

Bodor Air Series

Self-Cooling Handheld Laser Welder



Innovative Air Cooling Technology Pioneers Continuous Light Output



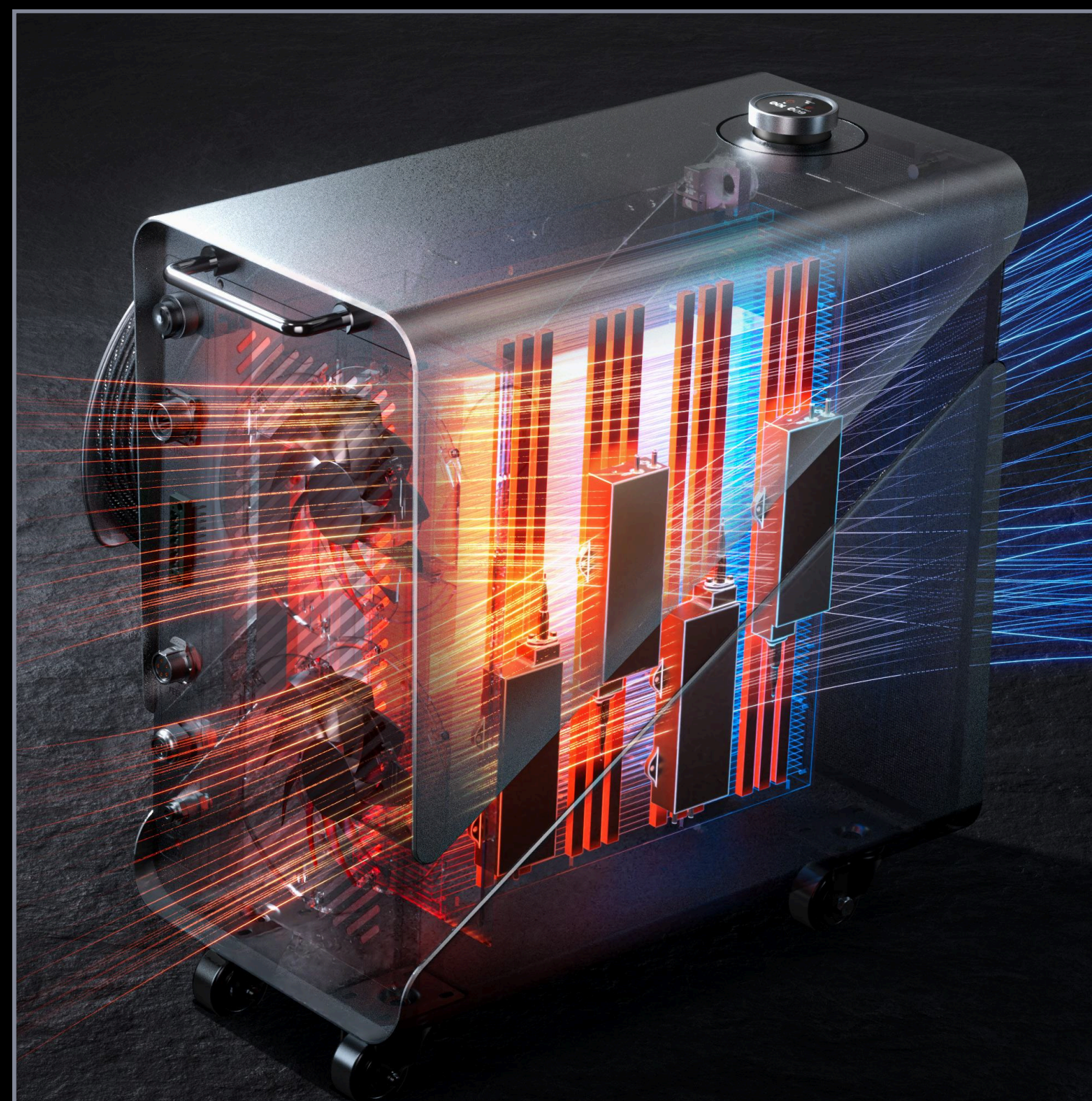
Unafraid of Extreme Temperatures Continuous Light Output

The self-developed intelligent circulation and constant temperature control technology surpasses the limitations of traditional air-cooling welding.
For the first time in the industry, it achieves long-term continuous light output in temperatures ranging from -20°C to 40°C.
Finishing Your Welding Perfectly.



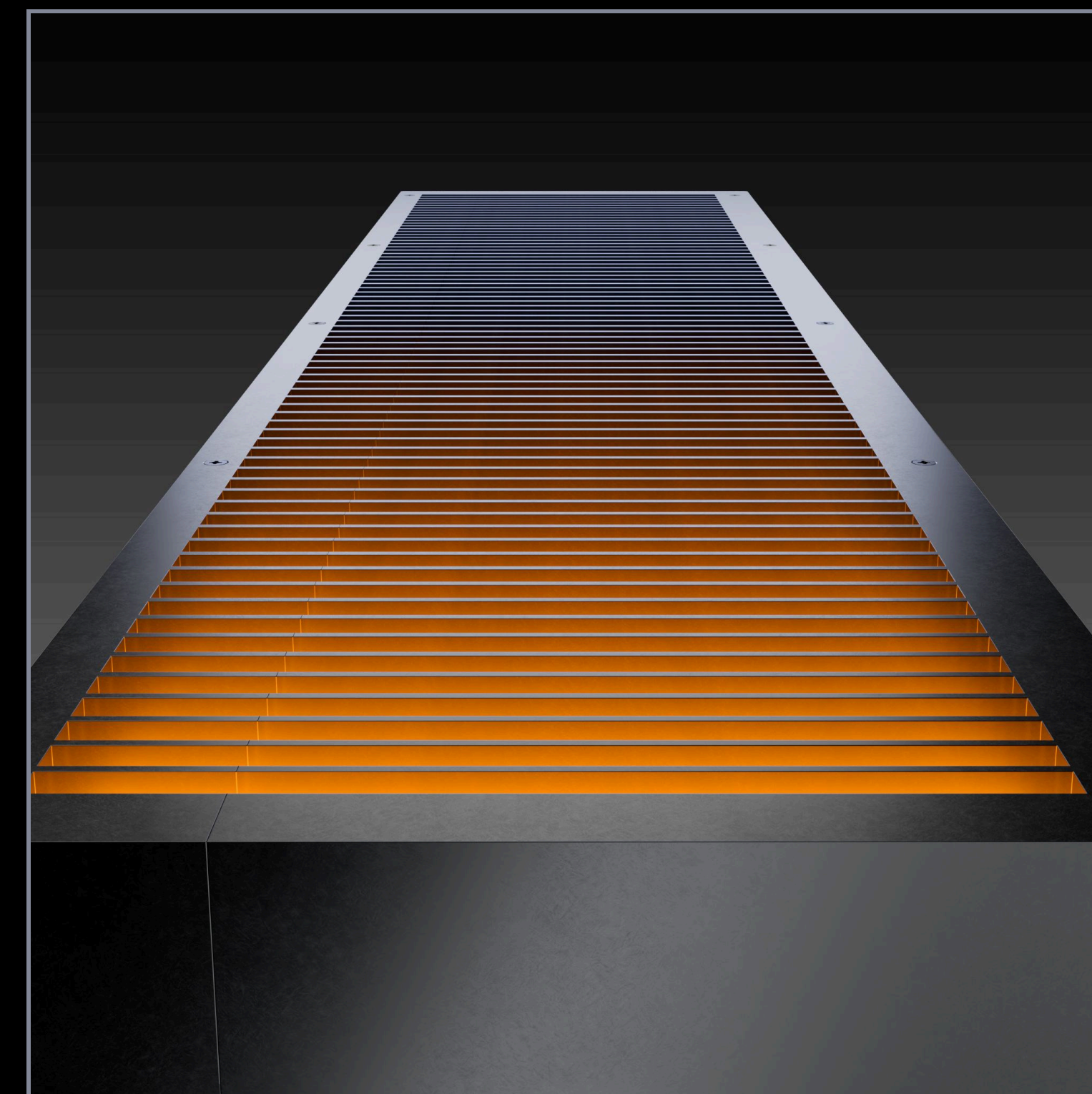
The advanced latent heat technology

Achieves high-speed hot and cold cycle conversion through phase change of the cooling medium.



The independent cooling air duct design

Ensures that there is no overflow of light and heat, achieving quick heat dissipation.



The shovel-tooth fin structure

With better cooling material and wider cooling area, outputs heat in a continuous manner.

Steady Output At -20°C

It has undergone thousands of temperature tests in extreme cold conditions, maintaining output even in severe cold at -20°C in the state-level high and low-temperature laboratory.



GRGTEST 广电计量检测集团股份有限公司 GRG METROLOGY & TEST GROUP CO., LTD.		CALIBRATION CERTIFICATE	
证书编号: Certificate No.	J202310243917A-0001	第 1 页 共 8 页 Page 1 of 8	
委托方 Client	齐鲁中科院物理与工程技术研究院		
联络信息 Contact Inf.	济南市历城区经十东路464号		
仪器名称 Description	步入式高低温湿热循环试验箱		
型号/规格 Model/Type	EWER-B2-55-CP-AR	制造厂 Manufacturer	巨野仪器(北京)有限公司
出厂编号 Serial No.	MEA2307-002	管理号 Asset No.	
接收日期 Receipt Date	2023年11月03日 Y M D	校准日期 Cal. Date	2023年11月04日 Y M D
发布日期 Issued Date	2023年11月04日 Y M D		
批准 Approved by	林春江		
审核 Inspected by	张楠		
校准 Calibrated by	周中超		
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齐鲁中科院物理与工程技术研究院
Institute of Optical Physics and Engineering Technology, Qilu Zhongke

Steady Output At 40 °C

It has undergone thousands of temperature tests in high temperature conditions, maintaining output even at 40°C in the state-level high and low-temperature laboratory.

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中国合格评定国家认可委员会
CALIBRATION
CHINA LABORATORY

校准证书

CALIBRATION CERTIFICATE

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Client 齐鲁中科光物理与工程技术研究院

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仪器名称
Description 步入式高低温湿热循环试验箱

型号/规格
Model/Type EWER-B2-55-CP-AR 制造厂
Manufacturer 巨宝仪器(北京)有限公司

出厂编号
Serial No. MEA2307-002 管理号
Asset No. -----

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齐鲁中科光物理与工程技术研究院

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Recognized by the International Laboratory

Tests by the authoritative CNAS indicate that steel welded by the Air 1200/Air 600 is strong and deformation-free and features smooth and aesthetically pleasing weld seams. The Air 1200/Air 600 has demonstrated superior advantages in bending, hardness, tensile strength, and other aspects.



Self-developed Core Components Ensure Full Power Light Output

Self-developed BodorPower perfectly matches the self-developed BodorThinker control system, achieving full power light output. With the processing of 4mm penetration, the 1200W self-cooling handheld laser welder can replace the 1500W water-cooling laser welder. Better welding results in lower power consumption.



Lightweight But High Performance

The powerful Air 1200/Air 600 reduces its weight by **50%** and its volume by more than twice compared to water-cooling welding machines, showing its formidable strength anytime, anywhere.



One Knob Operation Be an Expert Instantly

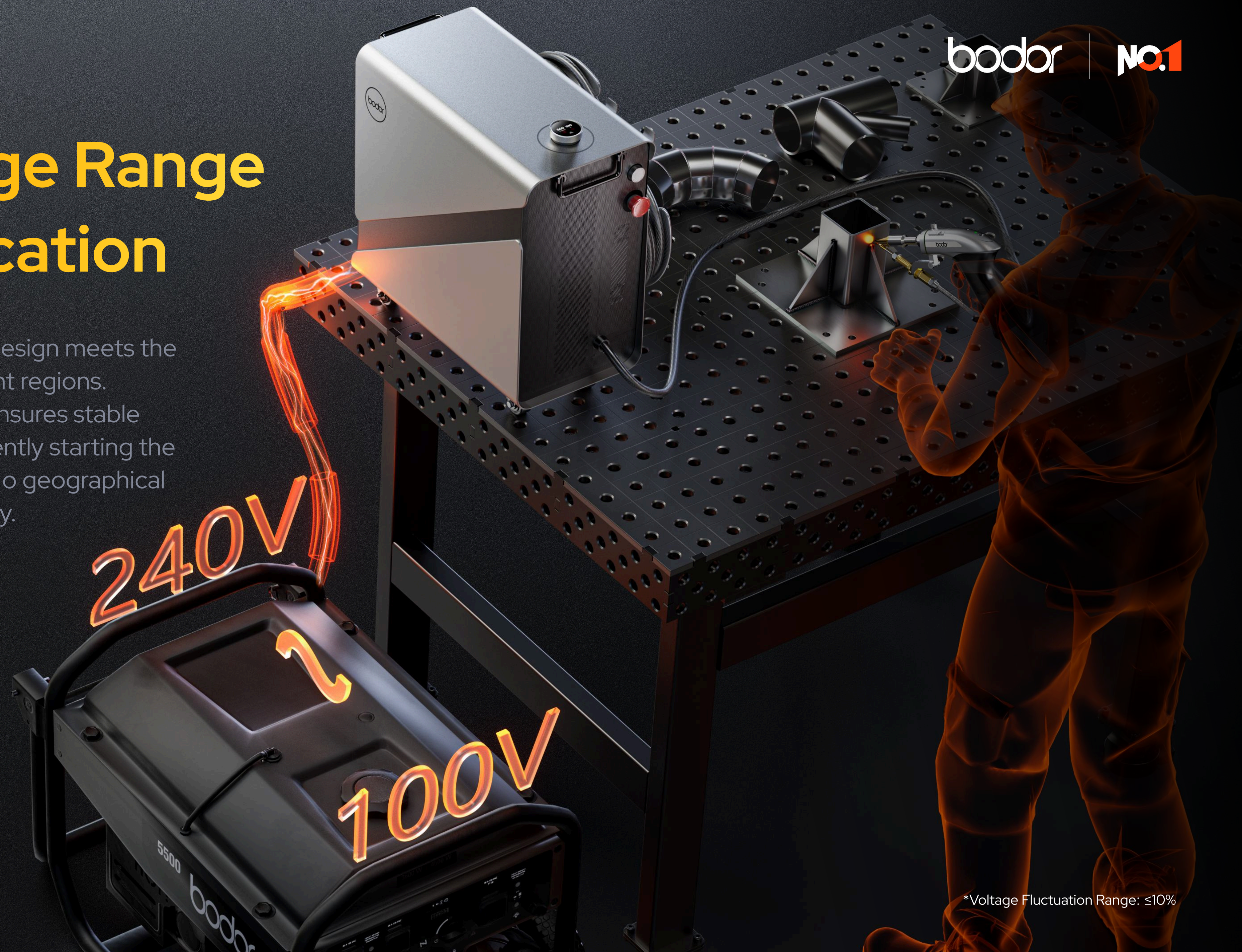
The knob design is intuitive and easy to understand, paired with a comprehensive welding process database. By selecting the material thicknesses and types, you can complete the process setup. The welding effect and quality rival those of experienced welders, allowing you to master it immediately and become an expert quickly.



Optional

Wider Voltage Range Wider Application

The **100-240V** wide voltage design meets the electrical requirements of different regions. Whether indoors or outdoors, it ensures stable equipment power output, confidently starting the "highlight moments" of welding. No geographical limitations and starts to work easily.



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*Voltage Fluctuation Range: $\leq 10\%$

Compact Size Great Potential

The volume of the Air 1200/Air 600 is only

0.11m³. Its iconic small size has great potential due to its intelligent temperature control technology.

0.57m

0.53m

0.38m



Cutting/Cleaning

*At the full power condition,

Max. Cutting Thickness

4mm

Various types of sheets
can be cut with ease.

Always Shining

Max. Cleaning Width

85mm

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

More Combinations More Choices

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

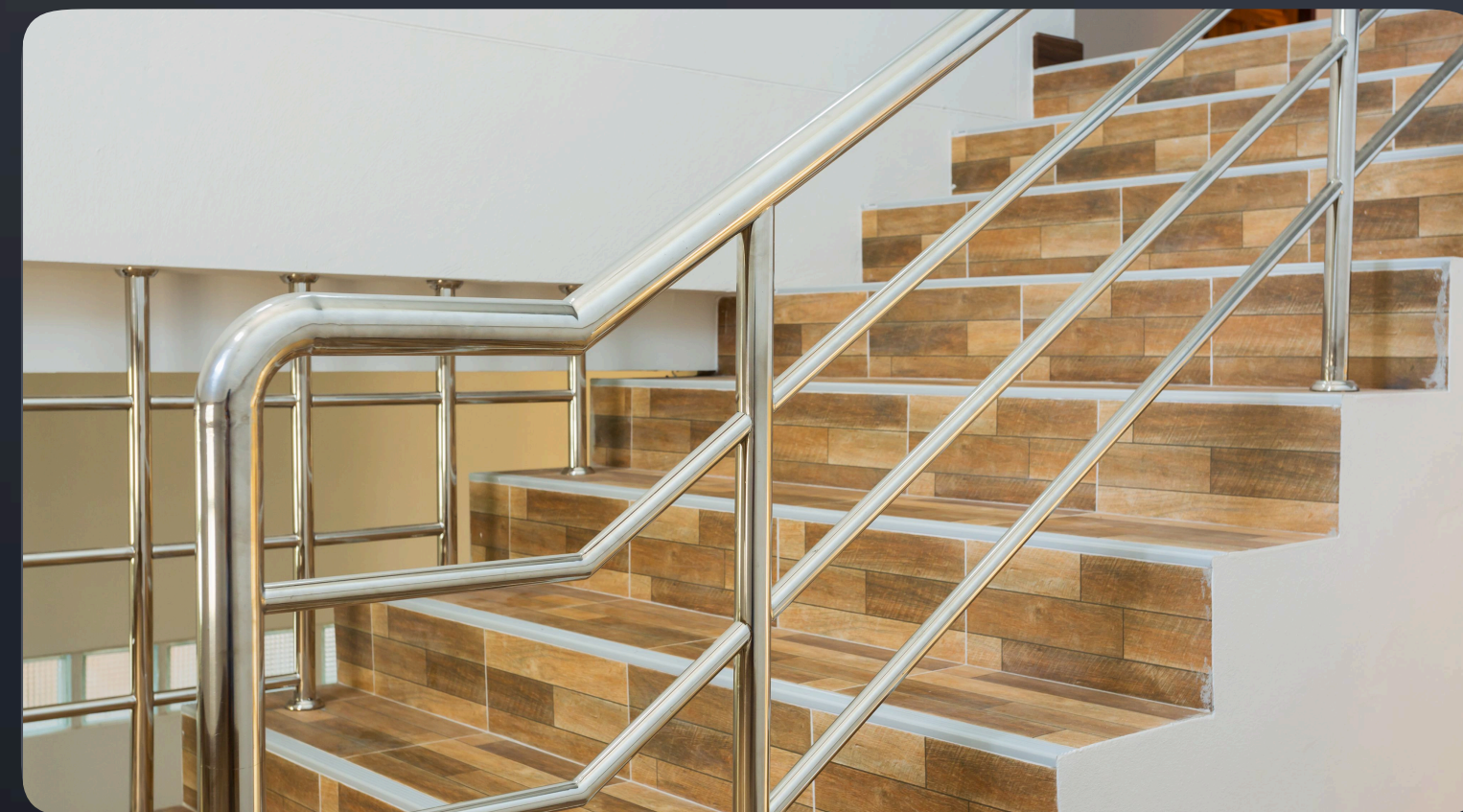
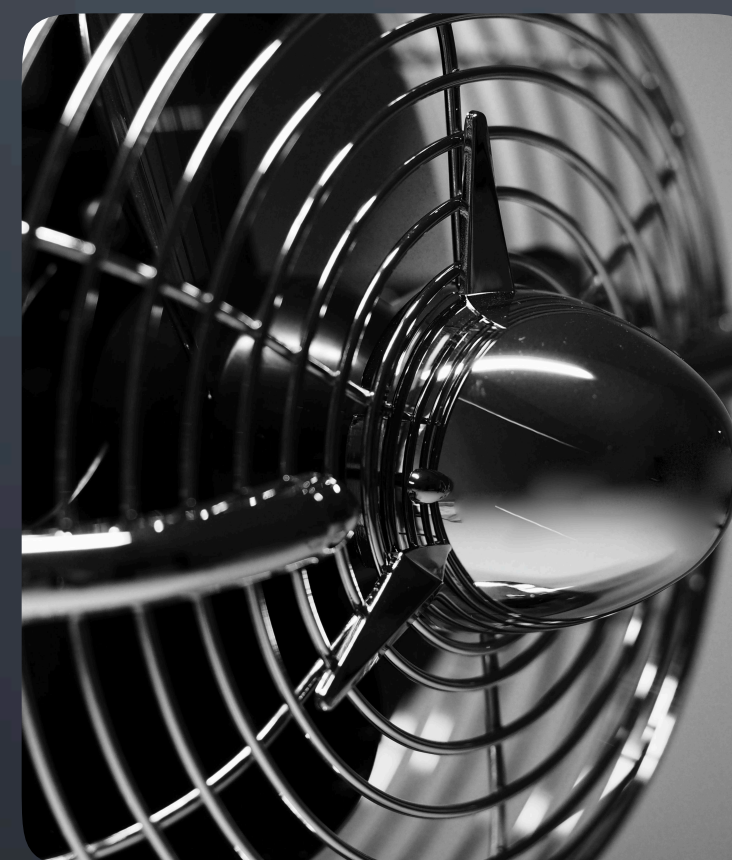




Self-Cooling Handheld Laser Welding Machine

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 功能参数



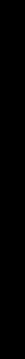
	Air 600	Air 900	Air 1200
Output Power	600W	900W	1200W
Length of Optical Fiber Cable	5m±0.5m	5m±0.5m	5m±0.5m
Cooling Method	Air Cooling	Air Cooling	Air Cooling
Constant Power Continuous Light Output	●	●	●
Operating Ambient Temperature Range	-20℃ 至 40℃	-20℃ 至 40℃	-20℃ 至 40℃
Weight	CE：57kg GB：36kg	GB：39kg	CE：60kg GB：42kg
Dimensions	530mm×380mm×530mm	530mm×380mm×530mm	530mm×380mm×590mm
Maximum Supported Wire Feed Diameter	1.6mm	1.6mm	1.6mm
Maximum Supported Wire Weight	25kg	25kg	25kg
Operating Voltage	100V~240V	200V~240V	200V~240V

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