

Supply of services

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Supply of services

1. Mechanical processing:

Our machine shop is equipped with various sizes of lathes and CNC milling and boring machines. We have a team of skilled technicians, craftsmen, machinists and engineers to perform all types of mechanical jobs.

With 4 overhead cranes with a capacities of 16 T (2 each) and 32T (2 each) at its disposal we can handle large parts with a hook height of 9 m.

6000 square meter production area allows us to assemble and fabricate large welding construction.

Milling cum boring machine

Manufacturer / type	TOS / WHN 13 CNC
Control unit:	Heidenhain 5 axes
Control type:	iTNC 530
Travel range:	X 3500 mm
	Y 2500 mm
	Z 1600 mm
Table area:	1800 x 2200
Spindle diameter:	Sk50
Max. work piece weight:	16 t



Milling machine

Manufacturer / type:	KUNZMANN WF600MC
Control unit:	Heidenhain 3 axes
Control type:	iTNC 320
Travel range:	X 600 mm
	Y 400 mm
	Z 400 mm
Table area:	800 x 400
Spindle diameter:	Sk40
Max. work piece weight:	500 kg



Turning machine

Manufacturer / type:	TOS SU 150
Type of turning lathe:	centre
Face plate Ø:	1500 mm
Max. circumferential diameter:	1200/5000 lg
at working length	

Manufacturer / type:	TRENS SN 500 SA
Type of turning lathe:	centre
Face plate Ø:	550 mm
Max. circumferential diameter:	270/2000 lg
at working length	



Supply of services

2. Cutting and flame cutting jobs:

Our cutting department is equipped with various types of oxy fuel cutting machines and heavy duty band saws. Our machines boast the latest technology and are able to eliminate minute errors so that the output is of the highest quality and at the highest speed possible. We have a gantry cutting machine with a bed size of 12m/4.3m and also a pipe profil cutting machine with 5 axis control with we can cut any shape in pipes from Ø200 mm to 2000 x 11600m long.

CNC template flame cutter, type Zinser (2 burners)

Travel range:	X	12000 mm
	Y	4300 mm
	Z	150 mm
Max. component weight:		32 000 kg



Pipe flame cutter, 5 axis control

Pipe diameter:	Ø 200 - 2000 mm
Travel range:	11600 mm
Max. component weight:	2 x roller block 10 t each
	2 x roller block 5 t each
	→ 20000 kg



Automatic band saw

Manufacturer:	MEBAECO 510 DGA
Diameter:	Ø up to 510 mm
Band saw with NC automatic feed and mitre capacity of 30° - 135°	



3. Rolling

We have two hydraulic plate rolling machines with various ranges made by Haeusler, Germany. The three-roll bending machine allows both: first the bottom rolls to move individually horizontally and second the top rolls to move vertically so that individual angling is possible for conical rolling. It offers various advantages over other solutions in terms of minimizing flat ends, bending precision and work piece handling. It can bend steel plates up to 100mm thick and 3m long. The four-roller bending machine can process plates up to 60mm thick and 2m long, a detailed specification can be found below.

Haeusler HDR 4400-1600

Manufacturer / type:	Haeusler HDR 4400-1600
Machine type:	3-roll
Max. plate width:	4400 mm
Diameter range:	600 to unlimited mm
Plate thickness for bending up to:	10-100 mm
Special features:	NC-controlled machine

Other thicknesses & diameters available on request.
Particularly suitable for bending cylindrical and conical parts.



Haeusler VRM 271

Manufacturer / type:	Haeusler VRM 271
Machine type:	4-roll
Max. plate width:	2200 mm
Diameter range:	400 to unlimited mm
Plate thickness for bending up to:	5-60 mm
Special features:	NC-controlled machine

Other thicknesses & diameters available on request.
Particularly suitable for bending cylindrical and conical parts.



4. Welding

Welding according to DIN, ASME Boiler and Pressure Vessel Code Sect. IX.
Welding certificates from TUV, Lloyd's Register, Bureau Veritas, Det Norske Veritas and others.
There are WPQRs for nearly all prepared materials, welding processes, weld shapes and dimensions.
Additional process tests are always possible.

- qualification of welders according to EN 287 and ASME IX
- approval of welding procedures in accordance with EN 15614 and ASME IX
- manual welding stations
- various types of welding equipment for the following welding processes:
 - manual arc welding -E- (111)
 - metal inert gas welding -MIG- (131)
 - metal active gas welding -MAG- (135)
 - tungsten inert gas welding -WIG- (141)
- Automatic submerged arc welding machine carrier for circumferential and longitudinal welds:

longitudinal welds up to 4.500 lg
circumferential welds up to \varnothing 5.000
welding turntables from 150 – 6.000 kg
load-bearing capacity
welding roller bock up to 60.000 kg
load-bearing capacity



5. Annealing Furnace:

For stress-relief annealing, soft annealing, normalizing and tempering.

Manufacturer / type:	Andritz Maerz	
Table width:	3.000 mm	
Table length:	14.000 mm	
Loading height:	3.000 mm	
Max. weight:	50 t	
Max. weight per part:	50 t	
Max. temp:	1.000 °C	± 5 °C *



Surface treatment

Sandblasting rust removal in our large-capacity blasting room, also sand blasting for stainless steel and duplex steel. According to ISO 8503, SA2.5. Processing space (tempered), processing and testing facilities.

Painting & varnishing: various coatings on request
Shot blasting room

Intermediate space width	5.500 mm
Intermediate space height	5.000 mm
length	16.000 mm



6. Material testing laboratory

Our material testing lab is equipped with a wide range of testing equipment such as the pendulum impact test machine (Charpy), hardness testing devices, universal testing devices: testing machines for tensile and bending specimens. Forces of up to 400KN. Bending test, side bends, root bend, tensile test. Grinding devices for micro-and macro sections, equipment for chemical etching.

Testing equipment / test methods

- X-ray devices, up to 320 kV, (direct beam and omnidirectional beam devices)
- Ultrasonic test devices
- Magnetic particle and colour penetration test
- Electrical test devices for breakdown tests of up to 20,000 volts
- Pressure test fixtures and equipment for pressure tests of up to 750 bar positive and negative pressure tests
- Corrosion tests, such as:
 - o coating thickness tests
 - o adhesion tests
 - o cross-section tests
 - o pore tests of up to 30 kV
- A material testing laboratory with extensive equipment for destructive and non-destructive tests, such as:
 - o tensile tests
 - o impact test
 - o bending tests
 - o macro-photography
 - o hardness tests (HB, HV, HR)
 - o macro-examinations
 - o own testing workshop
- Personnel certification in non-destructive testing (NDT) according to EN 473 and ISO 17635