

THEO



THEO
MA1
ULTRA
HANDHELD
LASER
WELDER



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BY **MAX** PHOTONICS

THE TIME SAVER

The THEO MA1 ULTRA, is the latest handheld laser welder in the MA1 Series, engineered for professionals who demand extra depth and efficiency. Built with our next-generation laser modules, the MA1 ULTRA delivers deeper welds, reduced heat, and enhanced power—perfect for tackling tougher materials with precision and ease. Most impressively, it saves you time, a lot of time.

WHEN EXTRA DEPTH MATTERS

The MA1 ULTRA maintains a 100% duty cycle on materials up to 4mm, ensuring continuous, reliable performance in the most demanding conditions. For even more challenging jobs, the boost mode delivers ultra-deep penetration of up to 8.5mm, giving you extra power when you need it most.

MORE POWER, LESS COSTS

The upgraded laser modules feature industrial-grade, gold-plated laser pumps, delivering maximum efficiency, longer life, and 10% less energy consumption. Tested for over 3000 hours at full power in extreme conditions, the MA1 ULTRA is built to handle even the toughest jobs.

BUILT TO ENDURE

The new updated T1x wire feeder is optimized for smoother operation and communicates directly with the unit, ensuring seamless performance and precise control. The THEO MA1 ULTRA is the ultimate tool for professionals who need to go deeper, stronger, and more efficiently—built to endure, save energy, and deliver maximum results.



INDUSTRY LEADING PERFORMANCE AND RELIABLE QUALITY

Theo's new MA1 series handheld laser welder is engineered with Maxphotonics' world-class laser technology, ensuring precise laser control and stable beam quality.

SAFETY MEASURES FOR UNMATCHED PROTECTION

The MA1 Series emphasizes safety in all welding tasks with features like a laser status indicator, dual-trigger mechanism, emergency stop button, and a robust interlock system. Additional measures include a key switch and double-channel safety controls for comprehensive protection while maintaining high performance.



MA1 ULTRA		
Weld Penetration	Stainless steel	0.335" / 8.5mm
	Carbon steel / Iron	0.335" / 8.5mm
	Aluminium	0.256" / 6.5mm
	Galvanized sheet	0.335" / 8.5mm
Wobble		0-0.16" / 0-4mm
Operating Temperature (°C)		0~40
Operating Temperature (°F)		0~104
Weight (kg)		39
Weight (pounds)		86
Dimensions (mm*mm*mm)		667*276*542
Dimensions (in*in*in)		26.3*10.9*21.3
Volume (m³)		< 0.1
Volume (cubic feet)		< 3.5

- **Deeper welds**, less heat, lower costs
- **ULTRA-efficient** next-gen laser modules
- **Cuts energy use by another 10%** – more welding, less billing
- Up to **100% duty cycle** for non-stop performance
- **Upgraded wire feeder** for smoother operation
- Tested tough – **over 3,000 hours** in extreme conditions

Disclaimer: All weld penetration depth values and performance specifications stated in this brochure are based on preliminary testing. Final values may vary upon completion of further testing and validation.

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UP TO
10x
FASTER
THAN TIG



**HIGH
QUALITY
WELDS**



**NO POST
PROCESS**

HANDLES VARIOUS
MATERIALS

STAINLESS STEEL

GALVANIZED STEEL

ALUMINIUM

CARBON STEEL

**QUICK
TRAINING**



HOURS

UP TO
80%
**LESS
ENERGY**

TIME SAVER

THEO MA1 HANDHELD LASER WELDER

**THEO
MA1**
HANDHELD
LASER
WELDER



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**TRULY
PORTABLE**

LIGHTWEIGHT
DESIGN



**AIR
COOLED**

NO EXTERNAL
CHILLER



INTUITIVE

TOUCH
CONTROLS

CERTIFIED QUALITY

