

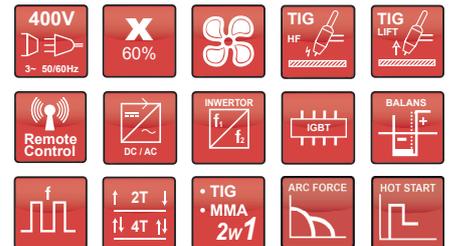
SPARTUS® ProTIG 320PW AC/DC

MODERN, STRONG AND FOOLPROOF
TIG AC/DC WITH A COOLER



PRELIMINARY INFORMATION

SPARTUS® ProTIG 320P AC/DC is a modern, digitally controlled inverter welder, constructed on the basis of IGBTs. Allows welding with TIG AC/DC and MMA AC/DC welding methods up to 320 amps. The device has a high duty cycle (60%) and is powered with three-phase 400V source power.



DEVICE DESCRIPTION

SPARTUS® ProTIG 320P AC/DC. It is a device designed and manufactured for heavy industrial conditions. It allows welding of steel, stainless steel, acid-resistant steel, titanium and other weldable alloys in a wide range of material thicknesses. The digital function panel enables precise control of all the most important welding parameters for TIG AC / DC methods (balance, current frequency, pulse) and MMA AC / DC methods (Hot Start, Arc Force). The high reliability of the device and resistance to overloads have been achieved thanks to the use of high-class components and intelligent source protection systems. The dedicated and integrated liquid cooler unit provides to efficient cooling of the welding torch during welding with high currents. In addition the liquid cooler unit and welding source are located on a dedicated cart. Cart has a special platform to gas bottle. It is possible to purchase the welding source without cooler unit and cart.



EXAMPLES OF USE

- production,
- industry,
- constructions.

Videopresentation of products

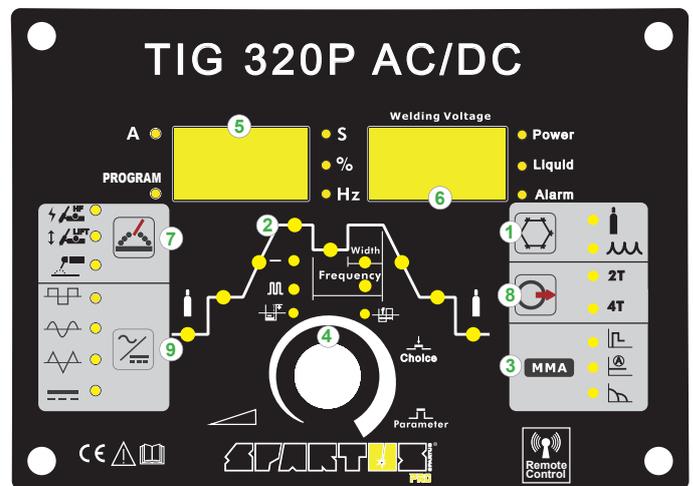


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● TECHNICAL PARAMETERS

| | |
|--------------------------|--------------------------------|
| Input | ~3× 400V ± 10% 50 / 60 Hz |
| Welding Current TIG [A] | 10 – 320 |
| Duty cycle [%] | 60 |
| TIG PARAMETERS | |
| Start Amps, End Amps | ✓ |
| Gas pre flow [s] | 0,1 – 2 |
| Up slope [s] | 0 – 10 |
| Down slope [s] | 0 – 10 |
| Gas post flow [s] | 0 – 10 |
| TIG PULSE mode | ✓ |
| Pulse Amps [A] | 10 – 320 |
| Pulse Width [%] | 5 – 95 |
| Pulse frequency [Hz] | 0,5 – 999 |
| AC frequency [Hz] | 50 – 250 |
| AC Wave Forms | Square, Sinusoidal, Triangular |
| AC balance [%] | 10 – 99 |
| 2T/4T Control | ✓ |
| Arc ignition | LIFT / HF |
| Output remote control | ✓ |
| MMA PARAMETERS | |
| MMA welding mode [AC/DC] | ✓ |
| Welding current MMA [A] | 10 – 320 |
| Hot Start range [%] | 0 – 100 |
| Arc Force range [%] | 0 – 100 |
| No-load voltage [V] | 63 |
| OTHER | |
| Current consumpiton [A] | TIG 19 / MMA 27 |
| Power factor (cosφ) | 0,75 |
| Efficiency η [%] | 85 |
| Insulation class | H |
| Protection class | IP23 |
| Weight [kg] | 74,5 |
| Dimensions [mm] | 1060 × 446 × 1100 |

● FUNCTION PANEL



1. Button for selecting the method of cooling the TIG gas / liquid welding torch
2. Graph of the course of the TIG process
3. MMA welding parameters
4. Welding parameter adjustment knob
5. Display of welding parameters
6. Welding voltage display
7. Welding method selection button: TIG HF / TIG LIFT / MMA
8. TIG 2T / 4T operating mode selection button
9. Welding mode selection button



ADDITIONAL OPTIONS

The device has the ability to fully adjust welding parameters using a remote control or welding current control using a wired / wireless foot control.

STANDARD EQUIPMENT:

- cooler
- driving set
- work clamp 3m
- gas hose
- user's manual



EQUIPMENT OF THE PACKAGE:

| mini 20HD [4m] | 18 [4m] | mini 20HD [8m] | 18 [8m] |
|---|--------------------------------------|---|--------------------------------------|
| TIG torch SPARTUS® mini SPP 20HD 4B X 4m | TIG torch SPARTUS® SPP 18 4B X 8m | TIG torch SPARTUS® mini SPP 20HD 4B X 8m | TIG torch SPARTUS® SPP 18 4B X 8m |
| TIG toolbox (consumable kit) | | | |
| driving set | | | |
| cooler | | | |
| electrode holder 3m | | | |
| work clamp 3m | | work clamp 5m | |
| gas hose | | | |
| user's manual | | | |

torch mini SPP 20HD
current-carrying capacity:
300A DC / 220A AC

torch SPP 18
current-carrying capacity:
350A DC / 250A AC



The torches are available in the standard version with a ground cable and gas tube, or in one of the many extended packages. They include **the top class original Polish SPARTUS® ProTIG torch** with 4B (UP & DOWN) fast replacement microswitch. The packages are available with **a torch (4/8m) on a standard handle** or a light mini handle. A small toolbox of service parts enables fast replacement of used and worn parts. The torches contain a **flexible packet of cables** in cotton wrapping with 1m of leather for the handle.



**Fast replacement microswitch
SPARTUS® Pro 4B
with UP & DOWN remote control**



standard handle SPARTUS® Pro



mini handle SPARTUS® Pro