

# ORION 200i<sup>2</sup>

## THE REVOLUTIONARY PULSE-ARC WELDER

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### TECHNOLOGY: **Pulse Arc**

#### **Orion 200i<sup>2</sup>** Patent D740,338

- Power control from 0.01 to 200 joules
- Space saving footprint
- 10" color touch-screen display
- Incredible precision

## **The Most Advanced Pulse Arc Welding System In the World!**

The Orion 200i<sup>2</sup>(Patent D740,338) Micro Tig Welding System is packed with features that will simplify the welding process. It is on a whole other level when it comes to micro TIG welding. This revolutionary pulse arc welding system has the widest range of welding power and the most precision of any other welder in the market!

## **Features**

- Widest power range of any micro tig welding system!
- The most extensive spot size range (this feature allows you to work on both tiny & large pieces with the same unit).
- The Orion 200i<sup>2</sup> has a spot range of  $\approx$  0.25 – 4mm.
- Energy settings start as low as 0.01 Ws of energy for extremely precise, intricate welds.
- High-End power tops out at 200 Ws for thick welding.

## **Increased Control**

The Orion 200i<sup>2</sup> is the only micro tig welding system with three different welding waveforms. These waveforms allow you more control over your weld settings, on how the energy is released. As the unit is designed to work with almost every metal in the world, each of these responds differently to the different welding parameters. The Orion 200i<sup>2</sup> Welding System allows you to customize the weld energy for every metal that you are looking to weld.

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## KEY FEATURES: **Why Buy An Orion 200i<sup>2</sup>?**

### **Precision and Power:**

Select power in 0.01 Ws increments up to 200 Ws — That's up to 20,000 available power settings! Work can be done in sizes ranging from microns all the way up to 5mm. Whatever it is you weld, Orion has the power to get the job done precisely.

### **Ignition Settings:**

Prolong the life of your electrode by determining when the electrode will release the weld. This safeguards the electrode from misfires and sticking to the workpiece. In turn, you spend more time welding and less time sharpening an electrode.

### **Weld Speed Modes:**

Take control of the speed of your system. Select one of two modes — single (1 weld p/sec) or rapid (up to 5 welds p/sec) and keep the work pace at the speed you want—not where the welder dictates.

### **Full Touch Screen:**

The Orion touch screen gives you complete control of your welder with an easy to use interface. No knobs or dials, just one touch access to everything you need including a multi media page full of instructional videos and documents. This makes our welders intuitive to use and easily upgradeable for future features as they are released in free software updates.

### **Highest Quality Standards:**

When you purchase an Orion 200i<sup>2</sup>, take confidence in knowing that it was designed, produced, and assembled to the highest quality standards in the industry—in other words, it's the best you can buy.

### **Superior Customer Service:**

Before, during, and after the sale, we want to be your resource for years to come. We guarantee that every interaction with our company will be courteous and friendly in answering your questions or helping in any way we can.

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## APPLICATIONS: What Can It Do?



- Holloware
- Seam Welding
- Findings
- Ring Re-Sizing
- Add Metal
- Filling Porosity
- Weld Next to Stones, pearls, Rubies, and Opals



- Prong Re-Tipping
- Attach Separate Pieces
- Weld Dissimilar Metals
- Clasp Repair
- Earring Posts
- Eyeglass Repair



## THE ORION INTERFACE: Welding Made Easy

### The Basic Screen:

Whether you are an expert at pulse-arc welding or doing it for the first time, we have developed a simple and intuitive, step by step system, for you to follow when welding.

#### Step 1:

Choose the metal you are welding.

#### Step 2:

Select the type of application you are performing.



#### Step 3:

Choose your power. Not sure what power to choose? Look to the spot size indicator above the power bar for a reference \*From the Basic Screen the 200i<sup>2</sup> will change the welding time automatically as you move the power up or down.

#### Step 4:

Choose the welding speed.

#### Step 5:

Select Touch Detect or Foot Pedal.

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## TECHNICAL COMPARISON\*

<b>Orion 200i<sup>2</sup></b>	
Display (Touch Screen)	10" Full
Languages	20 +
Welder (L x W x H)	4,9" x 4,9" x 27"
Basic Screen Metal Presets	11
Save Settings Spaces	Unlimited
CE Certificate	●
USB Upgradable Software	●
<b>Pulse Arc Welding</b>	
Energy (min-max in Joules)	0.01 - 200
Current (min-max in Amps)	6 - 1000A
Power Settings	20,000
Length (min-max)	0.1 - 100ms
Length Settings	6000
Weld Spot Diameter Range	≈ 0.25 - 4mm
High Frequency Agitation	Multiple/Advanced
Pulse Shaping	Advanced
Max Welding Speed (Hz)	30Hz
Max Charging Time	1.2s
Single Fire Mode	1 weld/0.5 seconds
Rapid Fire Mode	1 - 4 welds/sec (4Hz)
Seam Mode	1-30 welds/sec (33Hz)
Pico Mode	●
Ultra Mode	●
Adaptive Weld Ignition	●
Arc Start Technology	●
<b>Tack Welding</b>	
Energy (min-max in Joules)	5 - 200
Peak Current (max in Amps)	4,000
Power Settings	20,000
Length (min-max in milliseconds)	60ms
Length Settings	1
<b>Microscope</b>	
Magnification	5x
Vertical Stylus Working Space	~110 mm
Automatic Eye Protection	Darkening Lens
UV Protection	> UV 16
IR Protection	> IR 16

**CE** **CE TESTED AND CERTIFIED**  
 Welder tested for electrostatic discharge immunity up to 2kV for CE compliance

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