

# Omega PA250i Welding System

## Maximum Power!

The most powerful Sunstone pulse arc welder delivers 250 joules of energy with precision and accuracy

When your production needs require more welding power, turn to Sunstone's PA250i, where maximum digital energy control is combined with maximum energy availability. With 250 joules of power your welding capabilities are greatly increased. Available in three different configurations, the PA250i fits any production floor: In your shop, in an automated production line, or anywhere in between.



## Options

- **Dissimilar Welding Capabilities.** The 250i's power capabilities let you weld many dissimilar metal combinations!
- **3 Available Configurations:** Stylus only, weld head, or CNC table, like the Janome Cartesian Robot (see reverse side).
- **250 Ws Max Energy.** The most powerful Sunstone pulse arc micro welder.
- **Weld materials as Thin as 0.0005" (0.0127mm).** Enjoy extreme flexibility.
- **Digital Control.** Adjust and control all energy attributes with color touch screen.

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- **Visual Waveform Graphs.** View energy waveforms, histograms, and more.
- **PLC-Ready.** With 5 outputs/2 inputs easily integrates into your production process.
- **CNC Compatibility.** Attaches to any CNC table, like the Janome Cartesian Robot, for maximum production levels
- **127 Remote Schedules.** Saves time with quick access to saved welds.
- **Import/Export Saved Welds.** Easily transfer key settings to other units.
- **Lock-Out Mode.** Prevent unintended changes to production settings.
- **Alarms and Warnings.** Avoid time-consuming errors or potentially hazardous conditions.
- **Built-in Training.** How-to and set-up videos always at your fingertips. WiFi Software Upgrades. On-board software is easily maintained.

**2-Year Manufacturer's Warranty**

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**CWELDING**

**Power Supply Specifications**

Energy (min-max in Joules)	0.01 - 250
Current (min-max in Amps)	6 - 1000A
Power Settings	20,000 (0.1-250 Ws (joules)
Pulse Arc Weld Current	1-1000 Amps
Length (min-max)	0.2 - 100ms
Length Settings	6000
Weld Spot Diameter Range	≈ 0.1 - 4.5mm
High Frequency Agitation	Multiple/Advanced
Pulse Shaping	Advanced
*Max Welding Speed (Hz)	30Hz
*Max Charging Time	1.2 s
Frequency	1 Weld/0.5 Sec or 1-5 Welds/Sec or 1-30 Welds/Sec
Tack Welding	Yes
Microscope Magnification	5x
Microscope UV Protection	>UV 16
Microscope IR Protection	>IR 16
Microscope Lens	Auto Variable Darkening Les
Internal Weld Monitoring	Yes
Display (Touch Screen)	10" Color Touch Screen
Languages	25 +
Welder (L x W x H)	17.5" x 5" x 11" (43.2 x 12.7 x 27.9 cm)
Weld Programs	16
Save Settings Spaces	1000
CE Certificate	Yes
USB/WiFi Upgradable Software	Yes

**Weld Head Specifications**

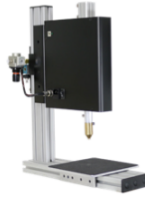
Collets	1.0 mm
Pressure Range	30-90psi (120psi max)
Height Adjustment	0-7" (17.8 cm)
Force Weight	1-14 lbf (4.5-62N)
Preferred Working Distance	1/8-1/2"
Actual Working Distance	See chart at right
Weld Cycle Rate	30 welds per minute
Weight	28 lbs. (12.7 Kg)
Shipping Weight	36 lbs. (16.33 Kg)

Available in 3 Configurations



•Stylus

For R&D laboratories and smaller shops, the stylus configuration, with 5x microscopic optics, is a sure fit.



•Weld Head

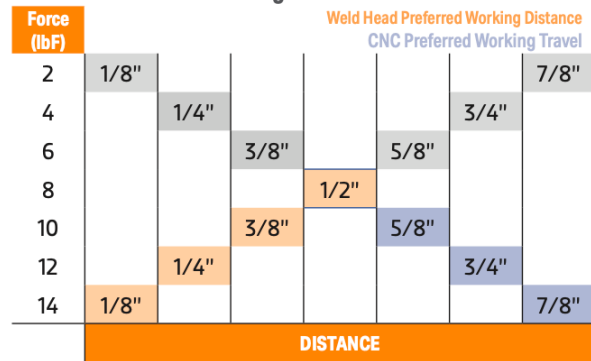
Mid-size production facilities will find the weld head configuration optimal.



•CNC Table

The CNC table option, like the Cartesian Robot from Janome, fits into any large-scale production process.

**Actual Working Recommendations**



**Contact us today for the best offer!**

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