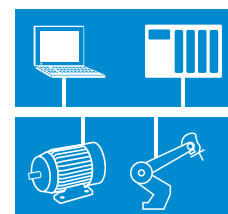


Training Systems for Robotics

Using training robots to make complex robotics topics easy to understand and master



Training Systems for Robotics

Starting Off in the World of Robotics

Robots play an important role in modern, highly automated and efficient production processes. The “Fundamentals of Robotics Technology” training set takes a step-by-step approach to introducing future automation technicians or mechatronics specialists to the basic principles, as well as training them how to operate and program robots and it even demonstrates optimised interaction with automation systems.

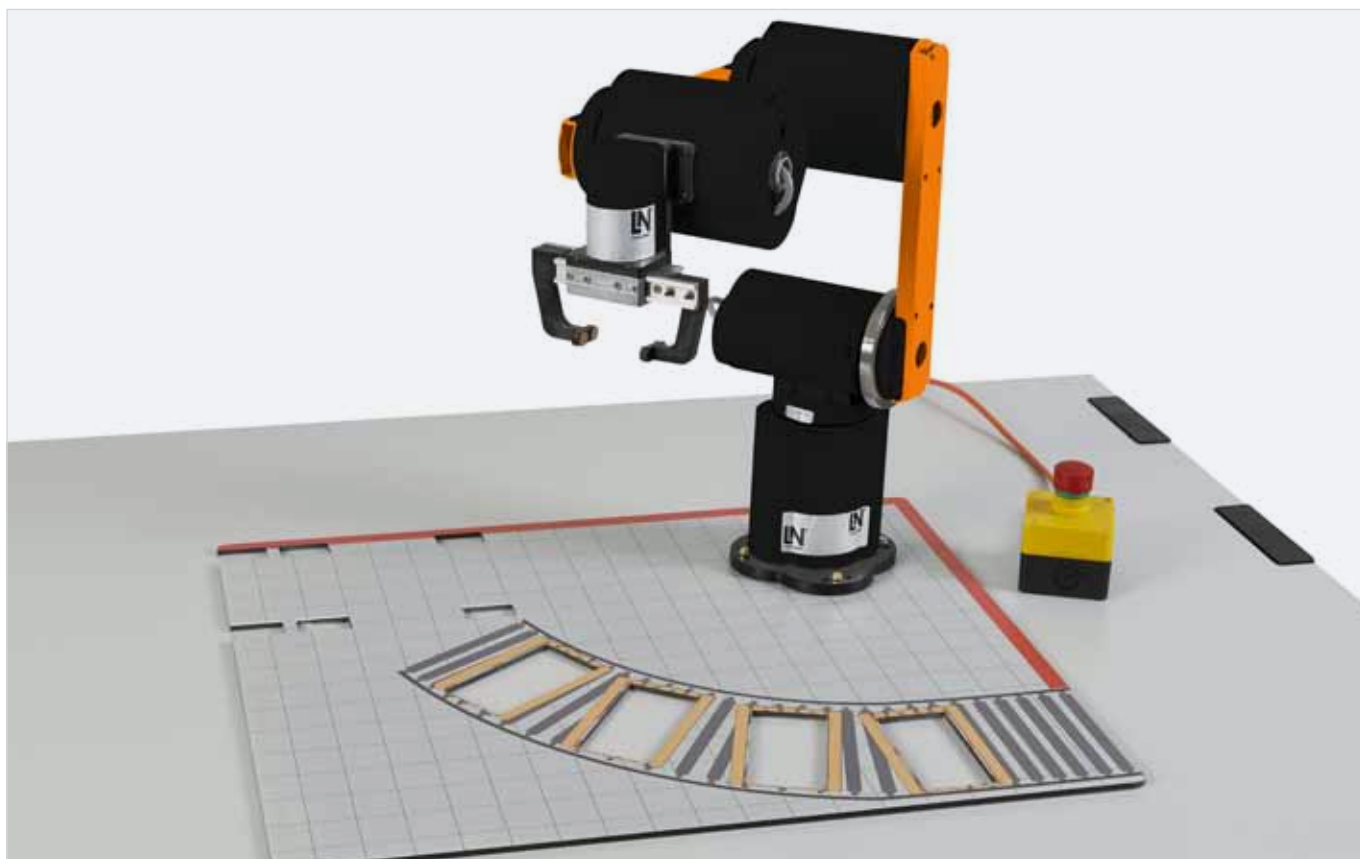


Benefits to you

- Multimedia course conveys the theoretical material and includes animations, experiment instructions and evaluations
- Full coverage of theory needed to understand a multi-axis robot and associated safety precautions
- Intrinsically safe unit (no safety precautions required)
- Includes many attractive experiments involving a 4-axis robot, conveyor belt and programmable logic control (PLC)
- 3D simulation software supplied with set enables robot to be programmed
- Skills trained and learned here can easily be applied to industrial robots

The Training System

The **Mover4** is a 4-axis robot arm for deployment in schools and colleges. Using the Mover4, realistic automation scenarios can be emulated. It serves as the motion platform and combines physics, mathematics and IT with tangible realism. The robot arm possesses four serial axes, allowing it to move in space and tilt its gripper hand to a given angle.

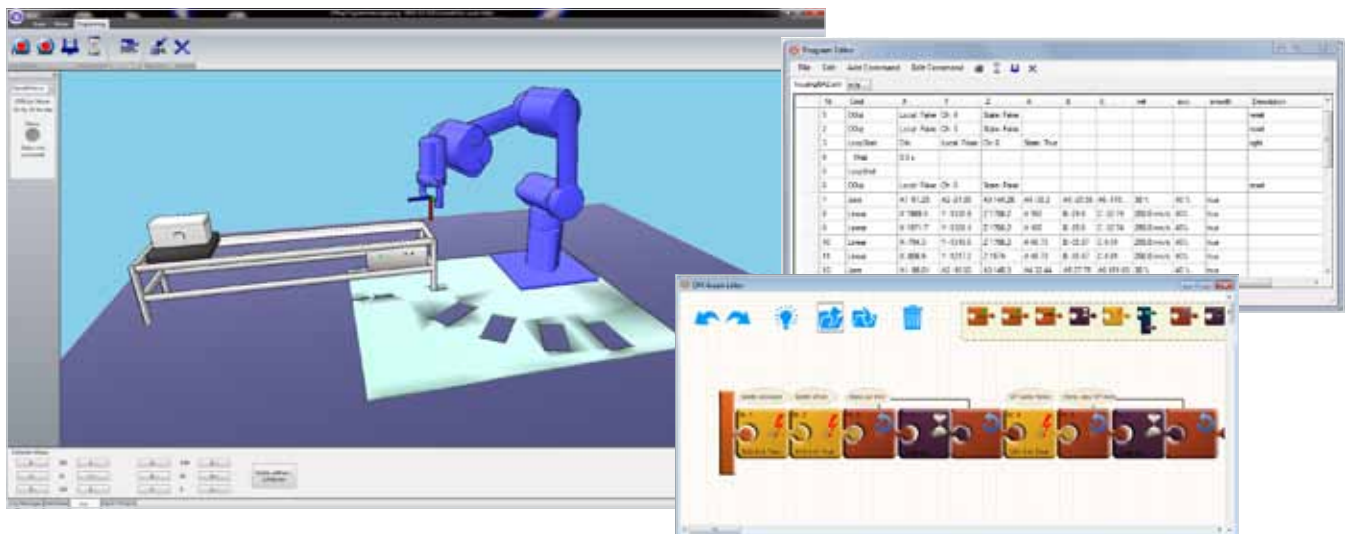


Benefits to you

- 3D programming software
- Payload: 500 g
- Max. reach: 550 mm with gripper
- Electrically-operated parallel gripper
- Ports: 9-pin I/O, programmable CAN interface
- Positioning accuracy: 1 mm
- Weight: 3.5 kg
- Power connection: 12 V via 230-V mains power unit, < 60W
- PC required for control

3D Programming Software

With its modern interface surface and interactive 3D graphics the **CPRog control software** provides a direct introduction to arm movement. The robot can be operated either via keyboard or joystick. Programs can be written and edited using a graphical or text-based editor. The licensing allows for a classroom installation.



Benefits to you

- Parallel operation and programming (3D modelling and real robot arm)
- Stand-alone programming (3D model only)
- Integration of static and dynamic objects into the 3D environment
- Professional programming with loops and subroutines

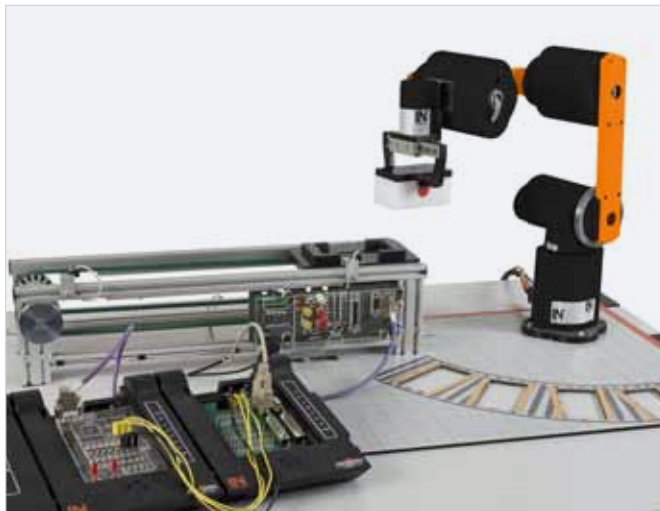


Connect the basic robot kit to our mechatronics system

Our mechatronics system (IMS[®]) offers multiple options for the assembly of a variety of production lines. Regardless of the IMS[®] production line selected, the robot is the perfect complement. Thanks to the universally designed base plate, connection to a conveyor belt or to a production line is practically child's play.

The Fundamentals of Robotics Technology Using UniTrain-I

With the UniTrain-I “Fundamentals of Robotics Technology” course you can quickly learn the basic concepts of robotics and operate a real robot. Skills learned here can be applied to any industrial robot. Entering the world of robotics is easy now with the CRT 11 equipment set.

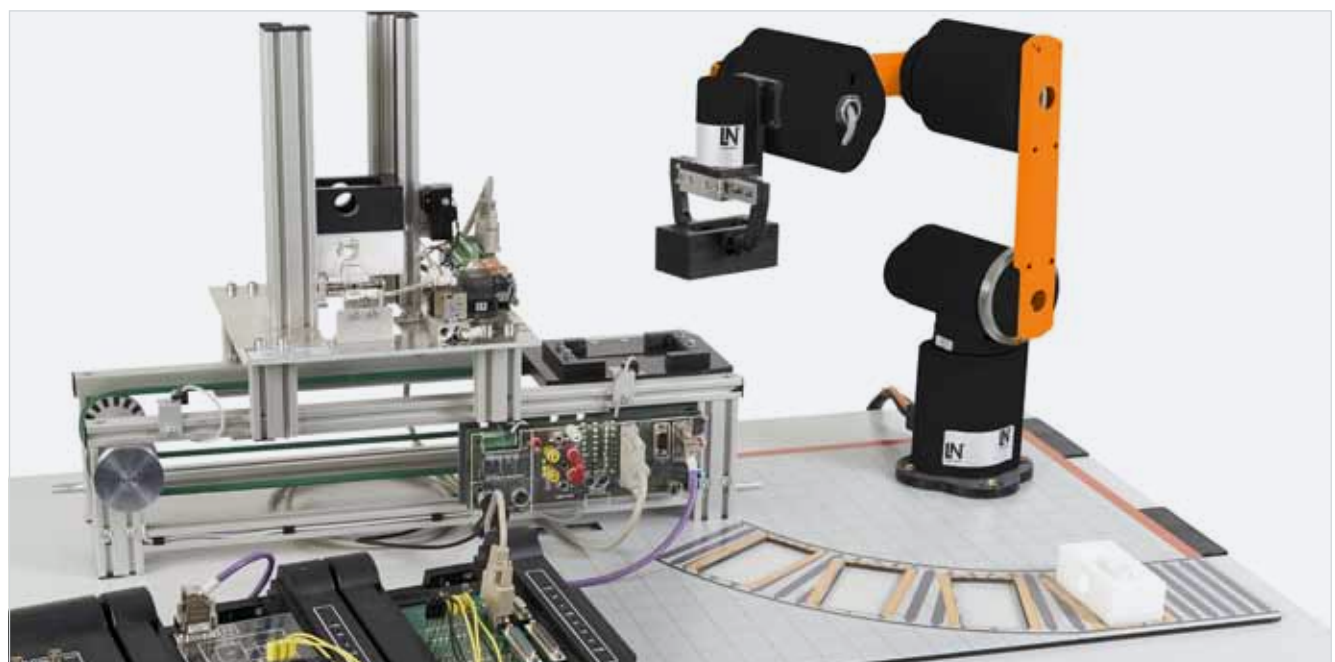


Training contents

- Manual robot operating procedure
- Programming movements
- Robot coordinate systems
- Velocity and acceleration
- Singularities and symmetries
- Digital inputs and outputs
- Typical programming patterns
- Programming structures
- Concluding experiment

Robotics Technology in Conjunction with Mechatronics Applications

Supplement the CRT 11 equipment set by adding a mechatronics station. Use the four pallet slots on the base plate and program entire operating sequences for mechatronics applications.



Lucas-Nülle GmbH

Siemensstraße 2 · D-50170 Kerpen-Sindorf
Telephone: +49 2273 567-0 · Fax: +49 2273 567-39
www.lucas-nuelle.com



*Additional information can
be found in our catalogue on
Automation Technology*

