Bodor Pro Series

Self-Cooling Handheld Laser Welder



bodor | NO.1

Redefining Self-Cooling Revolutionizing Handheld Welder

24/7 Stable Operation Self-cooling Continuous Light Output



bodor | NO.1

Constant Temperature Suitable For Worldwide

In extreme environments ranging from -20℃ to 60℃ or in 90% air humidity,
it can provide a stable and exceptional welding experience.

-20°C ↔ 60°C



-20℃ Temperature

81% Humidity

Uninterrupted Continuous Light Output





BodorWelder 1500极寒及高温测试报告

时间: 2023/06/01~2023/08/30

地点: 山东博科环境设备有限公司

焓差实验设备配置

一、实验目的：

为使BodorWelder 1500在全球范围各种气候环境下稳定运行，在对全球气候环境调研之后，对该设备设计以下实验，以保证能给客户带来持久利益，并让客户感受到一流的使用体验。

二、实验设计：

1.不同批次生产的BodorWelder 1500设备4台。

2.在温度：-20℃-60℃，湿度：30%-90%，以温度T为基准前提下进行以下实验：

①1号机，从60℃/80%开始，当实验设定T<30℃时，以每10℃ 2H为阶梯，当实验设定T>30℃时，以每5℃ 2H为阶梯，湿度递减至-20℃/40%进行长出光实验。

②2号机，从 20℃/90%开始，当实验设定T < 30℃时，以每10℃ 2H为阶梯，当实验设定T>30℃时，以每5℃ 2H为阶梯，湿度递增至60℃/80%进行长出光实验。

③3号机，极寒/高温实验组，在-20℃/30% 4H和60℃/90% 4H 长出光实验。

④4号机,此组为对照组，在25℃/50%长出光4H。

三、实验结论：

1.BodorWelder 1500在-20℃-60℃的温度，30%-90%湿度下测试过程连续出光无异常。

2.当温度T＞30℃和温度T＜0℃时随着温度的升高/降低，设备功率P的范围在1400-1430W以内波动，并可稳定出光。

3.当温度在室温环境（25℃/50%）下，设备出光功率范围为1470-1480W以内，并可稳定出光。

4.实验过程中，设备运行不受环境湿度影响。

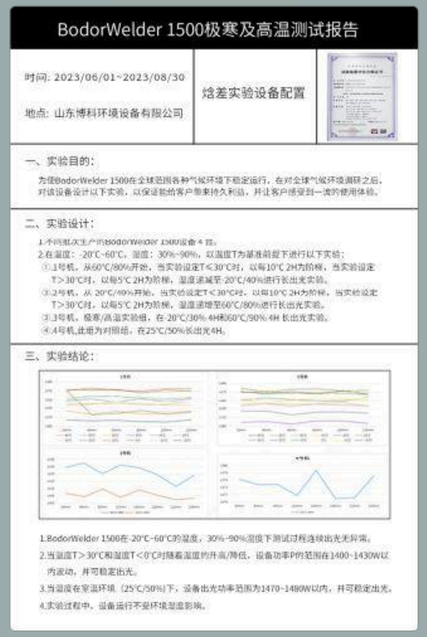
It has endured thousands of tests in extreme cold and high humidity conditions in the state-level enthalpy difference laboratory, gaining authoritative testing and certification!

60℃ Temperature

90% Humidity

Uninterrupted Continuous Light Output





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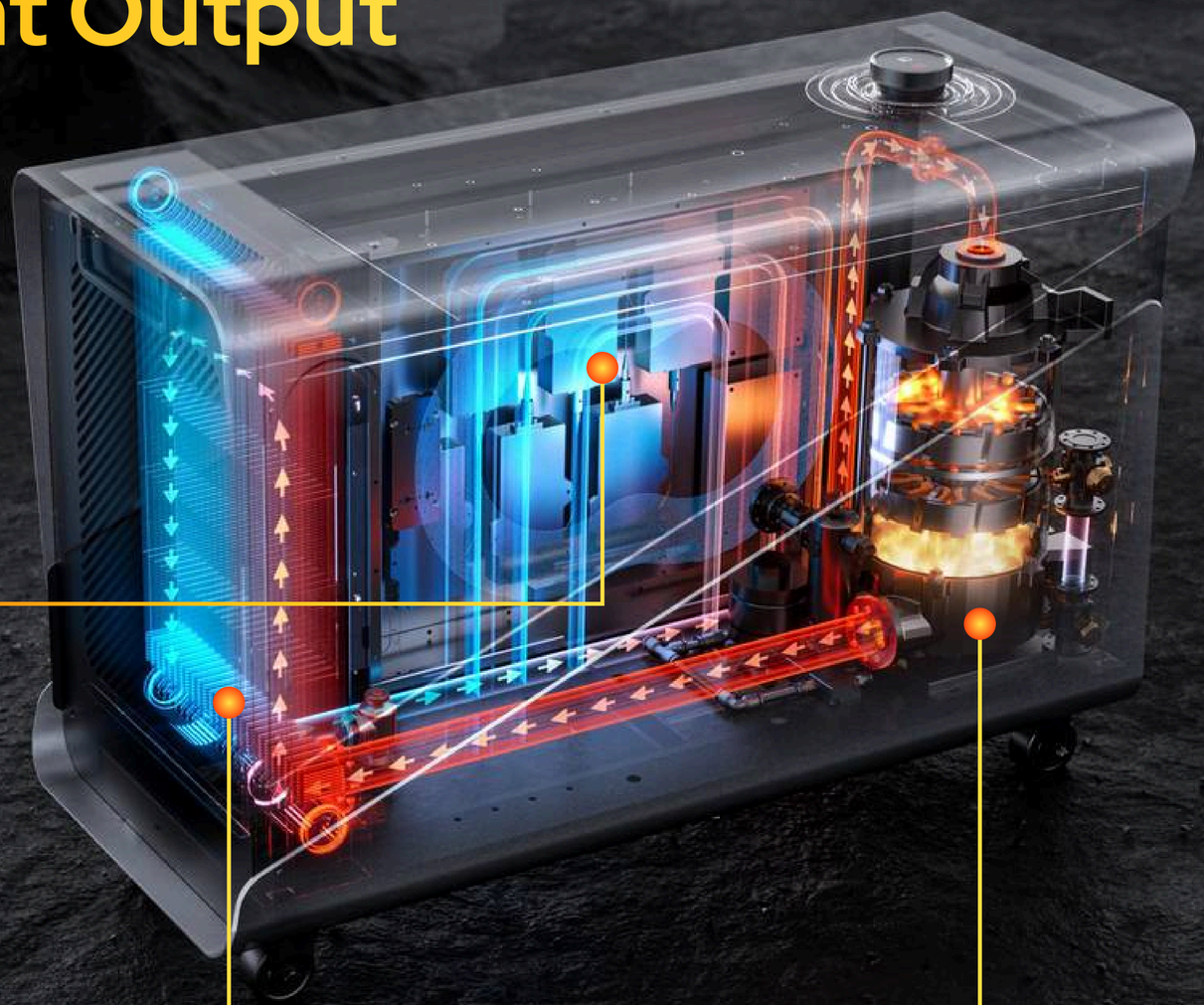
Recognized by the International Laboratory

Tests by the authoritative CNAS indicate that steel welded by the Pro 1500 is strong and deformation-free and features smooth and aesthetically pleasing weld seams. The Pro 1500 has demonstrated superior advantages in bending, hardness, tensile strength, and other aspects with overall welding quality far surpassing other process levels.



Self-Cooling Technology
Continuous Light Output

It utilizes Bodor's patented technology—the Intelligent Circulating Constant Temperature System. Automatic sensing and precise temperature control enable effortless continuous welding.



The self-developed high-converting light source brings lower heat generation and a continuous high-energy beam.

The high-performance condensation cooling device, with an ultra-large fin area and efficient cooling material, continuously dissipates heat, supporting long-lasting high-performance light output.

Using an efficient compressor and intelligent refrigerant control, the core components automatically cool, unaffected by external temperature changes.

One-Click Control
Effortless Mastery

The knob interactive design is elegant and simple, intuitive and easy to understand.



Parameter Adjustment



Processing Sets Saving



Start Processing



High Performance Compact Appearance

Compared to traditional water-cooling welders, the self-cooling handheld laser welder **does not have an internal water tank**, resulting in a smaller size and lighter weight.

This makes it easier for users to handle complex welding tasks in different work locations.



Smaller Size
Larger Potential

The Bodor self-cooling handheld laser welder occupies only

0.24 ㎡ of floor space.
Its iconic small size has great potential due to its intelligent temperature control technology.



More Combinations
More Choices

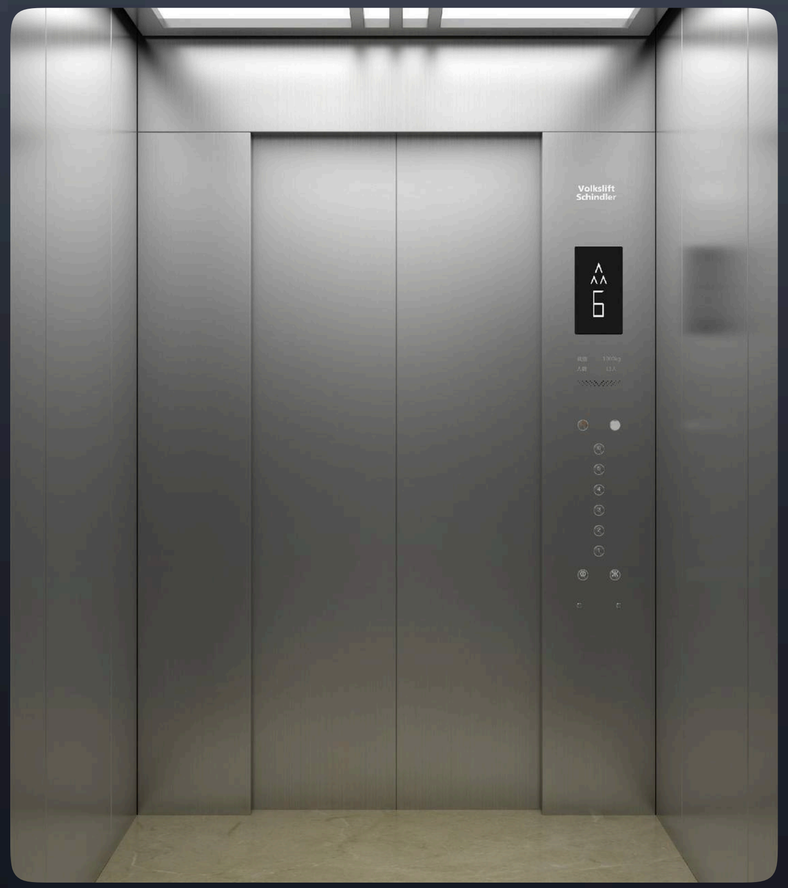
It is equipped with specialized welding/cutting nozzles, suitable for various processing scenarios, meeting diverse customer needs.







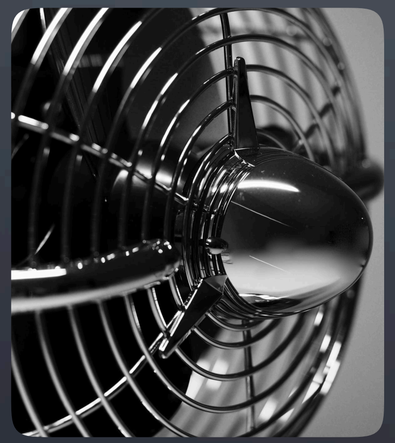




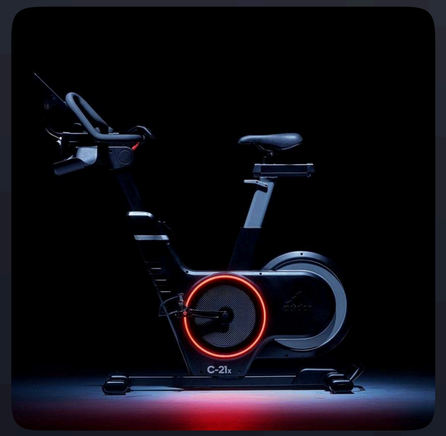
Self-Cooling Handheld Laser Welding Machine

Applicable Industries

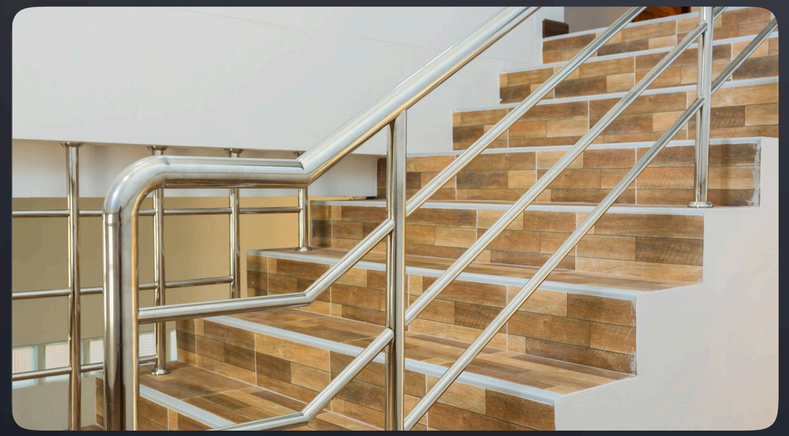
Widely applied in kitchenware, sheet metal processing, stainless steel products, ventilation ducts, shelves, crafts, stair handrails, computer cases, furniture, home appliances and other industries.













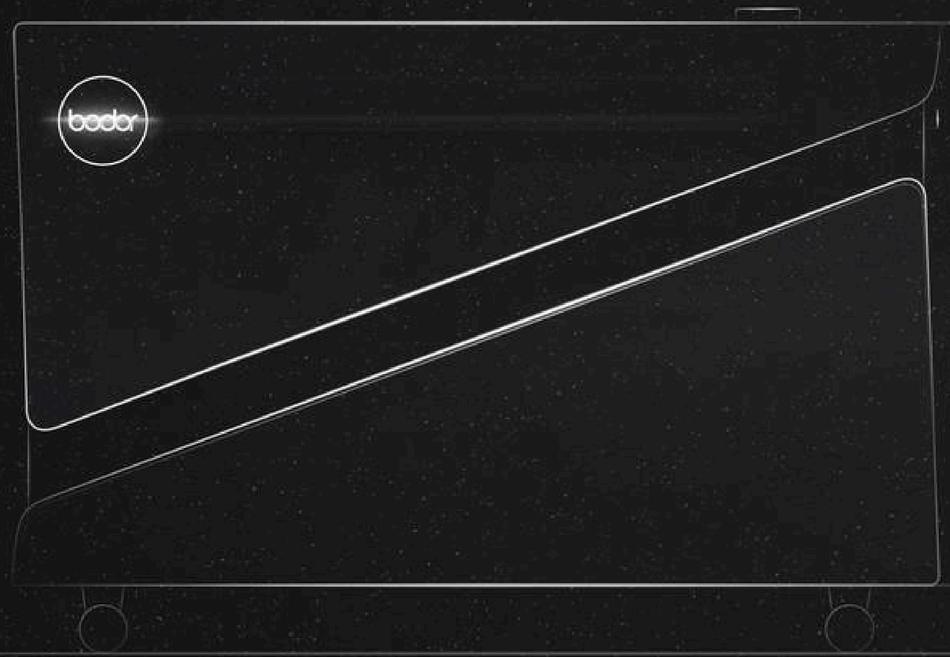
Welder Pro Parameters

	Pro 1500
Output Power	1500W
Length of Optical Fiber Cable	10m±0.5m
Cooling Method	Self-Cooling
Constant Power Continuous Light Output	●
Operating Ambient Temperature Range	-20°c to 60°c
Weight	CE：82kg GB：65kg
Dimensions	850mm×420mm×570mm

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