



**WELD SMARTER, WELD STRONGER – PATON  
5TH GENERATION**

**2025**



# PATON WELDING MACHINES HAVE BEEN UPGRADED!

**IN THE FOLLOWING CATEGORIES:**

- MMA welding machines
- MIG/MAG welding machines
- TIG welding machines
- Air-plasma cutting machines
- Multi-mode welding inverters
- Wire Feeders



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## WHAT'S NEW ?



LCD DISPLAY → ENLARGED LCD DISPLAY  
with graphical  
information display



BUTTON CONTROL → ENCODER  
for easy parameter setting





**MORE SPEED. MORE CONTROL. MORE PRODUCTIVITY.**



**15000**

**x5**

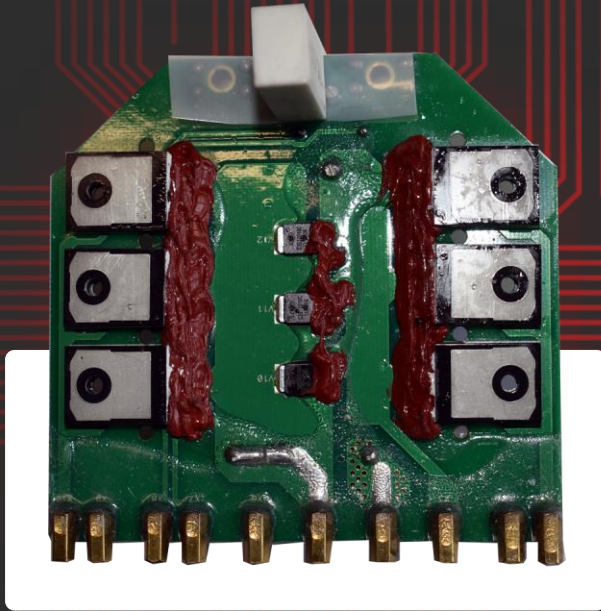
**64000**

**OPERATING SPEED**

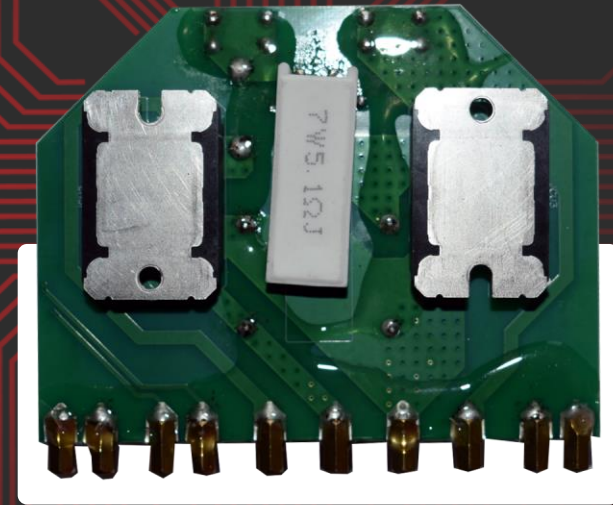
**NUMBER OF OPERATIONS PROCESSING REQUESTS PER SECOND**



## POWER MODULE REPLACEMENT IN MACHINES FOR 500 AND 630 Amps



**DISCRETE POWER TRANSISTORS**



**POWER TRANSISTOR MODULES**

**Enhancing machine efficiency, optimizing duty cycle,  
improving arc stability, and reducing energy consumption**

# INTERFACE

Enhanced display: two additional parameters with values shown alongside the main parameter.

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## INSTANT CHANGES – FULL CONTROL OVER PARAMETERS



# TIG MODE

Effortless Settings with a  
Clear Visual Display

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# TIG MODE

## TIG-LIFT Function

Optimized Arc Ignition  
– 98% Success Rate

Select From 3 Operation  
Modes:

LIFT, LIFT-2T, LIFT-4T

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TIG MODE

# TIG SmartFlow

Automatic opening the gas valve during LIFT ignition for seamless performance

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TIG MODE

# TIG SmartFlow

Gas When You Need It, Savings  
When You Don't

Automatic shutting off the  
shielding gas after 5 sec. absence  
of the arc.

Enhances efficiency and lowers  
costs.

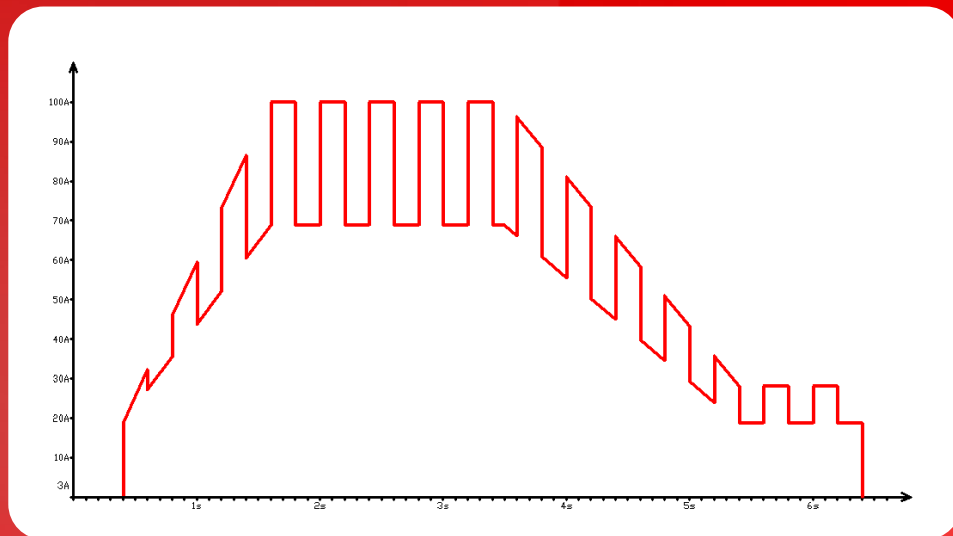
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TIG MODE

# PULSE FUNCTION

Academically Designed, Practically Perfect – Where Science Meets Welding



MIG/MAG MODE

# PULSE FUNCTION

Perfect Arc, Perfect Weld – Pulse Power in MIG/MAG!

Smarter Welding Starts with Pulse

– reducing spatter, improving arc precision, and ensuring seamless welding performance on thin materials

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# MIG/MAG MODE

Precision at Every Speed –  
Welding at Low Speeds,  
High Efficiency – Wire  
Feeding from Just 1 m/min!

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MIG/MAG MODE

# SMART WIRE FUNCTION

No Arc? No Waste!  
Intelligent Wire & Gas Control for  
Precision Welding.

If the welding arc is absent for 1.5 seconds, the system automatically stops the wire and gas feed, reducing unnecessary material usage and improving efficiency.

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## INDUCTANCE FUNCTION – Academically Engineered Inductance

From theory to perfection –  
mathematically refined current  
for minimized spatter,  
maximized control through  
advanced current optimization.

The PATON logo is displayed in a stylized, bold, italicized font. The letters are white with a red outline, set against a white rectangular background with a slight shadow effect.

# PLASMA CUTTING

## NEW MODEL OF PLASMA CUTTERS

### StandardCUT-40

The screen displays shows the cutting current value

Convenient adjustment of the current

PROTECTION CLASS – IP23



**IGBT**

TECHNOLOGY



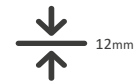
PNEUMOSYSTEM  
WITH TWO  
VALVES



FORCED  
COOLING



WORK WITH  
WEAK POWER  
NETWORKS



MAX THICKNESS  
OF METAL CUT



OVERVOLTAGE  
PROTECTION

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# PATON MICROWELDING

WITH TUNGSTEN ELECTRODE IN ARGON ENVIRONMENT

MICROWELDING-80

Small Details. Big Precision. Reliable Results.



- Fine jewelry and delicate metalwork;
- High-precision molds and dies;
- Stamps and engravings;
- Eyeglass frames and small metal components;
- Medical and surgical instruments;
- Electronic circuit production and micro-soldering.



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# WELDING IS

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