

# 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

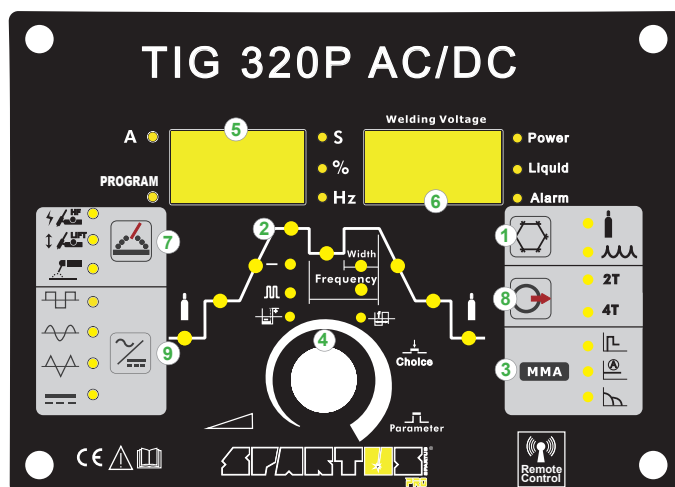


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## ● TECHNICAL PARAMETERS

Input	~3× 400V ± 10% 50 / 60 Hz
Welding Current TIG [A]	10 – 320
Duty cycle [%]	60
<b>TIG PARAMETERS</b>	
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	✓
<b>MMA PARAMETERS</b>	
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
<b>OTHER</b>	
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

