

SPARTUS® ProMIG 500W Dual Pulse



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Product code:

ProMIG500WDual- PulseSynergy

Standard equipped: • **Device SPARTUS® ProMIG 500W Dual Pulse Synergy** • Separated wire feeder 4R, • Cooler • Driving set • 3m mass cable with screw clamp • User's manual

SPARTUS® ProMIG 500W Dual Pulse Synergy



Product code:

ProMIG500WDualPulseSynergy_pak_501

Package equipped: • **device SPARTUS® ProMIG 500W Dual Pulse Synergy** • Separated wire feeder 4R • Cooler • Driving set • 5m connection cable set • **MIG gun SPARTUS® SPP 501LCD** • 3m electrode holder • **3m mass cable with screw clamp** • User's manual

Product description

INDUSTRIAL MIG WITH DUAL PULSE

SPARTUS® ProMIG 500W Dual Pulse is a professional, industrial welding semi-automatic with a separate wire feeder. The factory is equipped with an integrated liquid cooler and a 4-wheeled platform, creating a solid Tower construction.

The device allows welding using MIG/MAG, TIG and MMA methods with a maximum current of 500A for all three methods. It works with a high rated 60% duty cycle and 100% duty cycle has been reached from 400A. It is powered from a 400V three-phase network.

Separated tray is equipped with a function panel with the possibility of adjusting all MIG/MAG welding parameters in manual and synergic mode. The use of a separate feeder with a **full function panel** increases the range of the device and has a positive effect on the quality and ergonomics of working in difficult industrial conditions. Additionally, the feeder is compatible with Spool Gun welding guns. The feeder is equipped with road wheels and a handy carrying handle.

SPARTUS® ProMIG 500W Dual Pulse has a number of functions supporting the MIG/MAG welding process, including:

- **1P (Pulse)** – MIG/MAG welding with pulsation, which significantly facilitates obtaining a spray arc.
- **2P (Dual Pulse)** – welding with dual pulse – MIG/MAG welding in TIG quality.
- welding in two work modes 2T/4T.
- spot welding.

The MIG/MAG function panel is located on a separate wire feeder, significantly increasing the range of the device and ergonomics during use. It enables adjustment of all key parameters for the MIG/MAG method, including double pulsation parameters.

Device is equipped with a function panel for precise control of welding parameters in the TIG method: welding current, 2T/4T operating mode, time of current dropping. In the MMA method, the function panel enables precise adjustment of welding current intensity, Hot Start values (easier electrode ignition), Arc Force arc dynamics (easier welding in forced positions), the ability to enable or disable the VRD function.

The SPARTUS® ProMIG 500W Dual Pulse semi-automatic welding machine is ready for use in harsh industrial environments. It has been designed and constructed for applications that require excellent quality welded joint while maintaining high welding performance.

Examples of applications: heavy industry, shipbuilding, welding of steel structures, production, high-quality and high-performance aluminum welding.

Technical parameters

Input	~3× 400V ± 10% 50 / 60 Hz
Welding current MIG [A]	15 - 500
Duty cycle MIG [%]	60[%] 500[A], 100[%] 400[A]
Output working voltage [V]	14,8 - 39
Wire feeding speed [m/min]	1,5 - 24
Wire feeder	separated, 4 - roll gear
Welding wire spool [kg]/[mm]	≤ 15 / 200/300
Wire diameter Ø [mm]	0.8, 1.0, 1.2, 1.6
Additional features	pulse, 2T/4T control , Arc Force, Hot Start, VRD, Burn Back, inductance control, synergy, SPOT, synergistic program, Slow feed, MMA welding, Pre-gas, Post-gas
1P - with pulse	23 programs
2P - with dual pulse	23 programs
SYNERGY - without pulse	20 programs
dPC (pulse current delta)	30 - 70[%]
FdP (2P frequency)	0,5 - 3,0[Hz]
dut (double pulsation width)	10 - 90[%]
bAL (arc length of the current)	-10 - +10
SCP (initial current)	10 - 200[%]
SAL (initial current arc length)	- 10 - +10
ECP (final current)	10 - 200[%]
EAL (final current arc length)	- 10 - +10
Welding current TIG [A]	10 -500
Contactless pilot arc ignition	Lift
Down slope [s]	0 - 10
Welding current MMA [A]	10 - 500
Current consumption [A]	MIG 45 / MMA 47 / TIG 37
Power factor (cosφ)	0,70
Efficiency η [%]	85
Insulation class	H
Protection class	IP23
Weight [kg]	102
Dimensions [mm]	1100 x 500 x 1500

PRODUCT CATEGORIES: [WELDING MACHINES](#), [MIG](#)

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