

bodor
Dare to dream

Self-cooling Handheld Laser Welding Machine

Pro I500



**A strong welder handles all
tough welds with ease.**

-20°C



**Reliable in Extreme
Cold and Heat**



**Refrigerant
Technology**

60°C



 **Continuous
Laser Output**

Pro | 500



Steady Power Guaranteed through Self-cooling Features

01 Constant Temperature Circulation, Bodor's self-innovated intelligent patent, accomplishes continuous welding easily.

02 Perfect, steady operations in extreme weather conditions and challenging workplace scenarios.

03 Bring exceptional advantages to welding metal in bending, hardness, and tensile strength.



Compact, Integrated Design

- 01** Less voluminous and more lightweight, no built-in water tank.
- 02** Eliminate the need for water changes or refills, minimizing labor costs.
- 03** 0.36m² covering area ensures work flexibility and convenience at different working locations.





Effortless Smart Knob Control

- 01** Adjust laser welding parameters (power, weld bead width, frequency, etc.) in one knob.
- 02** Select parameter settings from preset Bodor Welding Process Database.
- 03** Store customized welding parameters automatically.



Top-notch Performance Accredited by International Laboratories

- 01** Excellent welding quality tested in -20°C to 60°C lab conditions and in humidity levels of up to 90% for over 10,000 hours.
- 02** Consistent and high-speed welding across a diverse range of metal materials, resulting in smooth welding seams without deformation.
- 03** Provide a secure welding environment and safe operations for users.

Laser Welding vs. Traditional Welding

LASER WELDING		TRADITIONAL WELDING
Welding Material	Metal	Metal
Welding Speed	1m/min	0.2m/min
Thermal Deformation	Very Low	High
Welding Quality	Consistent superior quality Smooth welding seam High welding intensity	Heavy double welding Unaesthetic welding seam or gaps Low welding intensity
Physical Harm	Indirect Low radiation	Potentially being exposed to occupational hazards like glaucoma and pneumoconiosis

Machine Parameter

Output Power	1500W	Operating Ambient Temperature Range	-20°C – 60°C
Optical Fiber Cable Length	10m±0.5m	Overall Weight	CE: 82kg / GB: 65kg
Cooling Method	Self-cooling	Dimensions	850mm×420mm×570mm
Laser Output	Continuous	Components	Handheld welding head, laser welding power source, wire feeder

Nozzle Options (For various processing scenarios)



No.	AS-12	BS-16	BS-20	CS-12	CS-16	C	Cutting Nozzle
Welding Wire Diameters(mm)	0.8/1.0/1.2	1.6	2.0	0.8/1.0/1.2	1.6	-	-
Techniques	Flat fillet weld Inside corner weld Outside corner weld	Flat fillet weld Inside corner weld Outside corner weld	Flat fillet weld Inside corner weld Outside corner weld	Outside corner weld	Outside corner weld	Outside corner weld	Cutting



Bodor, the world leading laser cutting solution provider

Established in 2008, Bodor Laser is a global leader in intelligent laser processing solutions, specializing in R&D, manufacturing, sales, and service. The company has ranked global No.1 in fiber laser cutting machine sales volume for six consecutive years from 2019 to 2024. Bodor operates over 20 subsidiaries worldwide, employing more than 3,000 professionals from 18 countries. With comprehensive in-house capabilities, Bodor offers a wide range of laser cutting and welding machines, including pioneering laser scanning cutting machines, defining the industry's future.



FOLLOW US ON SOCIAL MEDIA

✉ sales@bodor.com www.bodor.com