

The NEOPULSE 320 C is a digital 3 phase MIG/MAG pulse welding machine. Designed for the highest performance level using the latest technology, it features numerous synergic curves and exceptional arc quality/performance. User friendly and highly practical, the digital interface is designed for quick and easy adjustments of the welding parameters. Equipped with a precise 4-Roll drive system, this powersource provides unparalleled productivity and welding quality on all types of materials.

MULTI-PROCESS WELDING

- **MIG/MAG :**
 - steel wire: Ø 0.6 to 1.2 mm
 - stainless steel wire: Ø 0.8 to 1.2 mm
 - aluminium wire: Ø 0.8 to 1.2 mm
 - CuSi and CuAl wire: Ø 0.8 to 1.2 mm
- **MMA DC / Pulse:** basic, rutile and cellulosic electrodes (up to Ø 5 mm).
- **TIG DC Lift / PULSE**

SMART

- **SYNERGIC mode:** After selecting material/gas combination and the wire diameter. NEOPULSE automatically works out the optimal welding conditions while still allowing you to adjust the settings (wire feed rate, voltage, current, arc length).

ACCURATE

- **Calibration** of the welding cables and motor speed, in order to adjust the voltage displayed and refine the energy calculation.
- **Energy**, display and energy calculation after welding based on standards EN1011-1, ISO / TR 18491 and QW-409.
- **Portability:** load/save user JOBS and machine settings using a USB stick.
- **Traceability:** track / record all welding steps, weld by weld, during industrial manufacturing in line with standard EN ISO 3834.

OPTIMISED MIG/MAG SETTINGS

- **Welding processes:** Manual, Dynamic STD, Pulsed, Arc Module (variation of hot / cold current)
- **TACK modes:** SPOT and DELAY.
- **Trigger options supported:** 2T and 4T.
- **Precise control over the welding cycle :** CreepSpeed, Softstart, Hotstart, Upslope, Downslope, Crater Fill, Postgas, etc.

MAXIMUM PRODUCTIVITY

- Intended for heavy and demanding industrial applications:**
- **4 microprocessors** increase the speed of communication and optimize the efficiency of the powersource.
 - **High productivity** thanks to high duty cycle (300 A @ 60%).
 - **Compatible wire reels:** Ø 200 / 300 mm.
 - **Connectable via a SAM control interface** for use on robot/automaton (optional).
 - **Robust design** to withstand shock and vibration
 - **Powerful electronically controlled wire feed motor** (100 W) with 4 active drive rolls.
 - **Very high arc voltage** for easier ignition and exceptional arc dynamic.

EASY TO USE

- New user friendly interface focused on welders' navigation habits.
- Update of the machine and synergies using a USB key.
- Cooling unit (ref. 013537) and trolley (ref. 037328) optional.
- Storage of 500 welding programs (can be saved on USB stick).
- Displays current/voltage during and after welding (WPS/PQR).
- Choice of the main parameter to display on the screen (wire speed, average welding current, etc.).
- Internal lighting of the wire feed motor and wire reel.
- Viewing window on wire door to check the level of wire.
- Intelligent ventilation management to reduce power consumption, dust intake and noise.
- Compatible torch Push-Pull (24 V / 42 V).

ROBUST AND MOBILE

- Reinforced metal case & non slip rubber pads.
- IP23 case.
- Separate NEOFEED-4W* dispenser with air or water connection cables up to 20m (optional)
- Remote adjustment of the generator using 2 optional remote controls (digital* or analog).

*Required digital connector kit (ref. 063938)



Supplies without accessories



- 3 levels of interface** for the user:
- Easy: simplified features
 - Expert: full display
 - Advanced: full access to all parameters

NEOPULSE 320 C

Ref. 062474



TECHNICAL DATA

Power supply voltage	3 x 400 V +/- 15%		Wire speed	1 - 22 m/min								
Mains protection (delayed)	32 A		Wirefeed motor	4 feed rollers								
Duty cycle 10 min/40°C EN 60974-1	60 %	300 A	Feed rollers diameter	37 mm (Type F)								
	100 %	280 A		<table border="1"> <tr> <td>∅ steel</td> <td>0.6 - 1.2 mm</td> </tr> <tr> <td>∅ stainless steel</td> <td>0.8 - 1.2 mm</td> </tr> <tr> <td>∅ cored wire</td> <td>0.9 - 1.6 mm</td> </tr> <tr> <td>∅ aluminium</td> <td>0.8 - 1.2 mm</td> </tr> <tr> <td>∅ CuSi / CuAl</td> <td>0.8 - 1.2 mm</td> </tr> </table>	∅ steel	0.6 - 1.2 mm	∅ stainless steel	0.8 - 1.2 mm	∅ cored wire	0.9 - 1.6 mm	∅ aluminium	0.8 - 1.2 mm
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Current range MIG-MAG / MMA / TIG	10 - 320 A		Wire									
No load voltage	85 V											
Voltage on charge	MIG-MAG	14.5 - 30 V	Wire reel	weight / min. ∅								
	MMA	20.4 - 32.8 V		5 kg - 200 mm								
	TIG	10.4 - 22.8 V		weight / max. ∅								
Max. productivity	%	91 %	Protection rating	IP23								
No-load consumption	MIG-MAG	37 W	Dimensions	680 x 300 x 550 mm								
	TIG											
	MMA	157 W	Weights	36 kg								

ACCESSORIES & CONSUMABLES

 <p>Neofeed 4W wire feeder 014527</p>	 <p>Cooling unit WCU 1KW C 013537</p>	 <p>Trolley T/M 400 037328</p>	 <p>Inter connection cables</p> <table border="1"> <thead> <tr> <th colspan="2">air</th> <th colspan="2">water</th> </tr> </thead> <tbody> <tr> <td>5 m</td> <td>70 mm²</td> <td>047587</td> <td>1.8 m</td> <td>037243</td> </tr> <tr> <td>10 m</td> <td></td> <td>047594</td> <td>5 m</td> <td>70 mm²</td> </tr> <tr> <td>10 m</td> <td></td> <td>047600</td> <td>10 m</td> <td>047624</td> </tr> <tr> <td>15 m</td> <td>95 mm²</td> <td>038349</td> <td>10 m</td> <td>047631</td> </tr> <tr> <td>20 m</td> <td></td> <td>038431</td> <td>15 m</td> <td>95 mm²</td> </tr> <tr> <td></td> <td></td> <td></td> <td>20 m</td> <td>038448</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>038455</td> </tr> </tbody> </table>	air		water		5 m	70 mm ²	047587	1.8 m	037243	10 m		047594	5 m	70 mm ²	10 m		047600	10 m	047624	15 m	95 mm ²	038349	10 m	047631	20 m		038431	15 m	95 mm ²				20 m	038448					038455
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 <p>Remote control digital RC-HD2 062122</p>	 <p>Support RC-HD2 for trolley 037779</p>	 <p>Remote control analog RC-HA2 - 10 m 047679</p>	 <p>SAM robotic control interface 062993</p>	 <p>Digital connection kit RC 063938</p>																																						