EduCart™
Fenceless Robotic Training Platform

Key Benefits
Teach robotics with the same industrial equipment used in factories
Comes as a complete, modular package ready to use with your curriculum
Designed to work safely without the need for physical fence
Highly portable unit folds to fit through a standard doorway and expands to increase work envelope

Applications
Training
STEM Programs

- Pre-engineered, Industry 4.0-ready solution is ideal for classrooms, labs, training centers and manufacturing/mechatronic programs.
- Lightweight extruded aluminum cart comes fully equipped with a suite of industrial grade academic tools to meet the requirements of secondary and post-secondary educational programs.
- Fenceless design folds for transport and expands to provide an increased work envelope.
- Six-axis GP8 robot with YRC1000 micro controller offers reliable, industrial performance for training.
- Platform includes a suite of basic educational software and controller I/O software options tailored for teaching/learning environments.
- Includes a quiet Schunk electric gripper with 3D printed fingers.
- Fold-up tabletop and fold-in windows allow the cart to easily fit through a standard 36” doorway.
- Replaceable magnetic teaching mat provides virtually unlimited curriculum options, including palletizing and path following. Source files to create customized mats included.
- Integrated laser safety scanner offers 270 degrees of unobstructed coverage for a safe working zone.
- Robot play speed is limited to 25% for safety.
- Plexiglass guard provides additional safety from rear. Must be placed within 2” of wall for safety.
- Adjustable leveling casters allow for easy transportation and stable deployment.
- Dry-erase table top provides convenient marking/writing surface.
- Includes the following teaching aids; blocks, nest, TCP and robot pointer, and XYZ frame reference.
- Comes with YRC1000 standard teach pendant for programming, I/O control and monitoring.
Optional Equipment

- Vision kit – Cognex In-Sight® Micro camera and Yaskawa Motoman’s Pendant Vision application software. View images and receive information about camera status. Integrates communication directly into the robot programming language.

Electrical Requirements

- 110V; no additional power supply is required