

## Lase One Welder

The Lase One Welder is the ideal solution for precision micro welding of tool steel, copper, and aluminum. This compact, efficient, and versatile system delivers controlled welding intensity across various applications and materials. Combining the precision of pulsed YAG laser welders with user-friendly operation and cost-effectiveness. Lase One is available as a complete kit including the generator, microscope with clamping stand, torch, clamping ground and L1TM KIT. Flowmeter Regulator and Electrode Sharpener sold separately.

### Features

- Plasma arc spot welding (0 to 300 joules)
- No overheating/deformations of the welding area
- Weld time adjustable to the tenth of a millisecond (pulse duration 0.1 to 10 ms)
- Reliable and user-friendly
- 9 adjustable programs
- Welding of ferrous and non-ferrous metals
- Economical and safe
- Welding power and weld time independently adjustable
- 230V/50 Hz/60 Hz
- Pulse duration - 0.1ms to 10ms
- Cooling - Forced air
- Gas - 100% Argon

Item Number	Kit Option	Joules
L1-200I	Complete Kit	1-200 Joules
L1-250I	Complete Kit	1-250 Joules
L1-300I	Complete Kit	1-300 Joules



\*Items pictured not to scale

## Lase One Accessory Kit

Accessory kit for either 1.5m or 3.0m length cables on the torch, foot pedal and clamp style ground. Kit includes torch, foot pedal and ground - clamping style.

### Item Number

- KIT ACC L1: 1.5m long
- KIT ACCXL L1: 3.0m long



## Lase One Collect Body

Collet Body for the torch comes in 4 diameters to accommodate electrodes of .5mm, 1.0mm, 1.6mm and 2.4mm

### Item Number

- L1-SC-05: 0.5mm diameter
- L1-SC-10: 1.0mm diameter
- L1-SC-16: 1.6mm diameter
- L1-SC-24: 2.4mm diameter



## Lase One Electrode Housing Gripper

Electrode Housing Gripper for the micro welding torch is available in four diameters to accommodate the electrode diameters of 0.5mm, 1.0mm, 1.6mm and 2.4mm. For electrode diameters - 0.5mm, 1.0mm, 1.6mm and 2.4mm

### Item Number

- L1-PE-05: for 0.5mm diameter electrode
- L1-PE-10: for 1.0mm diameter electrode
- L1-PE-16: for 1.6mm diameter electrode
- L1-PE-24: for 2.4mm diameter electrode



## Lase One Power Converter

The LT-3000 provides heavy duty step up or step down operation to convert 110/117/120V AC to 220/230/240V AC or 220/230/240V AC to 110/117/120V AC.

### Item Number

- LT-3000



\*Items pictured not to scale

## Lase One Electrode Positioning Tool

Electrode Positioning Tool to adjust and fix the proper electrode length out of the neck support of the micro welding torch. The electrode length can be adjusted using a screw system in the positioning tool. Adjustable to set electrode lengths. Works with all Lase One electrode diameters.

### Item Number

- L1-POSI



## Lase One Foot Switch Pedal

Foot Switch Pedal is an alternative to control the welding process. Available in two lengths depending on your welding environment.

### Item Number

- SST-PDC-20: 2m length
- SST-PDC-40: 4m length



## Lase One Ground Cable

The ground cable is supplied with a strong clamp for a secure ground connection for welding both ferrous and non-ferrous metals. Available in two lengths.

### Item Number

- L1-CM-20: 2m long
- L1-CM-40: 4m long
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\*Items pictured not to scale

## Lase One Magnetic Ground Cable

The magnetic ground cable is supplied with a strong magnet for a convenient and secure ground connection. The perfect option to ground the Lase One welder when a clamping surface is not available. Offered in two lengths.

### Item Number

- L1-CMMG 20: 2m long
- L1 CMMG 40: 4m long



## Lase One Electrode Set

The electrode set is available in 2 lengths, 70mm and 105mm. Each set has 10 electrodes.

### Item Number

- ELA20-0570-10: 0.5mm diameter, 70mm long
- ELA20-1070-10: 1.0mm diameter, 70mm long
- ELA20-1670-10: 1.6mm diameter, 70mm long
- ELA20-2470-10: 2.4mm diameter, 70mm long
- ELA20-10105-10: 1.0mm diameter, 105mm long
- ELA20-16105-10: 1.6mm diameter, 105mm long



## Lase One Microwelding Torch

Microwelding Torch for the Lase One Microwelding generators. Available in either 1.5 or 3.0 meters and accommodates electrode diameters of 1.0mm, 1.6mm and 2.4mm.

### Item Number

- L1-TM-15: 1.5m long
- L1-TM-30: 3.0m long



\*Items pictured not to scale

## Lase One Microwelding Torch Accessories Kit

Microwelding Torch Accessories Kit for standard and long nozzles.

Standard Kit includes - one positioning tool; one of each electrode 1.0mm, 1.6mm, 2.4mm diameter; 3 electrode holding grippers, 1.0mm, 1.6mm, 2.4mm; 5A fuse

Long Kit includes - one positioning tool; one long nozzle 2.5mm, one long nozzle 4.5mm; 5 electrodes 1.0 x 105 mm, 5 electrodes 1.6 x 105 mm

### Item Number

- L1-TM-KIT: Standard kit
- L1-DEL-KIT: Long kit



## Lase One Microwelding Torch Nozzle

Microwelding Torch Nozzle is the replacement nozzle for the L1-TM-15 or L1-TM-30

### Item Number

- L1-BU



## Lase One Stereo Binocular Microscope

The Stereo Binocular Microscope with shutter generator unit driven plus adjustable magnification from x4 to x20. Cold lighting ring with 60 white light LEDs make for strong and focused illumination that is shadow free. The 60 lights are divided into 4 individual zones. Each zone has independent ON/OFF control as well as brightness control. Included with the microscope is one set of 2 ergonomic foam wrist/hand/arm supports. Expand the range of the standard microscope with an extension arm and extension tubes (sold separately).

### Item Number

- BINO V2



\*Items pictured not to scale

## Lase One LED Illuminated Ring

LED Illuminated Ring with dimmer. The cold lighting ring with 60 white light LED bulbs produce shadow free illumination. The 60 lights are divided into 4 individual dimmable zones. Adaptable on Stereo Microscope L1-BINO.

### Item Number

- BINO KIT RLE



## Lase One Welding Mask

The welding mask provides x2.5 magnification. The mask is Liquid Crystal Light Valve (LCD) shutter generator unit driven. Use with the coupling cable (L1-CCSM) to simultaneously view while someone is welding with the microscope.

### Item Number

- L1-MS



## Lase One Coupling Cable

The coupling cable allows for simultaneous use of both the stereo microscope and welding mask. The length of the coupling cable is 4cm.

### Item Number

- L1-CCSM: 1.57in or 4cm long



\*Items pictured not to scale



## Lase One Mobile Cart

The Lase One mobile cart uses an electric cylinder to raise and lower the Lase One welders. The carts are controlled by remote control and can store a bottle of argon gas for easy transportation.

Power Input - 230V

Dimensions - 23" x 53"

### Item Number

- CART



## Lase One Cleaning Pen

Cleaning Pen for micro welding. Constructed of fiberglass for strength and durability. Each cleaning pen comes with one refill. Additional refills sold separately in packs of 10.

### Item Number

- SST-CN: Pen
- CN-FIB-X12: Refill



## Lase One Manual Wire Feeder

The manual wire feeder supports micro welding wire from 0.2mm to 0.6mm diameters. The manual feed lets you work with precision using small diameter welding wire. Supports 0.2mm to 0.6mm diameter wire.

### Item Number

- SST-GF



## Lase One Electrode Sharpener

The electrode sharpener is the portable choice to properly grind Lase One electrodes. The grinder is equipped with an integrated dust filter. Easy to use, combined electrode positioning and locking device. Adjustable grinding angles from 15° up to 180°. With the 650 watt motor generating 28,000 rpm, the electrodes will be ground to their desired shape in seconds. Requires 110/230V - 50/60Hz input power. Replacement grinding discs are sold in packs of 2.

### Item Number

- L1-AF02: Sharpener
- L1-DRAF: Replacement discs

\*Items pictured not to scale



## Lase One Flowmeter Regulator

The Flowmeter Regulator incorporates both flowmeter and regulator into a compact unit. Using the precise adjustment knob, control Argon flow rates from 5 to 30 liters per minute for the Lase One micro welder. Comes with 2 meters of clear hose.

Included: Regulator and flowmeter into one compact unit, precise adjustment knob, security valve, valve box, 5 to 30L/min, Argon/CO2 hose length - 2 meters.

### Item Number

- L1-DCAUS



## Lase One Stereo Binocular Microscope Accessories

The Lase One Stereo Binocular Microscope Accessories consist of an extension arm and tubes to extend the reach of the microscope from either a clamp or magnetic mount. Utilize the magnetic base to conveniently move the microscope to various welding locations.

### Item Number

- BINO-EXT-A21: Arm extension, 150mm long
- BINO-EXT-T15: Tube extension, 150mm long
- BINO-EXT-T30: Tube extension, 300mm long
- BINO-BM7: Magnetic base
- BINO PSB: Support plate

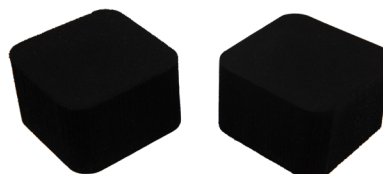


## Lase One Foam Wrist Rest

The foam wrist rests consists of a set of 2 supports. They are ergonomically designed to perfectly position your arms, wrists and hands for meticulous welding applications. Material - foam, sold in pairs.

### Item Number

- SST-MSP



\*Items pictured not to scale