



TPV AUTOMOTIVE d.o.o.

Brezina 101; 8250 BREŽICE; SLOVENIJA

Tel.:+386(0)7 81 44 501

HARDWARE TECHNICAL DATA

TPV AUTOMOTIVE d.o.o. PLANT VELIKA LOKA





ROBOT WELDING LINE FOR RESISTANCE WELDING - TRUCK COMPONENTS

LINE DATA	
Welding controller:	FORWEL
Number of robots:	2
Manufacturer of robots:	ABB





SCORER SERRA

SCORER INFORMATION

Manufacturer	SERRA
Force at 6 bar (daN)	2300
Welding cylinder stroke (mm)	120
50% load (kVA)	200
Alternating current (Hz) AC transformer	50
Automatic feeding of nuts DIN 929	M6
Cell dimensions L x W x H (mm)	2400 x 540 x 1250
Weight (kg)	930

TOOL DATA

Max piece size (mm)	2000 x 1000
Maximum sheet thickness	5
Sheet metal material	Fe or galvanized
Max weight of production part (kg)	20





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PROJECTION WELDING MACHINE - FOR RESISTANCE WELDING

SCORER INFORMATION

Manufacturer	TPV Technical Centre
Welding source (kVA)	2300
Welding cylinder stroke (mm)	120

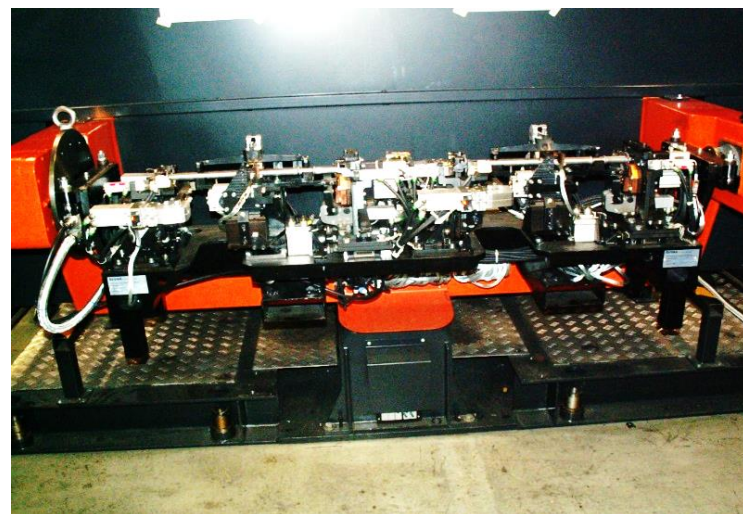




ROBOTIC WELDING CELL FOR MIG/MAG WELDING

ABB ROBOT CELL DATA

Robotic cell type	FlexArc 250R Multi
2 x robot	IRB 1600
2 x CMT	TPS 4000 CMT R
2 x H positioner (mm)	D=1500, L=2000
Table load (kg)	450
Operating panel	FlexPendant IRC5
Cell dimensions L x W x H (mm)	2500 x 3670 x 3000





ROBOT WELDING CELL YASKAWA



YASKAWA ROBOT CELL DATA	
Robotic cell type	standard
1 x robot	MA2010
The controller	DX 200
1 x CMT Fronius	CMT TPS 4000
Positioner	RWV2-500
2 x H positioner (mm)	D=1300, L=2000
Table load (kg)	500
Operating panel	Programming pendant
Cell dimensions L x W x H (mm)	6170 x 3748 x 2460
Weight (kg)	5500



ROBOT WELDING CELL AWL

AWL ROBOT CELL DATA	
Robotic cell type	T2R2AA
2 x robot	ABB
2 x welding source	SKS
2 x positioner (mm)	D=950, W=600
Table load (kg)	250
Operating panel	FlexPendant IRC5
Cell dimensions L x W x H (mm)	6500 x 2700 x
Robotic cell type	T2R2AA





POWDER COATING LINE

POWDER COATING LINE DATA	
Maximum piece size (mm)	1300x800x400
Conveyor speed (m/min)	0,5 – 1,5
Conveyor load capacity (kg)	150
Application thickness (µm)	50-150
Paint	RAL
Cyclic test	YES





KTL LINE

KTL LINE DATA	
Maximum piece size (mm)	2000x800x1500
Painting quality	1000 hours of salt chamber
Painting quality	42 ECC1 cycles
Application thickness (μm)	20-35
Painting method	Submersive
Paint	Black PowerCron 6200 HE





ROBOTIC WELDING CELLS

ROBOTIC WELDING CELL FOR MIG/MAG WELDING – JAGUAR SITZADAPTER L550	
Number of cells:	1
Welding source:	SKS
Number of robots:	2
Manufacturer of robots:	ABB
Table positioner:	Dual position rotating table (table width =1500mm)
Parts:	Tube and stamping parts
Manufacturer:	AWL
Vehicle	JLR 550

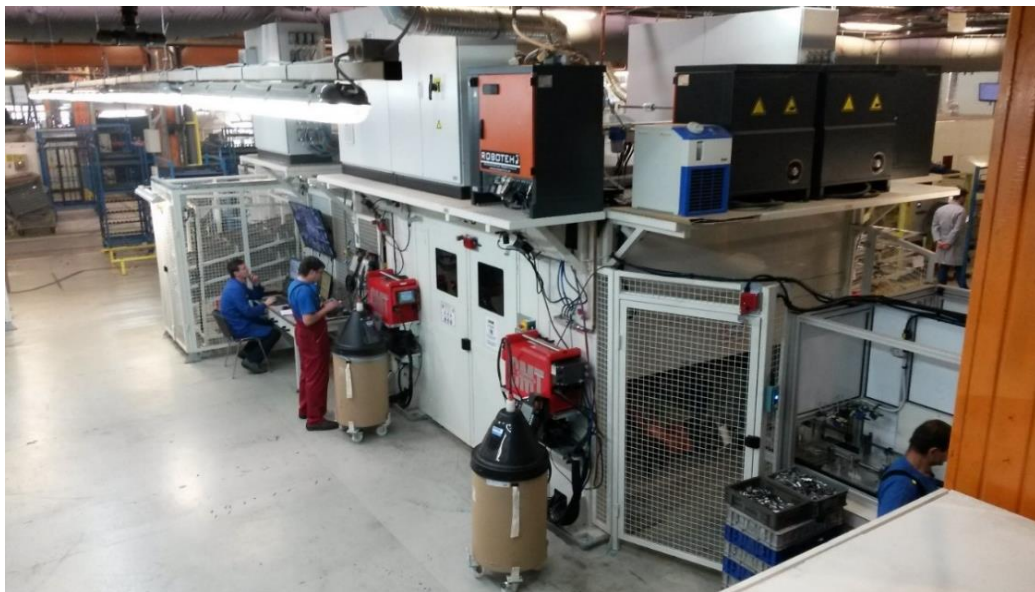




Robot Lines

ROBOT WELDING LINE IBK NAFTA	
Number of welding lines:	3
Welding source:	Fronius
Manufacturer of robots:	KUKA
Parts:	Tube and stamping parts





ROBOT WELDING CELL YASKAWA

YASKAWA ROBOT CELL DATA	
Robotic cell type	standard
4 x robot	MA1440(2x), MH24
The controller	DX 200
1 x CMT Fronius	CMT TPS 400i pulse
Positioner	RWV-M1-1000-1200
1 x manipulations robot	MS80WD
Table load (kg)	500
Operating panel	Programming pendant
Cell dimensions L x W x H (mm)	11500x9500x3400
Weight (kg)	6100



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ROBOT WELDING LINE

ROBOT WELDING LINE ROBOTECH	
Number of welding lines:	1
Number of robots:	6
Welding source:	Fronius
Manufacturer of robots:	KUKA
Parts:	Tube and stamping parts





ROBOT WELDING LINE

ROBOT WELDING LINE ROBOTECH	
Number of welding lines:	1
Number of robots:	6
Welding source:	Fronius
Manufacturer of robots:	KUKA
Parts:	Tube and stamping parts
LINE dimensions L x W x H (mm)	11500x9500x3400





BANDING LINE

ROBOT WELDING LINE IBK NAFTA	
Number of BANDING lines:	1
Hydraulic (bar)	160
Manufacturer of Line	Klenovšek Inženiring
Parts:	Tube parts
LINE dimensions L x W x H (mm)	18500x5200x3200





BANDING / WELDING LINE FOR RESISTANCE WELDING

LINE DATA	
Welding controller:	Rexroth
Number of robots:	1
Manufacturer of robots:	ABB
Cicle Time:	50 s/part
Parts:	Stamping parts
Manufacturer:	ELMEKO - DAIMLER
Vehicle:	TRUCK MERCEDES
LINE dimensions L x W x H (mm)	9700x7000x2500





SMART SYSTEMS

BELTPICKING	
Number of welding lines:	1
Welding source:	Fronius
Manufacturer of robots:	KUKA
Parts:	Tube and stamping parts
LINE dimensions L x W x H (mm)	10200x3000x2700





AGV – AUTOMATED GUIDED VEHICLES

AGV INFORMATION	
Manufacturer	TPV Technical centre
Power source (Ah)	170
Number of AGV	12

