

key figures				
established	employees	facility	property	photovoltaic system
1924	300	25,000 m ²	100,000 m ²	940 kWp

certifications				
quality	welding generally	welding railway	welding defense	energy
ISO 9001	EN1090 EXC3 DIN EN ISO 3834-2	DIN EN 15085-2 CL1	DIN 2303 Q2BK1	ISO 50001

automated storage system				
manufacturer	capacity	bays	bay load	format maximum
STOPA	4,560 to	1,520	3 to	4,000 x 2,000 mm

laser cutting				
manufacturer	type	power	working space	automation
TRUMPF	TruLaser 5040	solid state 24 kW	4,000 x 2,000 mm	TRUMPF Liftmaster
TRUMPF	TruLaser 5040	solid state 5 kW	4,000 x 2,000 mm	TRUMPF Loadmaster
TRUMPF	TruLaser 5040	CO ₂ 6 kW	4,000 x 2,000 mm	TRUMPF Loadmaster
TRUMPF	TruLaser 5040	solid state 5 kW	4,000 x 2,000 mm	TRUMPF Loadmaster
TRUMPF	TruLaser 5040	solid state 10 kW	4,000 x 2,000 mm	loading robot + FANUC robot
TRUMPF	TruLaser 5030	solid state 24 kW	3,000 x 1,500 mm	ISOCHRONIC gantry robot, 2x.
TRUMPF	TruLaser 5030	CO ₂ 6 kW	3,000 x 1,500 mm	TRUMPF Loadmaster
TRUMPF	TruLaser 5030	solid state 5 kW	3,000 x 1,500 mm	ISOCHRONIC gantry robot, 2x.
TRUMPF	TruLaserCenter 7030	solid state 12 kW	3,000 x 1,500 mm	TRUMPF full service automation

punching punch laser combination				
manufacturer	type	power	working space	automation
TRUMPF	TruMatic 7000	CO ₂ laser 3.2 kW 220 kN	3,000 x 1,500 mm	TRUMPF FMC
TRUMPF	TruMatic 6000	CO ₂ laser 3.2 kW 220 kN	2,500 x 1,250 mm	TRUMPF FMC
TRUMPF	TruPunch 5000	220 kN	3,000 x 1,500 mm	TRUMPF FMC
TRUMPF	TruPunch 5000	220 kN	3,000 x 1,500 mm	TRUMPF FMC
EUROMAC	VA Multi 220	60 kg/mm ²	950 x 1,030 mm	

bending				
manufacturer	type	power	bending length	automation
TRUMPF	TruBend 8600	6,000 kN	5,000 mm	loading robot + FANUC robot
TRUMPF	TruBend 5230	2,300 kN	3,000 mm	FANUC robot, 2x
LVD	EasyForm 220	2,200 kN	3,000 mm	FANUC robot, 2x
LVD	EasyForm 135	1,350 kN	3,000 mm	loading robot + FANUC robot
LVD	EasyForm 110	1,100 kN	2,500 mm	FANUC robot
AMADA	HD-ATC1003	1,000 kN	3,000 mm	AMADA ATC
TRUMPF	TruBend 7050	500 kN	1,530 mm	loading robot + 2x FANUC robot
TRUMPF	TruBend 8400	4,000 kN	4,500 mm	
TRUMPF	TruBend 5320	3,200 kN	4,000 mm	
TRUMPF	TruBend 5230	2,300 kN	3,000 mm	
TRUMPF	TruBend 5230	2,300 kN	3,000 mm	
TRUMPF	TruBend 5230	2,300 kN	3,000 mm	
TRUMPF	TruBend 5230	2,300 kN	3,000 mm	
TRUMPF	TruBend 5170	1,700 kN	3,000 mm	
SAFAN	E-Brake 65	650 kN	2,500 mm	
SAFAN	E-Brake 65	650 kN	2,500 mm	
TRUMPF	TruBend 7050	500 kN	1,530 mm	

swivel bending				
manufacturer	type	sheet thickness	bending length	automation
TRUMPF	TruBendCenter 7020	structural 3, stainless 2.2, Al 4 mm	2,150 mm	FANUC robot, 2x
SCHROEDER	MAK4 EVO UD	structural 5, stainless 3, Al 5 mm	4,000 mm	

plate rolling				
manufacturer	type	technology	t _{max} l _{max}	
DAVI	MCA	4-rolls-CNC	8 3,000 mm	
DAVI	MCA	4-rolls-CNC	3 1,250 mm	
SERGI	EXP	3-rolls	4 2,000 mm	

shearing				
manufacturer	type	shearing length	sheet thickness	
SAFAN	B-Shear	3,000 mm	6 mm	

pressing				
manufacturer	type	power	working space	
EXNER	H4SP	3,000 kN	500 x 500 mm	
EXNER	EEX	400 kN	500 x 500 mm	
Profipress	PP 60	600 kN		
Profipress	PP 100	1,000 kN		

roll leveling				
manufacturer	type	sheet thickness	width	
KOHLER	Peak Performer	up to 15 mm	1,350 mm	

deburring					
manufacturer	type	technology	working space	automation	
LISSMAC	SBM	dry grinding	250 x 250 mm	FANUC robot, turning device	
COSTA	WSP	wet grinding	width 1,300 mm		
TimeSavers	42-Serie O	dry grinding	width 1,300 mm		
TimeSavers	42-Serie U	dry grinding	width 1,300 mm		
LOEWER	SwingGrinder	dry grinding	1,400 x 800 mm		
ROESLER	R320	vibratory grinding	250 x 250 mm		
ROESLER	R780	vibratory grinding	400 x 400 mm		
ROESLER	T250	drying	250 x 250 mm		

machining				
manufacturer	type	working space [X,Y,Z]	axes	tool changer capacity
AXA	VHC3	4,000 / 1,100 / 850 mm	6	48
QUASER	MV	1,270 / 700 / 610 mm	3	30
Kunzmann	WF	650 / 500 / 450 mm	3	20
CMA	FTC	3,000 / 1,500 / 200 mm	3	10

turning				
manufacturer	type	working space [d,l,passage]	tools	automation
OKUMA	LB3000EX	220 / 800 / 63 mm	12 (driven)	bar feeder

thread cutting		
manufacturer	type	thread size
CMA	RER 24	M3 - M20
CMA	RNR 20	M3 - M20
CMA	RNR 20	M3 - M20
CMA	RN 12	M3 - M12
Volumec	JT3150	M3 - M16

clinching, riveting				
manufacturer	type	technology	size	automation
HAEGER	824 WT 2H	clinching, pem fastening	M2-M10 d 2-10 mm	feeder
Gisepa	GAV	automated riveting	d 6.4 mm	feeder

robot gas metal arc welding				
manufacturer	robot	workstation, load	power	process
Panasonic	Panasonic	3,000 x d 1,200 mm, 500 kg 6,000 x d 1,200 mm, 1,000 kg	350 A	MIG/MAG
VALK	Panasonic	3,000 x d 1,200 mm, 500 kg	350 A	MIG/MAG
VALK	Panasonic	1,800 x d 750 mm, 150 kg	350 A	MIG/MAG
VALK	Panasonic	1,800 x d 750 mm, 150 kg	350 A	MIG/MAG
VALK	Panasonic	1,800 x d 750 mm, 150 kg	350 A	MIG/MAG
VALK	Panasonic	5,500 x d 1,300 mm, 1,000kg 9,800 x d 1,300 mm, 2,000kg	450 A	MIG/MAG
VALK	Panasonic	3,000 x d 1,200 mm, 500 kg	350 A	MIG/MAG/TIG

manual gas metal arc welding			
manufacturer	process	amount	power
KEMPPi	MIG MAG	40 pcs	up to 420 A
KEMPPi	TIG	15 pcs	up to 230 A

robot laser welding				
manufacturer	robot	laser	working space	station
AMADA	YASKAWA	AMADA solid state 3 kW	up to 3,000 mm	rotating tilting table

manual laser welding		
manufacturer	type	laser
BlueLaserTools	BLT2000	MAXPHOTONICS solid state 2 kW

spot projection welding				
manufacturer	type	technology	power	info
NIMAK	BMP 160	projection welding	50 kA	process monitored
TECNA	8207D	spot welding	27 kA	process monitored
ARO	T1509	spot welding		
ARO	T1000/c	spot welding		
ARO	T1000/c	spot welding		
SOYER	BMS 10N	stud welding		tip ignition
SOYER	BMS 10NV	stud welding		tip ignition
SOYER	BMK 12W	stud welding		retract ignition

welding preparation			
manufacturer	type	technologie	maximum thickness
Gerima	MMB	plate chamfering machine	100 mm

heat treatment			
manufacturer	type	technology	power
VauQuadrat	V3	deep induction	12kW
VauQuadrat	V4	deep induction	18kW

cranes		
amount	types	load capacity
30+	column, gantry, ceiling cranes	0.8 - 6.4 to

quality assurance measuring				
manufacturer	type	measuring system	precision max.	measuring size
Keyence	Lasertracker	laser 3D tactile 3D	0.028 mm	15,000 mm
Dt. Mechatronics	VQC	optical 2D	0.05 mm	2,000 x 1,250 mm
Dt. Mechatronics	VQC	optical 2D	0.05 mm	2,000 x 1,250 mm
FARO	Fusion	tactile 3D	0.074 mm	3,000 mm
FARO	Quantum	tactile 3D	0.032 mm	2,500 mm
FARO	Edge	laser 3D tactile 3D	0.025 mm laser 0.029 mm tactile	2,700 mm

quality assurance materials technology		
manufacturer	type	technology
Struers	Labopol	laboratory grinding machine for micro- and macrosections
Atorn	Mikroskop	digital laboratory microscope (130x) with measurement for micro- and macrosections
Spectro	Spectroport	spectrum analysis of materials (structural steel, stainless steel, non ferrous metals) Li, Be, B, C, Mg, Al, Si, P, S, Cd. Positive material identification (PMI-test).
Mahr	Surf PS	surface roughness tester
Karl Deutsch	Leptoskop	coating thickness gage

Software		
Hersteller	Programm	Typ
ABAS-ERP	ABAS	ERP/PPS
Wsoptics	WSi4	Quick calculation software. Requirement: step files
PTC	Creo	CAD/CAM
Autodesk	AutoCAD	CAD/CAM
Autodesk	Inventor	CAD/CAM
Bricsys	BricsCAD	CAD/CAM
TRUMPF	TruTops	CAD/CAM
TRUMPF	Boost	CAD/CAM
WICAM	PN4000	CAD/CAM
PANASONIC	DTPS	offline programming for welding robots (gmaw)
AMADA	VPSS4ie	offline programming for welding robots (laser)
LOGSOL	BinMan	container management
InnovMetric	PolyWorks	QA measuring