

# MicroWelding-80



1 year  
warranty

**PATON MICROWELDING-80** is designed for pulse-arc welding with a tungsten electrode in an argon protective gas environment. The machine has a nominal current of 210A with the ability to adjust the pulse duration from 0.1 to 30 milliseconds. It also features adjustable pre- and post-gas flow time. The set includes an auto-darkening protective welding helmet with illumination, a holder for the torch, and a foot pedal.



## Processes



## Input



## PARAMETERS

	MicroWelding-80
Nominal network voltage (50/60 Hz), V	220/230
Nominal current consumption per network phase, A	2 ... 3A
Nominal welding current, A	210
Power supply voltage range, V	176 ... 260
Welding current adjustment range, %	2-100
Welding time adjustment range, ms	1-30
Pre-gas flow time adjustment range, s	0,1 ... 5
Post-gas flow time adjustment range, s	0,1 ... 5
Illumination brightness adjustment range, %	0 ... 100
Open-circuit voltage, V	48
Nominal power consumption, kVA	0,5 ... 0,6
Efficiency, %	90
Operating temperature range	-25 ... +45°C
Dimensions (length, width, height), mm	270x215x225
Weight without accessories, kg	4,7
Protection class	IP21

## ADVANTAGES



ADJUSTABLE  
SETTINGS



MULTIFUNCTIONALITY

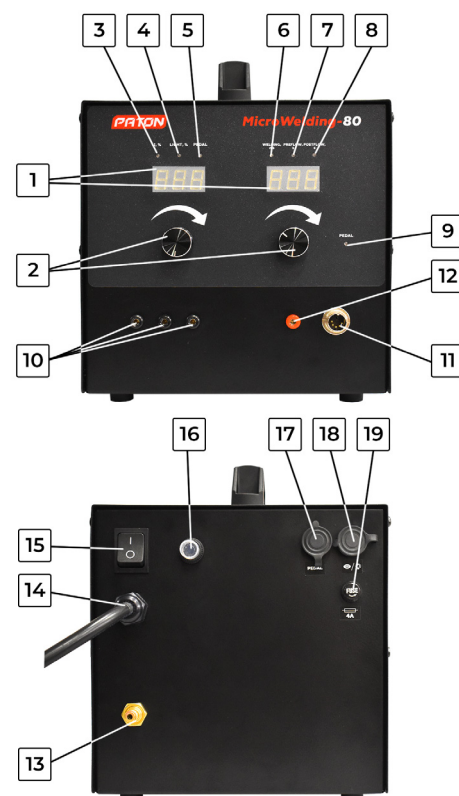


COMPACT SIZE

# FRONT CONTROLS



- 1 Seven-segment parameter indicators
- 2 Encoders for selecting and adjusting the chosen parameter (increase or decrease)
- 3 Indicator of the selected parameter "Welding Current"
- 4 Indicator of the chosen parameter "Illumination Brightness"
- 5 Selection of the foot pedal mode (ON/OFF)
- 6 Indicator of the selected parameter "Welding Time"
- 7 Indicator of the selected parameter "Pre-gas Flow"
- 8 Indicator of the selected parameter "Post-gas Flow"
- 9 Indicator for foot pedal mode activation (ON/OFF)
- 10 Connectors for grounding cable connection
- 11 Connector for torch connection
- 12 Connector for copper electrode for tack welding
- 13 Fitting for connecting protective gas from the cylinder
- 14 Power cable
- 15 Machine power button
- 16 4A network fuse
- 17 Connector for foot pedal 12V/1A
- 18 Connector for protective glass and 12V/1A illumination
- 19 Fuse for auxiliary equipment 1A



## APPLICATIONS

PATON MicroWelding-80 is designed for professional use in the repair of jewelry, molds and stamps, eyewear frames, medical instruments, and in the production of electronic components.



## COMPLETE SET

- 1 — Torch with a movable tungsten electrode and Ø1 mm collet
- 2 — Torch holder with protective glass (auto-darkening)
- 3 — Foot pedal
- 4 — Ground clamp with cable
- 5 — Collet for Ø0.5 mm electrode
- 6 — Copper electrode for tack welding mode with cable
- 7 — Quick-release pneumatic connector
- 8 — Nozzle for working with lithium batteries

