

The Orion 250i²

Pulse Arc and Resistance Welder

The Orion 250i² is packed with features that will simplify the welding process. Innovative features include – the new Pico weld mode for intricate welds utilizing weld energy as low as 0.01 Joules, to achieve truly microscopic weld joints; user selectable up to 250 joules of energy for large work-pieces; a large 10" touch screen interface with one-touch access to all welding parameters; the ultimate space saving design; and 3 unique pulse shape wave form options to choose from: Classic Orion (for Orion users that have come to love welds produced by the Orion 150i), Triangle, and Square. In addition, we introduce Seam mode—a revolutionary breakthrough in micro pulse arc welding. Seam mode allows users to mimic laser welding with weld speeds up to 30 welds/sec. Keeping in the Orion tradition of excellent customer service, training, and support we have added on-screen resources, which include video tutorials and the product user manual. The patent pending Orion 250i² gives you the precision of a laser with the versatility, power, and ease of a pulse arc welder.



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Your partner in micro welding!
Contact us for **free sample weld evaluations**.
We will find the solution for any application.



Industries

- Jewelry
- Medical
- Industrial
- Dental

Applications

- Actuators
- Inductors
- Seam Welding
- Thermocouples
- Wire Beading
- Small Wire or Chain
- Mold and Die Repair
- Tack Pieces Together
- Add Metal
- Coil Termination
- Relays
- Solenoids
- Pencil Coils
- Transformer Coils
- Weld Any Metal
- And So Much More

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Specifications

Dimensions



Features

- 10" touch screen display
- Pico mode for extremely small and precise welds
- 3 Pulse Waveforms – Classic, new Triangle, new Square
- Seam mode – weld up to 30 welds/second
- High frequency agitation – including new negative agitation
- Internal weld monitoring to provide weld consistency and automatically optimize weld parameters
- Advanced waveform shaping options
- Adaptive Weld Ignition™ – for extended electrode tip life
- Intelligent Welding™ & MyWeld™ software
- Updateable software via USB port
- Pulse arc and resistance welding technology in one machine
- 5x Microscope
- Weld energy selection – Set energy by dial, or by keypad. Adjustable from 0.01 – 250 Joules

Orion 250i² Pulse Arc and Resistance Welder

Welder Type	Pulse-Arc and Resistance
Weld Modes	5
Pre-Programmed Metal Settings	15
Customizable Save Settings	Unlimited
Languages	20 + (Ask rep if we have your language)
Display	10" Touch Screen
Energy (ws)	0.01-250 ws
Weld Spot Diameter	≈ 0.1 - 5.5mm
Switching Power Supply	110/240VAC (Auto Detected)
Footprint (Actual bench space being used)	L x W x H - 4" x 5" x 27" (10 x 12.5x 68.5cm)
Weight (As seen in above image)	28 lbs (13 kg)
Microscope Specs	5x
Microscope Eye Protection - Darkening Lens	IR 16 / UV 16



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