



1. Stainless Tube Weld
2. Dental Bridge Weld
3. Jewelry soldering weld without using welding wire
4. Watch soldering weld using welding wire
5. Ring mold weld without removing the stone
6. Stainless Steel Deep Overlapping Spot Weld

## **NAMSON** **POWERWELD**

**POWERFUL YET AFFORDABLE LASER WELDER**  
**Model: PW150-2**

### **Option:**



WI-FI



CAMERA



MICROSCOPIO VISION 3D/  
3D VISION MICROSCOPEA



Equipped with a large welding chamber, Namson PowerWeld is now one of the lasers that offers the greatest flexibility as regards both the power and size of the objects it can weld.

It is also equipped with a double cooling system that permits intensive use even under extreme environmental conditions.

A large welding chamber, integrated webcam with display of the operations directly on the 7" LCD display, WI-FI connection for entry of the machine in a network, or parametrization of the machine by remote control complete this picture of an innovative welding laser.

The machine is able to reach an energy output of 60 J to 150 J for the maximum flexibility of use in small workshops or in small to medium-sized factories with continuous production.



## Advantages

- User friendly, quick and easy handling.
- Optimized for highly reflective materials
- Micro welding of seam widths from 0.1mm to 2mm
- No thermal load of sensitive precious stones
- Welding with and without filler material

## Ergonomic design

The laser welder is tailored to maximize ergonomics and enhance user comfort, with a wide working window, arm position at correct height, wide working area and clearly visible display. With these advantages PowerWELD bring better concentration for operator for high precision task.

## Time and cost advantages, very high bio-compatibility

Laser welding technology opens up the ability of using new materials which can not be processed with conventional welding methods. For instance, titanium material is now used more and more and this material can only be welded with laser. The extremely precise and gentle welding technique allows repair welds very near to heat-sensitive ceramic crowns. Time-consuming pre- and post-processing is no longer required.

The PowerWELD is ideal for a wide range of metal joining and repair applications. The system's compact, portable, space-saving design, with the main engine from well-known brands and high reputation for high performance with a very affordable investment.

Model	PowerWeld 150J
Laser source and wavelength	Nd: YAG 1064 nm
Average power	100W
Peak power (kW)	7 kW
Energy (Joule)	0.1 ÷ 150 J
Impulse time	0.1 ÷ 20 ms
Pulse Frequency	0.5 ÷ 30 Hz
Spot diameter (Optional 0.1mm spot size)	0.2 ÷ 2.0 mm
Spot setting	Motorized, 30 positions
Programs	Pulse shaping 6 preset
Memories cell stored	100
Internal control	Joystick
External control	7" Color Touch Screen
Input power	230V AC, 50/60 Hz, single phase
Ampere	10A
Max dimensions (WxDxH)	50x50x80 cm
Weight	55 Kg
Type	Desktop
Argon/ Air nozzle	Yes
Wifi	Yes
Integrated camera	Yes

