

Our manufacturing capabilities

Processing	Working range	Material / Thickness [mm]					Comments
		Structural steel	Stainless steel	Aluminium	Copper, brass, bronze	Plastics / organic materials	
2D Laser Cutting	x=1,500 / y=3,000 mm	25	30	30	12		New: Fibre laser connected to a fully automated storage system Tolerance: ± 0.1 mm; oxide-free
3D laser cutting:	x=800 / y=600 / z=400 mm	3	3	3	3		Tolerance: ± 0.02 mm Minimum sheet thickness: 0.05 mm
Punching	x=1,500 / y=4,000 mm	8	5	8	8		Tolerance: ± 0.1 mm Thread forming, embossing, etc.
Water jet cutting	x=1,500 / y=3,000 / z=200 mm	60	60	100	60	100 - 200	More or less any material can be processed
Rounding edges	l _{max} = 4,400 mm	X	X	X	X	X	320 to, 130 to, 100 to, 80 to, 25 to
Fully automated bending centre	l _{max} = 1,850 mm	2	1.5	3	1.5		Minimum part size 130x130 mm
Welding		X	X	X	X		WIG/GMAW, certified for EN 15085-CL2 according to EN ISO 9606-1/ EN ISO 9606-2
3D Laser Welding	x=800 / y=600 / z=400 mm	3	3	3	3		
Robot welding	800 x 1,000 x 1,200 mm	X	X	X	X		GMAW
Spot welding		4/4	4/4	3/3			also welding nuts, earthing straps, etc. EN ISO 14732 certified
Stud welding	x=1,000 / y=600 / z=100 mm	X	X	X			Threaded bolts : M3 to M8 x 30 mm Threaded sockets : M2.5 to M8 x 30 mm Pins : ø3 to ø 8 x 30 mm
Press fitting	M2 to M10	X	X	X	X		Nuts, bolts, sockets
Deburring / finish new	l=4,000 / b=1,500 / h=100 mm	X	X	X	X		Machines with two grinding unit for pre-deburring + polishing, and rotating brushes for deburring, rounding and finishing panels or profiled parts and cleaning the surface in all directions
Barrel finishing	300 x 100 x (60) mm	X	X	X	X	X	Other dimensions are also possible depending on the weight and shape
Round bending	l _{max} = 2,550 mm ø _{min} = 280 mm	3	3	3			3 roll bending machines
	l _{max} = 1,500 mm ø _{min} = 150 mm	2	1.5	2			
	l _{max} = 950 mm ø _{min} = 90 mm	1.5	1.5	2			
Powder coating Wet painting	2,500 x 4,000 x 8,000 mm	X	X	X	X	X	Pretreatment chrome-free passivation for Alu and degreasing and phosphatising of steel, RAL, NCS colours
Assembly of components	180 m ²	X	X	X	X	X	Incl. procurement of third-party parts and surface finishing
Bonding A2/A3	Rail Vehicle Construction	X	X	X	X	X	Certified according to DIN 6701