

MULTIMATRIX

/ forceArc® / forceArc puls
/ rootArc® / rootArc puls
/ Impuls
/ superPuls



- Water-cooled MIG/MAG inverter welding machine, pulse, with separate wire feeder
- Synergic one-knob operation
- Excellent Multimatrix welding characteristics
- Adjustable start and end-crater functions
- Program operation with 16 programs per JOB
- Synergic or manual welding operation
- Equipped at no extra charge with Synergic characteristics for EWM forceArc, EWM forceArc puls, EWM rootArc, EWM rootArc puls and superPuls
- Equipped at no extra charge with Synergic characteristics for GMAW welding of steel/CrNi/aluminium
- Suitable for MMA welding, TIG welding and gouging at no extra charge
- Infinitely adjustable arc dynamics (choke effect)
- 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
- High-precision, powerful EWM eFeed 4-roll wire feed mechanism for secure feeding of all solid and flux cored wires
- Equipped for 1.2 mm steel wire
- 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
- Easy, tool-free change of welding polarity
- Earth fault monitoring (PE protection)
- High mains voltage tolerances +20%/-25% and therefore fully generator-compatible
- Ideally suited for use with long hose packages
- Connection capability for remote control and function torch
- Option to network via LAN or WiFi thanks to Multimatrix technology, Xnet-compatible

	Phoenix 551 Progress puls MM FDW					
	MIG/MAG		TIG		MMA	
Setting range for welding current	5 A - 550 A		5 A - 550 A		5 A - 550 A	
Duty cycle at ambient t.e	25 °C	40 °C	25 °C	40 °C	25 °C	40 °C
60 %	550 A	550 A	550 A	550 A	550 A	550 A
80 %	520 A	–	520 A	–	520 A	–
100 %	450 A	420 A	450 A	420 A	450 A	420 A
Open circuit voltage	80 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	28 kVA		22.2 kVA		29.2 kVA	
Recommended generator power	39.4 kVA					
cos phi	0.99					
Efficiency	90 %					
Drive rolls	4					
Wire speed	Wire speed m/min, 0.5 m/min - 25 m/min					
Wire speed	Wire speed ipm, 19.68 ipm - 944.88 ipm					
Dimensions machine, LxWxH in mm	1100 x 455 x 1000					
Wire feeder, LxWxH in mm	660 x 280 x 380					
Weight, machine	129 kg					
Weight, wire feeder	13 kg					
Protection classification	IP 23					
Insulation class	H					
Cooling output	1500 W (1l/min)					
Tank capacity	12 l					
Flow rate	5 l/min					
Max. output pressure	3.5 bar					
Standards	IEC 60 974-1; -2; -10 / CE / S-Safety sign / EMC class A					