

Bodor Aquu

Series

Self-Cooling Handheld Laser Welder



Weld with Might Peak of its Height



Full Power Full Force

Triple craftsmanship achieves full power for the whole series.



Small Core Fiber:

Aqu uses small core fibers to deliver superior beam quality and enhanced depth performance at the same power.

Self-Developed High-Converting Light Source :

Aqu reduces heat while providing a continuous high-energy beam through Bodor self-developed high-converting light source.

Optimized Manufacturing:

From component selection and design optimization to fiber connection and beam quality control, excellent manufacturing ensures the laser source delivers full power with exceptional beam quality.

Higher Welding Efficiency

For welding thin sheets under 3mm, the welding speed is doubled compared to traditional MIG and TIG welding. Compared to similar 1500W products and under identical conditions:

1mm Sheets Welding Speed

190 cm/min

Overall Welding Efficiency Improved By

20 %

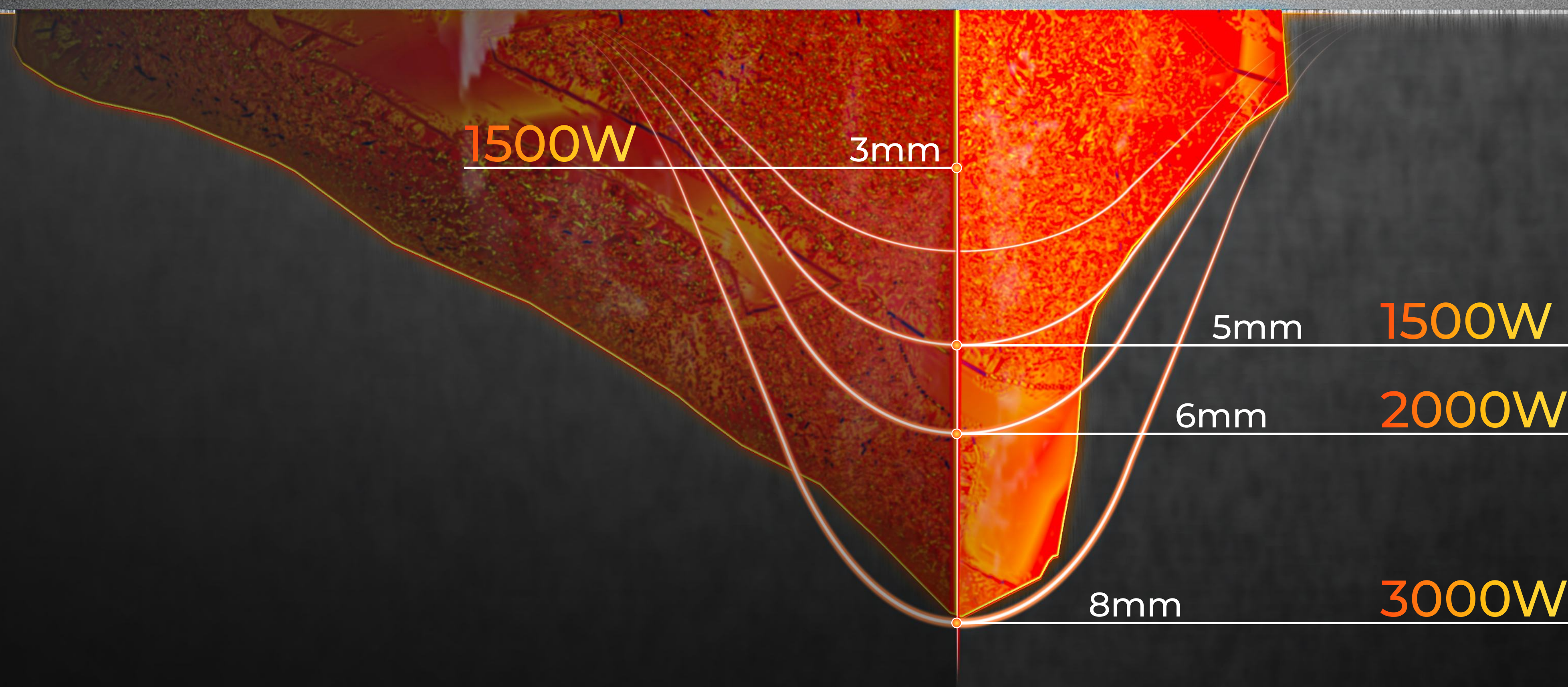
Deeper Penetration Stronger Connection

Four power levels (1200W, 1500W, 2000W, and 3000W) can achieve a maximum penetration depth of 4 mm, 5 mm, 6 mm, and 8 mm respectively, meeting various needs with different powers and creating an indestructible welding quality.

The Aqu Series offers diverse powers and outstanding performance.

Other Welders

Aqu Series Welders





Unmatched Excellence

Certified Performance

With full power, the Aqu seamlessly integrates fish scale and spot welding, producing smooth, neat, and visually appealing seams. Certified by CNAS, Aqu's welded components surpass market standards in bend resistance, hardness, and tensile strength.

检测报告

中国认可
国际互认
检测
TESTING
CNAS L11522

报告编号: ADTK20230814004-1
报告日期: 2023/08/16
页 码: 1 / 3

0230814004-1
3/16
230814004-1
16

委托单位: 济南邦德激光股份有限公司
单位地址: 山东省济南市历城区春晖路 3999 号
样品名称: 碳钢焊接样板 (Q235)
母材规格牌号: Q235+Q235(4mm+4mm)
焊材规格牌号: /
焊接方法: /
接头形式: /
焊接位置: /
检测部位: 焊缝+热影响区+母材
样品数量: 5 件
备注: /

声明: 以上信息及样品由客户提供及确认, 本实验室不承担证实客户提供信息的准确性、适当性和(或)完整性的责任。

样品来源: 委托方送样
样品描述: 完好
到样日期: 2023/08/14
检测日期: 2023/08/14-2023/08/16
结果评价依据: 委托方提供技术要求
检测结果: 详见后续页

卢慧娟

More Stable Self-Developed System

Aqu is equipped with a self-developed dual-core motherboard, which greatly improves the stability of the system. In a complex and changeable working environment, it can maintain 7×24h stable operation.



*7×24h stable operation requires an environmental temperature range of -20°C~40°C.

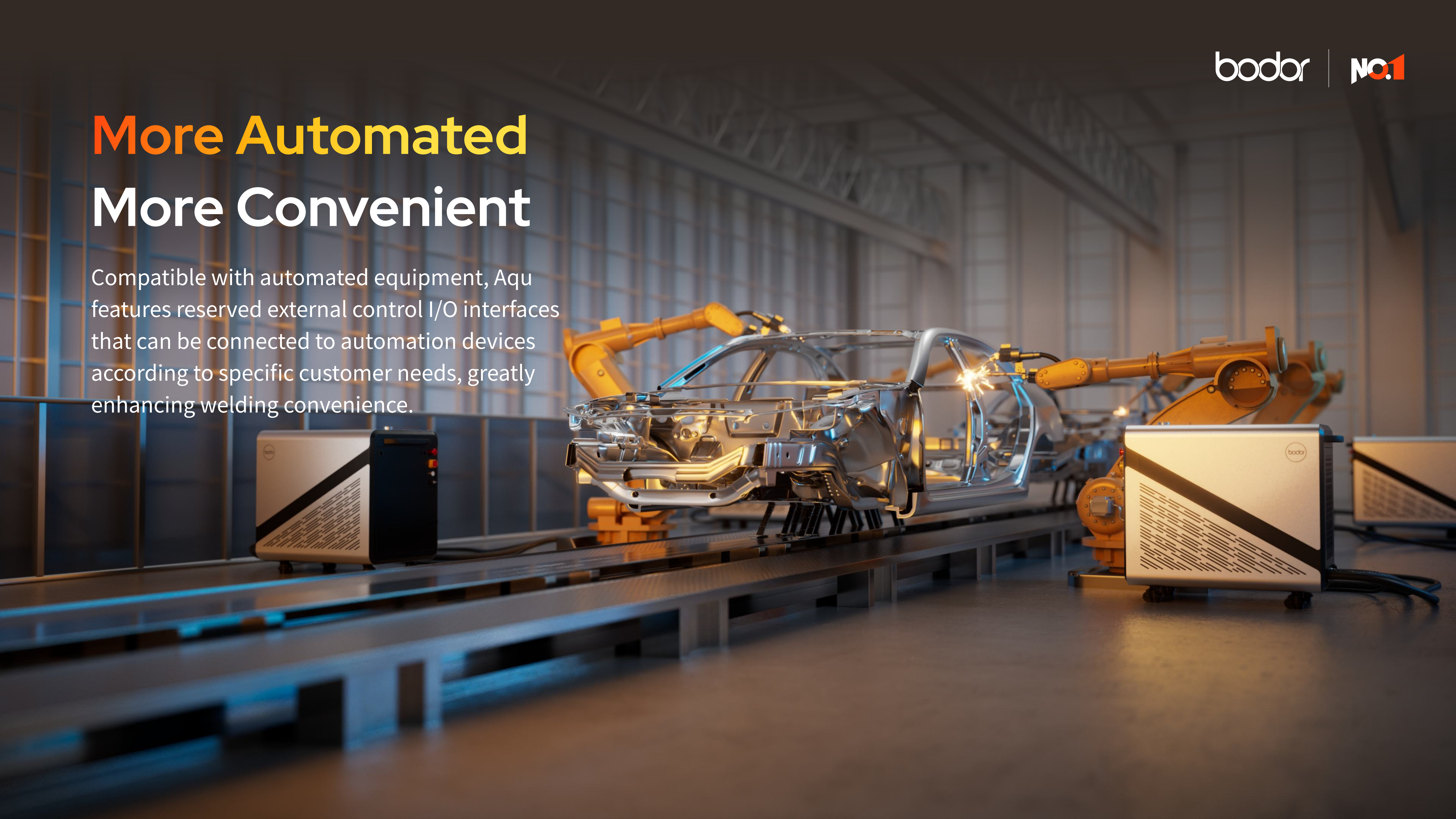
More Combinations More Choices

It is equipped with specialized welding/cutting nozzles, suitable for various processing scenarios, meeting diverse customer needs.



More Automated More Convenient

Compatible with automated equipment, Aqu features reserved external control I/O interfaces that can be connected to automation devices according to specific customer needs, greatly enhancing welding convenience.

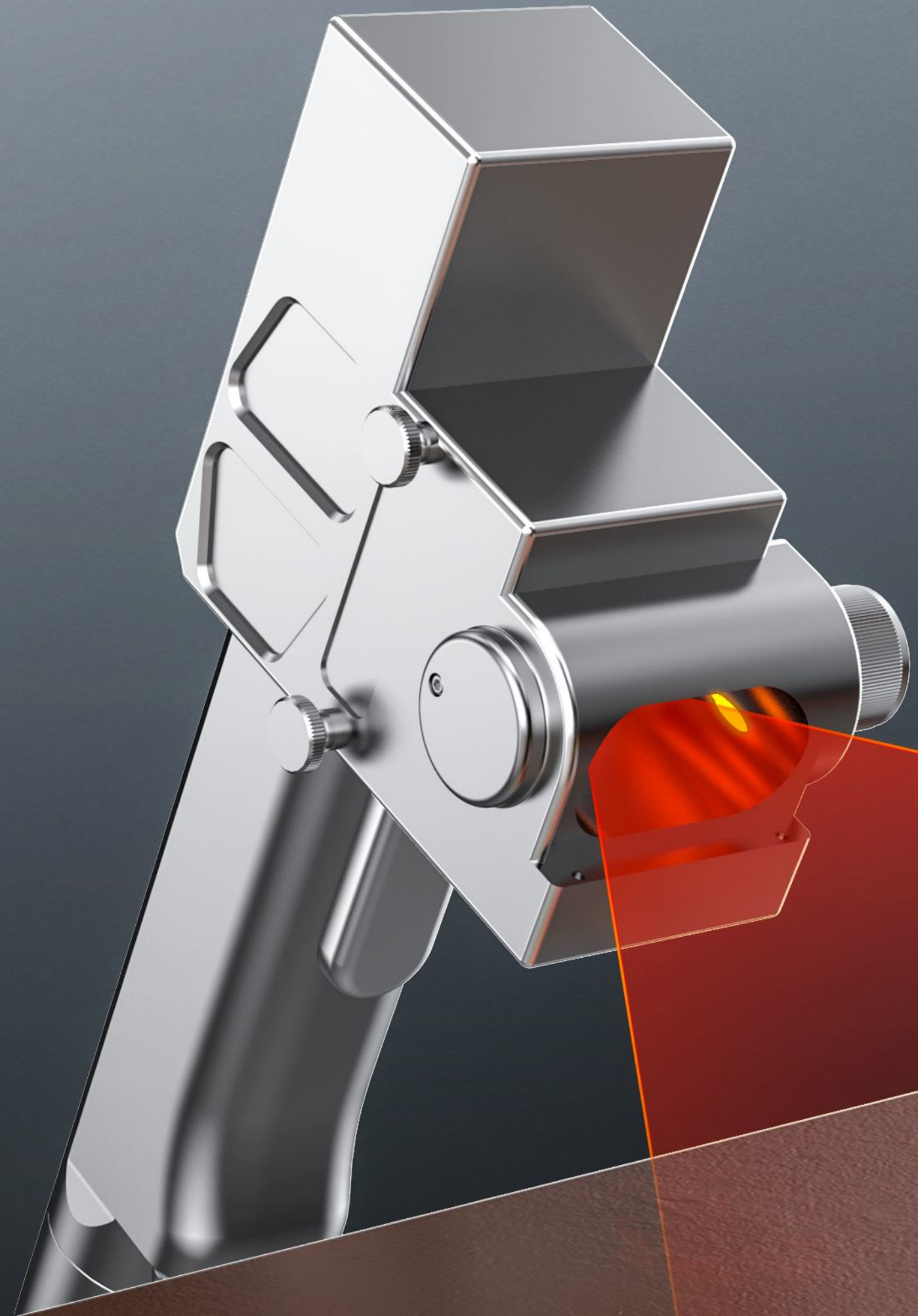


Optional

bodor | NO.1

Precise and Efficient

Cleaning width up to **300mm**, adjustable as needed.



Optional

bodor | NO.1

Safe & Eco-Friendly

Non-contact operation that requires no chemical solvents eliminates mechanical friction and prevents chemical corrosion, maintaining the integrity and precision of the substrate. During laser cleaning, no chemical solvents are required, thereby reducing environmental pollution and wastewater treatment costs.



Lower Costs Higher Cost-Efficient

With just one Aqu, you can save on multiple fronts.



Fewer Consumable Costs

25% ↓

Using Nitrogen
Instead of Argon

Lower Labor Costs

50% ↓

No Need for
Extra Grinding

With no welding certification required

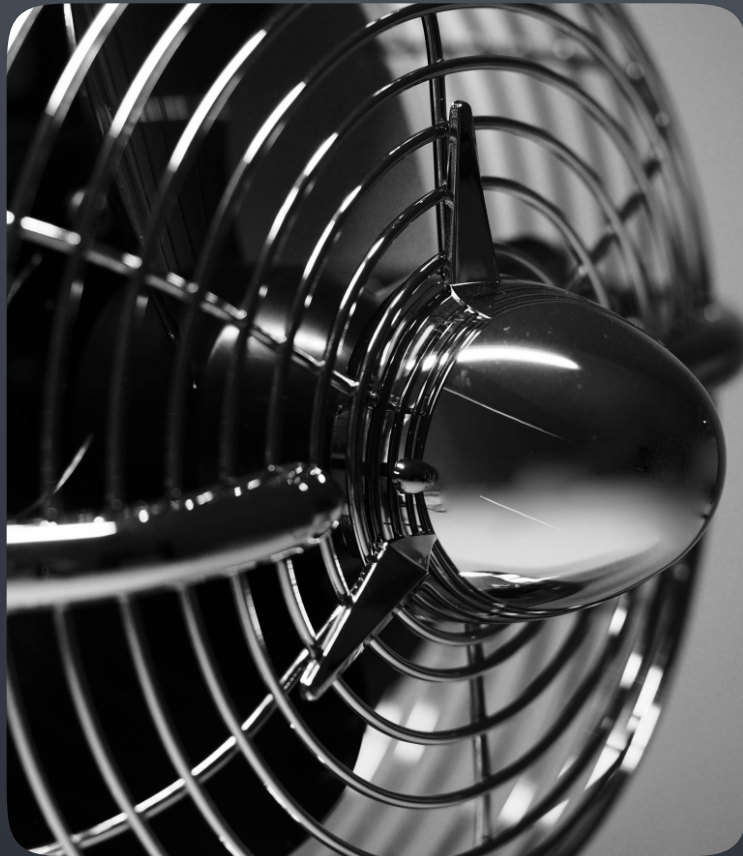
0.5h to get welded with ease

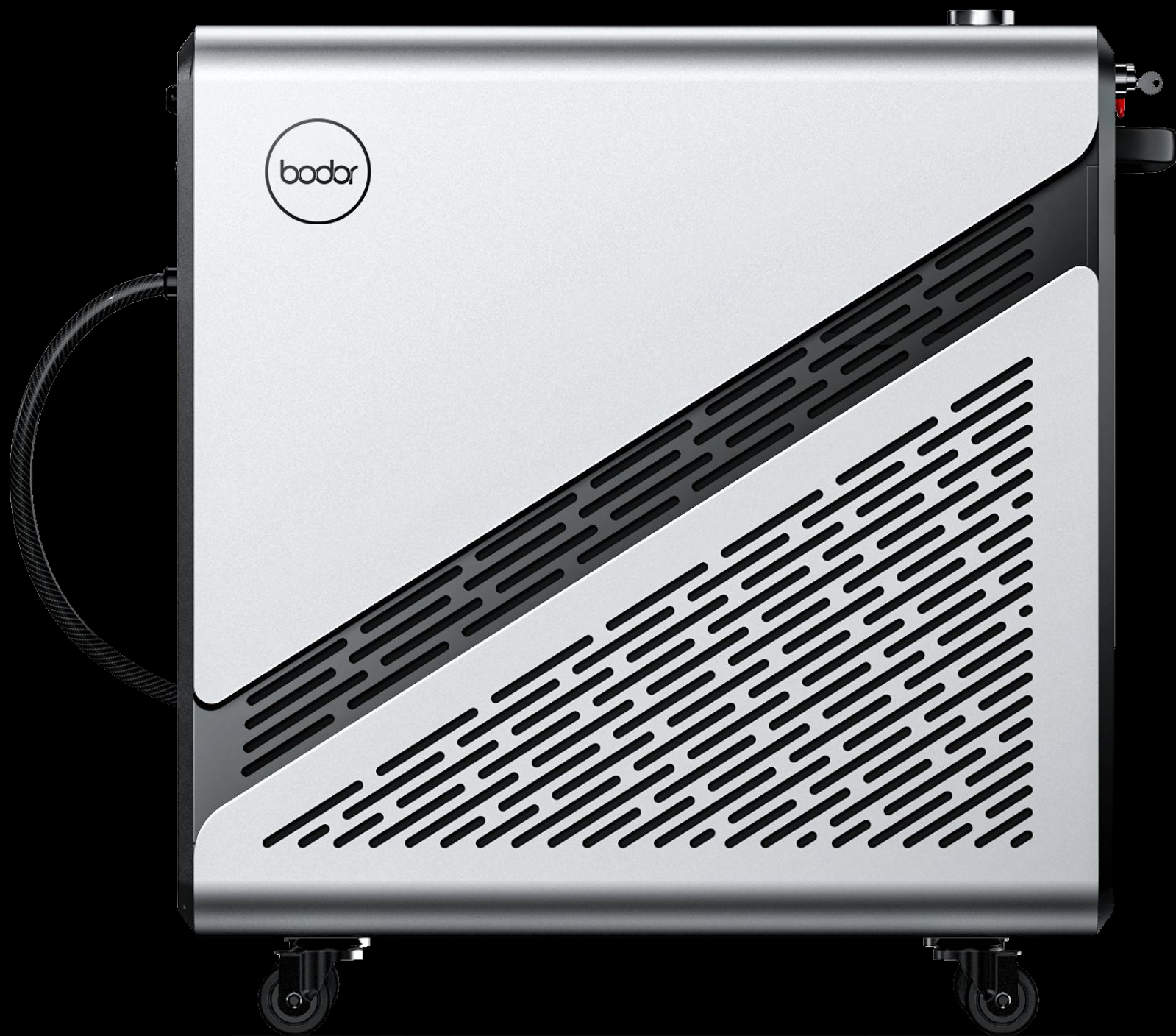


Self-Cooling Handheld Laser Welding Machine

Applicable Industries

Widely applied in kitchenware, sheet metal processing, stainless steel products, ventilation ducts, shelves, crafts, stair handrails, computer cases, furniture, home appliances and other industries.





Aqu Series Parameters

	Aqu 1500	Aqu 2000	Aqu 3000
Output Power	1500W	2000W	3000W
Length Of Optical Fiber Cable	10m±0.5m	10m±0.5m	10m±0.5m
Welding Thickness	Carbon Steel : 5mm Stainless Steel : 5mm	Carbon Steel : 6mm Stainless Steel : 6mm	Carbon Steel : 8mm Stainless Steel : 8mm
Cooling Method	Water Cooling	Water Cooling	Water Cooling
Constant-Power Continuous Light Emission	●	●	●
Operating Ambient Temperature Range	-20℃ to 40℃	-20℃ to 40℃	-20℃ to 40℃
Weight	115kg	120kg	145kg
Dimensions	960mm×625mm×885mm	960mm×625mm×885mm	960mm×675mm×885mm

bodor | No.1