



One of the
largest welding robot
 installations in Finland
 has started at Paramet!

Two welding stations with manipulators and offline teaching give many possibilities from small batches to large structures. Both IGM robots have Fronius TimeTwin power sources with twin torch capability and laser camera for seam tracking.

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Main features of the robotic welding installation at Paramet	
Robots and teaching	one six axis IGM RTe 496SH • one seven axis IGM RTe 497 SH-TD • two online and one offline teaching systems
Hanging slide system	2,5 m vertical movement, 3 m cross movement, longitudinal movement max. 38 m. • Robots can work individually or together in each station.
Welding stations	20 ton grill with 6-16 m plate distance • 6 ton grill with 3 m plate distance • 3 ton L-manipulator • floor area for large structures
IGM iCAM laser camera system	for volumetric monitoring of the joints as well as seam finding and seam tracking
Welding equipment	2 x 2 pcs power source type Fronius Time digital with capacity each 500 A at 60 % duty, twin torch capability in both robots.

Since 1988
Paramet Konepaja Oy

Paramet Konepaja Oy machine list

18.9.2018

PARAMET

Workshop

16 000 m²

Parainen, Finland

Part manufacturing

CNC-plasma cutting machine with beveling	3 000 mm x 12 500 mm	Messer, 2 units
CNC-flame cutting machine	4 000 mm x 13 000 mm	Robotronic
CNC-flame cutting machine	2 000 mm x 6 000 mm	Esab
Plate cutter	3 000 mm x 20 mm	Ursviken

Edging

Edging press	L = 6 000 mm, 800 MP	Ursviken
Edging press	L = 6 000 mm, 700 MP	Canwell
CNC edging press	L = 4 200 mm, 400 MP	Aliko
CNC edging press	L = 3 000 mm, 320 MP	Aliko
Rounding machine	45 mm x 3 200 mm	Kumla
Rounding machine	30 mm x 3 000 mm	Herkules
Rounding machine	8 mm x 2 500 mm	2 units

Machining

Floor type boring machine	x = 11 000 mm, y = 3 000 mm, z = 900 mm	Köllmann
Floor type boring machine	x = 7 000 mm, y = 2 500 mm, z = 1 400 mm	Froriep
CNC-drilling machine, magnetic clamping system	2 000 mm x 6 000 mm	Unisign Uniport 4000
CNC-drilling machine	2 000 mm x 6 000 mm	Unisign
CNC-drilling machine	1 270 mm x 520 mm	Hurco VMX 50
Cold saw for profiles	∅ 360-400 mm	4 units
Band saw for aluminum	∅ 360 mm	1 units

Welding equipment

Two robot welding unit with laser camera	42 000 mm x D4500 mm, 20 t	IGM
SAW welding column and boom	6000 mm x 6000 mm x 27 000 mm	PEMA, Lincoln
Rotating table	50 t	PEMA
Rotating table	horizontal, 80 t	PEMA
MAG, powder and electrode welding equipment		Kemppi, Esab

Heat and surface treatment

Heat treating unit	8 000 mm x 9 000 mm x 5 000 mm
Heat treating unit	5000 mm x 3 000 mm x 3 000 mm
Grain blasting and paint shop	12 m x 3,7 m x 30 m, 200 t

Material handling

Forklifts	16 t	Valmet
Forklifts	2-4 t	4 units
Terminal tractor with trailer	70 t	Sisu
Personnel hoists	20 m	3 units
Lifting capacity in workshops	80 t / 15 m	
Lifting capacity in harbor	100 t / 15 m	

Harbor

4,3 m waterway, 15 m under bridge