



Benchmark SM8500

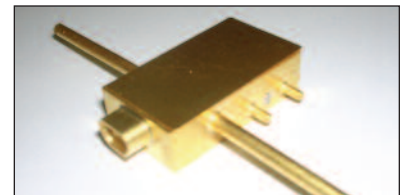
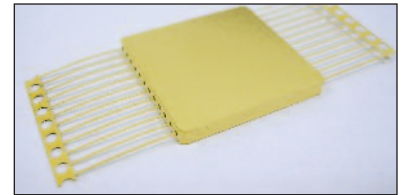
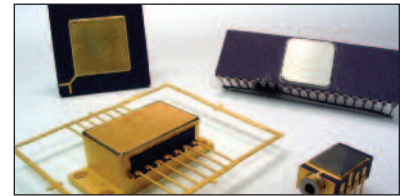
Parallel Seam Sealing System

Packed with advanced features, the Windows®-based SM8500, reliably performs welding, brazing, and soldering processes on a variety of metals, metal alloys, plated materials, and solder pre-forms. It can be operated as a stand-alone unit or fully integrated into an environmental enclosure for a complete closed loop hermetic sealing process.

features and benefits

- **Utilizes the advanced HF25 weld power supply**
 - Provides low sealing temperatures
 - Constant weld current control mode for sealing process
 - Increases yields and productivity with 25KHz closed loop power feedback
- **Programmable electrode force** – Enables user to optimize both force and energy through programmable settings to achieve superior results.
- **Extended electrode life with electrode Auto-Trak software** – Indexed electrodes ensure extended and even wear, providing superior results.
- **Position-based weld pulses** – Constant spot spacing regardless of speed, acceleration or deceleration. Provides increased or decreased energy at part corners. Reduces corner leaks. Solves electrode deceleration and acceleration problems with precise weld pulse spacing.
- **Process inhibits** – Communicates with glovebox to ensure parts are processed only when desired gas composition is present.
- **Electrode roll-back feature** – To assist electrode release from light weight parts.
- **Circular mode seam sealing** – Allows processing of round parts

typical applications



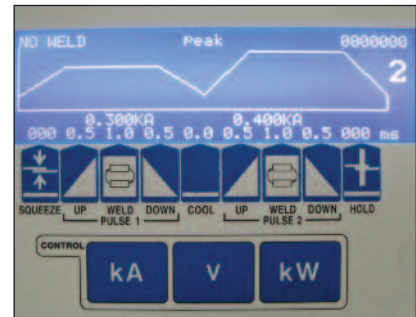


higher yields with advanced HF25 inverter power supply

- 25 kHz feedback rate for closed loop electrical current control
- Automatically compensates for variations in lid-to-part dimensions and electrical properties
- Weld pulse shaping feature ramps energy up or down to reduce cracking and leaks
- Energy output is independent of input line voltage fluctuations
- Conditioning weld pulse brings each part to same resistance prior to application of welding current

Wide Range of Part Processing Capabilities

- Operates as tacker only, sealer only, or combined tacker-sealer
- Four-pass welding feature starts weld from center and welds to the part corner – for large part sealing
- Set different energy levels for each axis welded for higher yields on rectangular parts
- Many tacking options – tack center, four-side tacking, multiple tacking
- Real time monitoring of weld inhibit inputs such as moisture, oxygen, and helium levels
- Unlimited weld schedule storage
- Lid hold down feature assists tacking process
- Multiple weld schedule chaining feature
- Optional CCTV camera available to assist the operator for improved lid placement
- Batch reporting option



physical characteristics

SM8500 Mechanism	85 lbs (38.5kg)	22.0" W X 23.0" D X 18" H 559mm X 584mm X 470mm
HF25 Power Supply	54 lbs (24.5kg)	9.25" W X 16.25" L X 13.0" H 235mm X 413mm X 330mm

specifications

Part Size:	4mm to 203mm (0.158" to 8")	Input Power –	192-264VAC (240V nominal), 3 Ph, 50/60 Hz, 25 amps
Position Encoder Resolution:	X – 20,000 cts/in, Y – 40,000 cts/in	HF25 Power Supply:	320-440VAC (400V nominal), 3 Ph, 50/60 Hz, 20 amps 384-528VAC (480V nominal), 3 Ph, 50/60 Hz, 13 amps
Weld Force (Programmable):	500 to 5000 grams	HF25 Current Output:	100 to 2400 amps, ±2 amps
Linear Weld Speed:	0.01 to 1.5 in/sec	HF25 Pulse Width:	0.10 to 99.00 milliseconds
Rotary Weld Speed:	0.01 to 1.5 linear- in/sec (720° max. rotation)	Mechanism Input Power:	Autovolt 110 to 240VAC 50/60Hz single phase 15amp
Input Gas Requirements:	60 psi minimum	Calibration:	To NIST standards CE Certified



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