



-  **Real Power,
Reliable Welds**
-  **Aqu Redefines
Value**
-  **Future-Ready
Welding**



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.

Data Source: Qianzhan Industrial Research Institute.



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Self Cooling Handheld Laser Welding Machine

Aqu Series



Welding Expertise. Simplified.



THE WELDING MACHINE THAT WORKS AS HARD AS YOU DO.



Boost productivity with laser speed and optimized resource use. Experience full-rated laser power, unleashed. The Aqu Series delivers commanding weld force, yet operates with refined efficiency. Power and precision, perfectly balanced.

Real Power, Reliable Welds

The Aqu Series delivers full-rated power, ensuring deep weld penetration and robust joints. Engineered with an industry-leading optical system, the Aqu Series maximizes laser output for consistent performance across a range of materials and thicknesses. Tested and certified to meet rigorous standards, you get the power you need, weld after weld.

Aqu redefines value.

Intelligent design yields tangible returns: 25% reduction in consumable costs with nitrogen compatibility. One-pass welding cuts labor in 50%. Simplified operation minimizes training expenses. Smart technology, for a smarter bottom line.

Future-Ready Welding

Port Expansion – Seamless Automation. Integrated IO interface for easy connection to automated systems. Scale up your production. Embrace the future of fabrication.



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.

Superior Fusion Depth

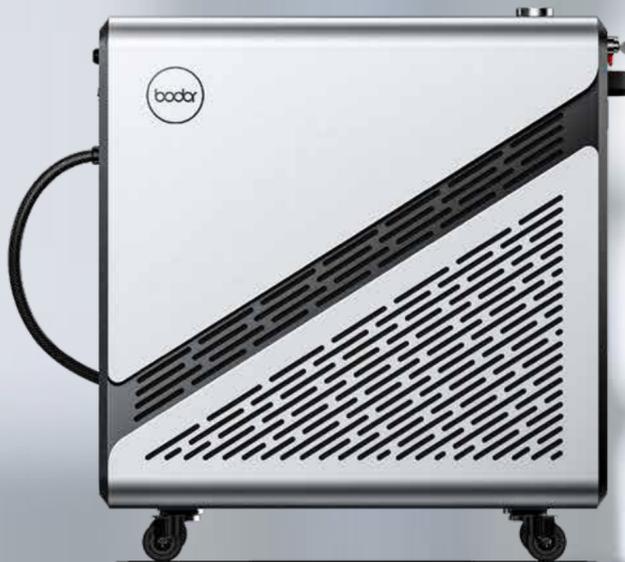
Delivers true, full-rated power across all models. Engineered for consistent performance and deep weld fusion, ensuring robust and reliable joints, weld after weld.

7x24 Hour Reliability

The unique water-cooling system ensures enables 7x24 hour continuous welding. Minimize downtime and maximize uptime with a welder engineered for demanding workloads.

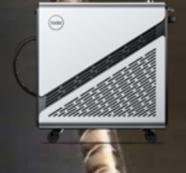
Intuitive Knob Control. Welding, Simplified.

Effortlessly adjust welding parameters with the user-friendly knob control. Easy to learn, easy to operate, for welders of all skill levels.



Mastery Techniques

The Aqu Series empowers you to command advanced welding techniques. Create stunning Fish Scale Welds. Execute precise Spot Welds. Achieve consistently beautiful weld seams.



Engineered for Efficiency & Speed

Weld up to twice as fast as traditional welding methods on thin gauge materials. The 1500W Eco Series achieves 190cm/min welding speed on 1mm steel.



Versatile Performance, Beyond Welding

More than just a welder. The Aqu Series offers integrated cutting and cleaning functions, expanding its versatility and utility in your workshop.



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	1200W/1500W/2000W/3000W	Overall Weight	110kg (Aqu 1200) 115kg (Aqu 1500) 120kg (Aqu 2000) 145kg (Aqu 3000)
Optical Fiber Cable Length	10m±0.5m	Dimensions	625X885X850mm
Cooling Method	Self-cooling	Components	Handheld welding head, laser welding power source, wire feeder
Laser Output	Continuous	Operating voltage	220V-240V (1200/1500/2000W) 380V (3000W)
Operating Ambient Temperature Range	-20°C – 40°C		



Industry Applications

Kitchenware, Sheet Metal Processing, Stainless Steel Products, Air Ducts, Shelves, Handicrafts, Stair Railings, Chassis Cabinets, Furniture and Home Appliances