

# Bodor Aqu

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.

1mm Sheets Welding Speed  
**190** cm/min

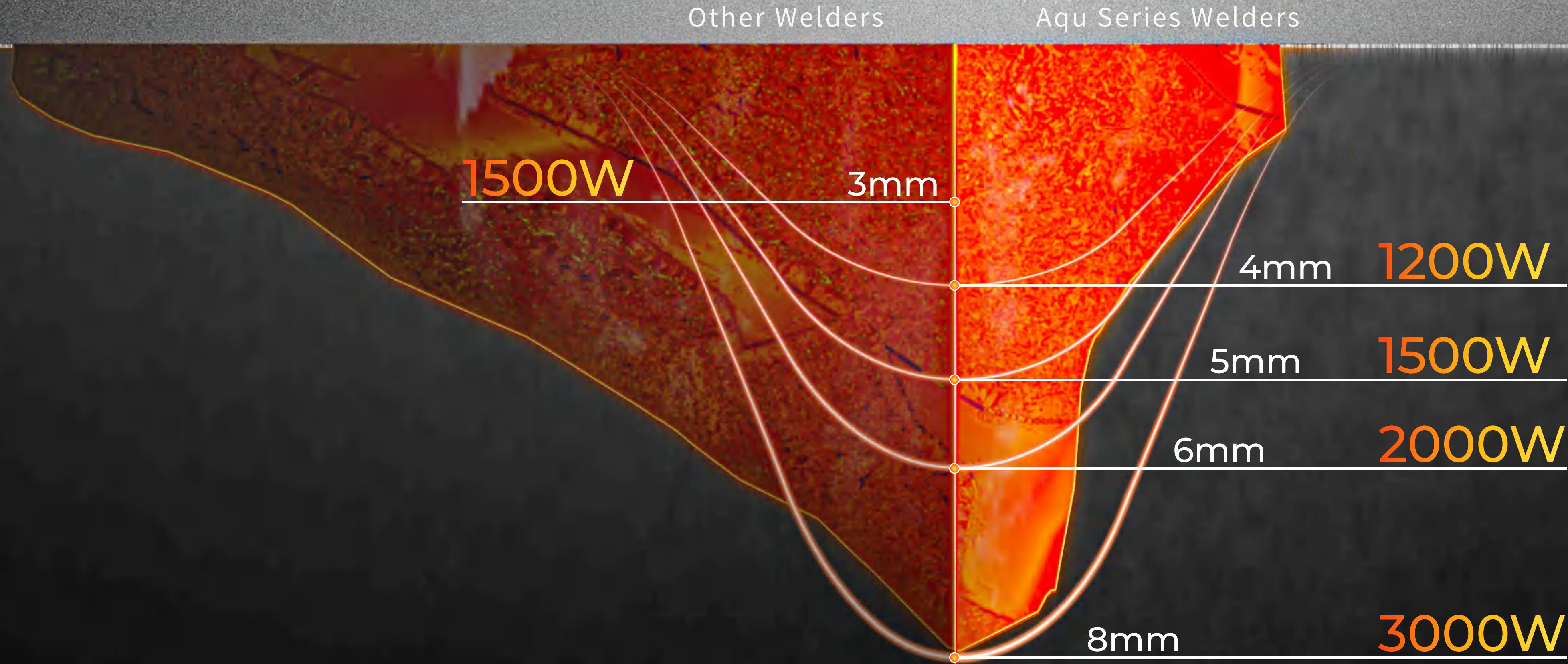
Overall Welding Efficiency Improved By  
**20** %



# 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.

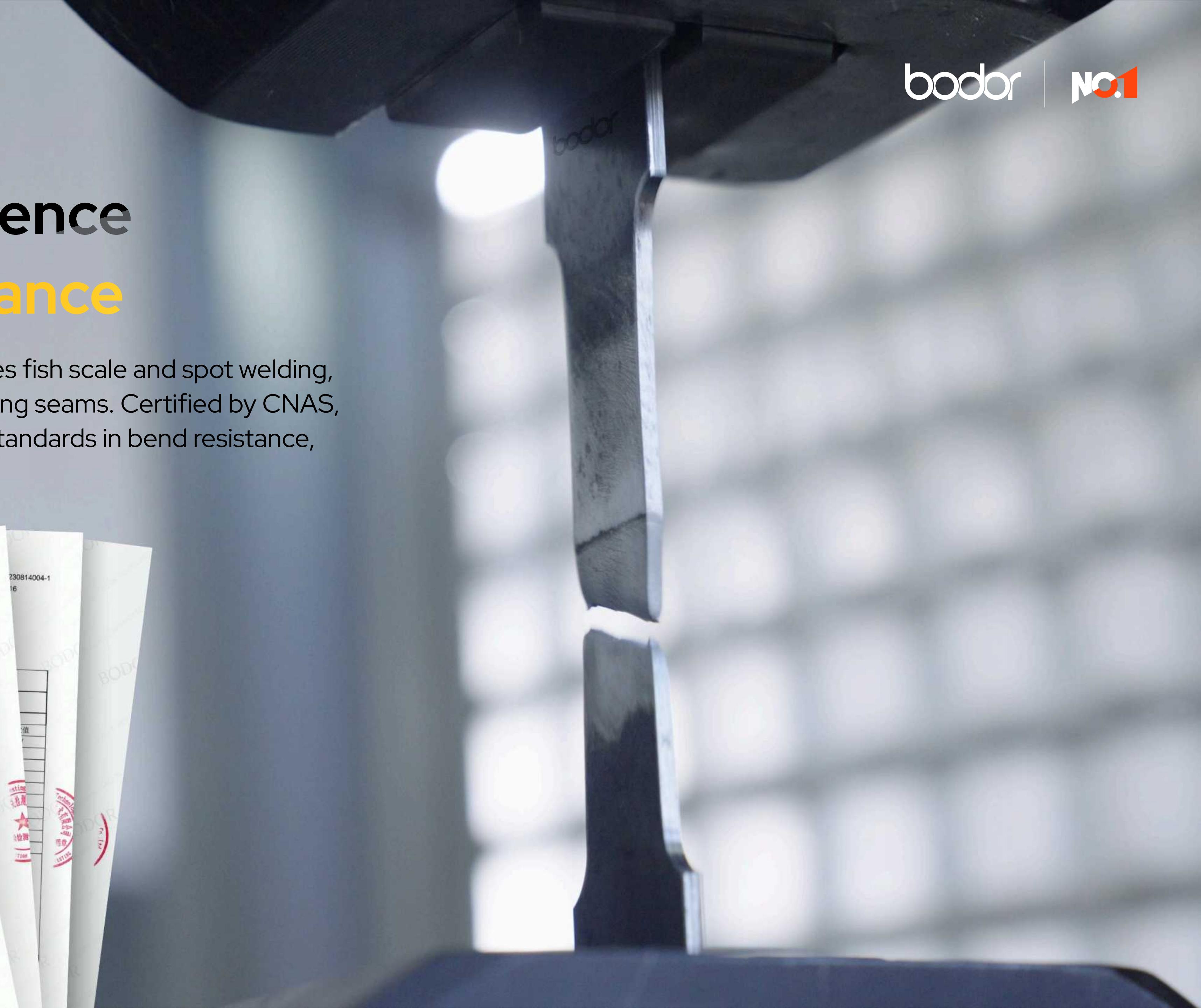




# Unmatched Excellence

## 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.



# 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.

# Cutting/Cleaning Always Shining

\*At the full power condition,

Max. Cutting Thickness

5 mm

Various types of sheets  
can be cut with ease.

Max. Cleaning Width

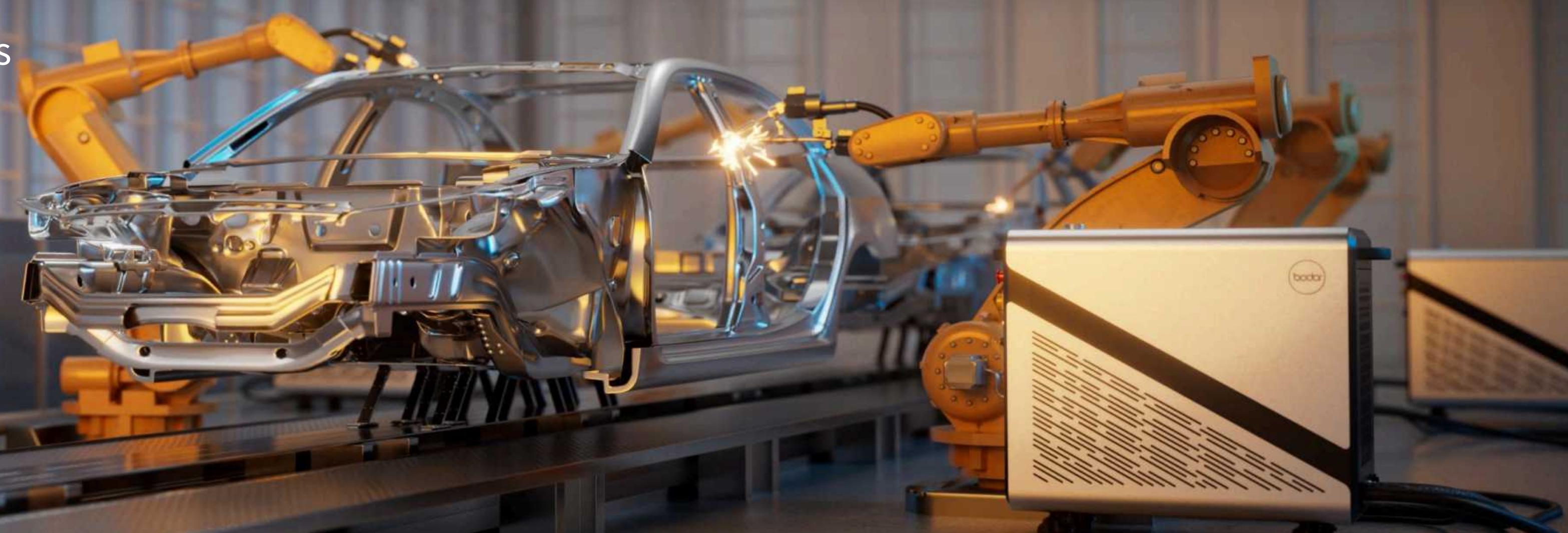
120 mm

Rust, paint, and other stains  
can be effortlessly removed.



# 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.



# Lower Costs Higher Cost-Efficient

Aqu brings triple savings and creates an excellent welding experience with high cost effectiveness for you.



Fewer Consumable Costs

25% 

Using Nitrogen  
Instead of Argon

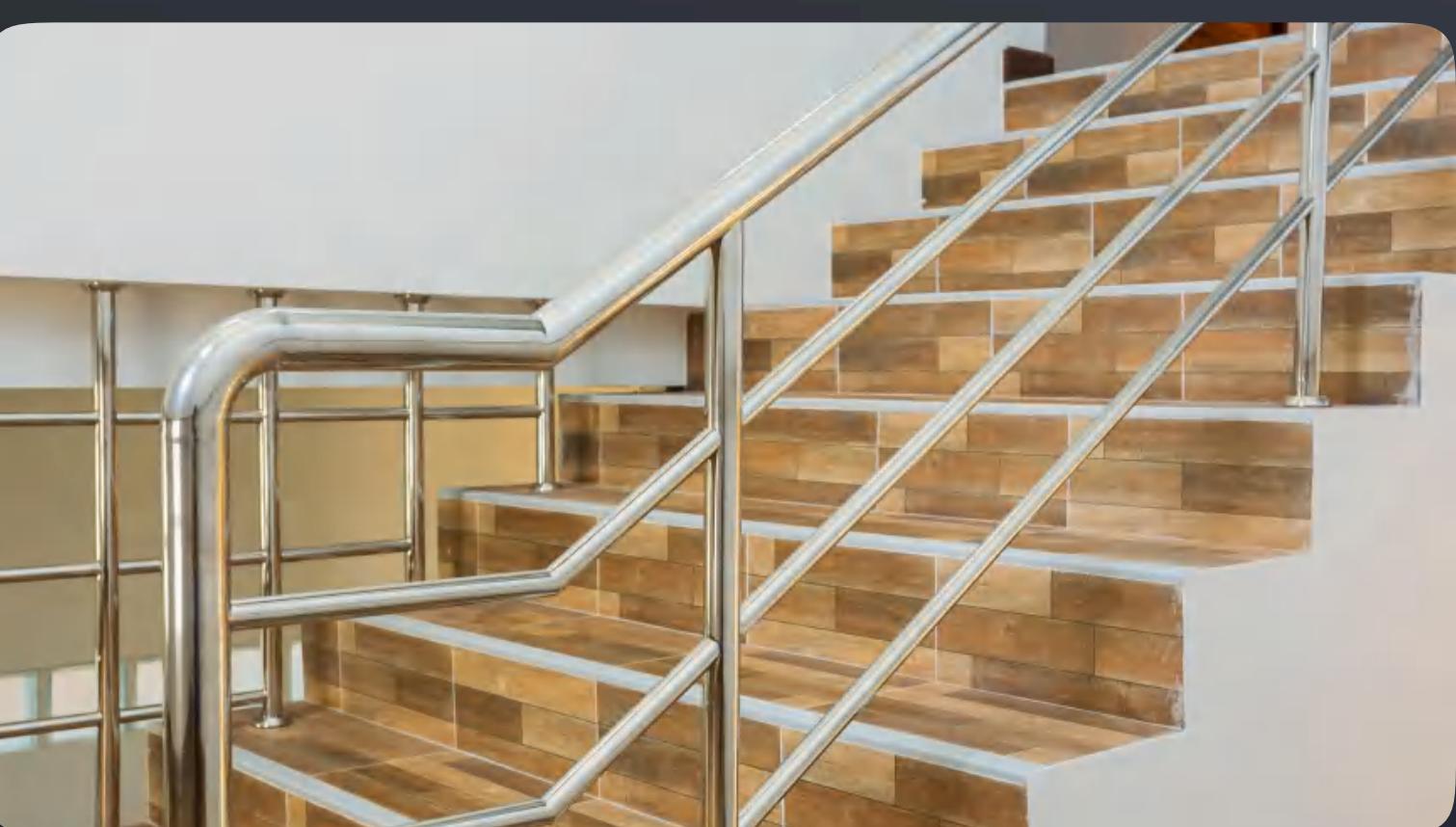
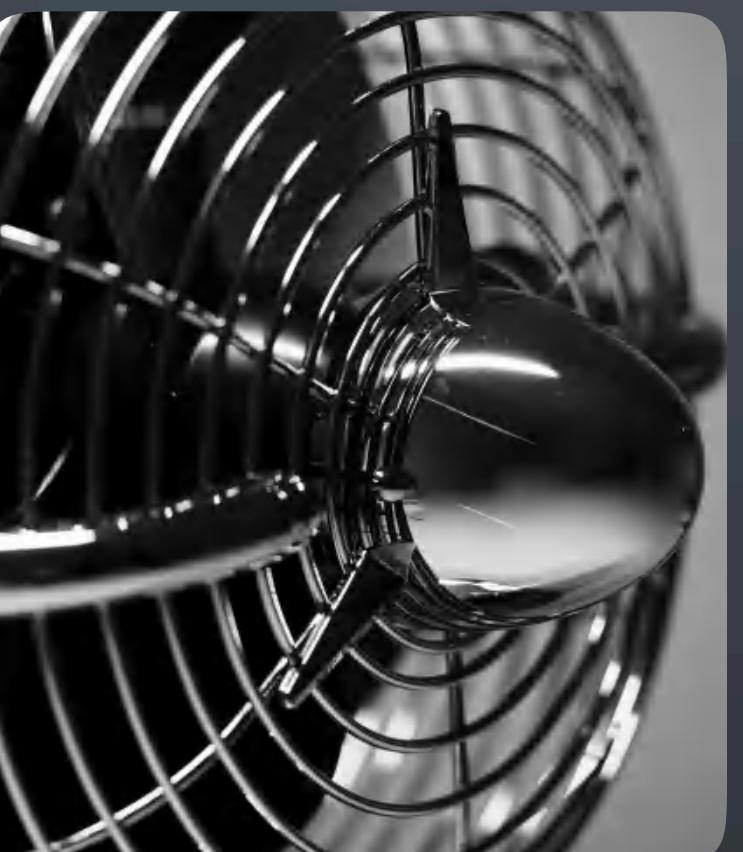
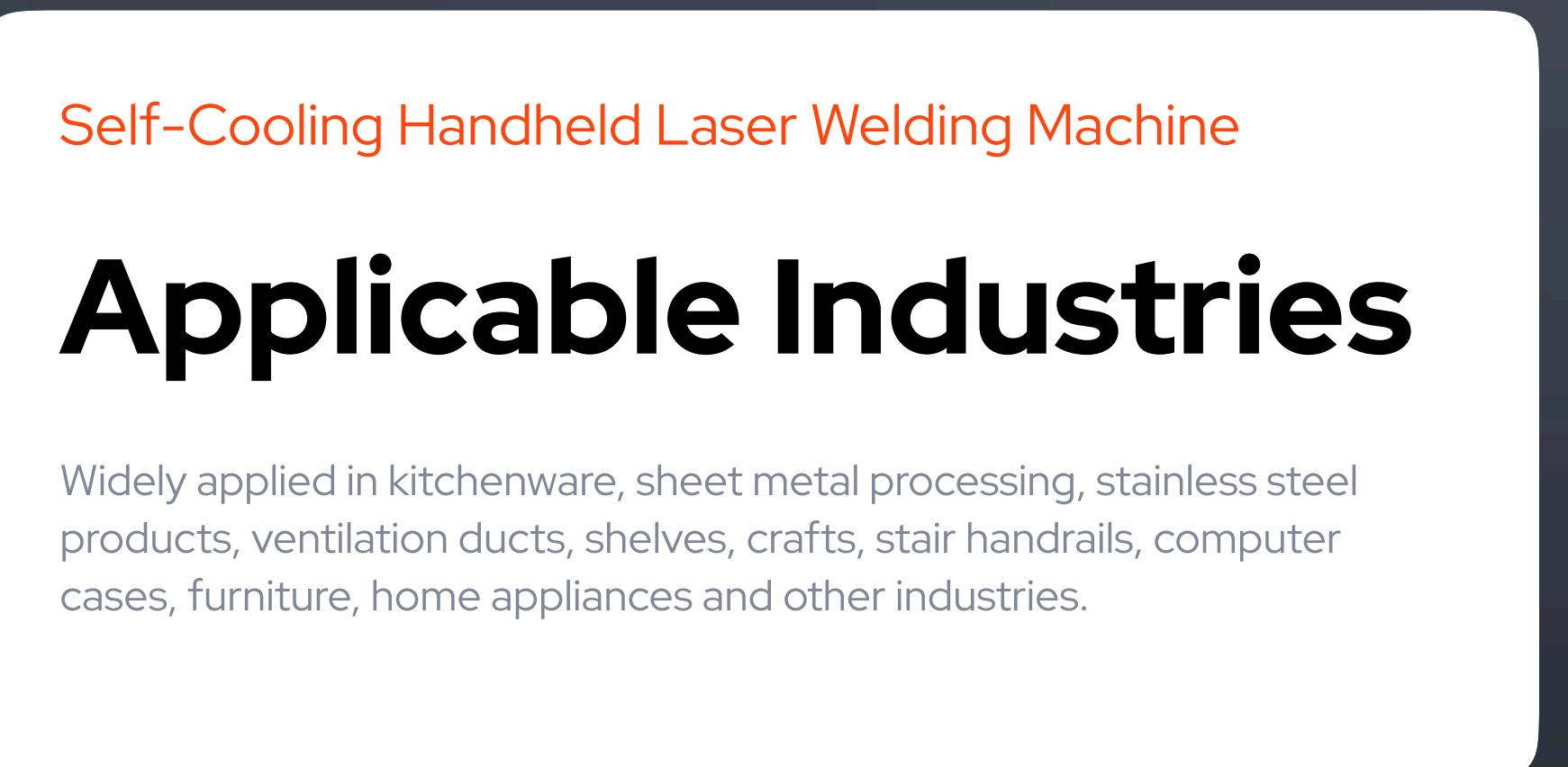
Lower Labor Costs

50% 

No Need for  
Extra Grinding

With no welding certification required

0.5h to get welded with ease



# Aqu Series Parameters



|                                          | Aqu 1200                                    | Aqu 1500                                    | Aqu 2000                                    | Aqu 3000                                    |
|------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|
| Output Power                             | 1200W                                       | 1500W                                       | 2000W                                       | 3000W                                       |
| Length Of Optical Fiber Cable            | 10m±0.5m                                    | 10m±0.5m                                    | 10m±0.5m                                    | 10m±0.5m                                    |
| Welding Thickness                        | Carbon Steel : 4mm<br>Stainless Steel : 4mm | Carbon Steel : 5mm<br>Stainless Steel : 5mm | Carbon Steel : 6mm<br>Stainless Steel : 6mm | Carbon Steel : 8mm<br>Stainless Steel : 8mm |
| Cooling Method                           | Water Cooling                               | Water Cooling                               | Water Cooling                               | Water Cooling                               |
| Constant-Power Continuous Light Emission | ●                                           | ●                                           | ●                                           | ●                                           |
| Operating Ambient Temperature Range      | -20°C to 40°C                               | -20°C to 40°C                               | -20°C to 40°C                               | -20°C to 40°C                               |
| Weight                                   | 130kg                                       | 140kg                                       | 155kg                                       | 170kg                                       |
| Dimensions                               | 850mm×625mm×885mm                           | 850mm×625mm×885mm                           | 850mm×625mm×885mm                           | 960mm×625mm×885mm                           |

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