

SPARTUS®



ProTIG
220P AC/DC

TECHNOLOGICALLY ADVANCED TIG AC/DC WELDER WITH PULSE «««

■ The **SPARTUS® ProTIG 220P AC/DC** is a modern TIG AC/DC and MMA AC/DC inverter welder, designed for welders who demand perfect weld quality in aluminium, stainless steel, acid-resistant steel, and special alloys.

Combining mobility – **weighing only 10.5 kg** – with extensive parameter adjustment options, it is the ideal tool for both industrial production and service or assembly work in the field.

TIG WELDING

The **SPARTUS® ProTIG 220P AC/DC** offers a full range of TIG AC and TIG DC welding capabilities, giving the welder a choice between high-frequency (HF) non-contact arc ignition and the Lift method. **The pulsed current welding function** makes this machine indispensable when working with very thin sheets, stainless steel components, and aluminium, ensuring exceptional weld precision and appearance.

The machine is equipped with advanced features to support the TIG welding process, including:

- **AC waveform selection:** three options – square, sinusoidal, and triangular – allow perfect adjustment of arc characteristics to the welded material's properties.
- **Extensive adjustments:** AC balance (10–99%), AC frequency (50–250 Hz), pulse frequency (0.5–999 Hz), as well as pulse width and pulse current, providing full control over the weld pool.
- **Precise arc dynamics control:** adjustable upslope and downslope times, along with initial and final current settings in 4T mode, ensure perfect weld starts and finishes.
- **2T/4T operating modes:** enhance comfort for both short and long welding runs.



Thanks to these capabilities, the SPARTUS® ProTIG 220P AC/DC is an indispensable tool wherever top quality, precision, and parameter adaptability to various working conditions are essential.

MMA WELDING

The SPARTUS® ProTIG 220P AC/DC supports MMA welding with both direct current (DC) and alternating current (AC), significantly expanding its range of applications. The adjustable current range of 5–200 A enables work with a wide variety of coated electrodes, adapting the process to different steel grades and demanding field conditions.

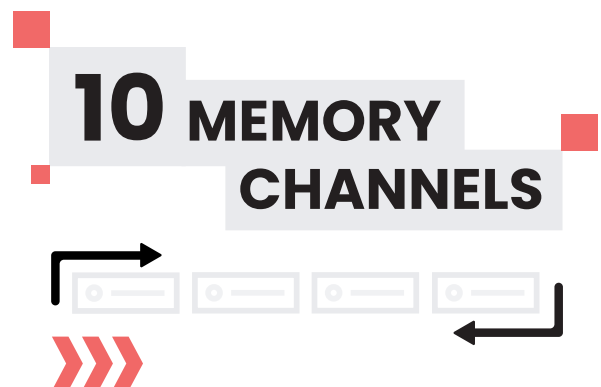
The machine is equipped with functions that enhance arc stability and operator comfort:

- **MMA AC mode** – enables effective welding of certain aluminium grades and alloys in situations where TIG methods are not optimal.
- **Hot Start** – facilitates arc ignition, especially with electrodes that are difficult to strike, while minimising the risk of the electrode sticking to the material.
- **Arc Force** – automatically stabilises the arc during welding, preventing it from going out when the electrode-to-material distance changes.

MEMORY CHANNELS – QUICK SETTINGS RECALL

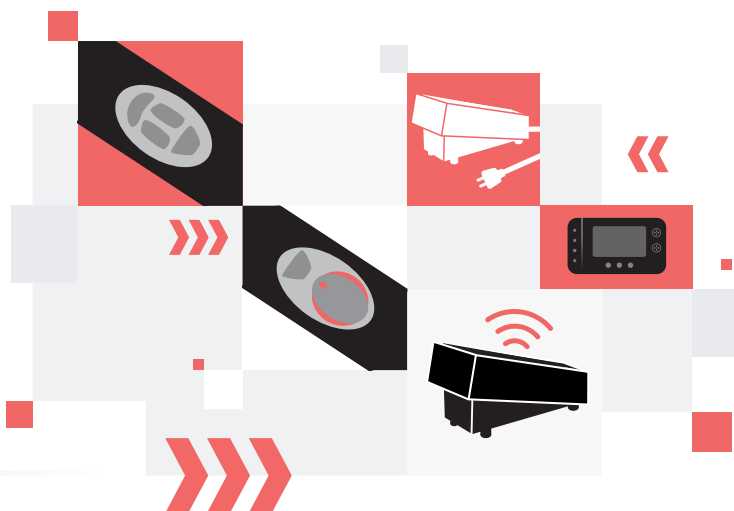
The SPARTUS® ProTIG 220P AC/DC is equipped with 10 memory channels, allowing you to save and recall your preferred welding parameter configurations. This feature greatly reduces setup time, especially for repetitive tasks or when frequently switching between different methods and materials.

With intuitive operation, saving settings is simple, and the welder can be confident that each subsequent weld will be performed with optimal parameters – without the need to re-enter all values.



■ CONTROL

The digital control panel of the SPARTUS® ProTIG 220P AC/DC is designed for quick and intuitive parameter adjustment. Clear displays, easy-to-read icons, and a central joystick allow fast switching between modes and precise adjustment of every function.



THE UNIT SUPPORTS VARIOUS FORMS OF REMOTE CONTROL:

Control options	UP&DOWN torch control	Torch control – potentiometer	Wired foot control	Wireless foot control	Wireless remote control
ProTIG 220P AC/DC	✓	✓	✓ SP-FC	✓ SP-FC2	✓ SP-PILOT



■ EQUIPMENT

We offer the SPARTUS® ProTIG 220P AC/DC both as a standalone power source and in various configurations tailored to the user's needs.

The suggested package includes:

- ProTIG 220P AC/DC
- SPARTUS TIG mini SPP 17 4B X 4m torch
- TIG starter kit with torch parts
- 3 m electrode holder
- 3 m ground cable
- gas hose
- User manual

Thanks to a flexible and innovative customer-oriented approach, SPARTUS® Pro units can also be configured with other torches and expanded with additional accessories, creating a set perfectly suited to the specific nature of the job.

The SPARTUS® ProTIG 220P AC/DC combines mobility, advanced welding functions, and high-quality craftsmanship to meet the expectations of even the most demanding welders. Its versatile TIG AC/DC and MMA AC/DC capabilities, extensive parameter adjustment options, intuitive controls, and robust design make it a reliable tool for production, servicing, and assembly work. It is an investment in equipment that delivers precision, convenience, and long-lasting, trouble-free operation.


ProTIG 220P AC/DC
TECHNICAL PARAMETER

Input	~1× 230V ± 10% 50 / 60 Hz	2T/4T control	2T/4T
TIG welding current	5 - 200A	Arc ignition	HF
TIG duty cycle	40%	MMA welding current	5 - 200A
Gas pre flow	0 - 2s	Arc Force	yes
Gas post flow	0 - 10s	Hot Start	yes
Up slope	0 - 10s	No-load voltage	69V
Down slope	0 - 10s	Current consumption	22A
TIG Pulse	yes	Power factor (cosφ)	0.68
Pulse Amps	5 - 200A	Efficiency η	85%
Pulse Width	5 - 95%	Insulation class	H
Pulse frequency	0.5 - 999Hz	Protection class	IP23
AC frequency	50 - 250Hz	Weight	10.5kg
AC wave forms	square sinusoidal triangular	Dimensions	480 x 140 x 240mm
AC balance	10 - 99%	Control plug	9SPA - SPARTUS®



« Video presentation

