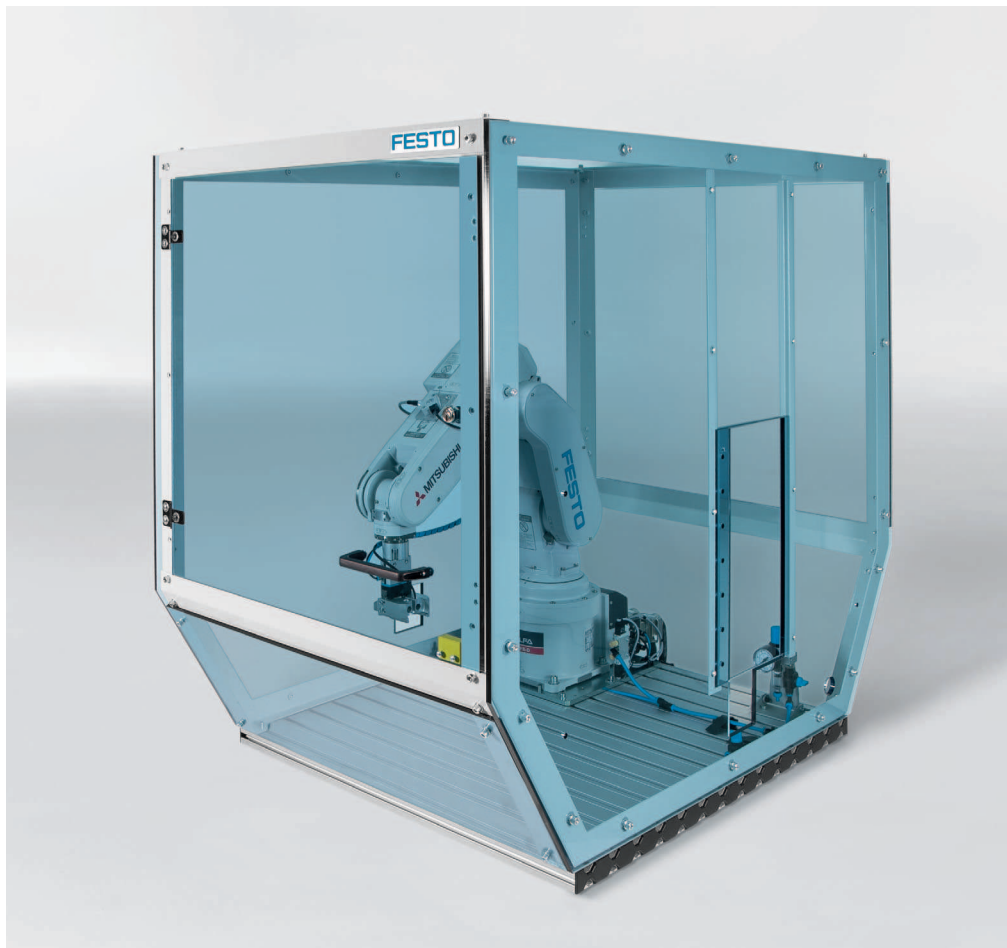


Robot station

The base for your robot applications

New



Function

The robot station includes the new 6-axis articulated arm robot RV-2FB by Mitsubishi Electric. This industrial robot combines a sturdy engineering design and construction with a large working range and a high movement speed.

In the basic design, the station is equipped with a robot controller, Teachbox, safety housing, service unit and pneumatic multifunction gripper. Additional MPS® modules are available for your individual robot applications.

Topic: Industrial robotics

In flexible automation, industrial robots are among the most important components. They allow automated processes to be adjusted rapidly. The MPS® robot station and its equipment levels make processes and tasks possible which are required in industrial production for commissioning and adjustment of robot-based work cells.

Fit for research:

the real-time interface

The robot's controller is able to adopt setpoint values for the axes via a network connection. This allows you to develop your own robot controller.



Robot station	8039312
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Additional equipment, also order:

MPS trolley, 700 x 350 → Page 346	
Control console, SysLink, 700 mm	8039325
Tabletop power supply unit → Page 239	
Robot handling module	8038620
Robot assembly module	8038740
Robot interface box	534364
Graphical operator terminal	8039317

Battery set for robot RV-2FB	572162
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Note:

The robot's batteries feature a buffer period of one year and must therefore be replaced every year.

Recommended accessories:

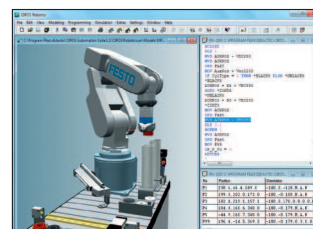
Workpiece set "For cylinder assembly"	162239
Programming instructions for Mitsubishi robot RV-2FB, de/en	8039315
Technical manual for Mitsubishi robot RV-2FB, de/en	8039316

The most important components at a glance:

1x Aluminium profile plate 700 x 700	159410
1x Robot RV-2FB with Teachbox R32TB	3396765
1x Gripper, pneumatic	573859
1x Safety housing	8039314
1x Start-up valve with filter control valve	540691

CIROS® programming and simulation software

CIROS® is a professional basic and further training tool that makes programming and simulation of a precision robot extremely easy and safe.
→ Pages 40 – 45



Training content

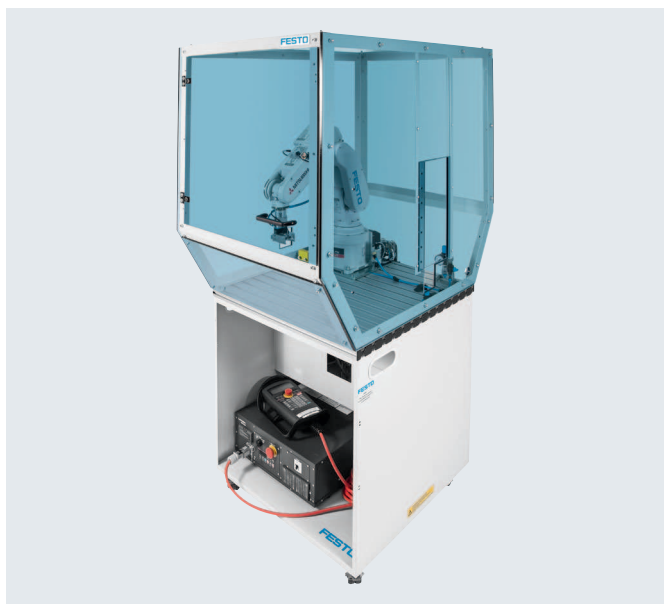
- Mechanical structure of a robot station
- Mode of operation and applications of optical sensors
- Use of safety switches
- Areas of application of industrial robots
- Terminology in robot technology
- Teaching robots in different coordinate systems
- Moving robots in object coordinate system

Technical data

- Power supply: 230 V AC
- Operating pressure: 600 kPa (6 bar)
- Maximum workpiece width: 40 mm
- 1 digital input
- 2 digital outputs

More learning and research systems for robot technology:

- Robot Vision Cell
→ Pages 358 – 361
- Robotino
→ Pages 258 – 269



Robot station with additional equipment



Robot RV-2FB with Teachbox R32TB
High-precision 6-axis articulated arm robot with gear units by Harmonic Drive AG and brakes on all axes. Complete with control unit, programming cable, battery set and a standard handheld terminal R32TB.

Order no. 3396765



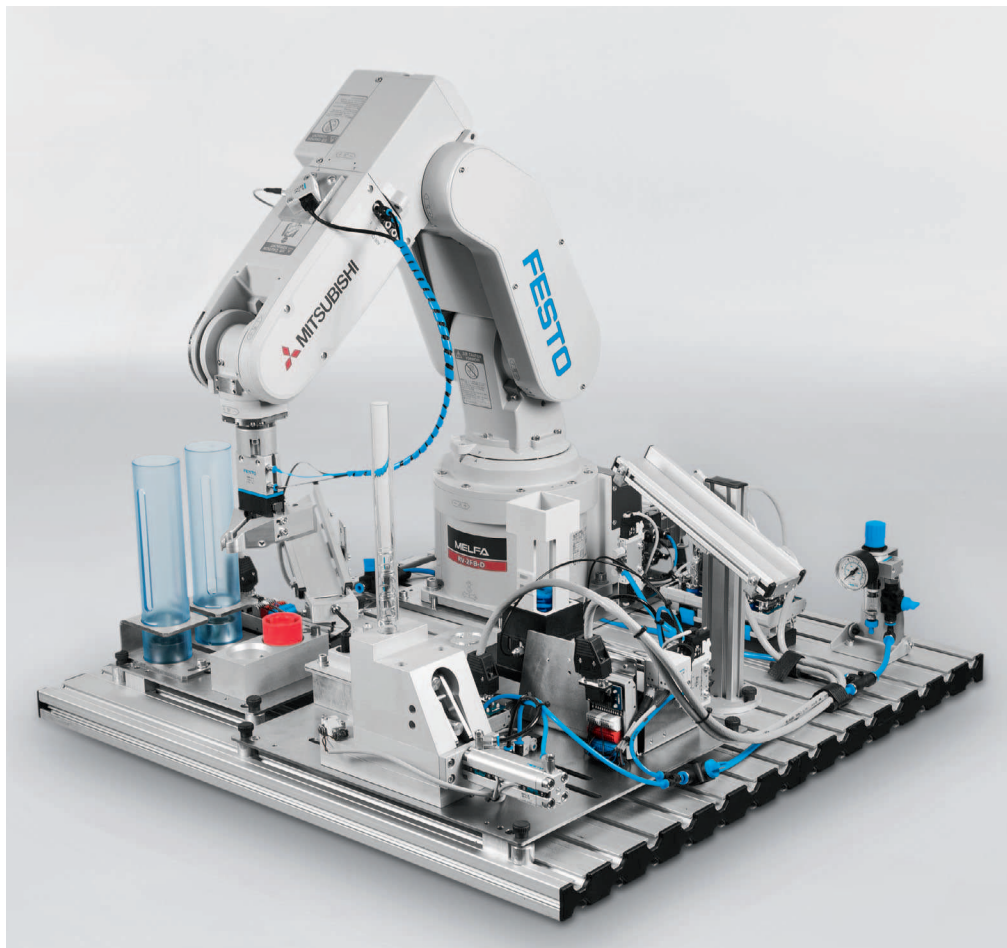
Robot RV-2FB with R56TB touch panel
High-precision 6-axis articulated arm robot with gear units by Harmonic Drive AG and brakes on all axes. Complete with control unit, programming cable, battery set and handheld terminal R56TB, which conveniently provides all programming functions via a 6.5" graphical touchscreen.

Order no. 3481428

Robot station with MPS® modules

The equipment level as an introduction to industrial robotics

New



Function

This equipment level is created based on the basic design of the MPS® robot station and the two robot handling and robot assembly modules as a introduction to industrial robotics. The upstream station feeds the bodies of the pneumatic cylinders to be assembled to the robot via a slide. The robot determines the orientation of the bodies and places them in the assembly holder in the correct orientation. It takes the piston from the pallet and assembles it in the body. Controlled magazines feed the piston springs and cylinder end caps to the robot. The fully assembled pneumatic cylinder is then placed on a slide.

Topic: Handling and assembly

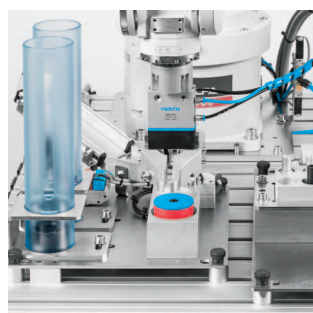
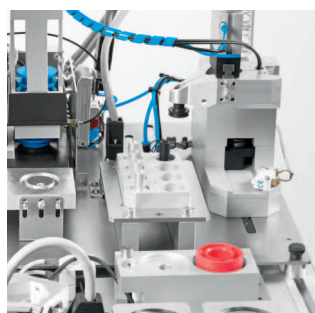
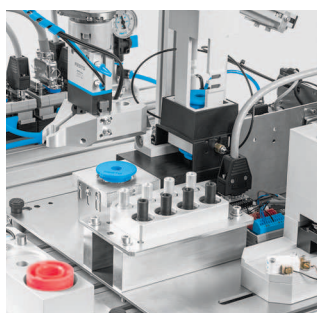
In many industrial applications, robots handle and assemble workpieces and modules. Getting to know these areas of application is an essential part of an introduction to robotics.

Training content

- Integration of an industrial robot in an assembly process
- Teaching of robots in complex assembly environments
- Commissioning of complex systems
- Maintenance, servicing and troubleshooting of complex systems
- Programming of industrial robots combined with the integration of sensors and additional actuators
- Programming of multitasking applications

Technical data

- Power supply: 230 V AC
- Operating pressure: 600 kPa (6 bar)
- Maximum workpiece width: 40 mm
- 12 digital inputs
- 5 digital outputs



Order no.

8039313