



# Benchmark™ SM8500

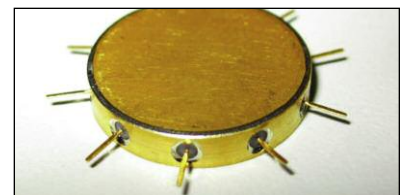
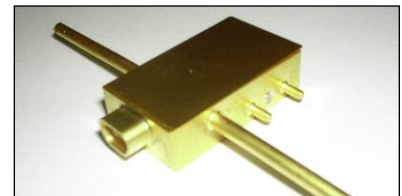
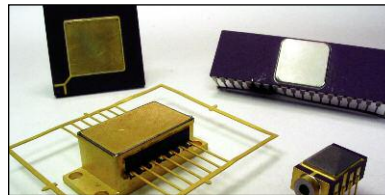
## Parallel Seam Sealing System

Packed with advanced features, the Windows®-based SM8500 parallel seam sealing system, 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.

### KEY FEATURES

- Utilizes the advanced HF25 25 kHz closed-loop feedback weld power supply
- Programmable electrode force enables user to optimize both force and energy
- Indexed electrodes ensure extended, even wear providing superior results
- Position-based weld pulses provide increased or decreased energy at part corners reducing corner leaks
- Electrode roll-back feature facilitates electrode release from light weight parts
- Circular mode seam sealing allows processing of round parts

### TYPICAL APPLICATIONS





## 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

## TECHNICAL SPECIFICATIONS

Part size	0.158 in to 8 in (4 mm to 203 mm)	
Position encoder resolution	X – 20,000 cts/in,	
Position encoder resolution	Y – 40,000 cts/in	
Weld force (programmable)	500 to 5000 grams	
Linear weld speed	0.01 to 1.5 in/sec	
Rotary weld speed	0.01 to 1.5 linear- in/sec (720° max. rotation)	
Input gas requirements	60 psi minimum	
Input power – HF25 power supply	Three phase, 192-264 VAC (240 V nominal), 50/60 Hz, 25 a Three phase, 320-440 VAC (400 V nominal), 50/60 Hz, 20 A Three phase, 384-528 VAC (480 V nominal), 50/60 Hz, 13 A	
HF25 current output	100 to 2400 A, ±2 A	
HF25 pulse width	0.10 to 99.00 ms	
Mechanism input power	Single phase, autovolt 110 to 240 VAC 50/60 Hz, 15 A	
Calibration	To NIST standards	CE Certified

## WEIGHT & DIMENSIONS

	SM8500 Mechanism	HF25 Power Supply
Dimensions (L x W x H)	23.0 in x 22.0 in x 18 in (584 mm x 559 mm x 470 mm)	16.25 in x 9.25 in x 13.0 in (413 mm x 235 mm x 330 mm)
Weight	85 lb (38.5 kg)	54 lb (24.5 kg)

**AMADA**  
 1820 S. Myrtle Ave. • Monrovia, CA 91016 US  
 T: (626) 303-5676 • F: (626) 358-8048  
 info@amadamiyachi.com • www.amadamiyachi.com  
 AMADA MIYACHI AMERICA, INC. ISO 9001 Certified Company • 24/7 Repair Service: 1-866-751-7378

**MIYACHI** | **MIYACHI** | **MIYACHI**  
 UNITEK | P E G O | CAPRO

**AMERICA**  
 AMADA MIYACHI AMERICA (Midwest Office)  
 Wixom, MI 48393  
 T: (248) 313-3078  
 midwestsales@amadamiyachi.com

**AMADA MIYACHI AMERICA (Mexico Office)**  
 El Paso, TX 79925  
 T: (915) 881-8765  
 mxsales@amadamiyachi.com

**AMADA MIYACHI DO BRASIL LTDA.**  
 Sao Paulo, Brasil  
 T: +55-11-4193-3607  
 antonio.ruiz@amadamiyachi.com

**EUROPE**  
 AMADA MIYACHI EUROPE GmbH  
 Puchheim, Germany  
 T: +49 (0) 89 83 94 030  
 infode@amadamiyachi.eu

**ASIA**  
 AMADA MIYACHI CO., LTD.  
 Noda, 278-0016 Japan  
 T: +81-31-8015-6810  
 sales@miyachi.com

**AMADA MIYACHI SHANGHAI CO., LTD.**  
 Shanghai, China  
 T: +86-21-6448-6000  
 jwu@msc.miyachi.com

**AMADA MIYACHI KOREA CO., LTD.**  
 Gyeonggi-do, Korea  
 T: +82-4-7125-6177  
 dykim@mkc.miyachi.com

**AMADA MIYACHI TAIWAN CO., LTD.**  
 Taipei, Taiwan R.O.C.  
 T: +886-2-2585-0161

**AMADA MIYACHI (THAILAND) CO., LTD.**  
 Samutprakarn, Thailand  
 T: +66-2-170-5977  
 info@mtl.miyachi.com

**AMADA VIETNAM CO., LTD.**  
 Ha Noi, Vietnam  
 T: +84-4-6261-4583

**AMADA MIYACHI INDIA PVT., LTD.**  
 Bangalore, Karnataka  
 T: +91-80-4092-1749  
 or +91-80-4092-3549  
 info@miyachiindia.com

Specifications subject to change without notice. Copyright© 2017 AMADA MIYACHI AMERICA, INC. The material contained herein cannot be reproduced or used in any other way without the express written permission of AMADA MIYACHI AMERICA, INC. All rights reserved.

