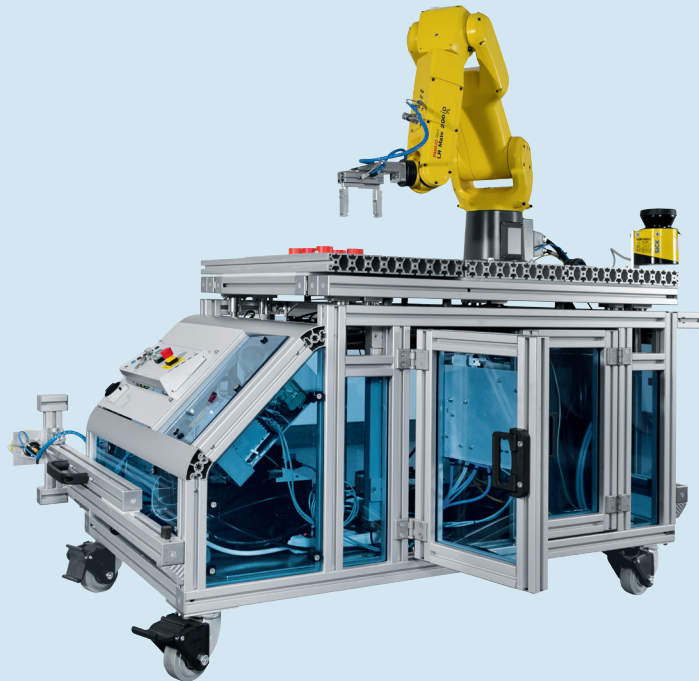


Robot Training (RT) Cart

FESTO



Industrial Robot Integration

Industrial robots define the modern manufacturing environment and are used to fulfill new applications and jobs that continue to grow with technology. As the central component of materials movement, robots must seamlessly interface with assembly line equipment and machine tools. This robotics integration represents a key discipline that requires training of technicians and engineers.

The Robot Training (RT) Cart is a versatile training platform for programs designed for machine tool operators, robot technicians, or equipment designers: a mobile robot lab that interfaces its own mechanics and controls with machine tools and other Festo Didactic training modules in the classroom.

The RT Cart provides state-of-the-art enhancements to your educational programs, ensuring that your graduates enter the job market with the skills that are relevant to manufacturing employers.

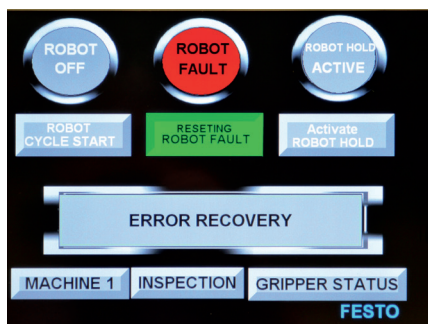
Benefits

- Perform exercises for machine tool and robot integration without sacrificing floor space for a rail or installing an overhead gantry
- Standard design uses the Fanuc LR Mate, one of industry's most popular robots
- All major integration techniques are explored
- State-of-the-art safety laser scanner
- Compact design for easy movement and transportation (fits through standard-sized doors)

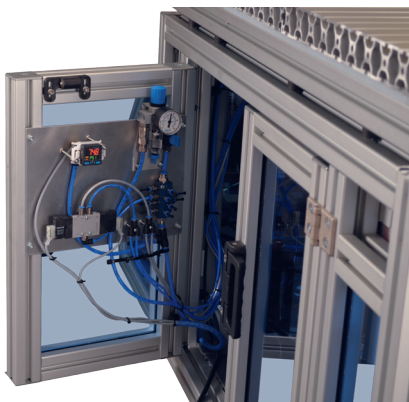
Robot Training (RT) Cart



Operator panel and electronic controls



HMI Training Screen



Pneumatics application area

Learning Objectives

The RT Cart guides students through basic industrial robot programming skills, enabling them to seamlessly advance to more complex robot integration exercises on the same platform. Basic skills covered include:

- Manual pendant operation
- Robot palletizing routines
- Part inspection techniques
- Contour tracing and mapping
- Coordinate systems

As students gain knowledge and ability, they will perform more advanced exercises such as:

- Programming robot using I/O signals from either a machine tool or Festo Didactic modular training equipment
- Programming Rockwell Automation Compact Logix PLC with RSLogix software
- Designing and implementing machine safety

Robot Training Cart Features

- Six-axis Fanuc LR Mate industrial robot
- Height-adjustable hydraulic platform with mechanical safety for machine tool alignment; or use with Festo Didactic MPS or Cyber-Physical Factory training equipment
- Safety laser scanner
- Easy-access pneumatics sub-panel
- Removable industry-standard profile plate with application accessories
- Easy-access controls subpanel
- Optional GE, Siemens, or Rockwell HMI
- Locking pneumatic magnets
- 30" width fits through standard doorways
- Aesthetically-appealing aluminum construction with blue-tinted, acrylic panels
- Locking casters

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