



TransPuls Synergic 3200/4000/5000

Multi-Process MIG CV/Pulse, TIG DC & Stick Electrode Welding

Simple, fully digital, high performance, adaptive pulse welding system to meet your fabrication demands.





TECHNICAL DATA

		TPS 3200	TPS 4000	TPS 5000
Line voltage		3 x 200 V - 240 V	3 x 200 V - 240 V	3 x 200 V - 240 V
		3 x 380 V - 460 V	3 x 380 V - 460 V	3 x 380 V - 460 V
Line voltage optional		3 x 575 V	3 x 575 V	3 x 575 V
Line voltage tolerance		+/- 10 %	+/- 10 %	+/- 10 %
Line fuse protection	3 x 200 - 240 V	35 A	63 A	63 A
	3 x 200 - 460 V	35 A	35 A	35 A
Primary continuous power (100 % d.c.)	3 x 200 - 240 V	10.4 kVA	11.9 kVA	14.6 kVA
	3 x 200 - 460 V	10.4 kVA	12.4 kVA	12.8 kVA
Cos phi		0.99	0.99	0.99
Welding current range	MIG	3 - 320 A	3 - 400 A	3 - 500 A
	TIG	3 - 320 A	3 - 400 A	3 - 500 A
	Stick (MMA)	10 - 320 A	10 - 400 A	10 - 500 A
Duty cycle	3 x 200 - 240 V	90 % d.c. / 320 A	75 % d.c. / 400 A	75 % d.c. / 500 A
	3 x 200 - 460 V	100 % d.c. 304 A	100 % d.c. / 365 A	100 % d.c. / 450 A
Open-circuit voltage	3 x 200 - 240 V	70 - 80 V	70 - 80 V	70 - 80 V
Operating voltage	3 x 200 - 460 V	14.2 - 30.0 V	14.2 - 34.0 V	14.2 - 39.0 V
Protection against dirt		IP 23	IP 23	IP 23



SYSTEM FEATURES

- **Synergic Mode:** Single knob control from thin to thick materials. Easy to use.
- **Job Mode:** Repeatable results to meet your quality requirements. Store up to 100 customized jobs.
- **Optimized Settings:** Use "Metal Thickness" to automatically set parameters. Ready to weld.
- **JobMaster Torch:** Built in remote - controls wire, arc length and jobs from the torch handle.

EFFICIENCY & TECHNOLOGY

- **Digital Inverter Technology:** Extremely energy efficient and micro-processor controlled.
- **Self Check System:** Digital display for easy troubleshooting.
- **Intelligent Water Cooler:** Automatic shut off when not welding. Built in digital coolant flow sensor.
- **Integrated System:** Power source, wire feeder, remotes and (push-pull) torches communicate via proven LocalNet® digital technology.

APPLICATION & PROCESSES

Processes	Materials	Industries
<ul style="list-style-type: none"> • GMAW-P • SMAW • GTAW/DC • FCAW • CAG 	<ul style="list-style-type: none"> • Steel • Stainless Steel • Copper • Nickel • Aluminum 	<ul style="list-style-type: none"> • Construction • General Fabrication • Ship Building • Repair Shops • Agricultural Machinery

ARC PERFORMANCE

- **Adaptive Arc Control:** Constant arc length with varying stick out.
- **Special Starting Features:** Smooth arc starts at any setting.
- **Pre-programmed Puls Wave Forms:** Excellent performance on a wide range of materials and thicknesses; extensive database for all alloys.
- **Syncropulse:** Industry standard for "TIG like appearance" of MIG welds.



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