HANDHELD LASER WELDING MACHINE

Up to 4x More Efficient Truly Portable Environmentally Friendly

WWILKINSON STAR WELD STAR

X1 w-1500

MAX

WELD STAR



////

Smallest And lightest

The one and only TRULY Portable System

With 18 years in the laser industry, Maxphotonics has 100% developed and brought to market the lightest and smallest handheld laser welding machine currently available in the world. Thanks to the advanced air cooling system which adapts phase change heat conduction technology, it weighs only **39KG** and the volume is **<0.1m³**.

There is also an integrated cable reel to store the feeder cable and make the machine more compact when being stored or transported.



Product Specification

Nominal Power: 1500W

Peak Power: 2500W

Material	One-Sided Limit Welding Seam
Stainless steel	Up to 4.5mm
Mild steel	Up to 4.5mm
Galvanized sheet	Up to 4.0mm
Aluminum plate	Up to 4.0mm
Brass	Up to 3.0mm

Application Areas

- Maintenance and repair
- Metal processing by industry sheet metal
- Automotive OEM, furniture and white goods
- Construction, construction machinery, aviation, ship building, transportation

542mm





////

Excellent welding performance and energy efficiency



- Up to 4 times faster than traditional welding methods which helps our customers to save 80% to 90% of electrical energy, greatly improve production efficiency and reduce overall operational cost.
- State of the art laser control system brings high beam stability, consistent and neat welding seam, improved welding strength and minimum deformation.
- Cooling system adopts phase change heat conduction technology with powerful self-adaptive fans, which ensures long-term stability.

IIII Application Materials

Galvanized	Carbon steel	Stainless steel	Aluminum	Copper
	We	Traditional elding method	Weld Star Handheld laser welding machine	
Physical hazard	Arc rac	liation and smoke	Low radiation, environmentally friendly	
Welding speed	Slov	w and inefficient	Up to 4 times faster than TIG and MIG	
	Welding sea	im is rough and irregular,	Beautiful, perfect, neat welding seam,	
Welding quality	nee	d to be polished	deep molten pool and high strength	
Learning difficulty		High	Low	
Heat affected zone		Large	Small	
Bending deformation		High	Low	
Welding seam damage	With air hol	es, easy to weld through	Uniform molten pool and good consistency	
Welding materials	Limited by	changes in consumables	Wide range of r	natoriale

The lightest and smallest handheld welding torch in the industry



The Weld Star handheld welding torch weighs **only 0.68kg**, is compact in size and has been ergonomically designed. It has been proven to be the most comfortable, stable, and easy-to-operate welding torch of its kind. In addition, multiple safety precautions allow for continuous and safe welding operations throughout the day.



Simple and easy to use

- Embedded with 24 pre-set modes for various materials
- Only 30 minutes training needed for beginners to operate the welding system
- Beginners can use the pre-set modes to achieve the same high quality, consistent and neat welding seams like experienced operators.
- Pre-set modes include wobble parameters, suitable for wider welding seams and high tolerance for workpiece assembly fit up.
- For advanced operators, additional process modes for different materials and thickness combinations can be created and stored.



Product parameters

Туре	Parameters		
Size	667mm*276mm*542mm		
Weight	39kg		
Volume	<0.1m ³		
Wavelength (nm)	1080nm		
Operating mode	Continuous and Pulsed		
Output power	1500W		
Input voltage	220VAC/50Hz/60Hz		
Wobble	0-4mm		
Wobble frequency	0-300Hz		
Preset process parameters	32 groups		
Average load power	6000W/4500W		

Wire Feed Unit Specification

5/15 Kg - 0.6/0.8/1.0/1.2

Packing list

1	Handheld laser welding (includ-
	ing 5.6 meters fiber cable) / 1 set
2	Welding torch/1
	Wire feeder (individually pack-
2	aged) including wire feeding
3	tube and wire feeding wheel/1
	set
4	Power cable (10 meters) / 1
5	Ground wire (10 meters) / 1
6	Protective glasses (support
	0D6+) / 3 pairs
7	Hanging welding torch frame
	(including 4pcs hexagonal
	countersunk head screws)/1 set
8	Hanging armored cable frame
	(including 8pcs hexagonal
	countersunk head screws)/1 set
0	Nozzles (1, 3, A, B and flat
9	nozzles) / 2 sets

10 Protective lens $(\phi 20^*3)$ /5 pieces **11** Lock ring wrench/1 pcs Wire nozzle assembly (0.8/1.0/1.2/1.6mm wire feed 12 nozzle and wire feed frame)/1 set Welding torch fixture (collimat-13 ing focusing lens installation and removal)/1 set Cotton swabs 1 (25 pieces)/1 14 pack Cotton swabs 2 (25 pieces)/1 15 pack Noise-isolating earplugs 16 (Brand: 3M) / 5 pairs Dust mask (premium dust-17 proof) / 2 pairs Screwdriver (hexagon socket) / 18 1 pcs

WILKINSON STAR





WELD STAR

Exclusive Distributor UK & Ireland

Contact Details

Tom Smith 0161 728 7901 07834 177518 tom.smith@wilkinsonstar.com

Wilkinson Star Ltd, Shield Drive, Wardley Industrial Estate, Worsley, Manchester, M28 2WD

0161 793 8127

wilkinsonstar247.com

Demonstrations are available at our Manchester Training Academy Contact Tom to Book



Hand Held Laser Welding Enclosure - 3m x 2m

Specifically designed for use with the new generation of handheld laser welders, and complies to IEC 60825-4 standards.

- Integrates with the built in safety systems of your laser welding equipment.
- Compact 3.1m X 2.1m Footprint—Perfect for processing small fabrications and components.
- 1.3m sliding door, with integrated labyrinth flash seals to prevent accidental viewing of laser radiation.
- Fully integrated "plug and play" electronics including door interlock, power distribution, cable trunking and LED lighting.
- Modular design, allowing for interchangeable positions and future expansion capabilities.

