



List of machines

CNC-Turning:	Mori Seiki high performance-CNC-turning machine NL 2000 MC C-Axis, Y-Axis, powered tools, bar capacity Ø 65 Chuck Ø 225, Hainbuch collet chucks Short rod rack	Ø 260 x L 500
	Mori Seiki high performance-CNC-turning machine NLX 2500 Y / 700 C-Axis, Y-Axis, powered tools, bar capacity Ø 80 Chuck Ø 275	Ø 360 x L 705
	Mori Seiki high performance-CNC-turning machine NL 3000 MC / 700 C-Axis, powered tools, bar capacity Ø 90 Chuck Ø 312	Ø 420 x L 713

Turning:	VDF Boehringer DUE 500	Ø 480 x L 1500
	Colchester Triumph 2000	Ø 380 x L 1200
	Colchester Master 2500	Ø 330 x L 700
	Colchester Master 2500	Ø 330 x L 700
	Weiler Condor VC plus	Ø 360 x L 800
	Weiler LZ 280	Ø 280 x L 700
	Weiler lever turning machine	Ø 260 x L 500

All turning machines with digital read out unit.
 Extensive accessories, e.g. bezels up to D 270, surface plates,
 four-jaw chucks und collet chucks, eccentric chuck

CNC-Milling:	Hermle high performance- CNC- machining centre C 40 U dynamic 5 Axis, 38 tools Heidenhain-control iTNC 530, spindle 28 000 1/min Panning rotary table Ø 800 Laser measurement 80 bar internal coolant supply	lengthwise X 850 across Y 700 vertical Z 500
	Hermle high performance- CNC- machining centre C 30 U dynamic 5 Axis, 32 tools Heidenhain-control iTNC 530, spindle 18 000 1/min Panning rotary table Ø 280 side clamping plates Infrared- 3D tactile- and measuring meter Laser measurement 80 bar internal coolant supply	lengthwise X 650 across Y 600 vertical Z 500

CNC-Milling:	Hermle high performance- CNC- machining centre C 30 U	lengthwise X	650
	5 Axis, 75 tools	across Y	600
	Heidenhain-control iTNC 530, spindle 18 000 1/min	vertical Z	500
	Panning rotary table Ø 630		
	Infrared- 3D - tactile- and measuring meter		
	Laser measurement		
	80 bar internal coolant supply		
	Hermle high performance- CNC- machining centre C 30 U	lengthwise X	650
	5 Axis, 75 tools	across Y	600
	Heidenhain-control iTNC 530, spindle 18 000 1/min	vertical Z	500
	Panning rotary table Ø 630		
	Infrared- 3D - tactile- and measuring meter		
	Laser measurement		
	Minimal quantity lubrication		
	80 bar internal coolant supply		
	Mikron high performance- CNC- machining centre UCP 600	lengthwise X	530
	5 Axis, 30 tools	across Y	450
	Heidenhain-control iTNC 530, spindle 20 000 1/min	vertical Z	450
	Panning rotary table Ø 400		
	Infrared- 3D tactile- and measuring meter		
2x	DMG vertical machining centre DMC1150V	lengthwise X	1150
	60 tools	across Y	700
	Heidenhain-control iTNC 640, spindle 14 000 1/min	vertical Z	550
	Stationary table 1460 x 750 mm, load up to 1500 kg		
	Infrared- 3D tactile- and measuring meter		
	Laser measurement		
	Mikron high performance- CNC- machining centre VCE 600 Pro	lengthwise X	600
	4 Axis, 24 tools	across Y	500
	Heidenhain-control iTNC 530,	vertical Z	540
	Infrared- 3D tactile- and measuring meter		
	4. Axis Spirsin - Rotary table	Chuck	Ø 200
	Deckel FP4 MA	lengthwise X	485
	Control Contour 2	across Y	385
	Universal panning rotary table	vertical Z	380
Milling:	5 Machines	Deckel	FP1 / FP 2 / FP 4 M
			lengthwise X 500
			across Y 400
			vertical Z 400
	Extensive accessories, e.g. prism calmping systems		
	Header and boring tools. NC - dividing head by Walter		
	All milling machines with digital read out unit.		

Electrical discharge machining:	Agie Agiecut Excellence 3 Conical machining up to 30° Finish up to Ra = 0,2	lengthwise X 300 across Y 350 vertical Z 256
	Agie Agiedrill EDM drill	lengthwise X 300 across Y 200 vertical Z 300
Grinding:	Kellenberger universal cylindrical grinder 1000U Inside, outside and planar grinding	Ø 350 x L 1000
	Geibel + Hotz surface grinder, table size:	lengthwise 600 across 400
	Flaring cup wheel grinding machine	
Honing:	Nagel Handhonmaschine HHM 40	
Drilling:	Arboga arm drill Alzmetall pillar drill Multiple Solid table and pillar drill	up to Ø 50 up to Ø 30
	Drills are equipped with threading automatic accessories: cross table and quick release mechanisms	
Welding:	Various MIG-MAG welders	
Sawing:	Amada bandsaw HA250W	up to Ø 250
	Heller circular saw K 315	up to Ø 100
	Eisele miter box saw	
	Hema vertical band saw	
	Elu miter box circular saw bench	
	Klaeger ABS 265	
Deburring:	Trowal slide grinding machine	capacity 250 ltr.
	Uron slide grinding machine for small parts	capacity 5 ltr.
	Various table belt grinding machines	
	Various beveling machines	
	Reishauer deburring and beveling machine	

