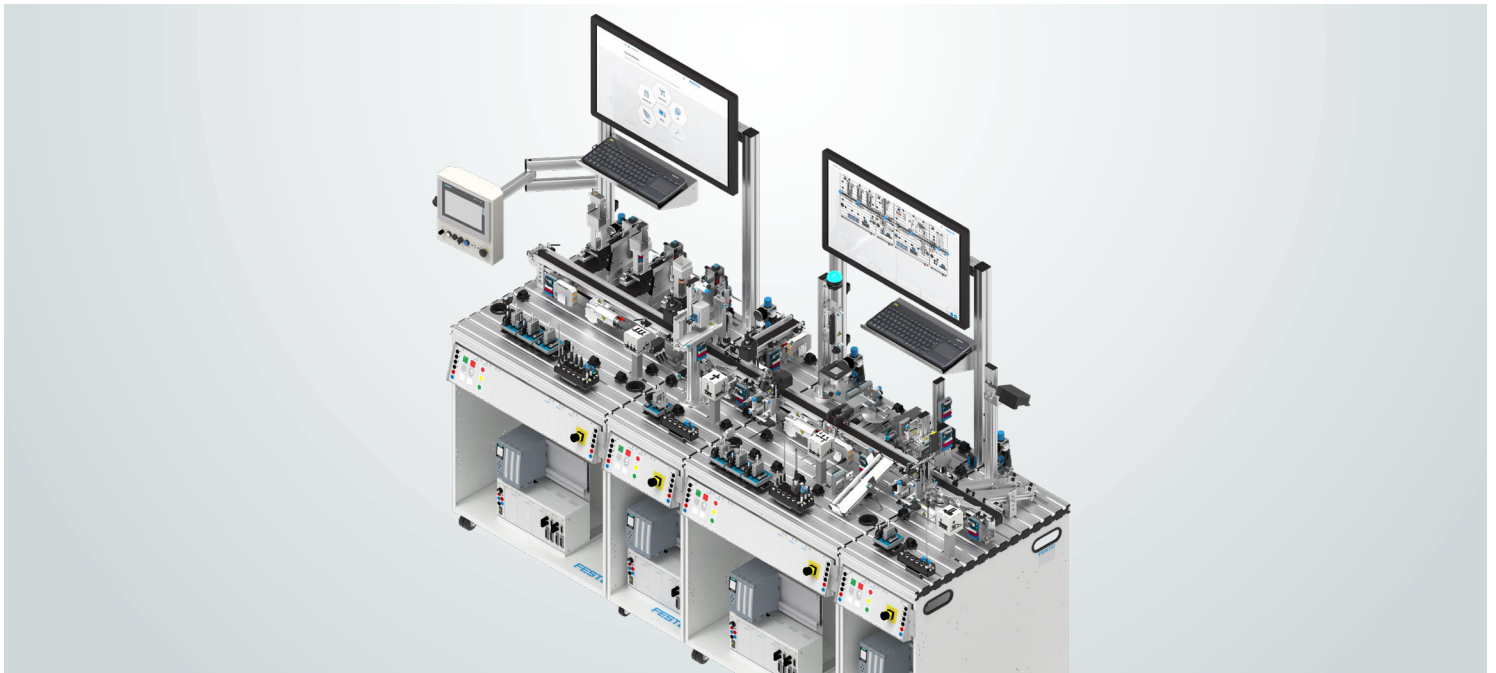# Advanced Industry 4.0 Training Platform: MPS 404-1 Plus

One learning system for mechatronics and Industry 4.0

FESTO

Highlights

- Addresses most important Industry 4.0 topics
- Comprehensive learning material enables structured and flexible teaching
- Learning support through AR and QR technology
- Easy to understand teaching of complex topics such as HMI, network technology, RFID, and smart sensors
- Comprehensive Machine Learning capability and courseware included
- Training included, onsite or online

Industry 4.0 and mechatronics

The MPS 404-1 Plus is a small production line consisting of four stations:

- Distributing Pro
- Joining
- Measuring Pro
- Sorting Inline

The MPS processes work orders which have been entered into the Didactic MES.

Integrated Radio Frequency Identification tags in the workpiece capture the customer instructions which are read and interpreted at each MPS station – and updated with the operation performed with a corresponding time stamp.

Didactic MES

The didactically prepared, web-based software environment, is used to control and monitor the system, and is operated via a touch display and a keyboard.
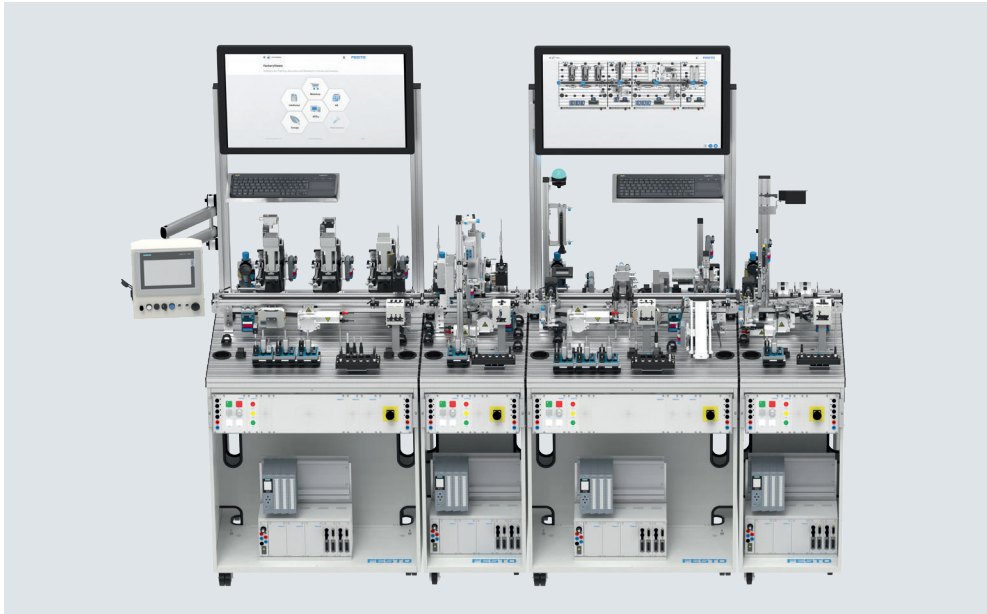
The top of the software pyramid is a specially developed MES designed for teaching and learning purposes.

The software environment can be extended by further didactically designed applications. Depending on the role and learning scenario, different information is displayed to the user and prepared accordingly.

i4.0

Advanced Industry 4.0 Training Platform: MPS 404-1 Plus

One learning system for mechatronics and Industry 4.0

One learning system for all professions and job roles related to mechatronics and Industry 4.0

Addressed learning contents

- Basics of mechatronics and automation technology
- Programming of industrial touch panels
- Integration of intelligent
- Sensors on IO-link basis
- Industrial communication protocols like OPC-UA
- New business models through
- industrial IoT retrofitting
- Artificial Intelligence and Machine Learning using the example of image processing
- Networking of several stations in an MES environment
- HMI using the example of augmented reality and web interfaces
- Integration of RFID and network technology
- Measuring of both height and weight of workpieces
- Manufacturing of customer-specific products
- Connection of web shops to production facilities

Learning support

We offer extensive learning material in print and online media which fits perfectly with the MPS 404-1 Plus. Our modular hardware and courseware structure enable flexible learning paths, which can be individually adapted to the desired competencies to be trained.

The learning process is supported by Augmented Reality (AR). Optical markers such as QR codes and AR markers enable the learner to quickly and specifically retrieve relevant technical information on the current learning unit or module.

Extensibility

As usual, you have the possibility to expand the MPS learning system with new learning content by adding further stations.

Depending on your requirements, optional add-on packages can be purchased to open up further learning fields and technology areas such as:

- IT security
- energy management
- AC drives
- machine safety
- mobile robotics

MPS 404-1 Plus	19955252

Main components:

1x	Distribution Pro Building Block
1x	Joining Building Block
1x	Measuring Pro Building Block
1x	Sorting Inline Building Block

Included services for MPS 404-1 Plus:

Installation and commissioning
Online or onsite instructor training

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