

BENCHMARK® AF-8500A / AF-1250A Autoflow Lid Placement, Tack and Seam Sealing Systems

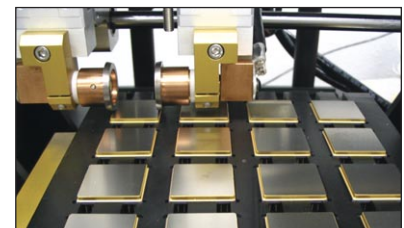
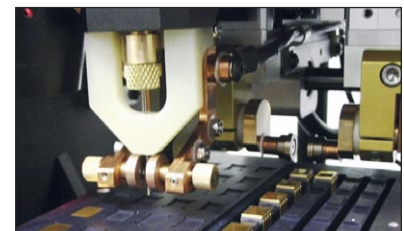


The AF series automated **seam sealing** systems provide users with the flexibility to meet the increasing demands of lid placement and seam sealing either as a stand-alone unit or as part of a fully integrated glovebox or automated manufacturing line. The computer-controlled precision tacking and seam-sealing mechanism is combined with a high frequency inverter power supply, and an optional high resolution vision system to provide a robust and repeatable process.

KEY FEATURES

- Programmable electrode force and weld current using a Windows®-based proprietary software
- Closed-loop high frequency inverter welding power supply features low sealing temperatures and power feedback, increasing yields and productivity
- Current control mode optimized for superior seam sealing results
- Position-based weld pulses ensure consistent spot spacing, optimized spot density at corners, reduced leaks, and elimination of acceleration/deceleration problems
- Auto-Trak™ software indexes electrodes ensuring extended electrode life and more even wear
- Electrode roll-back feature assists in electrode release from lightweight 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 – best for large parts sealing
- Set different energy levels for each axis welded for higher yields on rectangular parts
- Single or double side tack options
- 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
- Chain or link multiple schedules together



TECHNICAL SPECIFICATIONS

Part size with vision, pick-place and tack	0.118 in - 4.3 in (3 mm - 110 mm)	
Part size without vision and pick-place	0.118 in - 8 in (3 mm - 203 mm)	
Lid placement accuracy	+/-0.003 in (+/-0.08 mm)	
Weld force (programmable)	500 to 3000 grams (1g increments)	
Linear weld speed	0.01 to 1.5 in/sec (0.01 increments)	
HF-2500A current output	100 to 2400 amps, ±2 amps	
HF-2500A pulse width	0.10 to 99.00 milliseconds (0.01 increments)	
Input power – HF-2500A power supply	192 - 264 VAC (240 V nominal), 3 Ph, 50/60 Hz, 25 amps 320 - 440 VAC (400 V nominal), 3 Ph, 50/60 Hz, 20 amps 384 - 528 VAC (480 V nominal), 3 Ph, 50/60 Hz, 13 amps	
Mechanism input power	Autovolt 110 to 240 VAC 50/60 Hz single phase 15 amp	
Compressed gas requirements	60 psi minimum	
Calibration	To NIST standards	CE certified

WEIGHT & DIMENSIONS

	AF-8500A mechanism	AF-1250A mechanism with control box	HF-2500A power supply
Dimensions (W x D x H)	28 in x 28 in x 17 in (712 mm x 712 mm x 432 mm)	Mechanism – 28 in x 30 in x 17 in (712 mm x 762 mm x 432 mm) Control box – 15 in x 11 in x 14 in (381 mm x 280 mm x 356 mm)	10 in x 17 in x 13 in (235 mm x 413 mm x 331 mm)
Weight	120 lbs (55 kg)	145 lbs (66 kg)	54 lbs (24.5 kg)



USA Headquarters and Western Technical Center

AMADA WELD TECH
1820 S. Myrtle Ave. • Monrovia, CA 91016 US • T: (626) 303-5676
info@amadaweldtech.com • www.amadaweldtech.com
ISO 9001 Certified Company • 24/7 Repair Service: 1-866-751-7378

AMERICAS

AMADA WELD TECH
(Eastern Technical Center)
High Point, North Carolina
T: (941) 544-5762
southsales@amadaweldtech.com

AMADA WELD TECH
(Midwest Technical Center)
Detroit, Michigan
T: (248) 313-3078
midwestsales@amadaweldtech.com

AMADA WELD TECH
(Mexico Office)
El Paso, Texas
T: (915) 881-8765
mexsales@amadaweldtech.com

EUROPE
AMADA WELD TECH
GmbH
Munich, Germany
T: +49-89-839403-0
infode@amadaweldtech.eu

ASIA

AMADA CO., LTD.
Isehara, Japan
T: +81-463-96-3268
sales@miyachi.co.jp

AMADA WELD TECH
SHANGHAI CO., LTD.
Shanghai, China
T: +86-21-6448-6000
jwu@amadaweldtech.com.cn

AMADA WELD TECH KOREA CO., LTD.
Seoul, Korea
T: +82-31-8015-6810
amadadasales@amadaweldtech.co.kr
sales2@amadaweldtech.co.kr

AMADA WELD TECH TAIWAN CO., LTD.
Taipei, Taiwan
T: +886-3-328-3511

AMADA (THAILAND) CO., LTD.
Bangkok, Thailand
T: +66-2170-5900
info@amada.co.th

AMADA VIETNAM CO., LTD.
Ha Noi, Vietnam
T: +84-4-6261-4583
thuyet@amada.co.jp

AMADA WELD TECH
INDIA PVT., LTD.
Bangalore, India
T: +91-80-4092-1749
info@amadaweldtech.in

Specifications subject to change without notice. Copyright © 2024 AMADA WELD TECH INC. The material contained herein cannot be reproduced or used in any other way without the express written permission of AMADA WELD TECH INC. All rights reserved.

follow us on:

