

The following table is meant to give you an overview of our most important machinery

Description	Manufacturer	Machine type	Processing distance X	Processing distance Y	Processing distance Z	Notice
5-axis machining center	DMG	DMU 125	1250	880	800	2-way pallet changer system
5-axis machining center	DMG	DMC 60 T	780	560	560	2-way pallet changer system
5-axis machining center	AXA	VPC 55 U	2300	1400	900	Turntable Ø 1500 mm
machining center	DMG	DMU 50 M	500	400	400	B- and C-axle manually adjustable
machining center	Steinel	BZ 20	408	350	410	4-way pallet changer system
machining center	Mikron	VCE1600W	1625	1016	762	
CNC lathe	Monforts	RNC 4	Ø 320		560	Tailstock
CNC lathe	Monforts	RNC 5	Ø 400		900	Tailstock
CNC lathe	Monforts	RNC 7	Ø 678		860	Tailstock
CNC lathe	Monforts	FNC 600	Ø 650		300	
Cycle - lathe	Boehring	DUS 1000	Ø 1000		2000	
Cycle - lathe	Boehring	DUS 1200	Ø 1200		2000	
Groove reaming machine	Frömag	Rapida CNC 50			425	Groove width from 3 – 50 mm in bore diameters from 10 – 230 mm
Honing machine	Sunnen	CK 21	400	300	300	Bore diameter up to 220 mm

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Calcination / Welding

Description	Manufacturer	Machine type	Processing distance X	Processing distance Y	Processing distance Z	Notice
6-axis articulated robot	Cloos	Romat 350	Traverse path up to 4400 mm / Weight of workpiece up to 2000 kgs			
Plasma-cutting machine	Esab	UDX-P2000	2000	2650	200	Material thickness up to 90 mm; up to 200 mm if required

Furthermore we are in possession of:

- a welding supervisor and a welding certification according to DIN EN 18 800
- magnetic particle inspection (MT) DIN EN 473
- dye penetrant inspection (PT) DIN EN 473
- hand-work places with MAG-welding equipment Cloos Quinto of the latest generation
- WIG-welding equipment
- a plasma cutting machine

Sawing

Description	Manufacturer	Machine type	Processing distance X	Processing distance Y	Processing distance Z	Notice
Bandsaw	Kasto	HBA 1060/1260	Max. 1260 x 1060 mm up to 6000 mm length	Max. weight of workpiece 5000 kgs		
Bandsaw	Kasto	HBS 420 AU	Max. Ø420 mm / min. Ø10 mm up to 6000 mm length	Max. weight of workpiece 5000 kgs		

Blasting

Description	Manufacturer	Machine type	Notice
Swing table roto blast machine	Schlick	DT1000-3.1-4.0	spezial shot consisting of glas, ceramic; treatment of stainless steel and aluminum
Spin hanger roto blast machine	Schlick	HB16/16W	ball shot 1 mm grit/ workpiece size max. 500 kgs, 1m ³
Spin hanger roto blast machine	Schlick	HB 12/16-4.2-7.5	
Blasting cubicle	Rösler-Hunziker	ST 1000PS	manually driven blast gun

Measurement technique/ Quality control

Description	Manufacturer	Type	Measuring range X	Measuring range Y	Measuring range Z	Notice
3-D measuring device	Wenzel	LH1210	1200	2000	1000	
3-D measuring device	Wenzel	LH87	800	1000	700	
Gage Plus Faro Arm	Faro	F04-02-06-22430	1000	1000	1000	Operation of measuring system in combination with machining center

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Hardness tester in HR	Brück	206 EX				Measuring method HRA / HRB / HRC
Gauge block set		accuracy 0				Ceramic
Laser marking machine	NWL Forano					

Furthermore we are equipped with:

- an air conditioned measuring room with over 50 qm floor space
- sliding calipers up to a 1000 mm of measuring length (analog and digital)
- outside micrometers up to 400 mm/ micrometer depth gauge up to 150 mm
- three-point internal measuring gauge up to 400 mm
- mandril gauges up to 120 mm and drilling gauges up to 740 mm in diameter
- caliper gauges up to 740 mm
- multimeters "Multimahr" up to 1000 mm
- plug thread gauge / thread ring gauge
- surface checking device
- paint thickness gauge
- pin marker
- **all equipment is subject to the inspection equipment monitoring according DIN EN ISO 9001:2008**

