

# SPARTUS® ProMIG 500W SYNERGY

MULTIPROCESS WELDER DESIGNED  
FOR INDUSTRY



## PRELIMINARY INFORMATION

**SPARTUS® ProMIG 500W Synergy** is a professional industrial semiautomatic MIG welder with separate wire feeder. The device is made by using modern solutions: inverter technology, IGBTs and PWM technology. It allows to weld in methods such as MIG/MAG welding, FCAW welding, TIG welding and MMA welding. The maximum welding current is 500A with high duty cycle (60%). Device is powered from three phase 400V source power.



## DEVICE DESCRIPTION

The device has built-in 23 synergic programs for MIG/MAG welding, it allows to weld materials such as steel, stainless steel and aluminium. Just choose the right program and the value of welding amps that you need. Other parameters will be automatically given by the device. Additionally the operator has the possibility of manual correction of chosen program. In addition you can choose the manual mode and set all welding parameters according to the technological requirements. **SPARTUS® ProMIG 500W Synergy** has a wide range of functions that support the process of MIG/MAG welding such as: Wave Control, Burn back, Slow feed, 2T / 4T. Separated 4-roll gear wire feeder is equipped with a function panel which allows to fully adjust MIG parameters in synergic mode and manual mode. Using dedicated wire feeder with fully adjustable function panel increases the range of the device and improves the quality and ergonomics of use in harsh industrial environments. Device is compatible with Spool Gun. Also this wire feeder is equipped with handy grip and wheels.



## EXAMPLES OF USE

- heavy industry,
- shipbuilding,
- construction,
- production.

Videopresentation of products

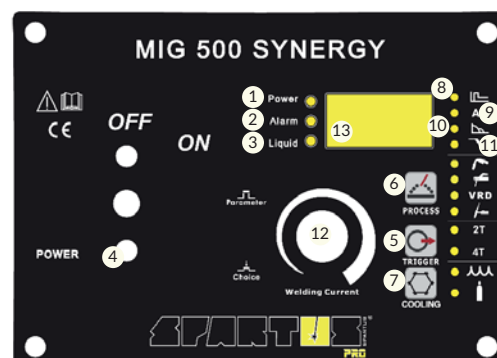


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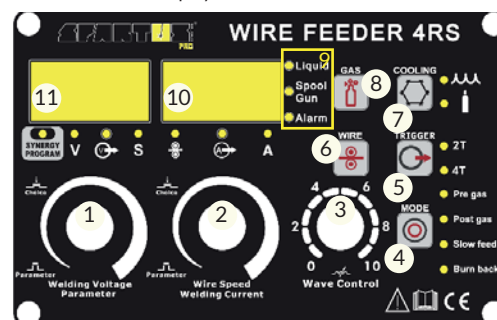
## ● TECHNICAL PARAMETERS

Input	~3× 400V ± 10% 50 / 60 Hz
Welding current MIG [A]	40 – 500
Duty cycle [%]	60
<b>MIG PARAMETERS</b>	
Output working voltage [V]	10 – 50
Wire feeding speed [m/min]	1,5 – 24
Wire feeder	separated, 4-roll gear
Welding wire spool [kg]/[mm]	≤ 15 / Ø200/300
Wire diameter Ø [mm]	0.8 / 1.0 / 1.2 / 1.6 / 2.0
Synergy	✓
Inductance control	Wave Control
Slow Feed	✓
Burn back	✓
Spool Gun	✓
2T/4T Control	✓
Pre-gaz	✓
Post-gaz	✓
<b>TIG PARAMETERS</b>	
TIG DC welding	✓
Welding current TIG [A]	10 – 500
Down slope [s]	0 – 10
<b>MMA PARAMETERS</b>	
MMA welding mode	✓
Welding current MMA [A]	10 – 500
Arc Force	✓
Hot Start	✓
VRD	✓
No-load voltage [V]	14,2
<b>OTHER</b>	
Current consumption [A]	45
Power factor (cosφ)	0,75
Insulation class	H
Protection class	IP23
Weight [kg]	101,5
Dimensions [mm]	1100 × 500 × 1460

## ● FUNCTION PANEL



1. Power indicator
2. Warning indicator overheating
3. Warning indicator - radiator
4. ON / OFF switch
5. Selecting the 2T / 4T operating mode
6. Selection of welding mode
7. Choosing the cooling method
8. Hot Start function
9. Welding current
10. Arc Force function
11. Time of current dropping
12. Double-function knob: choice and adjustment of parameters
13. Parameter display



1. Double-function knob:
  - selection of synergic program or manual mode
  - welding voltage regulation
2. Welding adjustment knob:
  - MIG / MAG (manual): wire feed speed
  - MIG / MAG (synergy): welding current
3. Wave Control knob
4. Button for selecting parameters
5. Selecting the 2T / 4T operating mode
6. Button for inserting the welding wire into the MIG Gun
7. Choosing the cooling method
8. Gas test
9. Warning indicators
10. Multifunctional parameter display
11. Multifunctional parameter display



## WIRE FEEDER

Professional four-roll wire feeder, which allows to work with a long welding handle regardless the type of wire used. The device is compatible with standard spools with welding wire D200 and D weighing up to 15kg.



## ● STANDARD EQUIPMENT:

- separated wire feeder 4R
- cooler
- driving set
- ground clamp 3m
- user's manual



## ● EQUIPMENT OF THE PACKAGE: 3, 4 or 5m

- MIG torch SPARTUS® SPP 501
- separated wire feeder 4R
- cooler
- driving set
- connection cable set 5m
- electrode holder 3m
- ground clamp 3m
- user's manual

Included in the package price is a choice of SPARTUS® MIG torch of any length: 3, 4 or 5 m.



## ORIGINAL, POLISH SPARTUS® TORCH

... see more [WWW.SPARTUS.INFO](http://WWW.SPARTUS.INFO)



SPARTUS® MIG

SPARTUS® TIG