

CLASSMATE S

Fixed-Table Robotic Welding Training System



ADVANCING THE MANUFACTURING SKILLS OF THE NEXT GENERATION

The ClassMate S is designed to help welding educators meet the need for advanced manufacturing training. The robotic welding training system is a pre-configured, self-contained cell constructed for quick and easy installation. The industrial-size robotic welding cell is a single-zone, small footprint system where welders learn to advance their programming and welding skills while replicating a true production environment.

Product Numbers »

AD2446-4 Basic Package

AD2446-5 Advanced Package

FEATURES

- » Includes everything you need to present robotic manufacturing
- » Exclusive use of FANUC® robots
- » Power Wave® R450 power source
- » AutoDrive® 4R220 wire feeder
- » Magnum® PRO robotic torch
- » Integrated safety measures in system and software
- » Manual bi-folding door with Shade 10 lens glass for weld viewing
- » Pre-Set Custom Lettering Program
- » 2 Basic Robotic Programming class seats for instructors

WHAT'S INCLUDED

Description	AD2446-4 Basic Package	AD2446-5 Advanced Package
Robotic 3-in-1 Welding Fixture – The patent pending 3-in-1 adjustable welding fixture is designed for use on a robotic weld training system. It enables the welding instructor to teach common industry-standard joints and positions, all in one simple device.	•	•
Custom Lettering Program – Preprogrammed with easy to use high-quality lettering.	•	•
FANUC® fixed headstock robotic positioner - will hold parts up to 1,100 lbs (500 kg)		•
Robotic Welding Project Based Lesson (K3976-21) Offer instructors more than a dozen complete project curriculum designed to encourage active inquiry, higher level thinking and easy integration into advanced manufacturing education programs. Includes learning activities, step-by-step instructions and discussion questions.	•	•
Basic Robotic Programming Class 3-5 Days for up to 2 instructors	•	•
WeldPRO® Training (1-seat)		•
Fume Extraction Ventilation Hood	•	•

• Included • Optional

WeldPRO Training Program: Teach Programming and Welding Processes

WeldPRO Software and Training Program is only available with the ClassMate S Advanced Package (AD2446-5)

Software Package Includes:

- WeldPRO Simulation Software License**
- 12 month subscription per license (laptop not included)
 - Student Licenses (15 Seats)
 - Can be renewed annually
 - School has 90 days to register student licenses before 12 month student subscriptions start

- WeldPRO Offline Robot Programming**
- 2-Day Training Course (1-seat)
 - Training held in Cleveland, OH

ROBOTIC SYSTEM SPECIFICATIONS

Product Number	Input Power	Rated Output Current / Voltage/Duty Cycle	Input Current @ Rated Output	Output Range (A)	Dimensions H x W x L in (mm)	Weight lbs (kg)
AD2446-4	208/230/380-415/460/575/3/50/60	GMAW: 550/41.5/40% GMAW: 450/36.5/100%	40% Duty Cycle: 80/73/41/37/29 100% Duty Cycle: 60/54/30/27/21	5 - 550A	92 x 86 x 67 (2336.8 x 2184 x 1701.8)	1000 (453.5)
AD2446-5						

ROBOT SPECIFICATIONS

Robot & Controller	Axis	Maximum Payload lb (kg)	Arm Reach (mm)
FANUC® ARC Mate® 100iD/12 with ARC Mate R30iB+ Controller	6	26.4 (12)	1.42 (1420)

Safety/Weld Cell Controls

- CSA/UL certification ready system – PLEASE NOTE: Obtaining CSA/UL certification is the responsibility of the customer
- Fully integrated ANSI/RIA 15.06-2012 compliant operator safety devices including door safety switches
- RIA compliant robotic controller operator panel, robotic software and pendant
- Quantity 10, hand shields (personal protection equipment) supplied with robotic system

CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

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THE ONLY SINGLE-SOURCE AUTOMATION PROVIDER

Lincoln Electric Automation™ has built a solutions portfolio to include all of the competencies to support your need to improve productivity, quality and safety. Lincoln Electric Automation can modify or completely customize the creation of your weld cell to meet those precise needs.

With a global network of facilities and people, you'll get quick response and personalized attention. Contact us for more information on the types of solutions available to help you produce faster, more repeatable, higher quality results.



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