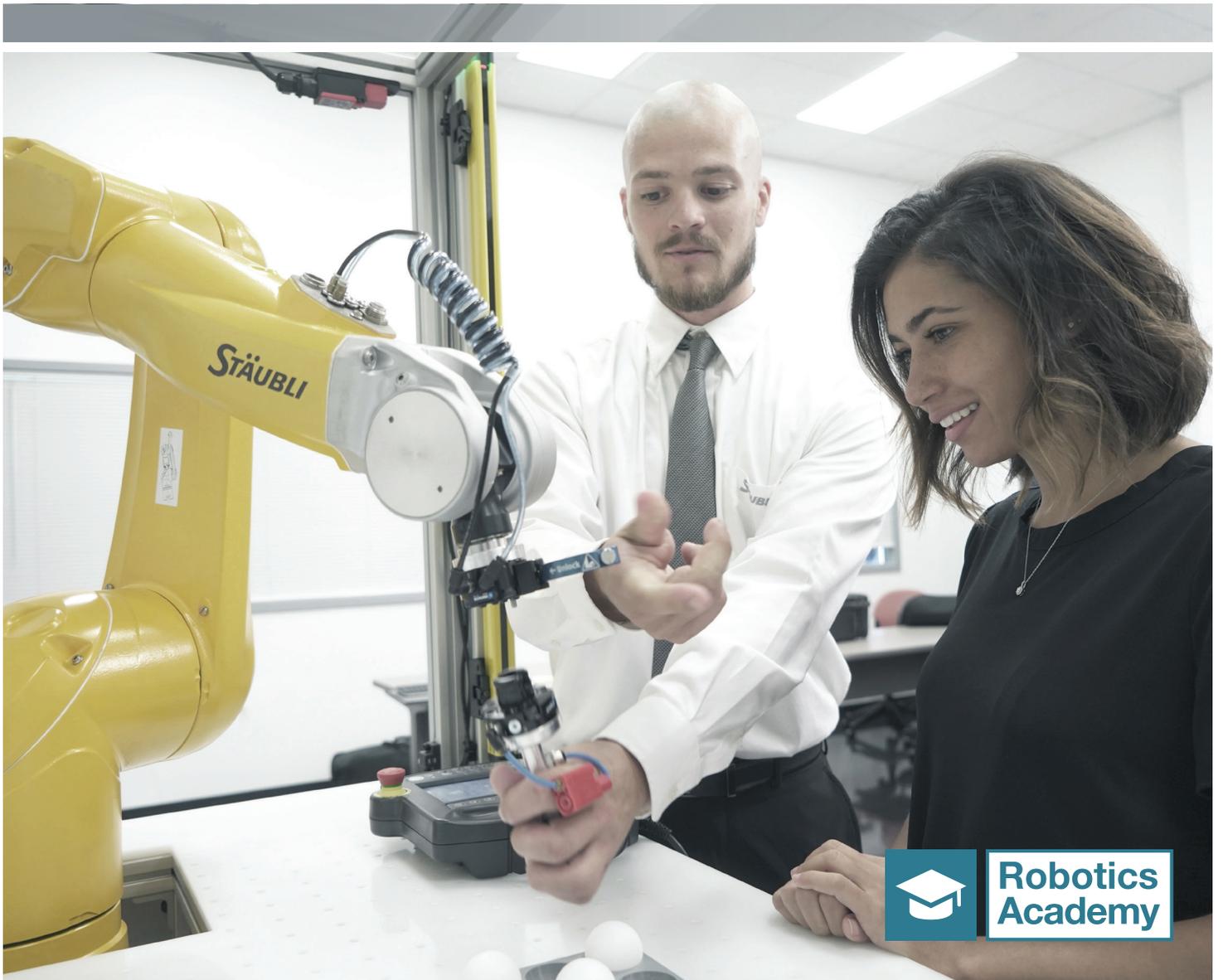


Prepare your students for Industry 4.0

Robotics | Collaborative teaching cell



**Robotics
Academy**

COLLABORATIVE TEACHING CELL

Standard package

Full turnkey solution

Robotic System



- Collaborative six-axis : TX2-40, TX2-60 or TX2-60L
- 4-axis SCARA - TS2-40 or TS2-60

Light Curtains



- Keyence GL-R48H Safety light curtain

EOAT*



- Piab VGS2010 Vacuum Gripper with suction cup

HMI Interface



- Raspberry Pi HMI
- 7" Touchscreen
- CodeSys License Installed
- Industrial Ethernet Protocols Supported

Teaching Tools



- Gravity Feeder
- Pallets (x2)
- Parts
- Trajectory Plate

SP2 Teach Pendant



- Compact, robust, lightweight and ergonomic
- 7 "color LCD touch screen
- Customizable user page (HMI mode)
- Portrait or landscape view (rotating support)
- User interface provided

CS9 Controller



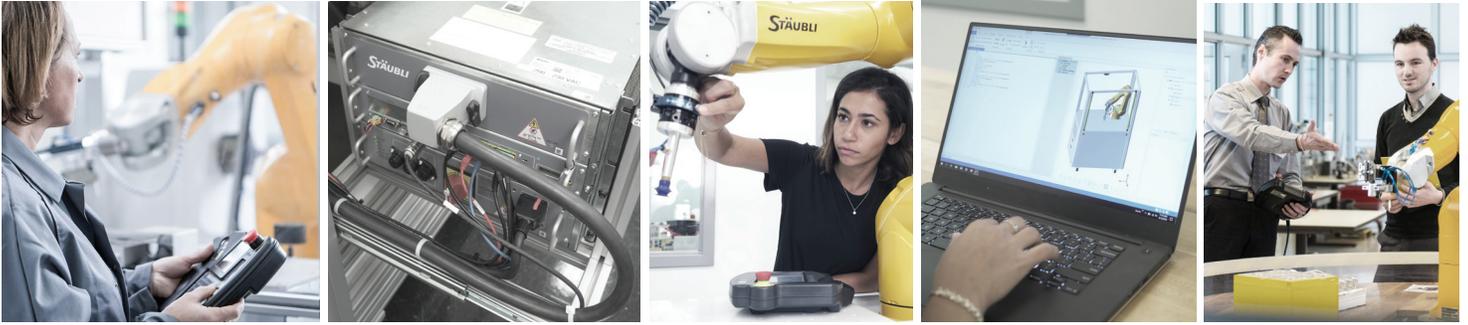
- Easy access for maintenance
- EtherCAT IO modules included (16I/12O)
- Supports all communication protocols
- High powered CPU based Controller with real-time and industrial OS
- Multi-tasking with unlimited synchronized tasks
- EtherCAT master
- Two real time Ethernet based field bus systems
- OPC/UA Compatibility
- Web server with wireless accessibility
- 120 VAC 1ph or 208 VAC 3ph power supply
- SafeCell+ Safety License installed SIL3 PLe including Safe stop, Safe Speed, Safe Zone and Safe tool functions

Mobile Cell



- Rolling design
- Leveling casters
- Aluminum frame with powder coated panels
- Dimensions: L 1230 x W 800 x H 1965
Mass: 700kg

* End of arm tooling



CUSTOMIZING YOUR CELL

Options available for your teaching cell

Compressor

- Flow: 1.0CFM
- Volume: 0.8gal
- Fits inside the base for seamless integration



Programming with PLC language

- uniVAL PLC License
- Library of function blocks



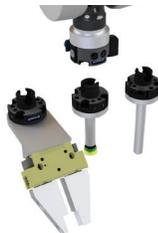
Conveyor and tracking

- Dorner 2200 Series Conveyor
- VALtrack license included for easy development of conveyor tracking applications



Additional EOAT* and accessories

- SCHUNK Manual Tool Changer
- Includes Robot Side and 3x Tool Side:
- Piab VGS2010 Vacuum Tool
- Schunk PGN+ Pneumatic Gripper
- Pointer for calibrations



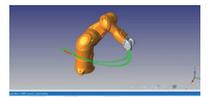
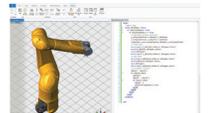
Industrial machine vision

- Cognex In-Sight 8200
- Direct integration to CS9 with standard libraries



Offline 3D programming software

- Staubli Robotics Suite 2019 (Local or Network License Dongle)
- All robot models available in multiple configurations
- Offline application editing and testing
- All the functionalities are presented as large icons
- Fully customizable layout to easily display all the necessary elements and simplify the creation of the robot cell
- Deep integration of the VAL3 editor with the 3D scene
- Simultaneous operation of several robots
- Compatible with the new TX2-TS2-CS9 range of robots



Closed cell option

- Fully-enclosed cell
- Light curtains replaced with doors
- Required for TS2 arms



Laser Scanner

- Keyence SZ-04M Area Scanner
- Two included for complete coverage around cell
- Can optionally remove the hard guarding and light curtain



* End of arm tooling



■ Stäubli Units ○ Agents

Global presence of the Stäubli Group

www.staubli.com

About us

Accelerating productivity through innovative mechatronics solutions

Stäubli is a mechatronics solutions provider with three dedicated activities: Connectors, Robotics and Textile. With a global workforce of over 5,500, the company generates annual turnover surpassing 1.3 billion Swiss francs. Originally founded in 1892 as a small workshop in Horgen/Zürich, today Stäubli is an international group headquartered in Pfäffikon, Switzerland. Worldwide, Stäubli operates fourteen industrial production sites and 29 business units, with a network of agents in 50 countries, delivering innovative solutions to all industries.

History and future

Founded in 1892 as a family-owned workshop on the bank of Lake Zürich, Stäubli is a pioneer in mechatronics, rooted in a proud heritage of quality craftsmanship. We are also a forward-thinking organization, on a continual quest for the next great innovation that will help our customers work more productively, efficiently, and sustainably.

www.staubli.com

For further information:
www.staubli.com/contacts