

Storing station

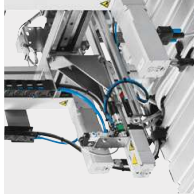
Challenging, up-to-date, mechatronic overall system

New

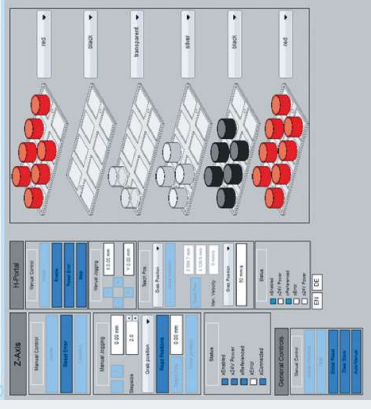


The MPS storing station addresses, among other things, the topics of parameterization and commissioning of multi-axis controllers and advanced PLC programming. Workpieces can be stored on several high rack storage levels using a combination of sensors and actuators during the process sequence. A modern web interface serves as a state-of-the-art HMI.

The storing station can differentiate workpieces based on their colour and store up to 48 workpieces on six levels. It is also possible to additionally store cardboard boxes by adjusting the tray and the actuator. The workpiece or the cardboard box is identified on the conveyor module by a combination of sensors and the parameterization of the multi-axis controller. A pneumatic gripper fastened to a stepper motor with gear rack picks the workpiece or the cardboard box from the conveyor and places it in the storage area. The storage area can be located either at the beginning (removal from storage) or at the end (placement into storage) of a production line, or as a buffer station within a production line, by means of appropriate programming. The position of the gripper can be registered by means of the encoder on the motor. Position teaching is possible by means of password-protected user management. 3D simulation software with integrated simulated PLC and error simulation is available for the station. The control panel and a PLC turn the station into an automated system. The station can process different workpieces with a diameter/edge length of 4.0 mm.



8082795	Storing station with trolley
Additional equipment, also order:	
Control console, SysLink	195764
EduTrainer Universal AX Rack with SIMATIC S7-1512C-PM	805754
3x I/O data cable with SysLink connectors (IEEE 488)	34031
IEC power cable → Page 195	
Tabletop power supply unit, additionally	8049633
Recommended accessories:	
Simulation box, digital	170643
I/O data cable with SysLink connectors (IEEE 488), crossover	162106
PA workpiece set	554301
The most important components at a glance:	
1x MPS trolley 700 x 350	8033248
1x Aluminum profile plate, 700 x 350 mm, with cable guide	170395
1x Horizontal with Z-axis and motor controller	On request
1x Detection module	8044527
1x Conveyor module, 350 x 40 mm, DC motor	8032692
1x Workpiece holder	On request
1x Start-up valve with filter control valve	540691
1x Cable holder with hook-and-loop fastener (pack of 10)	8034300
1x I/O-terminal	8025736
1x Festo CECC CODESYS V2 compact controller	8023951



Web Interface

Recommended training media

Courseware
Complete overview → page 270

For example:

eLearning course

- Sensors for Object Sensing
- Pneumatic Fundamentals
- GRAFCET



eTheory course

- CIROS – First steps

eLab course

- CIROS – Basics of 3D Simulation



Evaluation

- Basics of Pneumatics
- Basics of PLC Programming
- Basics of GRAFCET Programming

User Guides

- CIROS – Installation Instructions