

NEOPULSE 400

A unique welding experience



NEOPULSE 400

The NEOPULSE 400 is the latest innovation in the MIG/MAG welding equipment. This modular concept offers exceptional welding performance and a very ergonomic interface.



An innovative digital architecture.

Quality, speed of execution and reliability are essential requirements in the choice of a welding machine.

GYS have engineered these exact requirements for an industrial welding machine and produced concentrated power and technology with the NEOPULSE 400.

The NEOPULSE 400 has a separate wire feeder and is fully digital.

Its performance is driven by FPGA technology and supported by 4 microprocessors. The NEOPULSE 400 regulates precisely and quickly the welding current, provides a high arc voltage and thus generates a superior dynamic arc.

The machine consistently achieves high quality welds and ensures the repeatability of each operation.

Efficiency is reinforced by its 400A duty cycle at 60% and its mode Pulse In Pulse.

Product advantages

- High duty cycle
- Digital technology
- Pulse mode
- Welding precision
- Robust design

Applications



Boiler making



Railway construction



Metal construction

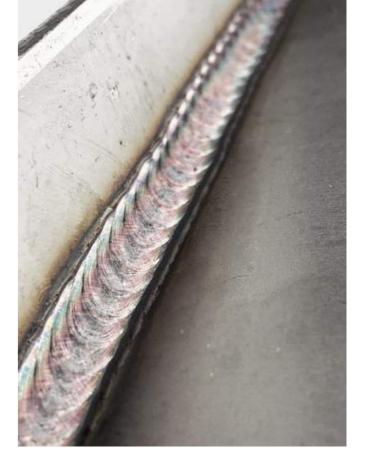
A perfect quality spatter free.

The welding mode Pulse in Pulse ensures a weld aspect with a TIG wire, regardless of the material, the welding position or the welder.

It automatically sets the current and ensures an alternation between hot time and cold time, thus limiting the heat input.

This sequential mode allows the welder to put together sheets of varying thickness, to work in a vertical position or overhead to achieve welds of the most beautiful appearance.







Complex welds made easy.

The NEOPULSE 400 integrates 80 synergies designed by GYS experts. This wide range of material combinations, diameters of wire and gas, determine automatically the optimal welding settings and gives valuable help to the welder. In the case of more specific applications, the manual mode allows for complete freedom in the adjustment of the parameters.



Efficient setting management.

- Up to 100 welding programs recorded on an SD card for increased mobility. Backups can be used on any NEOPULSE 400 station around the world. The operators can store jobs quickly access them to work with their personalised settings.
- The user-friendly control panel allows the welder to browse through the different welding tasks recorded easily.



Optimised MIG/MAG settings

- Welding mode: Standard, Pulse, Pulse In Pulse and Manual.
- Choice of trigger behaviour: 2T, 4T, SPOT and DELAY.
- Precise control of the welding cycle: CreepSpeed, Softstart, Hotstart, Upslope, Downslope, Crater Filler, Postgaz, etc.

Multi-process Welding

- MIG/MAG welding:
- steel wire, stainless steel and aluminium: Ø 0.8 à 1.6 mm
- CuSi and CuAl wire: Ø 0.8 à 1.2 mm
- cored wire : Ø 0.9 à 2.4 mm
- MMA welding:
- Basic coated electrode, rutile and cellulosic (up to Ø 6 mm)

Maximum productivity

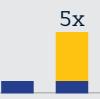
- 4 microprocessors increase the speed of computation and optimize the efficiency of the generator.
- High productivity thanks to its high duty cycle (400 A @ 60%).
- High arc tension which ensure an easy initiation and an exceptional arc dynamic. The weld spatters are kept to a minimum to optimize the completion time.

Robust design

- The power elements inside the machine have a coating of varnish to protect them from iron, dust and humidity.
- Metallic structure strengthened against the shocks.
- Protection class IP23.



With the NEOPULSE, you can speed up your welding operation by up to 30 %.



Weld five times faster compared to TIG welding.



Benefit from a speed calculation and an unequalled reactivity thanks to the implementation of state-of-the-art technology.

NEOFEED 4L, the perfect wire feed.

The ergonomic wire feeder provides the welder with a fast and accurate wire feed.

Progressing in the field with ease, the separate wire feeder NEOFEED 4L makes it easy to configure and control the welding cycle.

- Duty cycle (500 A @ 60%).
- Powerful wire feeder (100 W) with electronic control and 4 driven rollers.
- Current / voltage display during and after the welding (DMOS/QMOS).
- Rollers and reel replacement is quick and without tools.
- LED internal lighting on the wire feeder for a better visibility in the dark area.
- Push-Pull torch compatible (24 V / 42 V).
- Remote reel settings thanks to 2 analog or digital remote controls (optional).
- Set of wheels and skis to facilitate moving on all surfaces (optional).
- Secure suspension thanks to 4 lifting eyes.





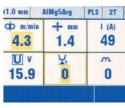
User-friendly XXL interface.

The intuitive control panel is equipped with a clear 5.7"color display with 2 control knobs. The user can access all the information and features of the wire feeder and easily navigate through the various menus and define his own settings.

3 levels of interface allowing the dialog of the user with the machine:



• EASY (simplified model)



• PRO (complete model)



• GRAPH (allow access to all setings of the cycle)

Technical features

Whatever the intended use, the NEOPULSE 400 enable to build the most suitable configuration for your requirements.

	NEOPULSE 400						
Supply voltage 400		400 V +/- 15%					
Delay fuse		32 A					
Dor row wating	60 %	26 kVA					
Power rating	100 %	22.5 kVA					
Duty gyala to 40%C	60 %	400 A					
Duty cycle to 40°C	100 %	360 A					
Current range and walding valtages	MMA	10 A/20.4 V - 400 A/36 V					
Current range and welding voltages	MIG-MAG	10 A/14.5 V - 400 A/34 V					
Vacuum voltage		85 V					
Operating temperature range		-10 +40 °C					
Operating temperature storage		-20 +55 °C					
Protection rating		IP23					
CEM class		A					
Dimensions		700 x 300 x 490 mm					
Weight		36 kg					

		NEOFEED 4L		
Supply voltage		$U_{11} = 48 \text{ V} - 2 \text{ A}$		
Supply voltage		$U_{12} = 24 \text{ V} - 1 \text{ A}$		
Duty cycle to 40°C	60 %	500 A		
Duty cycle to 40 C	100 %	400 A		
Wire speed		1 - 22 m/min		
Moto wire feeder		4 drive rolls		
Drive rolls diameter		37 mm		
	ø Fe, steel inox	0,6 - 1,6 mm		
Filler wires	ø cored wire	0,9 - 2,4 mm		
	ø aluminium	1,0 - 1,6 mm		
Coil of wire	weight / ø min.	5 kg - 200 mm		
Con or whe	weight / ø max.	18 kg - 300 mm		
Protection rating		IP23		
Dimensions		630 x 440 x 290 mm		
Weight		19 kg		

E .	**

	NEOCOOL					
Supply voltage	400 V +/- 15%					
Delay fuse	5 A					
Cooling capacity	1 kW					
Maximal pressure	4 bars					
Capacity	5.5 l					
Protection rating	IP23					
Dimensions	680 x 300 x 230 mm					
Tare weight	17 kg					

A modular conception

A complete accessories range has been developed to ensure the user an optimal welding experience.







NEOFEED 4L



NEOCOOL

 $\begin{array}{c|cccc} 5 \text{ m} & & 047587 \\ \hline 10 \text{ m} & 70 \text{ mm}^2 & 047594 \\ \hline 10 \text{ m} & & 047600 \\ \hline 15 \text{ m} & 95 \text{ mm}^2 & 038349 \\ \hline 20 \text{ m} & & 038431 \\ \end{array}$

1.8 m 70 mm² 037243 5 m 70 mm² 047617 10 m 04762

10 m 15 m 20 m 95 mm² 047631 038448 038455

Lifting support

for wire feeder



Filter kit

Trolley 10 m³
115 x 120 x 51 cm
032736



NEOPULSE 400 032774

Earth clamp

600 A - 4 m - 70 mm² 043831

Rollers

type C

042094

042117*

039780

041752

042148

041776

x2 042162

the Neofeed 4L.

Ø 0.9 / 1.2 x2 042124

 Ø 1.2 / 1.4
 x4
 047693

 Ø 1.6 / 2.4
 x4
 040519

 air
 liquid
 air
 liquid

 450 A
 500 A
 350 A
 500 A

 4 m
 4 m
 3 m
 3 m

 045392
 041004
 040731
 046160

Ø 0.8 / 1.0

Ø 1.0 / 1.2

Ø 1.2 / 1.4

Ø 1.2 / 1.6 Ø 0.8 / 1.0

Ø 1.0 / 1.2

Ø 1.2 / 1.6

Ø 1.6 / 2.4

Electrode holder 600 A - 5 m - 120 mm² 046542



RC-HA2 Analog deported control - 10 m 047679



RC-HD1 Numerical deported control - 10 m 047662



Torch support MIG Lift Pro



Steel / Inox

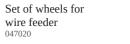
Cored

















Packages "Ready to weld"

Packs	E	and a second											
	NEOPULSE 400	NEOFEED 4L	NEOCOOL 1000 W - 5.5 l	5 m Ø 70 mm² air	1.8 m Ø 70 mm² liquid	10 m Ø 95 mm² liquid	Ø 1/1.2 (x2)	Ø 1/1.2 (x2) Alu	4 m - 600 A 70 mm ²	Trolley 10 m³	Fe / C 450 A	rNi - 4 m 500 A liquid	Alu - 3 m 500 A liquid
A1 036482			-	~		-					✓		-
W1 032453						✓	,	-		,	-	✓	-
W2 032460			~	-		✓	~	✓			-		✓
W3 036727				-	~	-		-				-	

7



GYS expertise

GYS support this product with a team of welding demonstrators that assist with the deployment of the machine within the field of work you need to apply it to.

2 years guarantee

The NEOPULSE 400 and all its accessories have been designed and tested for the professional and industrial environment. When you buy your welding equipment from a GYS representative (reseller or distributor) your 2-year warranty is immediately activated.



Guides and user manuals

For more information on the NEOPULSE welding machine, go to gys-welding.com