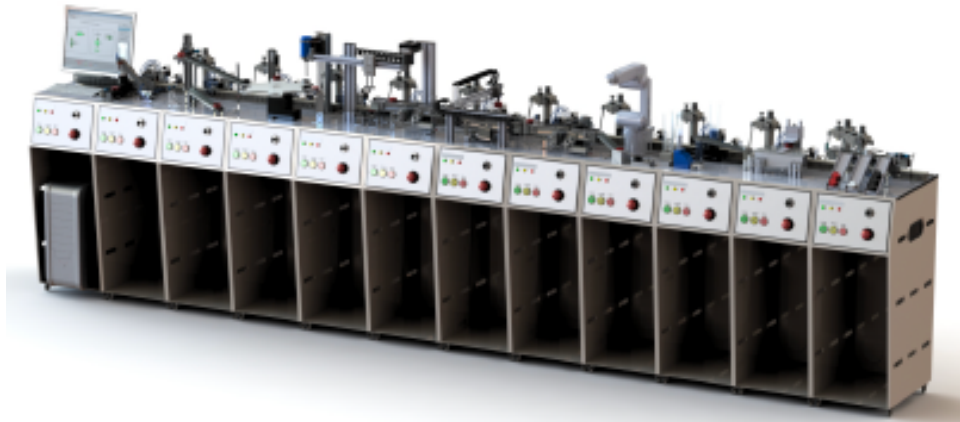


Modular Production System (S12)

Test Bench



Overview

The Modular Production System (S12) laboratory test bench has been developed as a model for the study of production line automatic control and monitoring. The processes and the material flow in Modular Production System (S12) is an image of a real production and distribution enterprise. The experimental setup enables control of all stations and can be used by students and research groups for the develop similar systems.

System consists of the following stations:

- enterprise resource planning station;
- raw material storing station;
- checking station;
- production station;
- handling station;
- machine vision station;
- horizontal storage station;
- recycling station;
- robot station;
- positioning of the lid station;
- fluid muscle press station;
- sorting station.

List of Labs

1. The study of Enterprise Resource Planning Station
2. The study of Raw Material Storing Station
3. The study of Checking Station
4. The study of Production Station
5. The study of Handling Station
6. The study of Machine Vision Station
7. The study of Horizontal Storage Station
8. The study of Recycling Station
9. The study of Robot Station
10. The study of Positioning of the Lid Station
11. The study of Fluid Muscle Press Station
12. The study of Sorting Station

Control Modes

1. Manual mode
2. Programming mode
3. Automation sequential mode
4. Automation parallel mode

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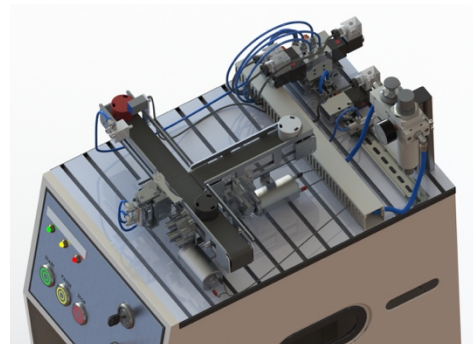
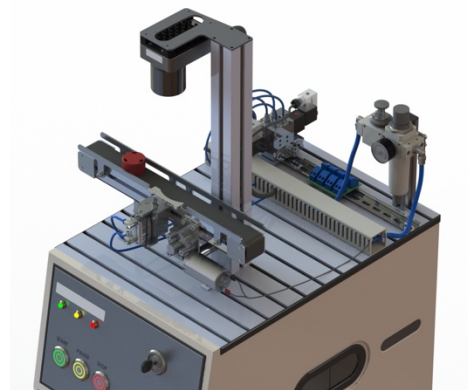
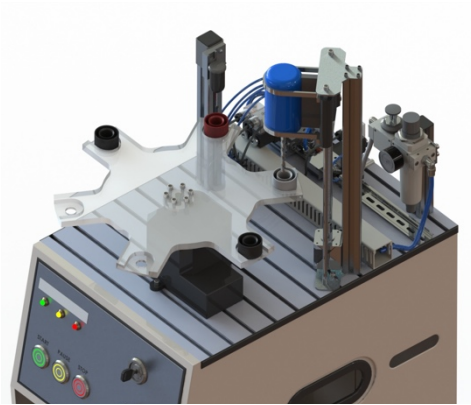
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Technologies

1. Pneumatic technology
2. Vacuum technology
3. Sensor technology
4. Machine vision
5. DC motor

The *Modular Production System (S12)* laboratory test bench based on the NI myRIO control-measuring equipment.

Course software has been developed in the NI LabVIEW Graphical Programming Environment.



The test bench is designed for college and university students.

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