

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).

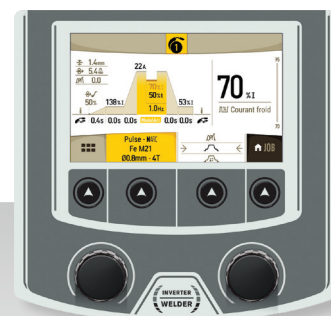
## ROBUST AND MOBILE

- 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<br>10 min/40°C<br>EN 60974-1 | 60 %           | 300 A             | Feed rollers diameter |                   | 37 mm (Type F)     |
|   | 100 %          | 280 A             | Wire                  | ø steel           | 0.6 - 1.2 mm       |
|   |                |                   |                       | ø stainless steel | 0.8 - 1.2 mm       |
| Current range<br>MIG-MAG / MMA / TIG    |                | 10 - 320 A        |                       | ø cored wire      | 0.9 - 1.6 mm       |
| No load voltage                         |                | 85 V              |                       | ø aluminium       | 0.8 - 1.2 mm       |
| Voltage on charge                       | MIG-MAG        | 14.5 - 30 V       |                       | ø CuSi / CuAl     | 0.8 - 1.2 mm       |
|   | MMA            | 20.4 - 32.8 V     |                       | Wire reel         | weight / min. ø    |
|   | TIG            | 10.4 - 22.8 V     | weight / max. ø       |                   | 18 kg - 300 mm     |
| Max. productivity                       | %              | 91 %              | Protection rating     |                   | IP23               |
| No-load consumption                     | MIG-MAG<br>TIG | 37 W              | Dimensions            |                   | 680 x 300 x 550 mm |
|   | MMA            | 157 W             | Weights               |                   | 36 kg              |

## ACCESSORIES & CONSUMABLES

|  <p>Neofeed 4W wire feeder<br/>014527</p>   |  <p>Cooling unit WCU 1KW C<br/>013537</p>     |  <p>Trolley T/M 400<br/>037328</p>                     |  <p>Inter connection cables</p> <table><tr><th colspan="2">air</th><th colspan="2">water</th></tr><tr><td>5 m</td><td>70 mm<sup>2</sup></td><td>047587</td><td>037243</td></tr><tr><td>10 m</td><td></td><td>047594</td><td>047617</td></tr><tr><td>10 m</td><td></td><td>047600</td><td>047624</td></tr><tr><td>15 m</td><td>95 mm<sup>2</sup></td><td>038349</td><td>047631</td></tr><tr><td>20 m</td><td></td><td>038431</td><td>038448</td></tr><tr><td></td><td></td><td></td><td>038455</td></tr></table> | air   |              | water        |        | 5 m    | 70 mm <sup>2</sup> | 047587 | 037243  | 10 m   |  | 047594   | 047617 | 10 m |  | 047600 | 047624 | 15 m | 95 mm <sup>2</sup> | 038349 | 047631 | 20 m |  | 038431 | 038448 |  |  |  | 038455 |
|--|--|---|--|---|--------------|--------------|--------|--------|--------------------|--------|---|--|--|--|--------|------|--|--------|--------|------|--------------------|--------|--------|------|--|--------|--------|--|--|--|--------|
| air  |  | water   |  |   |              |              |        |        |                    |        |   |  |  |  |        |      |  |        |        |      |                    |        |        |      |  |        |        |  |  |  |        |
| 5 m  | 70 mm <sup>2</sup>   | 047587  | 037243   |   |              |              |        |        |                    |        |   |  |  |  |        |      |  |        |        |      |                    |        |        |      |  |        |        |  |  |  |        |
| 10 m   |  | 047594  | 047617   |   |              |              |        |        |                    |        |   |  |  |  |        |      |  |        |        |      |                    |        |        |      |  |        |        |  |  |  |        |
| 10 m   |  | 047600  | 047624   |   |              |              |        |        |                    |        |   |  |  |  |        |      |  |        |        |      |                    |        |        |      |  |        |        |  |  |  |        |
| 15 m   | 95 mm <sup>2</sup>   | 038349  | 047631   |   |              |              |        |        |                    |        |   |  |  |  |        |      |  |        |        |      |                    |        |        |      |  |        |        |  |  |  |        |
| 20 m   |  | 038431  | 038448   |   |              |              |        |        |                    |        |   |  |  |  |        |      |  |        |        |      |                    |        |        |      |  |        |        |  |  |  |        |
|  |  |   | 038455   |   |              |              |        |        |                    |        |   |  |  |  |        |      |  |        |        |      |                    |        |        |      |  |        |        |  |  |  |        |
|  <table><tr><th>Steel / Stainless steel</th><th>Aluminium</th></tr><tr><td>air</td><td>water</td></tr><tr><td>350 A<br/>4 m</td><td>300 A<br/>4 m</td></tr><tr><td>040946</td><td>043275</td></tr><tr><td></td><td>040748</td></tr></table> | Steel / Stainless steel  | Aluminium   | air  | water   | 350 A<br>4 m | 300 A<br>4 m | 040946 | 043275 |                    | 040748 |  <p>Earth cable<br/>600 A - 4 m / 70 mm<sup>2</sup><br/>043831</p> |  <p>Electrode holder<br/>500 A - 4 m / 50 mm<sup>2</sup><br/>043879</p> |  <p>Cooling liquid<br/>5 l - 062511<br/>10 l - 052246</p> |  <p>Filter kit<br/>063143</p> |        |      |  |        |        |      |                    |        |        |      |  |        |        |  |  |  |        |
| Steel / Stainless steel  | Aluminium  |   |  |   |              |              |        |        |                    |        |   |  |  |  |        |      |  |        |        |      |                    |        |        |      |  |        |        |  |  |  |        |
| air  | water  |   |  |   |              |              |        |        |                    |        |   |  |  |  |        |      |  |        |        |      |                    |        |        |      |  |        |        |  |  |  |        |
| 350 A<br>4 m   | 300 A<br>4 m   |   |  |   |              |              |        |        |                    |        |   |  |  |  |        |      |  |        |        |      |                    |        |        |      |  |        |        |  |  |  |        |
| 040946   | 043275   |   |  |   |              |              |        |        |                    |        |   |  |  |  |        |      |  |        |        |      |                    |        |        |      |  |        |        |  |  |  |        |
|  | 040748   |   |  |   |              |              |        |        |                    |        |   |  |  |  |        |      |  |        |        |      |                    |        |        |      |  |        |        |  |  |  |        |
|  <p>Remote control digital RC-HD2<br/>062122</p>  |  <p>Support RC-HD2 for trolley<br/>037779</p> |  <p>Remote control analog RC-HA2 - 10 m<br/>047679</p> |  <p>SAM robotic control interface<br/>062993</p>   |  <p>Digital connection kit RC<br/>063938</p> |              |              |        |        |                    |        |   |  |  |  |        |      |  |        |        |      |                    |        |        |      |  |        |        |  |  |  |        |