

## MasterMIG 200PCF SYNERGY

Innovative, portable, multi-process, synergistic MIG

### PRELIMINARY INFORMATION

**SPARTUS MasterMIG 200PFC SYNERGY** is a professional, portable, multi-process welding semi-automatic device. It enables MIG/MAG, TIG and MMA welding with maximum welding current of 200A. The unit is powered from a single-phase network 230V.

### DESCRIPTION

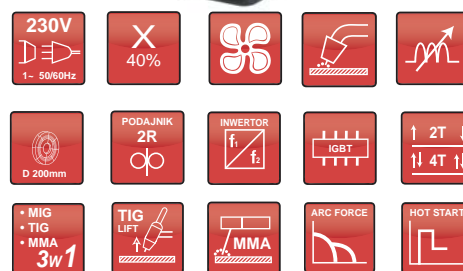
The device was produced with using of modern solutions such as inverter technology, IGBT power transistors, MCU controller, PWM technology, PFC filter. All of our technology solutions provide stable output performance under a variety of conditions, which has a direct effect on outstanding arc characteristics and welded joint quality.

The device has a number of functions that support MIG / MAG welding processes:

- Synergistic MIG/MAG welding mode: 16 dedicated programmes.
- Wave Control - precise arc dynamics adjustment Wave control ensures full control over the welding arc: it allows to reduce the amount of welding splashes and controls the width and depth of fusion.
- Burn Back - precise adjustment of welding wire burning speed allows limit a risk of sticking the welding wire to the contact tip.
- Slow Feed - so called gentle start-up of the wire feeder, recommended especially during welding with high amperage and high speed s of wire feed. Smooth start of wire feed eliminates the risk of welding defects at the beginning of the weld.
- 2T / 4T - Choice of one of two operating modes.
- Spool Gun - possibility of welding with type Spool Gun welding holder.

The MasterMIG 200 PFC Synergy also has a number of features that support TIG welding processes (2T/4T mode, current falling speed adjustment, post-gas) and MMA (Hot Start for easier electrode ignition, Arc Force for easier welding in forced positions, VRD lower no-load voltage).

Compact size, special design and high protection of the device housing provide increased resistance to humidity, salinity and corrosion, making it ideal for shipbuilding - minor repairs and site overhaul. Thanks to its excellent parameters, it can also be used for light manufacturing and service work in other industries.



### EXAMPLES OF USE

- workshop works,
- site repairs,
- automotive - car body repairs,
- silencer welding,
- manufacturing,
- light industry,
- shipbuilding - repair works.

## TECHNICAL PARAMETERS

Input	~1× 230V ± 10% 50 / 60 Hz
Welding current MIG [A]	25 – 200
Duty cycle MIG [%]	40
<b>PARAMETRY MIG</b>	
Output working voltage MIG [V]	15,3 - 24
Wire feeding speed [m/min]	2,5 – 16,5
Wire feeder	built-in, 2-roll gear
Welding wire spool [mm]	≤ 5 / Ø 200
Wire diameter Ø [mm]	0.6 / 0.8 / 1.0
Synergic	✓
Synergic programs	16 dedicated
Inductance control	Wave Control
Brazing (CuSi)	✓
Slow feed	✓
Burnback	✓
2T/4T Control	✓
<b>TIG PARAMETERS</b>	
TIG DC welding	✓
Welding current TIG [A]	10 – 200
Duty cycle TIG [%]	40
Down slope [s]	0 – 10
Post-gas	✓
Arc ignition	LIFT
<b>MMA PARAMETERS</b>	
MMA welding mode	✓
Welding current MMA [A]	10 – 200
Duty cycle MMA [%]	40
ARC FORCE	✓
HOT START	✓
No-load voltage [V]	14
<b>OTHERS</b>	
Filtr PFC	✓
Max. current consumpition [A]	MIG 28 / MMA 32 / TIG 22
Power factor (cosφ)	0,99
Efficiency η [%]	85
Insulation class	H
Protection class	IP23
Weight [kg]	17
Dimensions [mm]	530 × 215 × 410
Network security (fuse) [A]	25

## FUNCTION PANEL

Functional panel is equipped with a 480x320px colour LCD with an intuitive user interface. It is possible to select one of several language versions of the control software. By default, Polish language version of the interface is set.



- A. Screen selection - menu
- B. Submit of parameters
- C. Selection / parameter knob adjustment (PL)
- D. Selection / parameter knob adjustment (PP)
- E. Colorful 480x320px LCD display

# SPARTUS MasterMIG 200PCF SYNERGY

## STANDARD EQUIPMENT

- 3 meter work clamp
- Gas hose with clamps
- User's manual



## WIRE FEEDER



- Standard equipped with feed roll 0.8 - 1.0 mm

## PACKAGE EQUIPMENT

- 3 meter electrode holder
- 3 meter work clamp
- Gas hose with clamps
- MIG gun SPARTUS Master 150 3m
- User's manual

