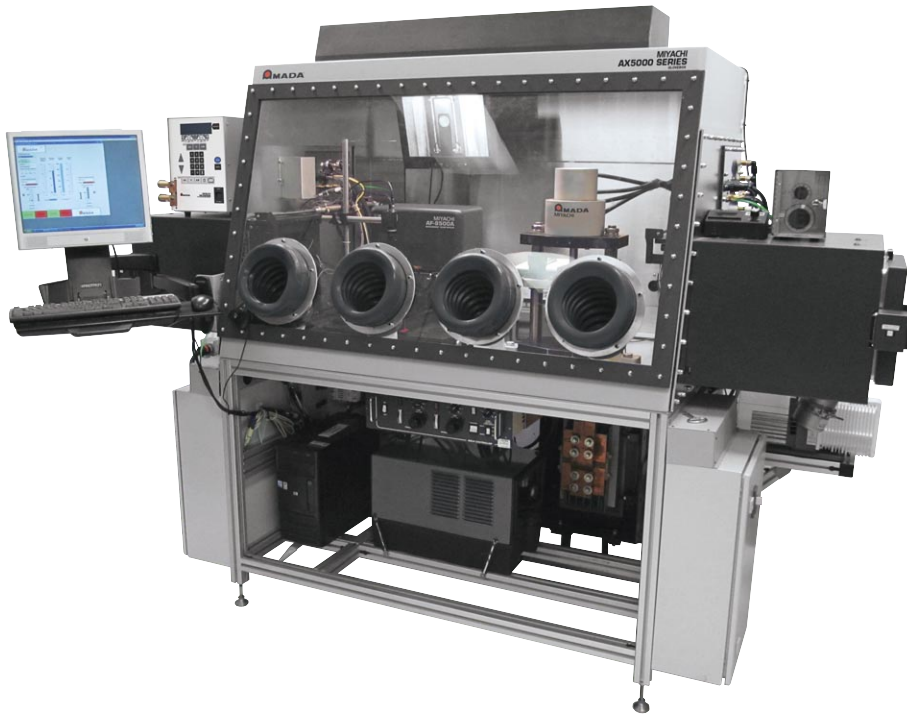


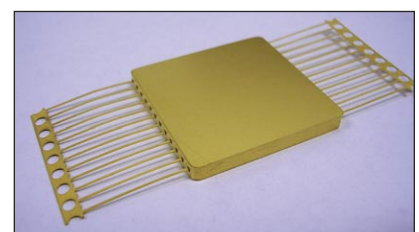
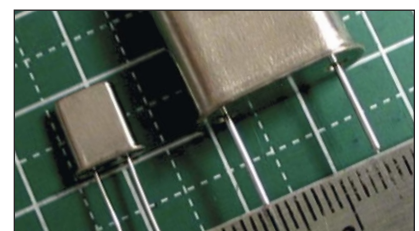
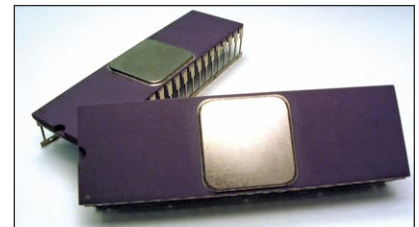
AX5000

Glovebox Welding System



AX5000 is an ideal **glovebox** for the precise control of moisture, pressure and gas composition of a processing environment. It provides fully-integrated computer control of the system including enclosure pressure, interior and exterior doors, gas and moisture analysis and control instrumentation, vacuum ovens, and antechambers. The glovebox can maintain an inert environment with ultra-low moisture and oxygen levels to meet the most demanding process standards.

TYPICAL APPLICATIONS



KEY FEATURES

- Historical and real time graphical display of operating parameters, atmospheric conditions, status, data acquisition and oven bakeout batch reports
- Independent vacuum pumping systems dedicated to automatically and completely evacuating designated chambers
- Wide variety of vacuum oven configurations with exclusive closed-loop computer control and monitoring of each oven surface including heated shelves, ensures temperature stability
- Automatic push button inner and outer doors on ovens and antechambers
- Fully-integrated electronic gas pressure control system with user-selectable set points and oil-less check valve
- Integrated moisture, oxygen and helium gas analyzers with real-time environmental control. Set points can be selected to trigger alarms or inhibit processes. Digital output provided for interface to process equipment

TECHNICAL SPECIFICATIONS

Antechambers and Ovens	Features
Configuration options	End, front, rear loading
Heating	Wall heating or heated shelves
Temperature	0 - 200° C std., higher available
Vacuum pumps	Rotary vane, dry, or turbo pumps
Analysis and Monitoring Capabilities	
Trace oxygen detection range	0.0 - 1000 PPM
% Oxygen detection range	0.00 - 25.00%
Moisture detection range	GUI display -20.00 to -100 dewpoint° C or 0.00-1000 PPM (sensor range +20.00 to -100 dp° C)
Helium monitoring	0.00 - 25% helium in nitrogen or argon environment
Utilities	
Electrical	3-phase, 5-wire, 30 A, 50/60 Hz 208-240 VAC or 380-415 VAC
Inputs	
Environmental gas	60 psi (415kPa) 200 SCFH (5.6 m3/h) minimum
Automatic door gas	80 psi (550kPa) 200 SCFH (5.6 m3/h) minimum
Chilled water (oven flange cooling)	20 - 27° C, 0.5 L/min minimum flow or optional integrated water recirculator The installation area should be free of sudden temperature fluctuations and humidity should be ≤85% (non-condensing)
Gas Purification	
Single column manual	30 CFM (51 m3/hr) Moisture and/or oxygen removal 1.0 PPM Oxygen
Dual column manual	
Dual column automatic	
Gas Mixers	
Manual set control	Two and three gas versions
Automatic closed loop control	Two and three gas versions
Others	
Soot removal systems	2 micron 30 CFM (51 m3/hr) or 100 CFM (170 m3/hr)
CDRH class 1 eyesafe window	Wavelength based on application
Light tower	Indicates glovebox process status
Tool interchange	Floor access, front loading
Safety	Light curtain, interlocks

WEIGHT & DIMENSIONS

	AX5000 - 48	AX5000 - 56
Dimensions (L x W x H)	39 in x 48 in x 36 in (991 mm x 1219 mm x 915 mm)	39 in x 56 in x 36 in (991 mm x 1423 mm x 915 mm)
Number of glove ports	2	4
Weight	Will vary with selected options	Will vary with selected options

Other configurations and custom sizes available

Specifications are subject to change without notice.



AMADA WELD TECH INC.

USA

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

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

EUROPE

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

ASIA

AMADA WELD TECH CO., LTD.
Isehara, Japan
T: +81-4-7125-6177
sales@miyachi.com

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

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

AMADA WELD TECH TAIWAN CO., LTD.
Taipei, Taiwan
T: +886-2-2585-0161

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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

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

follow us on:

