

MULTIMATRIX

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



- Inverter welding machine, DC, pulse, water-cooled
- Multiprocess: MIG/MAG, TIG lift arc, MMA, air arc gouging
- Excellent Multimatrix welding characteristics
- Progress: Setting of all welding parameters and functions as well as welding parameter and JOB displays on the welding machine, one-knob operation (Synergic) — easy setting of operating point, pre-programmed JOBS (welding tasks), selection via JOB list
- Networking of any number of different power sources via LAN/Wi-Fi by means of ewm Xnet software (option)
- Synergic or manual welding operation
- 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
- Energy-saving thanks to high efficiency and standby function
- Compact, mobile, can be lifted by crane and moved by fork lift
- Easy, tool-free change of welding polarity
- Earth fault monitoring (PE protection)
- High mains voltage tolerances +20%/-25% and therefore fully generator-compatible
- Save electricity through standby function
- Connection capability for remote control
- Connection capability for remote control and function torch
- Option to network via LAN or WiFi thanks to Multimatrix technology, Xnet-compatible
- 5 m mains supply lead
- More effective welding with forceArc and rootArc technology
- Tool-free polarity selection: ideal for welding self-shielding flux cored wires
- Connection capability for MT function torches with X technology, without an additional control cable
- 4-roll drive. Equipped for 1.0 mm + 1.2 mm steel wires
- Powerful cooling system with centrifugal pump, pressure switch and 12-litre tank. Temperature-controlled pump and fan, reinforced pump required for overall hose package lengths of 30 m or longer, including welding torch
- Optionally available in a multi-voltage design (for mains voltages 3x230 V, 3x400 V, 3x480 V).

	Phoenix 501 Progress puls MM FKW					
	MIG/MAG		TIG		MMA	
Setting range for welding current	5 A - 500 A		5 A - 500 A		5 A - 500 A	
Duty cycle at ambient t.e	25 °C	40 °C	25 °C	40 °C	25 °C	40 °C
60 %	–	500 A	–	500 A	–	500 A
65 %	500 A	–	500 A	–	500 A	–
100 %	460 A	430 A	460 A	430 A	460 A	430 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	24.6 kVA		18.9 kVA		25.3 kVA	
Recommended generator power	35 kVA					
cos phi	0.99					
Efficiency	90 %					
Drive rolls	4					
Wire speed	0.5 m/min - 25 m/min					
Dimensions machine, LxWxH in mm	1100 x 455 x 1000					
Weight, machine	119.5 kg					
Protection classification	IP 23					
Insulation class	H					
Torch connection	Euro torch connector					
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; -5; -10 / CE / S-Safety sign / EMC class A