

HEGGEMANN
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PRODUCTION CAPACITIES

Machining

CNC-Milling

Deckel Maho DMF 500 linear	5000 x 920 x 820	4 axis
Hermle C60	1200 x 1300 x 900	5 axis
Deckel Maho DMU 125 P	1150 x 1000 x 1000	5 axis
Deckel Maho DMC 103 V	1000 x 600 x 600	3 axis
Deckel Maho DMC 100 U duoBLOCK (2 x)	950 x 850 x 900	5 axis (revolving table)
Hermle C42 dynamic	800 x 800 x 550	5 axis
DMG Mori DMU 80 eVo linear	800 x 650 x 550	5 axis (revolving table)
DMG Mori DMU 80 eVo	800 x 650 x 550	5 axis
Deckel Maho DMU 70 eVo	750 x 600 x 520	5 axis
Deckel Maho DMU 80 P	700 x 800 x 600	5 axis
Deckel Maho DMU 50 eVo	500 x 400 x 380	5 axis
Hermle C42 PW850	800 x 800 x 550	5 axis / 5 paletts

CNC-Turning

Gildemeister CTX 510 V3	Ø 400 x 1000	powered tools
Saeilo Contur F50	Ø 300 x 550	
Gildemeister CTX 400 E / Series 2	Ø 270 x 520	powered tools
DMG Mori CTX beta 1250	Ø 410 x 1250	powered tools

Turning-conventional

Gildemeister NEF 520	Ø 280 x 1500
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CNC-Programming

Milling programs:	<i>hyperMILL</i> 5 axis and 3 axis, 5 axis simultaneous MasterCam V9
Turning programs:	Heidenhain Turn Plus TNC
Useable data format:	CATIA, OPEN MIND e3, IGES, STEP as well as all further commonly used data exchange formats

CNC-Cylindrical Grinding

Studer S33	Distance between centers 1000mm/center height 175mm Max.component weight 120kg
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Forming, Bending, Cutting

Pipe and Profile Bending

MEWAG Megalus 60 MD	Ø 10 - 65	9 CNC-axis bending machine w/ offline programming and simulating function
KM 137	Ø 4,5 - 12	CNC bending machine
Transfluid SRM 1565-E	Ø - 65 / Alum. Ø – 80	Rotary SRM Forming Machine

Pressure Forming

Tranemo DPA-H-315-25	2500 x 1100	3150 kN, 250 kN cushion
Raster Zeulenroda PYE 25M	500 x 630	250 kN
Raster Zeulenroda PYE 160 S/111	630 x 1000	600kN, 1600 kN cushion
Exner EEX 40	440 x 500	400 kN
Beyerle CNC-bend press	100 x 3100	1000 kN

Laser

Bystronic Fiber 3015	3000 x 1500	3 kW 2D-laser special feature: fiber-laser, dual table
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Lasercutter

Trumpf 3D TruLaser Cell 7040	4000 x 1500 x 750 or 1736 x 1500 each in two-station operation	3kW 3D-Laser
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Deburring / Chamfering

Vibratory Finishing Löwer DiscMaster 4TD-1000	with rotary vibrator R320-EC incl. drying system RT250 Sheet Deburring Machine Aluminium und Stainless Steel max. Grinding width 1000mm max. Grinding height 100mm
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Joining

Welding-manual

TIG-welding	10 work places 8 work places 6 work places 2 work places	steel aluminium stainless steel titanium
MIG- / MAG-welding WIG-welding acc. to Nadcap™	10 work places 2 work places	Nadcap™ AC 7110/5

Welding robotic

KUKA KR 15/2, 6 (+ 1) axis	r = 1.570 mm	MIG / MAG
KUKA KR 16/2, 6 (+ 1) axis	r = 1.610 mm	MIG / MAG
ABB IRB 2400 L, 6 (+ 2) axis	r = 1.810 mm	MIG / MAG
KUKA KR 16/2	r = 1.610 mm	MIG / MAG

Spot Welding

Dalex spot welding machine	P _N = 100 kVA P _{max} = 420 kVA	up to 600 daN
Dalex spot welding machine SF8/71	P _N = 8 kVA P _{max} = 23,7 kVA	17 - 235 daN

Assembling

Assembly, service and overhaul	10 work places
Prototyping, samples	3 work places
BENCH RIVETER	12.5" x H = 5"

Heat Treatment

Air Circulating Toploader SNOL	Type: 1000/650; Loadsize: 0 630 mm / 1800 mm	temperature max.: 650°C
Batch furnace THERM CONCEPT	Type KM1000/13 Loadsize: 900x600x1800 mm	temperature max.: 1280 °C
Batch furnace THERM CONCEPT	Type KU500/85 Loadsize: 750x750x900 mm	temperature max.: 750 °C

Measuring, Testing, Marking
Measuring machines

DEA Global Advantage machine	1500 x 700 x 660	CNC-coordinate measuring
DEA Scirocco-nt	MPE _P 1,7 µm 2500 x 1300 x 1000	CNC-coordinate measuring machine
Brown & Sharp Gage 2000P Q.P.T. ConturoMatic T1	MPE _P 4,0 µm 550 x 400 x 300 250 x 320	NC measuring machine contour measuring system
Mobile CAMM-Measuring Devices		
Faro Arm PLATINUM 12' (2 x)	r = 1.750	digital measuring arm
Faro Arm PLATINUM 8'	r = 1.150	digital measuring arm

Analysing, Testing

Pfeiffer Vacuum	helium leak detection	vacuum process
Birk Anlagenbau	burst pressure testing	water pressure process
Garant; Typ ST1		roughness measurement
Leitner; Typ X1000;	Sensor 0 5,5 u. 6 mm	video endoscope
	Workspace 2000 mm	

Non-destructive Testing

Crack detection	Fluorescent penetrant inspection
	Magnetic particle inspection

Marking

TruMark 3000

SIC WOSTOR c151-ZA	Laser marking and labelling
CCE Code Cube 55L	Dot peen marking
GIMA Marking Set GG 3000	Ink jet marking
	Electro-chemical marking

Material Testing

Hardness Testing

Equipment:	Hardness Testing Machine BRVZ-KB250 (KB Prüftechnik)
Test Methods:	Brinell, Vickers, Rockwell, Super Rockwell

Evaluation of Mechanical Properties

Equipment:	Material Testing Machine Z100 THW Allround-Line (Zwick)
Test Methods:	Tensile Testing, Compression Testing, Bend Test, quasi-static Testing of Components

Chemical Analysis

Equipment:	Spectrometer PMI Master+ (Oxford Instruments)
Base Alloys:	Ferrous, Aluminum, Titanium, Nickel

Metallographic Examination

Equipment:	Cut-Off Machine Mecatome T255/300 (Presi)
	Burnishing and Polishing Machine Saphir 550/Rubin 520 (ATM)
	Camera EOS 700D (Canon)
	Reflecting Microscope Jenavert (Zeiss)
	Image Management and Surveying Software EasyLab (Imagic)
Examinations:	Metallographic Macro- and Micro Etching
	Digital Surveying and Examination, Examination of Weld Seams,
	Microstructural Examination, Failure Analysis