Jewelry Laser Welding



Application



Advantage



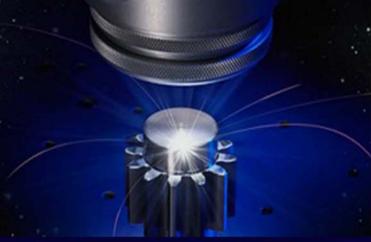
Specification











Laser for industrial material processing

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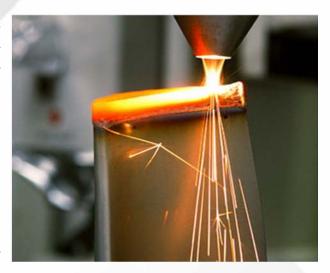


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Laser Welding Solution

Laser welding uses an amplified beam of light with a specific wavelength to perform the welding process with the almost invisible seam in a matter of seconds. The heat of the laser beam creates a very small area that changes the molecular structure of similar or dissimilar metals at the boiling point, allowing the two materials to become an alloy there. This process is mainly used in tool welding, jewelry welding, tooth welding, watch repair, glasses welding, sensor welding, medical tool welding, and other high precision welding purposes. Laser welder can weld various metal materials such as gold, silver, platinum, titanium, palladium, etc. One of the main advantages of laser welding is that it offers a high level of accuracy and control. The fact that laser technology is accurate means that it can be used to weld the smallest parts together without damaging them.





Application

Welding precious and non-precious jewelry metals Adding Metal to jewelry pieces **Bonding dissimilar metal** Repairing the micro industrial-medical device Welding porosity or cracks using filler material Repairing antique jewelry

Repairing watches, eye-glasses, dental & orthodontic



Advantage

It is LASER. Isn't that enough? **High-accuracy welding High-speed welding** Low operation cost **Compact setup** Easy to operate Microscopic weld joints **Customizable welds** Weld-on any metal



Material

Gold Silver Steel alloy Nickel Copper alloy Brass **Titanium** Carbon steel **Aluminum alloy** other metal materials









Specification

Jewelry laser welding can be used to fill porosity, re-tip platinum or gold prong settings, repair bezel settings, repair/resize rings and bracelets without removing stones, and correct manufacturing defects. This system is perfectly suited for Jewelers and also for technicians intending to simply bond metal to metal. Because the heat generated remains localized, operators can handle or fixture items with their fingers, laser welding small areas with pin-point accuracy without causing any harm to the operator's fingers or hands. The laser used in this system is a solid-state laser type "Nd: YAG" using a flash lamp pumping. The spot size, energy, repetition of laser pulse Frequency and other parameters can be controlled through system software for best performance.





Classe IV Laser

Redpoint fast positioning, CCD display, microscope optional

Easy parameter settings

High precision

Microscopic weld joints

simple and quick welding parameters Setting

Customizable welds

High-efficiency components

High-efficiency optics to enable a higher average power output

Low noise and no pollution. Advanced cooling system

Support

Our engineers select the components of the system according to your application. In the initial installation and training phase, our technicians exclusively optimize your system parameters to maximize your productivity and provide complete training for your operators. Our support team can help you to achieve the best results and to solve your problems. we are aimed to ensure that you get the most out of your investment in laser technology.

So, WE ARE HERE TO HELP YOU.

