Phoenix 405 Progress puls MM TDM

MULTIMATRIX

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

- Modular 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
- IP23 spray water protected
- 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 5-litre water tank (cool50 cooling unit)
- 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
- Trolly 55-5 trolley and cool50 cooling unit available

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	MIG/MAG		TIG		MMA	
Setting range for welding current	5 A - 400 A		5 A - 400 A		5 A - 400 A	
Duty cycle at ambient t.e	25 °C	40 °C	25 °C	40 °C	25 °C	40 °C
100 %	400 A	400 A	400 A	400 A	400 A	400 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	17.5 kVA		13.1 kVA		18.2 kVA	
Recommended generator power	25 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	625 x 300 x 535					
Wire feeder, LxWxH in mm	660 x 280 x 380					
Weight, machine	41 kg					
Weight, wire feeder	13 kg					
Weight, cooling unit	16.5 kg					
Protection classification	IP 23					
Insulation class	H					
Cooling output	1000 W (1l/min)					
Tank capacity	5 l					
Flow rate	5 l/min					
Max. output pressure	3.5 bar					

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The content of this document has been prepared and reviewed with all reasonable care.
The information provided is subject to change, errors excepted.

Standards	IEC 60 974-1; -2; -10 / CE / S-Safety sign / EMC class A

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