

## Tetrix 451 Synergic FW

090-000103-00502



WE ARE WELDING



- Water-cooled DC TIG inverter welding machine with one-knob Synergic operation
- Features user database for Synergic operation at no extra charge
- Simple, menu-guided selection of welding tasks from user database
- 256 pre-programmed JOBS/characteristics in the user database
- Features characteristics for EWM activArc and EWM spotArc at no extra charge
- TIG welding with reproducible, electronic HF start
- TIG lift arc welding without HF
- Synergic or manual welding operation
- TIG automated pulsing with automatic specification of required pulse parameters
- Pulsed TIG welding in Hz and kHz range up to 15 kHz
- Large power reserves thanks to high duty cycle with all components heating up less as a result, guaranteeing a longer service life for machines when in use
- Non-latched/latched operation
- Reduced secondary current accessible using torch trigger
- Spot welding/tack function (spotArc/spotmatic)
- Up-slope/down-slope adjustable
- Spotmatic – halves time required for tacking
- Adjustable gas pre-flows/post-flows
- **MMA-Welding/gouging**
- MMA/gouging, automated pulsing with automatic specification of required pulse parameters
- Ideal for root welding
- Safe, reliable vertical-up and vertical-down welding
- Adjustable hot start current and hot start time
- Adjustable Arcforce
- Antistick function
- Excellent torch cooling, resulting in cost savings on consumables due to high-performance centrifugal pump and 12-litre water tank
- Energy-saving thanks to high efficiency and standby function
- Connection capability for remote control and function torch
- Crane-liftable casing
- Can be optionally networked with LAN or WiFi and EWM Xnet software

	TIG		MMA	
Setting range for welding current	5 A - 450 A			
Duty cycle at ambient t.e	40 °C	25 °C	40 °C	25 °C
80 %	450 A	–	450 A	–
100 %	420 A	450 A	420 A	450 A
Open circuit voltage	80 V , 79 V , 79 V			
Mains frequency	50 Hz / 60 Hz			
Mains fuses (slow-blow)	3 x 32 A			
Mains voltage (tolerances)	3 x 400 V (-25 % - +20 %)			
Max. connected load	16.3 kVA		22 kVA	
Recommended generator power	22 kVA		29.7 kVA	
cos φ	0.99			
Efficiency	90 %			
Dimensions machine, LxWxH in mm	1100 x 455 x 1000			
Weight, machine	126 kg, 131 kg			
Torch connection	Decentral			

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