

CLASSMATE® COBOT

Collaborative Welding System



THE WELDING COBOT BUILT BY THE WELDING EXPERTS®

Across many industries, finding skilled welders is a challenge. In finding the best solution, automation is usually the most practical and cost-efficient answer.

We combined more than a century of welding knowhow, and our extensive automation experience with your real-world needs to create the Classmate Cobot. The Classmate Cobot is designed for safe, direct human interaction. It's the affordable, game-changing solution your classroom needs to advance their welding skills.

Ideal For »

- » High-Mix Job Shops
- » Repair & Remanufacturing
- » Part Resurfacing & Reconditioning
- » Roof & Bridge Trusses
- » Mechanical Contractors & Pipe Shops
- » Agricultural Equipment
- » Steel Fabricators & Metal Service Centers
- » Training & Educational Programs

The Go-There, Weld That Cobot. The Classmate Cobot robotic welding system easily moves to parts that need to be welded, takes very little floor space, and can be safely operated in your classroom.

WHAT'S INCLUDED:

- » FANUC® CRX 10iA with tablet based TP
- » Integrated pushbutton torch control
- » AutoDrive® 4R100 Wire Feeder
- » Power Wave® R450 Welder
- » Fixed welding table
- » Heavy duty casters
- » Stabilizing kickstand
- » Utility drawer & tablet tray

FEATURES INCLUDED:

- Hand shields (PPE), Qty. 10
- Complete System Documentation (Digital Copies)
- Robotic 3-in-1 welding fixture
- X-Tractor® Mini Portable Welding Fume Extractor
- Thick Plate Weld Bundle Software
- Wire spool holder
- Shipping Pre-paid

SYSTEM OPTIONS:

- » Modular Tooling Table & Components
- » In-Person Training / Onsite Startup Package

EDUCATIONAL WELDPRO PACKAGE:

- » WeldPro Offline Programming Software
- » Cert training program with 15 WeldPro seats
- » Virtual WeldPro training for instructor (2 day course)
- » Functional WeldPro 3D system model for WeldPro programming

BENEFITS:

INCREASE PRODUCTIVITY & WELD QUALITY

- » Welds with an industrial Fanuc® CRX robot driven by a Lincoln Electric Power Wave® R450 power source. The Power Wave software controls and monitors welding processes delivering the highest levels of weld quality and productivity – exactly what you need to be more competitive.

RELIABILITY

- » The CRX FANUC cobot features the same components and technology proven in the most rigorous industries for over 30 years. FANUC backs their reliability by providing a guarantee of eight years ZERO maintenance on motors, reducers, sensors, cables and grease.

SUPPORT TO HELP YOU SUCCEED AT AUTOMATION

- » We offer FREE on-line training, in-person training classes, the support of 275 technical sales representatives, and the expertise of 115 robot technicians.

EASY TO USE PROGRAMMING



Lead Through Teach

- Fluidly guide the arm into the correct location by hand using the torch-mounted enabling device
- Use torch handle to manipulate the finishing push and weld angles when in the joint

Dual-Action Pushbutton Interface

- Pushbuttons designed directly into the torch allow any skill-level operator to teach points easily and create programs fast
- Record points directly at the torch and reduce cumbersome programming
- Record approach points with one button and weld start/end with the other
- Illuminated buttons indicate when points have been recorded



Touch Panel Tablet Teach Pendant

- The new tablet teach pendant, featuring icon-based, timeline programming reduces the learning curve. Simply swipe icons in or out of the timeline, or tap them to modify.

Lincoln Arc Welding Plug-In

- Receives input directly from pushbuttons at the integrated torch, automatically recording points on the timeline
- Operator can clearly see specific arc start/end points on timeline and “tap” to change weld parameters

Product Name	Product Number	System Dimensions L x W x H in (mm)	Robotic Arm Payload	Robotic Arm Reach	System Weight lb (kg)	Fixed Table Work Envelope in (mm)	Fixed Table Payload lb (kg)
ClassMate Cobot	AD2446-12	60 (1524) x 32 (812) x 67 (1701)	22lb (10kg)	49.2 (1,249mm)	895 (407)	30 x 20 (762 x 508)	500 (226)

Conditions:

Users and employers have the sole responsibility for and control over workplace conditions, including the manner in which work is performed and the safety measures taken. Always read and follow applicable regulations, such as OSHA, as well as all information on product labeling, operator's manuals, and safety data sheets when using Lincoln Electric products. Safety data sheets for Lincoln Electric products can be found at <http://www.lincolnelectric.com/en-us/support/msds/Pages/sds-search.aspx>. Users and employers should have an industrial hygienist check worker exposure levels to be certain that they are within applicable limits, such as OSHA PEL and ACGIH TLV limits, for the particular application or weldment.

CUSTOMER ASSISTANCE POLICY

The business of Lincoln Electric is manufacturing and selling high quality welding equipment, automated welding systems, consumables, and cutting equipment. Our challenge is to meet the needs of our customers, who are experts in their fields, and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or technical information about their use of our products. Our employees respond to inquiries to the best of their ability based on information and specifications 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, or to provide engineering advice in relation to a specific situation. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or communications. Moreover, the provision of such information or technical information does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or technical information, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose or any other equivalent or similar warranty is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the definition of specifications, and the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

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The Lincoln Electric Company
22801 St. Clair Avenue · Cleveland, OH · 44117-1199 · U.S.A.

www.lincolnelectric.com/automation