

# SUPERIOR TIG 422 AC/DC AQUA + ACC. + TROLLEY



- TIG AC/DC (HF or LIFT), TIG PULSE (PULSE and EASY PULSE) and MMA inverter welding machine, 400A. Dual voltage 230-400V 3ph. With TIG welding accessories, trolley and water cooling system.
- With LCD display for interaction and simplified adjustment of the welding parameters.
- PULSE and EASY PULSE operation. THINSPOT advanced utility for easy, rapid and accurate TIG spot welding of thin sheet metal. MIX AC-DC to heat the workpiece to weld and prepare it for AC welding.
- 10 customisable welding programs.
- MMA welding: continuous or pulse mode (MMA Pulse).
- Resistant to dirt and dust thanks to the ventilation system (dedicated tunnel) that preserves the electronic components, guaranteeing longer duration over time. Solid and strong structure.
- Setup for remote controls.

## TECHNICAL DATA

CODE	<b>816803</b>	MAX NO LOAD VOLTAGE IN DC	<b>79 / 67 V</b>	POWER FACTOR(cosphi) (cosphi)	<b>0,8 / 0,78</b>
THREEPHASE MAINS VOLTAGE	<b>230 / 400 V</b>	MAX NO LOAD VOLTAGE DC(VRD)	<b>12 V</b>	D.USABLE ELECTRODES IN DC	<b>1,6 - 6 mm</b>
MAINS FREQUENCY	<b>50 / 60 Hz</b>	MAX ABSORBED CURRENT	<b>38 / 32 A</b>	PROTECTION DEGREE	<b>IP23</b>
CURRENT RANGE IN DC	<b>2-320 / 2 - 400 A</b>	ABSORBED CURRENT AT 60%	<b>25 / 22 A</b>	DIMENSIONS (LxWxH)	<b>109,5x59,5x120cm</b>
MAX CURRENT DC EN60974-1	<b>300@40%/400@40%A</b>	MAX ABSORBED POWER	<b>12,9 / 17,3 kW</b>	WEIGHT	<b>94,5 kg</b>
DC CURRENT AT 60%	<b>225 / 300 A</b>	ABSORBED POWER AT 60%	<b>7,9 / 11,4 kW</b>		
MAX NO LOAD VOLTAGE IN AC	<b>79 / 67 V</b>	EFFICIENCY	<b>81,5 / 83,5 %</b>		

## ON REQUEST ACCESSORIES

### ELECTRODE HOLDERS WITH CABLE

804124 ELECTRODE HOLDER + CABLE 35MMQ 4M AX50

### REMOTE CONTROLS

802336 RC-20 10 M CONTROL 2POT

804456 FPC-200 10 M FOOT CONTROL

### GAS REGULATORS

804208 QUICK GAS CONNECTOR

### TIG TORCHES - PREMIUM AQUA

743038 ST18A PRO-C 4M AQUA AX50 8P TIG TORCH

743040 ST18A PRO-C 8M AQUA AX50 8P TIG TORCH

743034 ST18A PRO-P 4M AQUA AX50 8P TIG TORCH

743036 ST18A PRO-P 8M AQUA AX50 8P TIG TORCH

## DESCRIPTION

TIG AC/DC (HF or LIFT), TIG PULSE (PULSE and EASY PULSE) and MMA inverter welding machine.

Use with different types of materials such as steel, stainless steel, aluminium, titanium, copper, nickel, magnesium and their alloys.

Designed to ensure excellent results on every thickness even the thinnest, the PULSE mode (also in the EASY PULSE version) reduces material deformation ensuring high arc stability.

Presence of advanced features: MIX AC-DC for preparation of AC welding of workpieces with considerable weights; THINSPOT for spot welding of very thin sheet metal.

The LCD screen facilitates interaction with the product and simplifies adjustment of multiple parameters of the TIG welding curve depending on processing needs.

You can save and retrieve customised programs.

Electrode welding both in continuous and pulsed mode (MMA Pulse) which ensures excellent results with basic electrodes and in position welding.

Designed for reliability over time, it features a dedicated air tunnel cooling system that protects against dust and dirt.

The solid and robust construction ensures durability even in challenging work environments.

Features:

### TIG

- operation in pulse and EASY pulse mode; in 2/ 4 times, Bi Level;
- 10 customisable welding programs;

- adjustment of multiple welding curve parameters: pre-heating electrode, initial/final current, spot time, pre/post gas, start/end current ramp, DC/AC balance, square wave frequency;
- advanced functions: THINSPOT for spot welding of very thin sheet metal; MIX AC-DC to heat the workpiece to weld and prepare it for AC welding
- optimised minimum current start-up (HF/LIFT);
- automatic recognition of cooling unit;
- set up for remote control and cooling unit;
- compatibility with PRO torches.

## MMA

- direct current and pulse (MMA PULSE) operation;
- hot start, arc force settings;
- anti-stick protection;
- VRD device.

## Other features:

- LCD screen for simplified interaction and immediate display and parameter setting;
- reliability over time thanks to cooling system with dedicated air tunnel that protects against dust and dirt;
- ensures the best performance even in the presence of undervoltages (up to -25%) and overvoltages (+ 15%);
- automatic voltage detection of the power supply network (multivoltage);
- compact and robust design for easier transport and less space needed;
- thermostatic protection, overvoltage, undervoltage, internal dirt, overcurrent, phase failure.

Supplied with TIG welding accessories, cooling unit and trolley.

## DOWNLOAD

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CATALOG IMAGE



INSTRUCTION MANUAL



SPARE PARTS LIST



CERTIFICATE