

Laser Welding, HRLASER or Nothing



A1MD30i

Introducing the future of portable welding technology

01

Cutting-Edge D-Mode – Enhanced Penetration Depth with less energy consumption.

Achieve Up to 5.0mm in Penetration Depth

Leading the Global Market in Optical and Control Technologies for Enhanced Efficiency, Reduced Energy Use, and Superior Weld Depth

1.5x
Performance
Improvement

1.5x
Welding
Depth

02

Unmatched Optical Technology: Setting Unprecedented Lightweight Records.

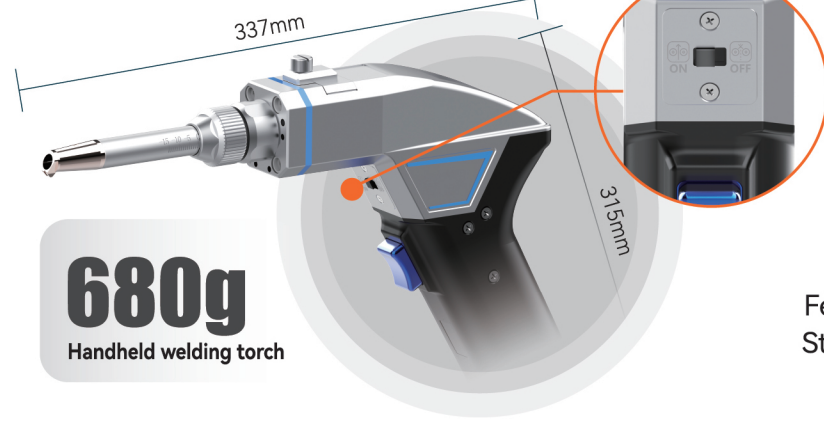
Excellence in Product Design: A Lightweight and Portable Machine Ideal for Mobile Welding. It Features a Light and Flexible Welding Torch, Small Cable Diameter, and Lightweight Construction for Extended Welding Sessions.



03

Multi-functional Welding Torch with One-Click Control

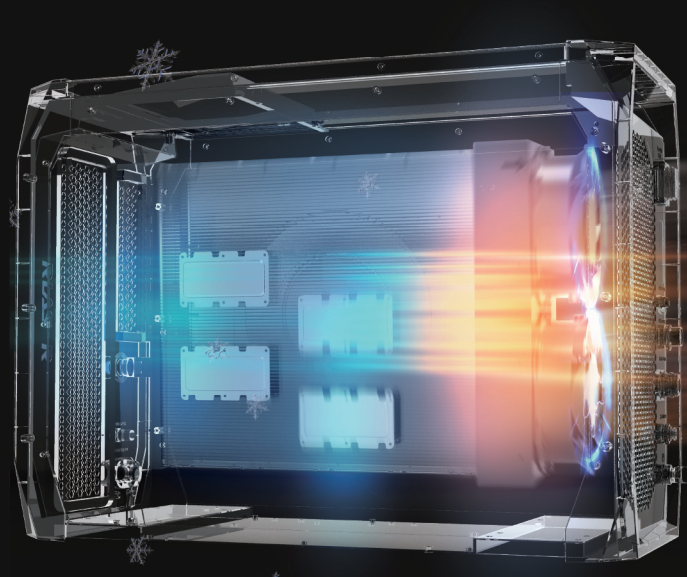
Features an Integrated Single-Hand Wire Stop Switch, Eliminating the Need to Run Back and Forth, Thereby Improving Production Efficiency.



04

Advanced Aerospace Cooling Technology

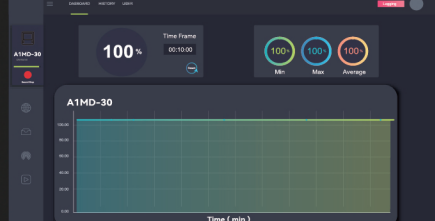
Low Power Consumption, Small Footprint, and Exceptional Reliability.



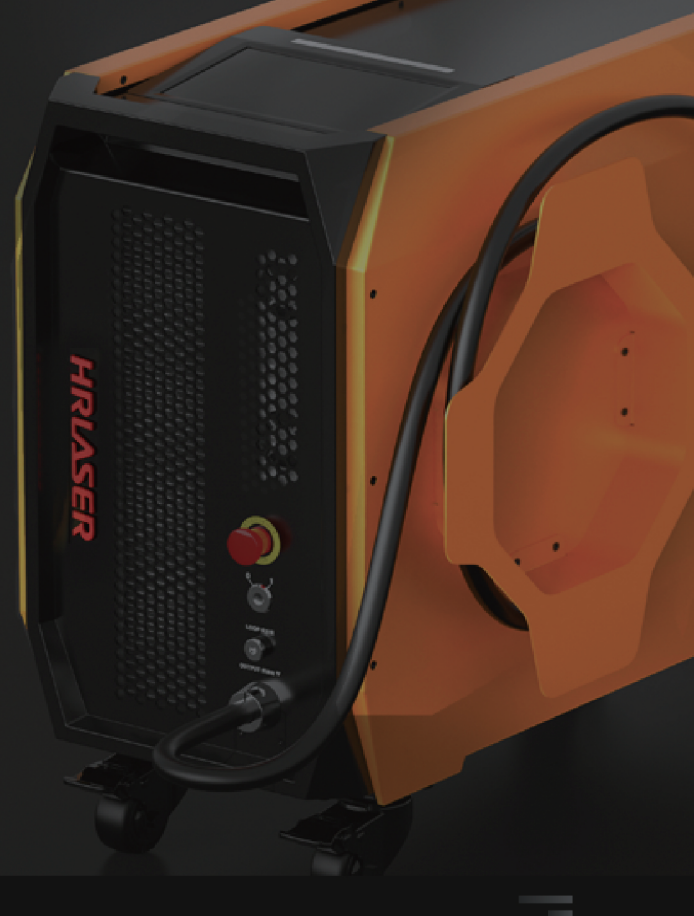
05

Power Precision Control and Calibration Technology for Smooth, Perfect Welding Seams

This technology offers precise control over welding power and automated calibration, with power fluctuation kept under 3%. It ensures a uniformly bright laser beam and ideal linearity, crafting superior weld seams. This technology offers precise control over welding power and automated calibration, with power fluctuation kept under 3%. It ensures a uniformly bright laser beam and ideal linearity, crafting superior weld seams.



Real-Time Monitoring Interface



06

Smart Wire Feeder: Precision Wire Handling with No Sticking

Benefit from Custom R&D Driven by Laser Control Technology, Offering Strong Power and Exact Control of Wire Feed Speed. It Automatically Retracts upon Laser Pause.



A1MD30i Specifications

Product Model	A1MD30i
Machine Weight	< 29kg
Machine Volume	< 0.08m ³
Overall Dimensions	577mm*265mm*512mm
Torch Weight	0.68kg
Working Mode	Continuous / Pulsed "D-Mode"
Laser Wobble	0-4mm
Input Voltage	220VAC
Rated Power	2500W
Operating Temperature	0-40°



Material	Stainless Steel	Carbon Steel	Galvanized Steel	Aluminium
Single-side penetration. Up to:	3.0mm	3.0mm	3.0mm	2.0mm

Welding depth capabilities will vary based on material grade, parameters, and additional requirements.

Product Packaging Contents

Handheld Laser (A1MD30i)	1	Hexagon socket head countersunk head screws (M3*8mm)	12
Soundproof Earplugs	5	Power Cable (5m)	1
Cotton Swab 1	1	Ground Wire (5m)	1
Cotton swab 2	1	Silicone Case	1
Dust Mask	2	Wire Feeder Rack	1
T10 Screwdriver	1	Lock Ring Wrench	1
Safe Return Route	1	Gas Pipe (Φ6, 5M)	1
Reel	1	Second Vent Quick Plug (Φ6 to Φ10)	1
Gun Head Rack	1	Wire Feed Nozzle	1
Armored Cable Rack	1	Protective Lens (Φ20*3)	1
Eye Protection(OD8+)	1	Nozzles (1, 3, A, B and flat nozzle)	1

The images and technical parameters provided in this brochure are for reference purposes only. Should there be any discrepancies or updates, the actual materials will take precedence.