Machines and Technologies



construction	
own	12 CAD-work stations Solidworks 3D
design department	product development, preparation of suitable data for machine programming
blanking	surphise and combined approaches
TRUMPF	punching and combined processing working range 3000x1500mm
	laser cutting
	working range 4000x2000mm max. thinckness: Steel up to 25mm, Stainless steel up to 15mm,
	Aluminium up to 15mm
	3-D-laser cutting working range 4000x1500x750mm
mechanical bar processing	Elumatec SBZ 122, bar length up to 4 m
bending and folding	
folding	press brakes for high-precision bending 4420 mm with complicated bendings with pressure up to 3200KN, Multibend centre for automated bending of laminary parts
plate rolling	4-roll bending roll for diameters ≥ 220 mm thickness up to 3 mm and maximum length of 2,5 m
welding and soldering	
certifications	Quality standard ISO 3834-2(2006) CL1 / CL2 DIN15085-2 rail vehicle comonets
	Q1 / Q2 / Q3 DIN2303 defence products
MIG / MAG/ TIG methods	13 welding work station for steel, stainless steel and aluminium
	QIROX welding robot Cloos (TIG und MAG) Universal Robot (6 axis)
3-D-laser welding	Trumpf working range 4000x1500x750mm
spot welding	Stationary machine for thin sheets, up to 90kVA
gas-shielded soldering	
<u>blasting</u>	
	Klefler blasting cabin 8000x4000x3285 (steel granulate)
joining and straightening	
Haeger 824 Window Touch	advanced technolgy for setting bolts and nuts
OMCN straightening press	100 t press
messuring	
German Mechatronics	2D messuring machine Visual Quality Control
VQC 12/20	working range 1250 x 2000mm accuracy + 0,05 mm
3D-messuring arm FaroArm Fusion	working range: <=2,4m accuracy: 0.043 mm [single point acuracy]
	±0,061 mm [volumetric]
colouring	
	application of tricationzincphosphating
	excellent corrosion protction in steel chromium-free passivation
	excellent corrosion protction in aluminium
powder coating	6000 x 2000 x 1000 mm 6000 x 3000 x 3000 mm
wet lacquering	