



**LWD4 Super Duty**

- Large graphic display
- High quality Leica microscope and 10x to 40 x Leica magnification zoom
- Possibility to record up to 100 programs. 50 programs of modulating the laser power supply (PULSE SHAPING) to allow the optimization of welding processes according to the metallurgics of joining parts **APM®** Technology inside (Automated Pulse Modulation) **NEW!**
- Large working platform
- Integrated closed circuit fluid cooling system. And an auxiliary external 1kW chiller
- Easy and comfortable accessibility
- Height adjustable table with heavy-duty casters and storage drawers
- Standard one year warranty and two years on selected units

Heavy duty chiller dissipates the heat of the coolant for longer intensive welding sessions. The system operates regardless of ambient temperature allowing for longer duty cycles, extending the life of both the laser flash lamp and internal electronics. This cooling system eliminates the need and cost of (air/dust) filters as well as noise associated with the use of a normal closed loop air to water heat exchanger.



The LWD4 family of laser welders are easy to use and requires only few hours to learn. ZAHNTECH, Inc. laser workstations do not require any special knowledge or skills to operate. They are user-friendly and come with easy-to-understand visual operating features. Yet they are the most advanced laser-welding systems ever engineered.

As an alternative to soldering and brazing, our laser micro-welding technology delivers faster, more accurate, safer and easier-to-use operation than the use of a torch or a TIG welder. Designed for a wide range of jewelry, dental, medical and industrial applications. The LWD4 welds with ease all precious metals including gold, silver, platinum, palladium, chromium cobalt, titanium, stainless steel, etc...

ZAHNTECH, Inc. micro-welders have a wide range of jewelry applications and solve many jewelry manufacturing problems as well as general jewelry repairs.

Common applications include the assembly of multi-color jewelry pieces, repairing next to precious stones, refilling casting porosity, spot and small-seam welding, tipping prongs, building bezels on heat sensitive stones, assembly of findings and stampings, welding metals without removing precious stones, resizing ring shanks, assembling bracelets and chains, repairing stone settings etc...

They are ideal for antique jewelry, watch and eyeglass repairs. They are also perfect for hammering and micro drilling to clean inside porosity and remove investment powder from casting cavities.

LWD4 is the newest generation of lasers and uses some of the newest state-of-the-art features such as true automated pulse modulation **APM®** Technology Inside **NEW!** (which improves silver welding process and other hard to weld metals), an integrated chiller to cool the laser resonator (for heavy duty usage and continuous operation), a 10x to 40x Leica zoom magnification (allowing the operator to see more details instead of a fixed 15x microscope; very important feature, specially for repairs close to heat sensitive stones), and an automated self-adjusting optics. These features are not available on any other laser welders as a package and are only available on the LWD4 laser workstations and at an affordable price.



ISIS expanded pupil eye lenses are revolutionary used as an accessory on stereo microscope. ISIS fits in place of conventional eye pieces and offers a significant advantage of eye comfort, allowing 38mm eye distance from the eye pieces. Glasses and contact lenses can be worn with ISIS. The optical system ensures that naturally occurring optical disturbances from the liquid of the eye (floaters) are not visible to the operator. ISIS enlarges the microscope exit by 8x, allowing the full field of an image to be scan easily.

