

ElettroLaser MS-3.5

35, 80, 165 Joules

The MS-3.5 is a manual welding system, ideal for goldsmiths and dental technicians who need precision and accuracy for quick welding and finishing operations. MS-3.5, small and ultra-compact, with reduced consumption, but with the peculiarities of the classic bench welder.

It is possible to weld: gold, platinum, chrome cobalt, steel, palladium, silver with and without the addition of wire.



7" Touchscreen



Motorized Spot



LED Lighting



Features

- * 7" colour touch screen display
- * 100 programmable memories
- * High brightness shutter LCD
- * Easily accessible controls
- * Powerful led lights
- * Low weight and dimensions
- * Argon gas inlet
- * Water and air cooling
- * USB interface (optional)

Specifications	MS-3.5-35	MS-3.5-80	MS-3.5-165
Laser source and wavelength	Nd: YAG 1064 nm		
Average power	30 W	30 W	75 W
Peak power	3 kW	4 kW	6.5 kW
Energy	35 J	80 J	165 J
Impulse time	0.1 to 12 ms	0.1 to 20 ms	0.1 to 25 ms
Pulse frequency	0.5 to 6 Hz	0.5 to 6 Hz	0.5 to 20 Hz
Spot diameter	0.2 to 2.0 mm		
Stop setting	Motorized		
Wave programs	Pulse shaping 6 presets		
Memories cell stored	100		
External control	7" colour touchscreen		
Input power	230 V AC, 50/60 Hz (110 V on request) - 2.2 kW		
Type	Desktop		
Argon nozzle	Yes		
Dimensions (LxDxH)	690 x 552 x 516 mm		
Weight	30 kg		



Explore more
<https://www.harshad.com/elettrolaser>

ElettroLaser Master 4.0

225 Joules

Master 4.0 is a laser welding machine designed and developed mainly for goldsmiths and dental laboratories, but which is also well suited for multiple processes in different industrial sectors where maximum welding precision is required.

The new design with incorporated armrests and the latest generation reinforced body increase comfort and usability, together with the 7" capacitive display and the joystick inside the welding chamber.



WI-FI



7" Touchscreen



Integrated Camera

Features

- * 7" colour touch screen display
- * 100 memories storage cells with name
- * Stereomicroscope 10x by Leica
- * High brightness shutter LCD
- * Internal joystick to the welding chamber
- * Powerful led lights
- * Low weight and dimensions
- * Integrated camera
- * Datalogger web interface
- * No water filling need
- * Ethernet port RJ 45 included

Specifications	Master 4.0
Laser source and wavelength	Nd: YAG 1064 nm
Average power	80 W
Peak power	9 kW
Energy	225 J
Impulse time	0.1 ÷ 25 ms
Pulse frequency	0.5 ÷ 30 Hz
Spot diameter	0.2 ÷ 2.0 mm (0.1 opt.)
Stop setting	Motorized
Wave programs	Pulse shaping 6 presets
Memories cell stored	100
Internal chamber control	Joystick
External control	7" colour touchscreen
Input power	230 V AC, 50/60 Hz (110 V on request) - 2.2 kW
Ampere	10 A
Dimensions (LxDxH)	715 x 552 x 516 mm
Weight	30 kg



Explore more
<https://www.harshad.com/elettrolaser>

ElettroLaser Mega 5.0

245 Joules

Manual laser welding machine, suitable for companies and laboratories with medium / large productions. Equipped with a large welding chamber, Mega 5.0 is one of the lasers that offers the greatest flexibility as regards both the power and size of the objects it can weld.

The new attractive design is equipped with a double cooling system that allows it to be used even in tropical environments with high temperatures without incurring thermal blocks.



WI-FI



7" Touchscreen



Integrated Camera

Features

- * LED cold and white light in the chamber
- * Integrated camera
- * 7" colour touch screen display
- * Demonstration videos uploaded
- * Stereomicroscope 10x by Leica
- * Double powerful integrated cooling system
- * Internal joystick to the welding chamber
- * Wide welding chamber
- * Wi-Fi connection
- * Ethernet port RJ 45 included

Specifications	Mega 5.0
Laser source and wavelength	Nd: YAG 1064 nm
Average power	90 W
Peak power	10 kW
Energy	245 J
Impulse time	0.1 ÷ 25 ms
Pulse frequency	0.5 ÷ 30 Hz
Spot diameter	0.2 ÷ 2.0 mm (0.1 opt.)
Stop setting	Motorized
Wave programs	Pulse shaping 6 presets
Memories cell stored	100
Internal chamber control	Joystick
External control	7" colour touchscreen
Input power	230 V AC, 50/60 Hz (110 V on request) - 2.2 kW
Ampere	10 A
Dimensions (LxDxH)	850 x 500 x 500 mm
Weight	35 kg



Large welding chamber



Mega 5.0 3D



Explore more
<https://www.harshad.com/elettrolaser>

ElettroLaser Mega 6.0

255 Joules

Professional welding laser to perform micro-welds, an evolution of the Mega SILVER, inherits all the best features of this family, such as the large welding chamber and the double cooling system.

Equipped with SMOOTH SPOT technology, it allows easier distribution of the filler material and a better surface finish of the weld.

Developed mainly for those who weld silver and / or highly reflective materials, and for intensive productions, which aim to digitize their business. The Mega 6.0 can also be equipped with the 3D VISION system for a stereoscopic view of the welding area.



WI-FI



7" Touchscreen



Integrated Camera

Features

- * Big laser rod
- * Smooth and filled spot
- * Integrated camera
- * 7" colour touch screen display
- * Demonstration videos uploaded
- * Stereomicroscope 10x by Leica
- * Double powerful integrated cooling system
- * Powerful lamp
- * High energy real available along the process
- * Ethernet port RJ 45 included

Specifications	Mega 6.0
Laser source and wavelength	Nd: YAG 1064 nm
Average power	100 W
Peak power	11 kW
Energy	255 J
Impulse time	0.1 ÷ 25 ms
Pulse frequency	0.5 ÷ 40 Hz
Spot diameter	0.3 ÷ 2.0 mm (0.1 opt.) Smooth Spot
Stop setting	Motorized
Wave programs	Pulse shaping 6 presets
Memories cell stored	100
Internal chamber control	Joystick
External control	7" colour touchscreen
Input power	230 V AC, 50/60 Hz (110 V on request) - 2.2 kW
Type	Desktop
Dimensions (LxDxH)	850 x 500 x 500 mm
Weight	35 kg



Large welding chamber



Mega 6.0 3D



Explore more
<https://www.harshad.com/elettrolaser>

Accessories

Welding



Table
Motorized support up-down
(plexiglass)



R Axis Rotation System
For welding of circular objects



Viewfinder Cap
Removable hygienic covers for
laser microscopes



Oval Spot
Oval spot for chain and wire
welding



0,1 Spot
Micro-shot for high precision
welding



Data Logger
RSS remote supervisor system -
Connection of all ELETTROLASER
machines equipped with WIFI

Laser Welding Machine



Technical Specification

Laser type	Nd: YAG Solid State Laser
Laser pump source	Flash lamp
Laser wavelength	1064 nm
Laser class	IV
Max. average laser power	200 W
Pulse peak power	5 kW
Pulse energy	200 J
Pulse duration	0.1 - 10 ms
Pulse frequency	1 - 30 Hz
Laser spot size	0.2 - 2.0 mm
Chiller	Inner air + water cooling system
Power supply	220V 50/60Hz
Cabinet protective level	IP64



Explore more
<https://www.harshad.com/midas-platinum>