



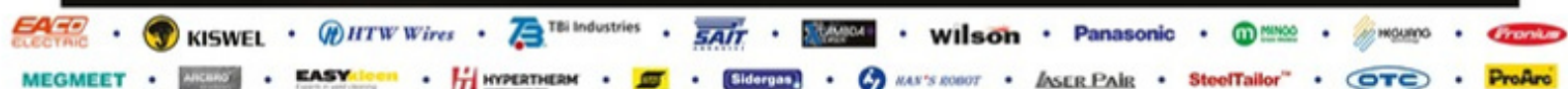
Lambda Handheld Laser Welder 2000 & 3000 Watt





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FOR WELDING SOLUTIONS
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Lambda Handheld Laser Welder 2000 & 3000 Watt with MAX Photonics Fiber Laser Module



Maxphotonics engineer more than fiber lasers.

They engineer industrial excellence.

With over two decades of laser innovation and deep vertical integration, MAX delivers high-performance solutions trusted by 1,000+ customers across 80+ countries. Their mission is clear: to make cutting-edge laser technology accessible, reliable, and locally supported — wherever production happens.

What sets MAX apart isn't just scale, but focus. While their footprint spans the globe, their strength lies in precise, localized service—through over 15 support locations and teams who understand the needs on your factory floor. From standalone lasers, they help industries do more, waste less, and build better.

Established Industry Leader

- Over 20 years of experience in fiber laser R&D and manufacturing, delivering stable, proven solutions.
- Global support network reduces downtime and ensure business continuity.
- Certified to major EU and US standards for guaranteed performance and assured compliance.

Comprehensive Product Portfolio

- Single-source fiber laser solutions simplify your supply chain and ensure consistent, high-quality performance across a wide range of industrial applications.
- Full-spectrum solutions offer everything from compact low-power units to high-power multi-module systems.

Unmatched Reliability

- Vertically integrated production ensures tight control over every component, reducing risk and ensuring consistent quality.
- Engineered for uptime where robust designs and low Mean Time To Failure help you avoid costly production disruptions.
- High-volume manufacturing powers competitive pricing without compromising on quality.



For your safe use, be sure to read the operator's manual carefully before use.

- ***When using this product, a dedicated cabin is required to prevent hazards.***
- ***This system requires a dedicated shield material against wavelength 1080nm.***



- ***This laser product uses Class 4 invisible Laser for processing and a Class 2M visible laser for indicating position.***

Welding Capabilities

100% Penetration on a Butt Weld @ 60cm/min of wire feed speed

	1500watt	2000watt	3000watt
Aluminium	3.0mm	5.0mm	6.0mm
Stainless Steel	3.0mm	5.0mm	6.0mm
CarbonSteel	3.0mm	6.0mm	8.0mm

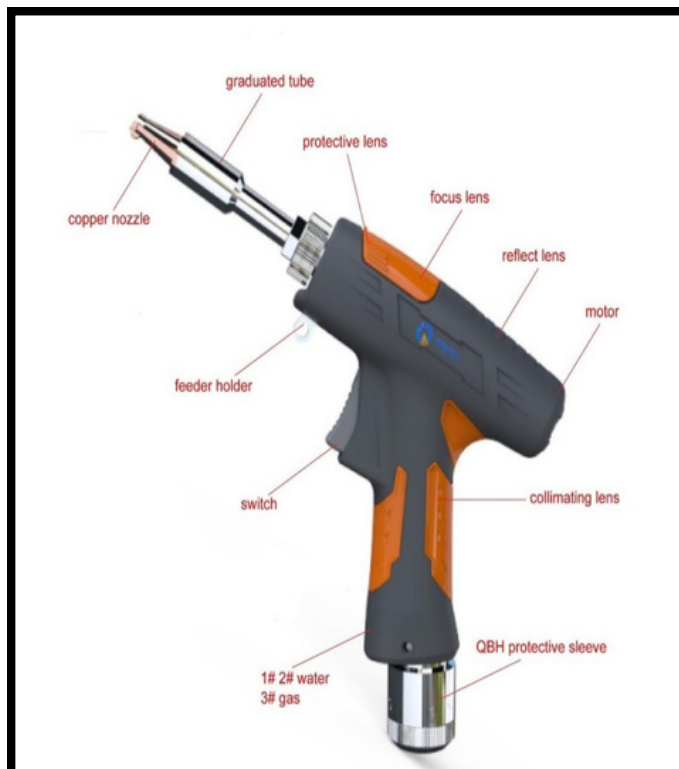
Cutting Capabilities

	1500watt	2000watt	3000watt
Aluminium	3.0mm	3.5mm	4.0mm
Stainless Steel	4.0mm	5.0mm	6.0mm
Carbon Steel	6.0mm	8.0mm	10.0mm

Laser Welding Torch

- Has a single motor, which oscillates the laser beam creating the scan width from 0-8mm with the single wire feeder.

CQ21T 2Kw Laser Welders



CQ23S 3Kw Laser Welders



Touch Screen with user friendly interface

Laser welding system Help

Technology

Scan speed mm/s

Scan width mm

Peak power W

Duty cycle %

Frequency Hz

Process library: monofilament (0~6mm)

Material	thickness mm
carbon steel	
stainless steel	
aluminium	
other	

Silk feeder

Feeding speed cm/min

Weld wire diameter mm

Spot welding type Interval

Spot welding duration ms

Spot welding interval ms

Import Return

Technology Menu

- Scan Speed – mm/s
- Scan Width - mm
- Peak Power (Watts)
- Duty Cycle - %
- Frequency - Hertz (Laser Frequency)

Process Library:

- Select Parent Material, eg: Aluminium, Carbon Steel, Stainless Steel
- Parent Material Thickness in mm eg: 3mm
- Single Wire feed Function selection
- Dual Wire feed Function Selection
- Cutting Function Selection
- Cleaning function Selection

Wire Feeder:

- Feeding Speed – cm/min Weldwire
- Diameter – eg 0.8-1.6mm

Spot Welding:

- Spot Welding Type – Interval or Fishscale (Can replicate TIG welding ripple)
- Spot Welding duration (millisecond) Welding time
- Spot Welding interval (millisecond) Dwell time

Dual Wire Feeder:

- Features: touch screen display
- Four-wheel double drive mechanism for wire feeding
- Wire feeding speed 25-600cm/min (adjustable)
- Supporting continuous wire feeding mode
- Support welding wire diameter: 0.8/1.0/1.2/1.6

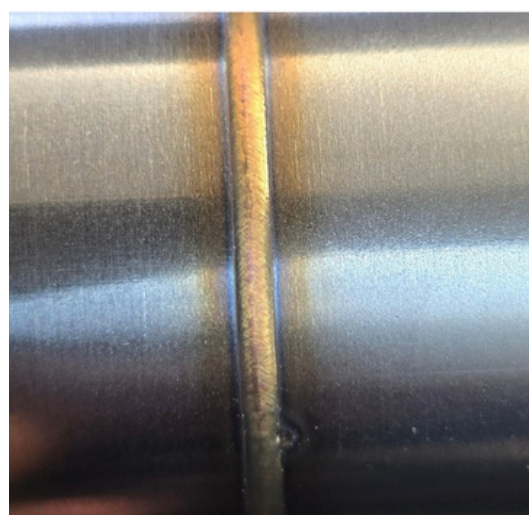


MAX Handheld Laser Welder 2000 Watt Specifications

No.	Characteristics	Test conditions	Min.	Nom.	Max.	Unit
1	Operation mode	CW/Modulated				
2	Polarization	Random				
3	Output power	100% CW		2000		W
4	Tuning range of output power		10		100	%
5	Emission wavelength	100% CW	1070	1080	1090	nm
6	Spectrum width(3dB)	100% CW		4	6	nm
7	Short-term power instability	100% CW>1h		±1	±2	%
8	Long-term power instability	100% CW>24h		±3	±5	%
9	Beam quality BPP	30um-QBH Output			0.7	mm x mrad
10	Laser switching ON time	10%→90%Output		50	100	μs
11	Laser switching OFF time	90%→10%Output		50	100	μs
12	Modulation rate	100%Output			20	KHz
13	Red guide laser power	100%Output	200			μW
14	Feeding fiber cable length	30um-QBH Output	10			m
15	Feeding fiber core size		30			μm
16	Feeding fiber cable bending radius		200			mm
17	Output form	Standard QBH (LOC)				

MAX Handheld Laser Welder 3000 Watt Specifications

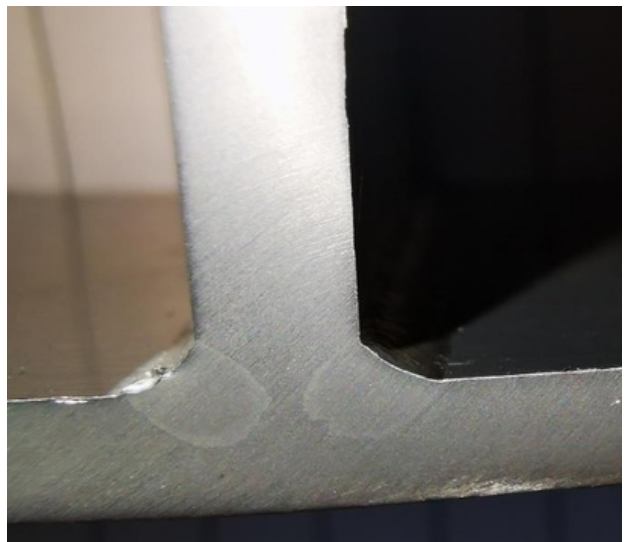
No.	Characteristics	Test conditions	Min.	Nom.	Max.	Unit
1	Operation mode	CW/Modulated				
2	Polarization	Random				
3	Output power	100% CW		3000		W
4	Tuning range of output power		10		100	%
5	Emission wavelength	100% CW	1070	1080	1090	nm
6	Spectrum width(3dB)	100% CW		4	6	nm
7	Short-term power instability	100% CW>1h		±1	±2	%
8	Long-term power instability	100% CW>24h		±3	±5	%
9	Beam quality BPP	50um-QBH Output			1.8	mm x mrad
		100um-QBH Output			3.6	mm x mrad
10	Laser switching ON time	10%→90% Output		50	100	μs
11	Laser switching OFF time	90%→10% Output		50	100	μs
12	Modulation rate	100%Output			20	KHz
13	Red guide laser power	100%Output	200			μW



1.5mm Stainless Steel Tube - No Filler Wire



2.0mm Fillet Weld 1.2mm 5356 wire



3.0mm Alu. Fillet Weld, 1.2mm 5356 wire



2.0mm Aluminium, Butt Weld. 1.2mm 5356 wire



2.0mm Stainless Steel. Butt weld 1.0mm gap, 1.0mm 316L filler wire



2.0mm Stainless Steel. 1.2mm Fillet Weld, 1.0mm 316L filler wire



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