

Robotic Welding Training Solutions

Why Choose the Cobot Mod-Weld for Your Classroom?

FANUC's Industry-Leading Technology

The Cobot Mod-Weld system is built on the FANUC CRX Cobot series, renowned for its reliability and ease of use. FANUC is the only cobot provider offering an 8-year Zero Maintenance guarantee, ensuring minimal downtime and operational costs for your institution. Additionally, with FANUC's "Service for Life", you can be confident that your system will be supported for as long as it's in use—no end-of-life concerns, just long-lasting, high-quality performance.

Simple, Intuitive Programming

Forget complicated teach pendants. With the Cobot Mod-Weld system, students program the cobot using a tablet-based interface. This intuitive drag-and-drop system allows learners to quickly set up, modify, and run welding programs, giving them real-world experience in automation while simplifying the learning curve.

Education-Focused Design

Every program has unique needs, which is why the Cobot Mod-Weld system is customizable. Whether you are outfitting a single classroom or an entire lab, we provide tailored solutions that fit your educational goals.

- **Built for Education:** Designed with input from educators and industry professionals, the Cobot Mod-Weld system ensures students learn on equipment that mirrors what they'll encounter in the workplace.
- **Scalable for Your Program:** From single cobot systems to multi-station setups, we offer options that grow with your curriculum.
- **Ongoing Support:** From installation to training, we provide full support to get your system up and running, along with educational resources and tutorials to help students and instructors alike.


Unlock hands-on learning with the Mod-Weld Cobot, the premier robotic welding solution designed specifically for education.


This versatile system combines FANUC's industry-leading cobot technology with an intuitive, student-friendly interface, providing the perfect platform for teaching advanced welding and automation skills in schools, colleges, and technical training programs.



Enhance your Training Curriculum *with Automation*

Incorporating robotic welding into your training program equips students with hands-on skills for careers in advanced manufacturing.

 1-800-445-1088

 tech-labs.com





MOD-WELD Cart

The MOD-WELD is designed exclusively for the FANUC CRX-10iA/L industrial collaborative robot, a proven, reliable model from FANUC's trusted product line.

This cobot is renowned for its easy setup, programming, and operation, making it ideal for both beginners and experienced users in educational settings.

- **Power Supply Options:** Choose between the Miller Auto-Continuum or Fronius TPS/i, both providing high-quality welding capabilities with torch and wire feed included.
- **Clever Torch Technology:** Equipped with APT Clever Torch software for simple, intuitive robot teaching, featuring a dedicated teach button for precise control.
- **Ergonomic and Mobile Design:** The cart is built with 6" casters for easy movement, a lockable tablet holder, and a robust 40" x 58.5" top plate with 16mm 2" center holes for secure clamping and fixture hold down.
- **Expandable Workspace:** The base model is ready to accept up to 4 side carts, expanding the work area to accommodate larger fixtures or multiple setups, enhancing flexibility in educational environments.
- **Weld Material Compatibility:** The system is configured to weld steel (hard metal) by default, with additional options available for soft metals.

The MOD-WELD provides an all-in-one, customizable solution for teaching robotic welding, with the added advantage of FANUC's industry-leading reliability and Clever Torch technology for easy learning and operation.



MOD-WELD Traveler

The Traveler System is designed around the FANUC CRX25 Cobot, providing a 74" reach to handle larger parts and fixtures. Built on a mobile base, it carries all necessary welding components, making it a fully integrated system for versatile use in educational workshops.

- **Mobile & Stable:** The Traveler is equipped with outriggers for stability and a removable tank holder positioned ergonomically close to the ground for easy tank changes.
- **Complete Setup:** All welding components are included on the mobile base, making it a fully integrated system for students to explore advanced robotic applications.
- **Chiller or Cooler Compatibility:** Unlike the cart system, the Traveler's design allows a chiller or cooler to be placed under the power supply, maximizing space efficiency. On the cart, the chiller must be mounted behind the power supply.

By offering this level of flexibility and innovation, the Traveler is an ideal solution for hands-on, advanced robotic welding education.



APT Manufacturing Solutions provides advanced robotic and automation training systems tailored for education. With over 30 years of experience, APT offers modular workstations and training solutions for robotics, CNC machining, and more, helping students build essential skills for modern manufacturing.



FANUC is a global leader in robotics and automation, trusted for its reliable cobots and CNC systems. With features like the 8-year Zero Maintenance guarantee, FANUC's technology equips students with hands-on experience in automation and robotics for a range of industries.



Fronius is a leader in welding innovation, offering efficient and precise welding systems like the TPSi series. Known for sustainability and advanced technology, Fronius equipment provides students with real-world skills in automated and manual welding processes.