

MA1 SERIES

Handheld Laser Welder



BUILT FOR **SPEED**. ENGINEERED FOR **PRECISION**.

The MA1 Handheld Laser Welder delivers fast, precise, and versatile welding across multiple metals. Its compact, lightweight design ensures easy handling, while the fine 20 μ spot size minimizes heat distortion for clean, consistent welds with little to no finishing. With speeds up to four times faster than traditional methods and enhanced weld strength, the MA1 boosts productivity, reduces waste, and maximizes profitability.

Compact & Portable

Designed for maximum mobility, the MA1 handheld laser welder is perfect for on-site and mobile welding tasks. Models range from just 28kg to 39kg, letting you choose the right balance of weight and performance. With a compact footprint under 0.1m³, it's easy to transport, position, and set up wherever the job takes you.

Reliable Performance

Powered by Maxphotonics' laser technology, the MA1 delivers precise beam control and consistent quality. Each unit is rigorously tested - including a 500-hour temperature cycle and 12 hours of continuous welding at 99% power stability. With a 100,000-hour laser source lifespan and SGS-certified durability, it's built for dependable, long-term performance.

User-Friendly Operation

The MA1's 7" LED touchscreen and multi-language interface make setup quick and simple. Preloaded with 32 welding parameter sets and fully customizable for different materials and thicknesses, it allows for quick setup and optimal result.



Wire feeder unit



Ergonomic Welding Torch

Weighing just 680g, the MA1's handheld torch is built for comfort and control. Its integrated optical design ensures high transmission efficiency and heat output, while the built-in wobble function and multi-point interlock system make all-day welding safer and more consistent.



Welding torch with wire feeder



Handheld welding torch

Wobble Welding + Wire Feed

The MA1's laser control system delivers precise wobble frequency for weld widths up to 4.0mm, producing smooth, symmetrical seams with no post-processing required. A built-in wire feeder supports 1.0mm, 1.2mm, and 1.6mm wire for deeper penetration, gap filling, and flush profiles across carbon steel, stainless steel, aluminum, non-ferrous metals, and other alloys.

ROBUST SAFETY. UNMATCHED PROTECTION.

The MAI Series features advanced, integrated safety systems designed to protect operators throughout every weld. From precision laser control to built-in safeguards, this welder minimizes risks while delivering powerful performance. For optimal protection, it is recommended to use appropriate PPE, such as laser-safe eyewear, to complement the MAI's built-in safety features.



EASY INTEGRATION & OPERATION.

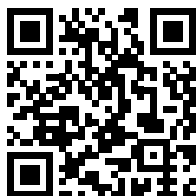


The rear panel is clearly labeled for effortless setup, making the MAI especially user-friendly for beginners. Simply connect a standard 220Vac power plug, attach industrial shielding gas such as argon or nitrogen, and connect the interlock to your workpiece — then you're ready to weld. The 7-inch LED touchscreen offers an intuitive, multi-language interface, allowing you to quickly choose from preset welding parameters or easily input your own custom settings for precise control.

MA1 SERIES SPECIFICATIONS.

Parameters		MA1-ULTRA	MA1-65	MA1-45	MA1-35
Welding Thickness*	Stainless Steel	8.5 mm	6.5 mm	4.5 mm	3.5 mm
	Carbon Steel / Iron	8.5 mm	6.5 mm	4.5 mm	3.5 mm
	Aluminium	6.5 mm	5.5 mm	4 mm	3 mm
	Galvanized Sheet	8.5 mm	3 mm	4.5 mm	3.5 mm
	Copper	3 mm	3 mm	1.5 mm	-
Wobble		0 - 4 mm	0 - 4 mm	0 - 4 mm	0 - 4 mm
Operating Temperature		0 - 40 °C	0 - 40 °C	0 - 40 °C	0 - 40 °C
Weight		39 kg	39 kg	38 kg	28 kg
Dimensions (mm)		667 x 276 x 542	667 x 276 x 542	667 x 276 x 542	576 x 265 x 425
Volume (m³)		< 0.1	< 0.1	< 0.1	0.06

* Data points represent extreme penetration depth based on lab test results; the penetration depth performance will vary according to setup and application.



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LASER MACHINES