



Induction L.L.C.

INDUCTION HEATING SOLUTIONS

RDO Induction's *Micro-Welder*

Micro-Welder is a micro-impulse welding system developed for Micro-Precision Welding jobs in the Dental and Jewelry Industries, along with industries such as Medical, Electro-Mechanical, Mold and Die Repairs, in addition to many other precision micro-welding applications.

Instead of using a Laser Beam, Micro-Welder uses electric energy to create high-energy pulses into the piece being welded, without contact between the piece and electrode.



The development of the Micro-Welder is based on years of experience and study in traditional laser welding systems. This experience has produced a system with the features and abilities of a laser system at between one-half and one-third the cost.

Advantages of Micro-Welder vs. Laser

- 50 -70% Less Investment
- Plugs into a standard 110V outlet
- Lower Maintenance Costs
- No Expensive Bulbs to replace
- No Cooling Water to maintain
- Compact/Bench-top size
- Welding results remain unaffected by object surfaces
- Lower Argon Consumption

For more information visit us on the web: www.rdoinduction.com



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Micro-Welder Features

- Stereo Microscope for precise welding
- Optics Shutter offers better protection for the users eyes than conventional LED Shutters
- Special Argon Dispenser directly over the welding field
- Air Pistol for cooling with compressed air
- Argon Gas Extractor
- NO CONTACT between the electrode and the object, allowing for quick, high-quality welds
- Foot Pedal for single impulse or continuous mode
- Fully adjustable Hand Piece for user operating comfort • Fully Programmable Welding Cycles • Compact and lightweight

An increase of power extends the weld spot diameter



Power 4
Pulse Duration: 40ms



Power 6
Pulse Duration: 40ms



Power 8
Pulse Duration: 40ms

Electrodes

- Micro-Welder is equipped with two electrode diameters (0.5 and 1.0mm)
- Simple, Quick-Change Holders • Approximately 2,500 shots per electrode
- Optional Electrode with Ceramic Insulation for welding internal surfaces

Micro-Welder can Weld

- Non-Precious Alloy to Non-Precious Alloy
- Precious Alloy to Precious Alloy • Non-Precious Alloy to Precious Alloy
- Titanium to Titanium

Micro-Welder Specifications

Dimensions: 16"W x 18"L x 18"H

Weight: 51 lbs

Voltage: 110V - (220V, 1-Phase on Request)

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