

HERTZ

Handheld Fiber Laser Welding Machine

HERTZ

The handheld laser welding system combines the fundamental qualities of an ultra-portable device with uncompromising performance with our new design. This results in an extremely productive and powerful system. It is a perfect integration of SLTL Group's laser welding technology and reliable portable structure. The system is a fit for complex as well as large and small components.

COMPACT. PORTABLE. USER-FRIENDLY



Speed
With Accuracy



User Friendly
HMI



Bi-Metal
Welding



Minimum
HAZ



Eliminate After
Processes



Minimal
Deformation

WATER COOLED HANDHELD LASER WELDING

	Units	1500	2000
Specification & Power	Watts		
Wave Length	nm	1080 ± 10	
Mode of Operation		Continuous Wave (CW)	
Output Power Tunability	%	10-100	
Modulation Frequency		0-5000 Hz	
Power Supply		230 ± 5% VAC, 1 Ø, 50/60 Hz	
Overall Size (L × B × H) (Approx)	mm	1300 × 685 × 1200	
Weight (Approx)	kg	150	
Maximum Power Consumption	kW	5.5	
Position Indication		Red Light	
Welding Nozzle Wire Length	mtr	10 mtr	
Operation Temperature	°C	10 to 50	
*Welding Thickness	mm	Mild Steel - 4 Stainless Steel - 4 Aluminum - 2 Aluminum Alloy - 2 Galvanized Iron - 2	

ACTIVE AIR COOLED HANDHELD LASER WELDING

	Unit	
Specification & Power	Watts	2000
Wave Length	nm	1070 ± 10
Mode of Operation		Continuous / modulation
Output Power Tunability	%	10-100
Modulation Frequency		0-5000 Hz
Power Supply		230 ± 5% VAC, 1 Ø, 50/60 Hz
Overall Size (L × B × H) (Approx)	mm	650 × 300 × 621
Weight (Approx)	kg	70
Maximum Power Consumption	kW	6.5
Position Indication		Red Light
Welding Nozzle Wire Length	mtr	10
Operation Temperature	°C	10 to 50
*Welding Thickness	mm	Mild Steel - 4 Stainless Steel - 4 Aluminum - 2 Aluminum Alloy - 2 Galvanized Iron - 2

*The table above indicates a thickness with a maximum penetration capacity of 2000 Watts.

TYPES OF JOINTS – WELDING AT ANY ANGLE

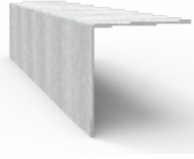
Welding head can weld workpieces at any angle, suitable for various complex welds and various equipment



Butt Joint



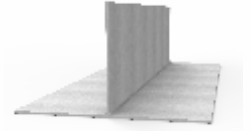
Lap Joint



Corner Joint



Edge Joint



Tee Joint

FEATURES

- 2x to 10x faster than traditional welding methods
- Power packed portable system allowing outdoor welding
- Higher bending strength provides leak proof welding
- Infrared positioning for utmost precision
- Access to complex positions

OPTIONAL ACCESSORIES

Wire feeder | Safety Goggles | Welding Gloves

ONE MACHINE, MULTIPLE APPLICATIONS



FUSION LASER WELDING

Fusion welding delivers error-free joints, seamlessly welding identical or dissimilar metals without leaving burn marks. It ensures precise, high-strength welds by fusing metals in narrow tolerance gaps.



FILLER LASER WELDING

Utilizing filler welding with metals of the same properties ensures effective joining of base metals with greater thickness and medium gaps. This technique enhances the strength of laser welds, providing robust and reliable connections.



LASER CUTTING

Achieve seamless cutting with full flexibility and ease. Handheld units enhance productivity through high-speed performance. Their portability allows versatile applications across various industrial settings, ensuring efficient on-the-go cutting capabilities.



LASER CLEANING

High-power laser cleaning achieves precise and efficient removal of contamination and deformations from surfaces with minimal alteration. This advanced technology accurately eliminates rust, oil, paint, grease, color, and other particles, ensuring thorough and effective cleaning.

INDUSTRIES

**SHEET METAL
FABRICATION**

**AUTOMOBILES &
AUTO ANCILLARIES**

**UTENSILS &
KITCHENWARE**

**VENDING
MACHINE**

FURNITURE

**ELECTRIC PANEL
MANUFACTURING**

**ELEVATOR/ESCALATOR
MANUFACTURING**

DUCTS/HVAC

**INTERIOR
CONSTRUCTION**

**METAL SIGNAGE
INDUSTRY**

OVERVIEW

EXPERTISE **35+** YEARS SINCE 1989

25,000+ INSTALLATIONS

6 MFG. PLANTS LAYING OVER **54,000** SQ. MTR.

ISO 9001 - 2015

10% YEARLY R&D

30+ PATENTS

45+ COUNTRIES

35+ AWARDS

LASER CUTTING
MARKING
WELDING
HARDENING & CLADDING
MICRO MACHINING
TUBE / PIPE CUTTING
BENDING
SHEET STORAGE
LOADING - UNLOADING
ANNEALING
CLEANING
AUTOMATIONS

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WE CARE

MTTR
**93% CALLS
< 5 HRS**

MTBF
**6000 HRS BEST
IN CLASS**

ONLINE SERVICE
RESPONSE **100%
CALLS < 8 MIN**

PHYSICAL RESPONSE
97.5% < 6 HRS

**60% REPEAT
CUSTOMERS**

**98.7% DELIGHTED
CUSTOMERS**

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