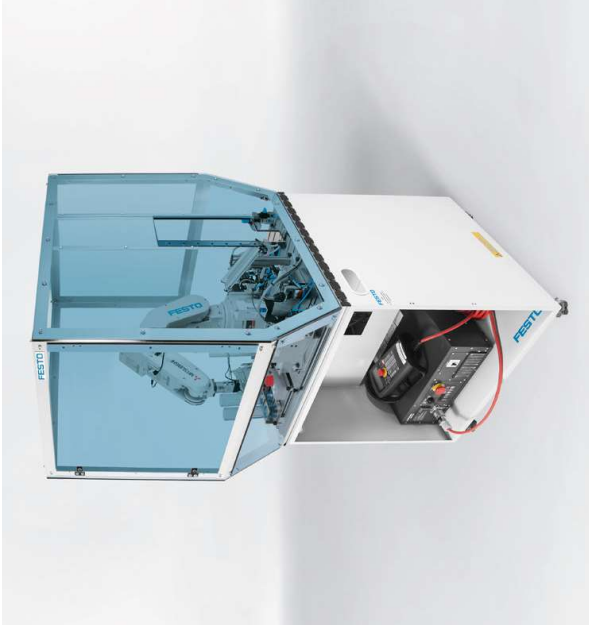


Robot station with MPS modules

The equipment level as an introduction to industrial robotics



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.

Developed in accordance with the EU Machinery Directive 2006/42/EC in compliance with DIN EN 60204-1 and DIN EN ISO 12100.



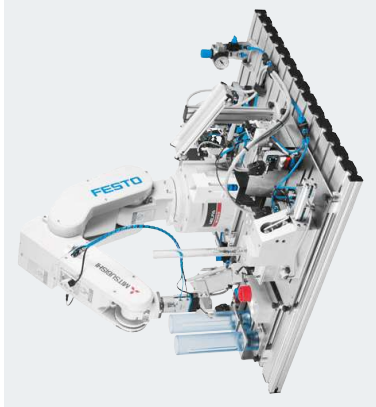
Robot station with MPS modules, complete		8039313
Battery set for robot RV-25DB/ RV-2FB		572162
Note		
The robot's batteries feature a buffer period of one year and must therefore be replaced every year.		
Recommended accessories:		
Workpiece set "For cylinder assembly"		162239
Programming instructions for Mitsubishi robot RV-2FB, en		8039315
Technical manual for Mitsubishi robot RV-2FB, en		8039316
The most important components at a glance:		
MPS table, 700 x 700		541139
Aluminum profile plate 700 x 700		129410
Safety housing		8039314
Control console, SysLink, 700 mm		8039325
Tabletop power supply unit → Page 147		
Robot handling module → Page 146		
Robot assembly module → Page 146		
Robot interface box		8046131
Graphical operator terminal		8039317
Robot RV-2FB with Teachbox R32TB		3396765
Gripper, pneumatic		573859
Start-up valve with filter control valve		
CIROS, License package with 6x Education, 1x Studio → Pages 122 – 127		540691

Technical data

- Power supply: 230 V AC
- Operating pressure:
 - page 148
 - 600 kPa (6 bar)
- Maximum workpiece width: 40 mm
- 12 digital input
 - page 150
- 5 digital outputs

More learning and research systems for robotics:

- Robot Vision Cell
 - page 148
- Robotino
 - page 150



Robot station with MPS modules in detail

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

eTheory courses

- Introduction to Robotics



- CIROS – First steps

eLab courses

- CIROS – Basics of 3D Simulation

Workbook

- Handling with industrial robots

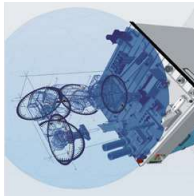


Evaluations

- Basics of Robotics

User Guides

- CIROS – Installation Instructions



Optimally coordinated:
The included CIROS package supports the tasks from the workbook