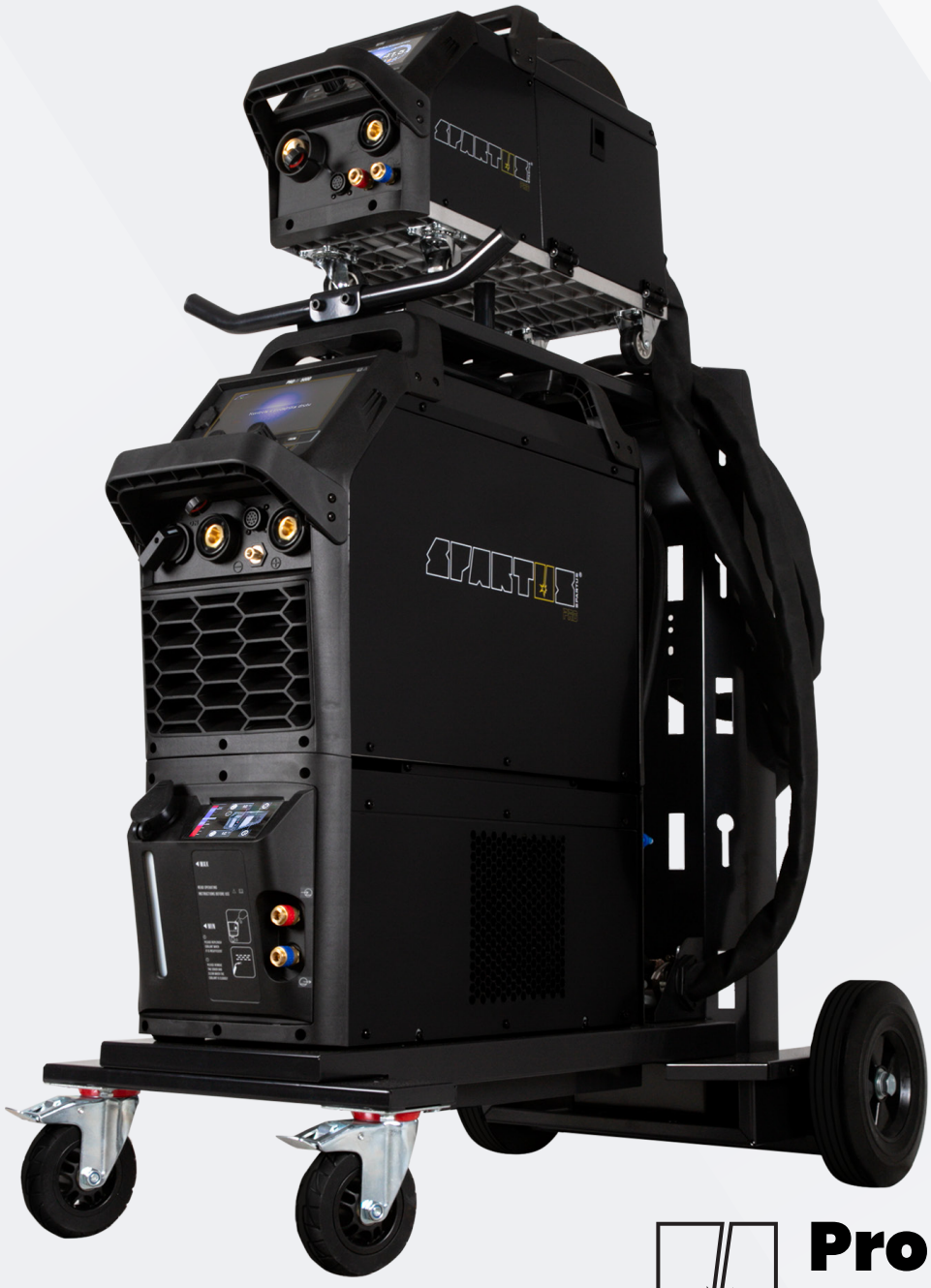
SPARTUS®



ProMIG
5000

UNCOMPROMISING PERFORMANCE IN INDUSTRIAL WELDING

SPARTUS® ProMIG 5000 is a technologically advanced inverter welding power source designed for the most demanding industrial applications. The device has been engineered for continuous operation in production environments, where reliability, repeatability, and full control over the welding process are essential. With **a 100% duty cycle** at **a maximum current of 500A**, the ProMIG 5000 ensures a stable arc and high weld quality even under prolonged load.

MIG WELDING
– INTELLIGENT SYNERGY
AND FULL PROCESS CONTROL

SPARTUS® ProMIG 5000 is an advanced MIG/MAG power source featuring both **manual** and **synergic modes based on pre-defined programs**. In Synergy mode, the device automatically selects optimal parameters (including material thickness and wire feed speed), while still allowing for manual adjustment.

A wide range of settings includes **pre-flow/post-flow**, **burn back**, **slow feed**, as well as arc dynamics parameters (**initial/final current, upslope/downslope times**), enabling precise process control and high weld repeatability.

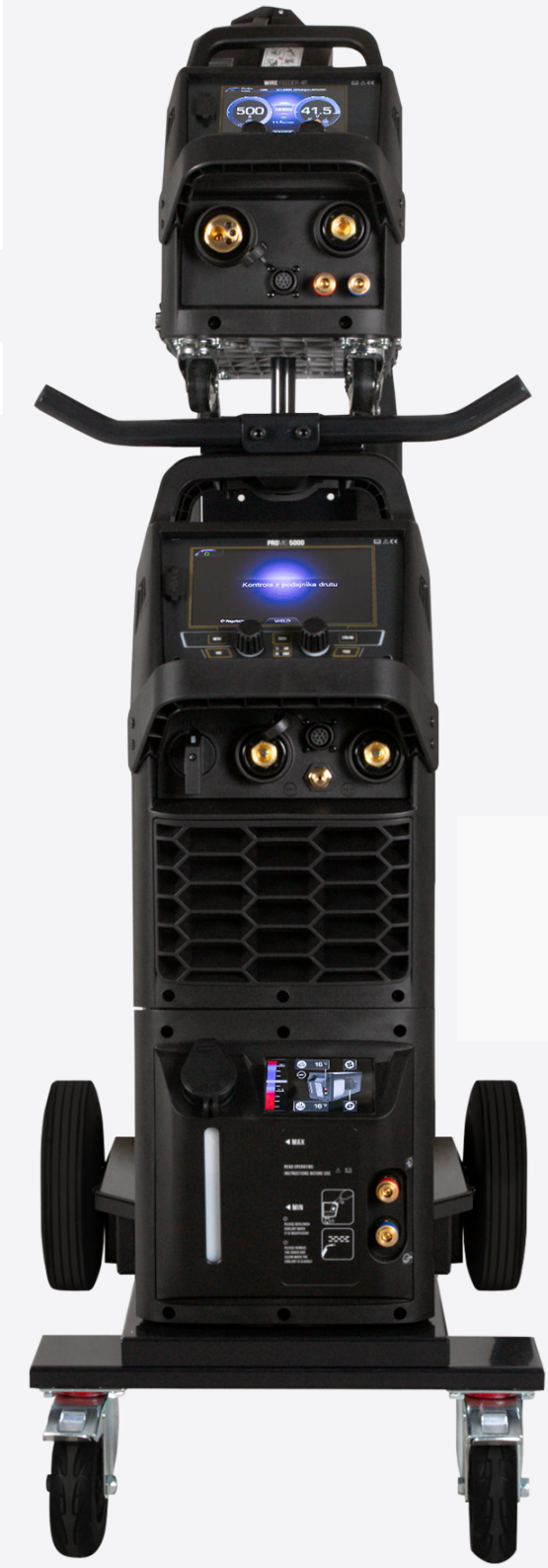
Support for **2T, 4T,** and **4T+** modes, along with the **SPOT function**, enhances ergonomics and work efficiency. The device enables welding of structural steel, stainless steel, aluminum, and CuSi3, with the option to select appropriate synergic programs, wire types, and shielding gases (including Ar/CO^2 mixtures).

SPOOL D300

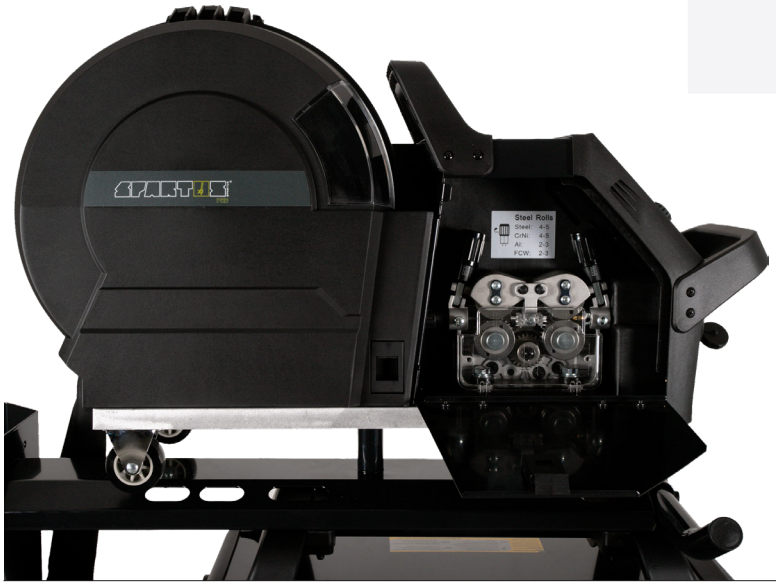
FEEDER 4R

AMPERAGE 500A

POWER SUPPLY 400V



A precise four-roll wire feeder ensures stable and smooth wire feeding even under heavy loads and with long torch leads. The wide range of supported wire diameters and the ability to use large wire spools make the unit ideal for both serial production and heavy steel structure fabrication. An additional advantage is the ability to connect a Spool Gun, significantly expanding application potential—especially for aluminum welding and in conditions requiring maximum wire feed stability.



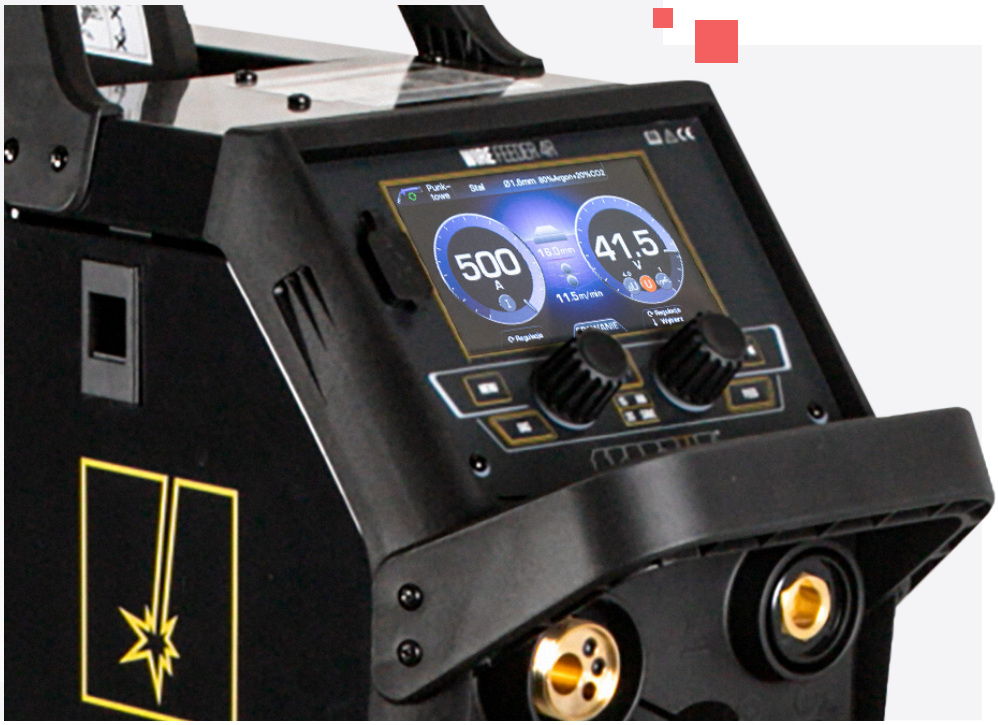
SYNERGIC PROGRAMS

MATERIAL	PROCESS	SHIELDING GAS	WIRE DIAMETER
CARBON STEEL	MIG DC	Co_2	0.8 - 1.6mm
CARBON STEEL	MIG DC	80%Ar+20%Co_2 mixed gas	0.8 - 1.6mm
FLUX CORE	MIG DC	–	1.0 - 1.6mm
STAINLESS STEEL	MIG DC	98%Ar+2%Co_2 mixed gas	0.8 - 1.6mm
AlMg	MIG DC	100%Ar	1.0 - 1.6mm
CuSi	MIG DC	100%Ar	1.0mm

MMA I TIG LIFT WELDING

SPARTUS® ProMIG 5000 enables efficient MMA welding, ensuring a stable arc across a wide current range. Functions such as **Arc Force, Hot Start** and **VRD** support easy arc ignition and maintain arc stability even in demanding working conditions.

The unit also offers TIG DC Lift welding, allowing for precise welds with control over parameters such as downslope time and gas post-flow, without the need for HF ignition.



MODERN CONTROL PANEL AND INTUITIVE OPERATION

SPARTUS® ProMIG 5000 is equipped with a modern control panel featuring a clear touchscreen, providing quick access to all key device functions. The intuitive interface and ergonomic rotary knobs allow for precise parameter adjustment and smooth menu navigation, even in demanding production environments.

The integrated control system enables not only configuration of welding parameters, but also quick selection of the operating mode, material type, wire diameter, and shielding gas.

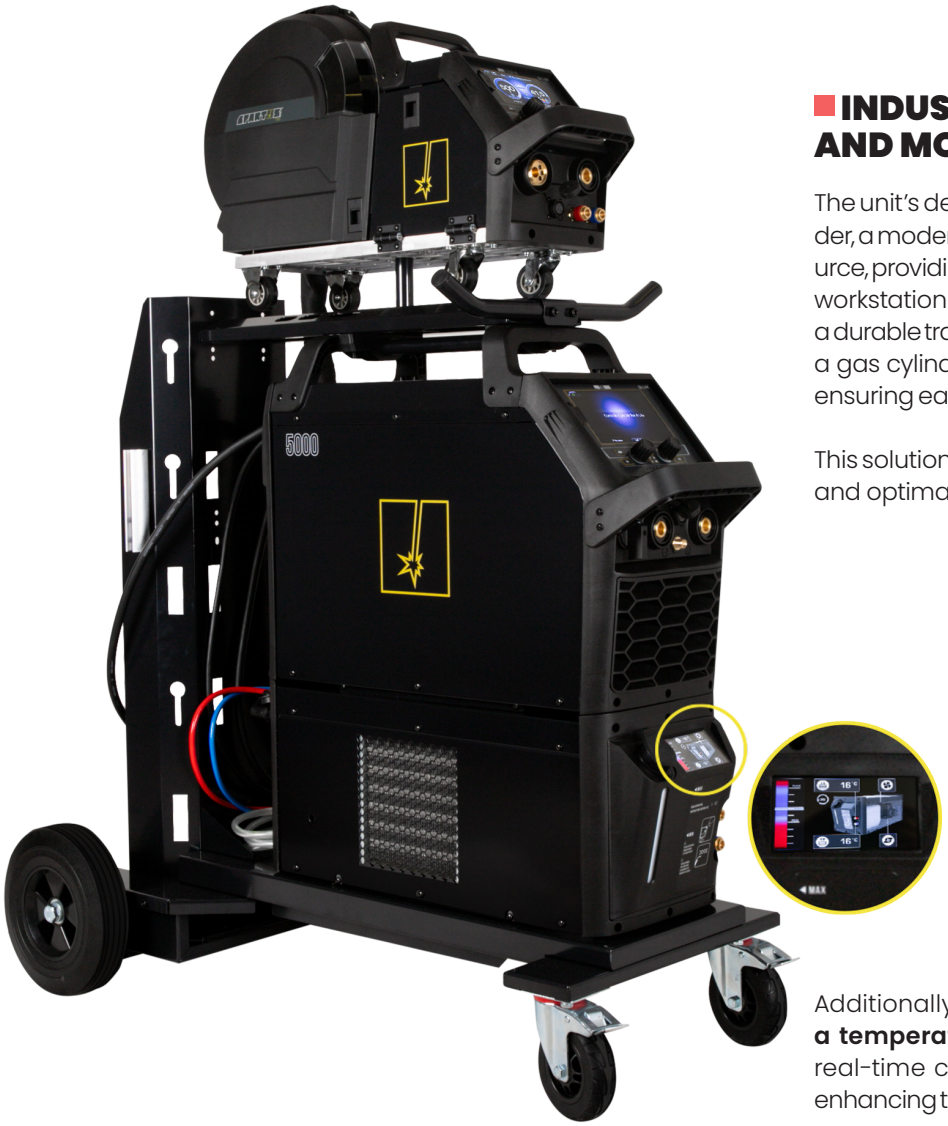
MEMORY CHANNELS
– QUICK RECALL OF SETTINGS

SPARTUS® ProMIG 5000 is equipped with an advanced parameter memory system that significantly improves workflow in production environments. The device allows saving and quick recall of up to **100 JOB programs**, enabling the operator to instantly switch between different welding configurations without the need to set parameters from scratch each time. This feature is particularly useful when working with various materials, thicknesses, and repetitive tasks.

100 MEMORY CHANNELS

ADVANCED COOLING SYSTEM
– ADAPTED TO REAL WORKING CONDITIONS

SPARTUS® ProMIG 5000 is equipped with an external liquid cooling unit, significantly increasing performance during high-load operation. An important feature is the ability to switch the cooling system on or off, allowing the configuration to be adjusted to current needs. At lower currents, the operator can use lighter gas-cooled torches without activating the liquid cooling system, while at high parameters the cooling system ensures stability and protects components.



INDUSTRIAL DESIGN AND MOBILE WORKSTATION

The unit's design is based on a separate wire feeder, a modern cooling unit, and a robust power source, providing flexibility in configuring the welding workstation. The entire system is integrated into a durable transport trolley equipped with space for a gas cylinder, facilitating work organization and ensuring ease of use in production environments.

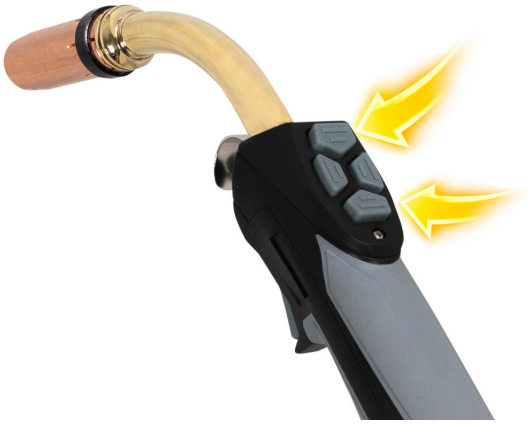
This solution allows for easy movement of the unit and optimal use of workspace.

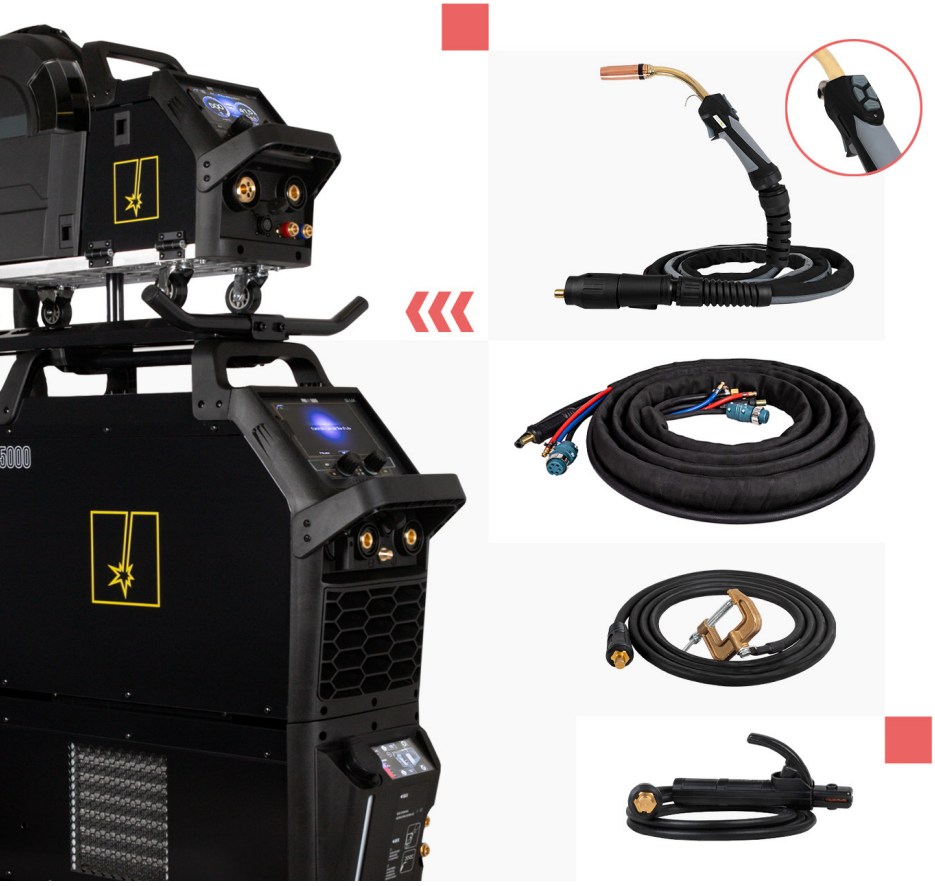
Additionally, the cooling unit is equipped with **a temperature monitoring display**, enabling real-time control of operating conditions and enhancing the safety of the entire welding process.

MIG 501 GUN WITH ADVANCED HANDLE CONTROL

SPARTUS® ProMIG 5000 is available in the **TOWER version** as a package with **a standard SP 501 4 m MIG gun** and **a specialized MIG gun with an integrated control system in the handle**, which represents a significant advantage over standard solutions available on the market. Unlike conventional MIG guns, this solution enables direct control of voltage and welding current from the handle level, without the need to interact with the main control panel of the device. This significantly improves ergonomics and allows the operator to dynamically adjust parameters during welding, which is particularly important when working on large structures, in hard-to-reach areas, and under changing technological conditions. The ability to continuously adjust settings translates into better arc control, process stability, and higher weld quality.

The use of the MIG 501 gun with handle control is an industrial-grade solution designed for users who expect maximum precision, performance, and comfort during continuous operation.





EQUIPMENT

SPARTUS® ProMIG 5000 is available both as a standalone power source with a cooling unit and wire feeder mounted on a trolley, as well as in various configurations tailored to the user's needs.

Suggested package includes:

- ProMIG 5000
- 2 x wire guide roller 1.0 – 1.2V fi37
- seperate 4-roll wire feeder
- cooling unit
- transport trolley
- MaxCoolant – coolant for the cooling unit
- interconnection cable 5m
- MIG 501 gun with UP&DOWN control in the handle, 4m
- electrode holder 3m
- ground cable with clamp 3m
- user manual

Thanks to a flexible and innovative approach, SPARTUS Pro devices can also be configured with different torches and expanded with additional accessories, creating a set perfectly tailored to specific applications.

PROMIG 5000
TECHNICAL SPECIFICATIONS

Input voltage	~3× 400V ± 10% 50 / 60 Hz
MIG welding current	30 - 500A
MIG duty cycle	100%
Wire feed speed	1.5 – 22m/min
Wire feeder type	built-in, 4-roll
Wire spool	≤ 15kg / ⌀200/300mm
Wire diameter	0.8, 1.0, 1.2, 1.6mm
Synergy	yes
Operation modes	2T / 4T / 4T+
Additional MIG functions	Burn Back, brazing (CuSi3), pre-gas, post-gas, synergic programs, manual parameter correction, inductance control, spool gun, Slow Feed, gas test, wire test
TIG Lift	tak

TIG welding current	10 - 500A
MMA welding current	10 - 500A
Arc Force	yes
Hot Start	yes
VRD	yes
Input current	40A
Power factor (cosφ)	0.76
Efficiency η	90%
Insulation class	H
Protection class	IP23S
Weight	100kg
Dimensions	1114 x 585 x 1140mm

SPARTUS® ProMIG 5000 is a machine designed for continuous operation in high-load environments. A high current range of up to 500A, 100% duty cycle, parameter stability, and resistance to intensive use make this model ideal for production facilities, steel structures, and wherever performance and reliability are essential.