

CLASSMATE LASER COBOT

EDUCATION ROBOTIC TRAINERS



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Laser welding and collaborative robotics are cutting-edge innovations in the trades. ClassMate® laser cobots combine the power of both to introduce robotic laser welding to students. The carts are designed to move anywhere you need to weld with a laser-enclosure built on top of the cart, providing a Class 1-safe laser for the classroom. Designed to simulate industry operations, these system will help prepare students for real-life applications.

SYSTEM INCLUDES

- FANUC® CRX-10iA/L™ cobot with teach pendant
- Flex Lase 20 power source
- Flex Feed® 25L cold wire feeder
- Tips, nozzles, and drive rolls
- Spare optics cover slides and spare focus lens
- X-Tractor® Mini welding fume extractor
- Fixed welding table
- Mobile cart
- On-cart CDRH Class 1 laser enclosure
- 3-in-1 welding fixture

KEY FEATURES

- Flex Feed® 25L wire feeder
- Flex Lase 20 power source
- HyperFill® One-Pak® accessory (optional add-on)
- Integrated laser safety features (details on page 2)

BENEFITS

- Fully Integrated Robotic Programming (details on page 2)
- Easy Onboarding
- Fast Welding Speeds
- High-Precision Welding
- Industry-Driven Design
- Dedicated Automation Services Team

OPTIONS AVAILABLE

- Ed-Start package (details on page 2)
- 150lb table top welding positioner (AD1043-84)
- Cooper® cobot cart clamp kit

INDUSTRIES

- Education

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LASER SAFETY

The fully interlocked and secure CDRH Class 1 laser enclosure features large, 270°-hinged double doors and sliding top section that opens, providing highly versatile cart access for programming from three sides.

The Flex Lase power source was designed with several safety features to help facilitate safe operation.

- Emergency stop
- Safety interlocking system
- Key switch to secure the equipment
- Shielding gas detection alarm

FULLY INTEGRATED ROBOTIC PROGRAMMING

We transformed handheld-laser-based cobotic welding into a truly automation-ready process. The laser behaves as a native process tool within the cobot rather than a separate, patched together machine. The result is a seamless, codework-ready, and highly productive laser welding solution built for real manufacturing environments.

- In-program control of 20+ laser and wire parameters
- Real-time status feedback for logic-driven automation
- External interaction with the separate laser machine control panel is not required
- Lockable or password-protected procedures for compliance and repeatability

ED-START PACKAGE

- On-site application technician startup assistance
- 1-on-1 training and support for instructors
- Recommended for all first-time robotic welding customers
- Welding Gear Ready-Pak® personal protective equipment, Qty 2
- Welding coupons to practice a variety of welds and programming techniques



PRODUCT SPECIFICATIONS

Product Number	Model	Cart Dimensions L x W x H in (mm)	Robotic Arm Payload lb (kg)	Robot Arm Reach in (mm)	System Weight lb (kg)	System Work Envelope in (mm)	Fixed Table Payload lb (kg)
AD2446-29	ClassMate Laser Cobot	114 x 61 x 89 (2,896 x 1,549 x 2,261)	22 (10)	55.8 (1,418)	1200 (544)	46 x 48 (1,168 x 1,219)	500 (226)

Input Power Voltage/Phase/Hertz	Rated Output	Input Current @ Rated Output	Output Range	Net Weight lb (kg)
200-240 / 1 / 50/60	2000W	36.4 A	200-2000W	500 (226)

CUSTOMER ASSISTANCE POLICY

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