

The NEOPULSE 320 C is a digital, three-phase, pulsed, MIG/MAG welding machine. Designed to operate at the highest performance level using the latest technology, it features various synergy curves as well as exceptional arc quality and performance. User friendly and highly practical, its digital interface is designed to allow the welding settings to be quickly and easily adjusted. Equipped with a precise, four-reel, wire-feeding system, this power source provides unparalleled productivity and welding quality on all types of materials.

MULTI-PROCESS WELDING

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

SMART

- **SYNERGY mode:** after selecting the material/gas combination and the wire diameter the NEOPULSE 320 C will automatically work out the optimal welding settings whilst still allowing you to adjust the settings (wire-feed speed, voltage, current and arc length).

PRECISE

- **Calibrate** the welding cables and motor speed to adjust the displayed voltage and refine the energy calculation.
- **Energy consumption,** displays and calculates the energy consumption after welding in accordance with standards EN1011-1, ISO / TR 18491 and QW-409.
- **Portable:** load / save user JOBS and machine settings using a USB key.
- **Traceability:** track / record all welding stages, weld by weld, during industrial manufacturing in accordance with standard EN ISO 3834.

OPTIMISED MIG/MAG SETTINGS

- **6 MIG-MAG welding modes:** Standard Dynamic, Standard Impact, Standard Root, Pulsed, Modularc and Manual.
To learn more about GYS pre-installed user settings, scan the QR code or click [here](#).
- **TACK modes:** SPOT and DELAY.
- **Trigger options:** 2T and 4T.
- **Precise control of the entire welding cycle:** CreepSpeed, Softstart, Hotstart, Upslope, Downslope, Crater Fill and Post-Gas, etc.



GYS synergies

MAXIMUM PRODUCTIVITY

Intended for heavy and demanding industrial applications:

- Four microprocessors increase the communication speed and optimise the machine's efficiency.
- High productivity thanks to its high duty cycle (300 A @ 60%).
- Compatible wire-feed reels: Ø 200 / 300 mm.
- Can be connected to a SAM control interface for automated or robotic applications (optional).
- Robust design to withstand shocks and vibrations.
- Powerful, motorised wire-feed system (100 W) with four active drive rolls.
- Very high arc voltage for easier ignition and exceptional arc dynamics.

EASY TO USE

- New user friendly interface focused on the welders' navigation habits.
- Machine and synergy updates using a USB key.
- Optional cooling unit (P.N. 013537) and trolley (P.N. 037328).
- Stores up to 500 welding programs (can be saved to a USB key).
- Displays the current/voltage during and after the welding process (WPS/PQR).
- Choose which key parameter setting to display on the screen (wire-feed speed, average welding current, etc.).
- Internal lighting system for the wire-feed motor and reel.
- Viewing window on wire-compartment's door for easily wire monitoring.
- Smart ventilation management system to reduce power consumption, dust intake and noise.
- Compatible with Push-Pull torch (24 V / 42 V).

ROBUST AND MOBILE

- Reinforced metal casing and non slip rubber pads.
- IP23-rated casing.
- Separate, optional NEOFEED-4W* dispenser with air- or water-connection cables (up to 20 m).
- Remotely adjustment of the machine's settings using two, optional remote controls (*digital or analogue).

* Digital connector kit required (P.N. 063938)



Supplies without accessories



Three user-interface levels:

- 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> </table>	∅ steel	0.6 - 1.2 mm
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Current range MIG-MAG / MMA / TIG	10 - 320 A		Wire	∅ cored wire	0.9 - 1.6 mm	
	85 V			∅ aluminium	0.8 - 1.2 mm	
No load voltage	MIG-MAG	14.5 - 30 V	Wire reel	∅ CuSi / CuAl	0.8 - 1.2 mm	
	MMA	20.4 - 32.8 V		weight / min. ∅	5 kg - 200 mm	
Voltage on charge	TIG	10.4 - 22.8 V	weight / max. ∅	18 kg - 300 mm		
			Protection rating	IP23		
Max. productivity	%	91 %	Dimensions	680 x 300 x 550 mm		
No-load consumption	MIG-MAG TIG	37 W	Weights	36 kg		
	MMA	157 W				

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 037243</td> </tr> <tr> <td>10 m</td> <td></td> <td>047594</td> <td>5 m 70 mm² 047617</td> </tr> <tr> <td>10 m</td> <td></td> <td>047600</td> <td>10 m 047624</td> </tr> <tr> <td>15 m</td> <td>95 mm²</td> <td>038349</td> <td>10 m 047631</td> </tr> <tr> <td>20 m</td> <td></td> <td>038431</td> <td>15 m 95 mm² 038448</td> </tr> <tr> <td></td> <td></td> <td></td> <td>20 m 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 047617	10 m		047600	10 m 047624	15 m	95 mm ²	038349	10 m 047631	20 m		038431	15 m 95 mm ² 038448				20 m 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>GYS offers a wide range of compatible products for your machine.</p> <p>To learn more about them, scan the QR code:</p> <table border="1"> <tr> <td> <p>Manual welding</p> </td> <td> <p>Automation</p> </td> </tr> </table>		<p>Manual welding</p>	<p>Automation</p>																									
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