


→ **40°C**



-  **Reliable in Extreme Cold and Heat**
-  **Air cooling Technology**
-  **Continuous Laser Output**



Bodor, the world leading laser cutting solution provider

Founded in 2008, Bodor is a leading international laser solution provider, possessing independent intellectual property rights and core technologies. Our mission is to change human life with laser technologies. Aiming to leverage laser applications and create a revolutionary user experience, we assist manufacturing professionals in producing high-quality, cost-effective metal products using our innovative and reliable laser technologies. Bodor's products, including laser cutting and welding machines, find applications in sectors like automobiles, aviation, medical care, electronics, metal processing, and many more.



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Air Cooling Handheld Laser Welding Machine

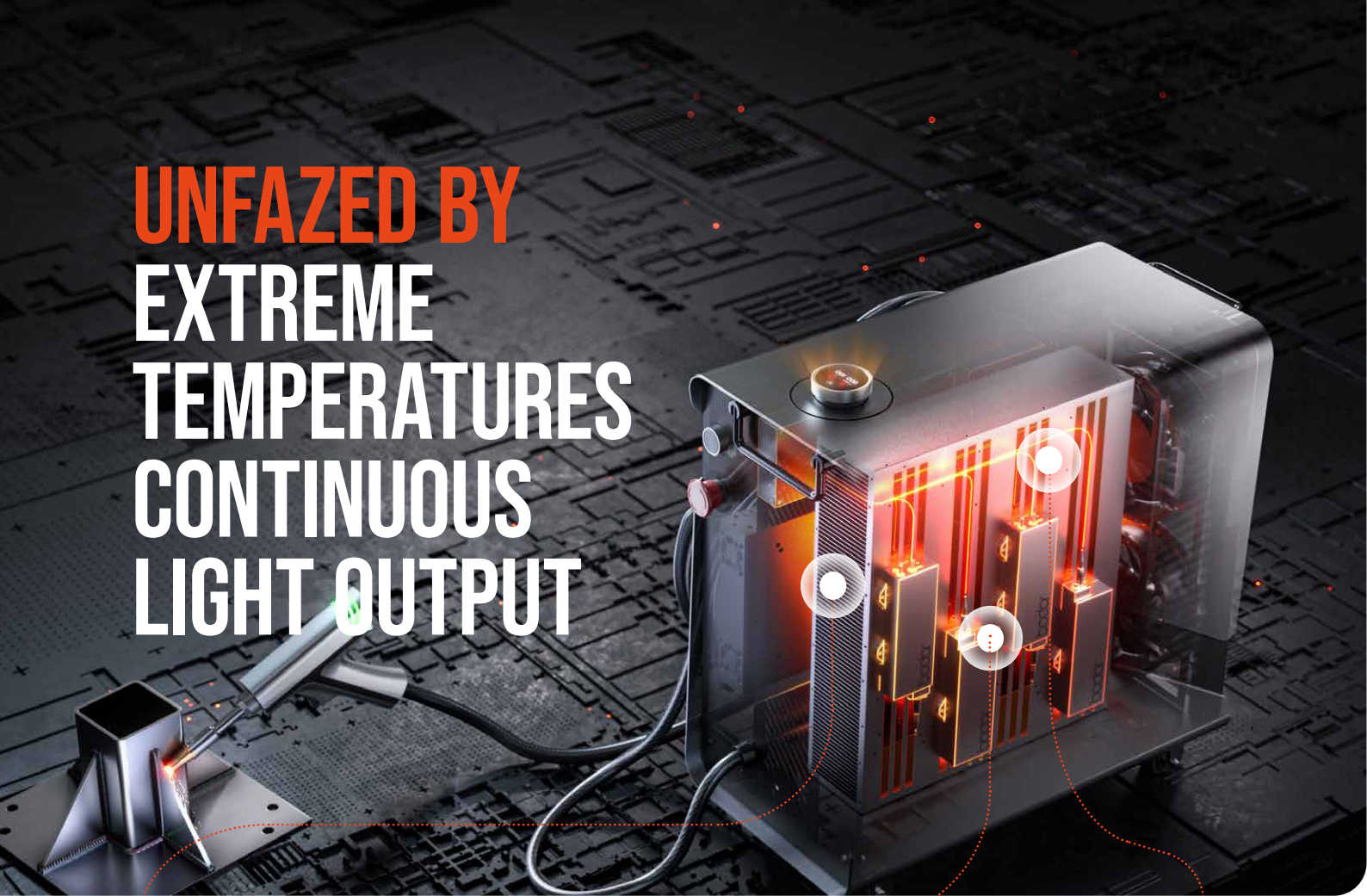
Air I200/600



**Innovative Air-Cooling Technology,
Pioneer of Continuous Laser Light Output**

-20°C ←

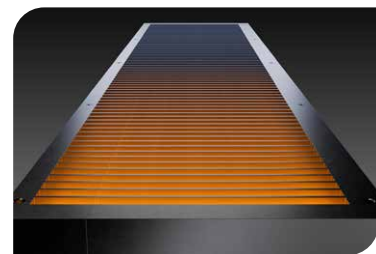




UNFAZED BY
EXTREME
TEMPERATURES
CONTINUOUS
LIGHT OUTPUT

Shovel-Tooth Fin Structure

A large fin area combined with high-efficiency heat-dissipating material allows for ongoing heat discharge.



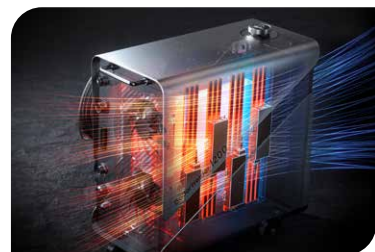
Cutting-Edge Latent Heat Technology

By using phase change of the cooling medium, swift conversion between heating and cooling is achieved.



Dedicated Cooling Duct

Ensure no leakage of light and heat, speeding up cooling.



International Authority Certification

Certified by CNAS authoritative certification organization, using a BodorWelder self-cooling handheld laser welding machine for steel results in smooth and beautiful weld seams and solid welding without deformation, exhibiting strong advantages in bending, hardness, and tensile strength.

Self-Developed Core Components Full Power Output

With a depth of fusion of 4mm, a 1200W self-cooling laser welding machine achieves the welding performance of a 1500W water-cooling one, but with better efficiency and power savings.



Lightweight Design, Powerful Welding

Compared to the water-cooling welding machine, it reduces weight by 50% and volume by more than twice.



One-Click Operation Master Welding on Your First Attempt

Knob-style operation combined with a comprehensive welding process database allows instant proficiency, akin to an experienced welder.



Wide Voltage, Fully Adaptive

Designed with a 100V-240V wide voltage range, it ensures stable performance without geographical restrictions.



Compact Size, Big Potential

The compact volume of BodorWelder self-cooling handheld laser welding machine, at only 0.11m³, belies its significant potential thanks to intelligent constant temperature circulation technology.



Laser Welding vs. Traditional Welding

	LASER WELDING	TRADITIONAL WELDING
Welding Material	Metal	Metal
Width-to-Depth Ratio	<10	<2
Welding Speed	39.37 in/min	7.87 in/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	

Machine Parameter

Output Power	1200W/600W	Maximum Welding Material Thickness	4mm/2mm
Optical Fiber Cable Length	16.4'±1.6'	Overall Weight	CE: 60kg (Air 1200) CE: 57kg (Air 600)
Cooling Method	Air cooling	Dimensions	20.8"*14.9"*23.2"/ 20.8"*14.9"*20.8"
Laser Output	Continuous	Components	Handheld welding head, laser welding power source, wire feeder
Operating Ambient Temperature Range	-4°F – 104°F		

Nozzle Options (For various processing scenarios)

No.	AS-12	BS-16	BS-20	CS-12	CS-16	C	Cutting Nozzle
Welding Wire Diameters(mm)	0.8/1.0/12	1.6	2.0	0.8/1.0/12	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