## MEASURING

	Displacement (x, y, z) [mm]	
Zeiss MC 850	850 x 1.200 x 600	Incl. measuring report
Zeiss Spectrum plus 7/10/6	700 x 1.000 x 600	Incl. measuring report

## HEAT TREATMENTS

	Dimensions (L x B x H) [mm]	
Heat treatment oven	1.600 x 1.600 x 900	Incl. heat treatment report

## WHITE METAL CASTING

### Material:

- WM-90
- Silion