

ROTARY ARM MODULE

Mod. MCE-590/EV

Mod. MCE-590/EV transfers the piece from a modular station to the next one. It consists of a manipulator with a double effect cylinder for the up/down movement, a rotating cylinder for the piece transfer from a position to the next one and a pneumatic gripper for picking pieces up. Industrial sensors control the motion of the pneumatic devices.

The module is assembled on a sectioned aluminium base, and it can be easily moved around the laboratory.

Mod. MCE-590/EV can be fully controlled using a PLC module or an Arduino microprocessor. Thanks to the PLC or Arduino programming software, a wide range of exercises regarding the automation of the module in a working cycle or in stand-alone mode can be developed.

TRAINING PROGRAM

- Fundamentals of Electro-pneumatics
- Operating a solenoid electrovalve
- Operating a pneumatic cylinder
- Operating a "Pick / Place" unit with pneumatic gripper
- Operating a set of automated sensors
- PLC control
- Microprocessor control

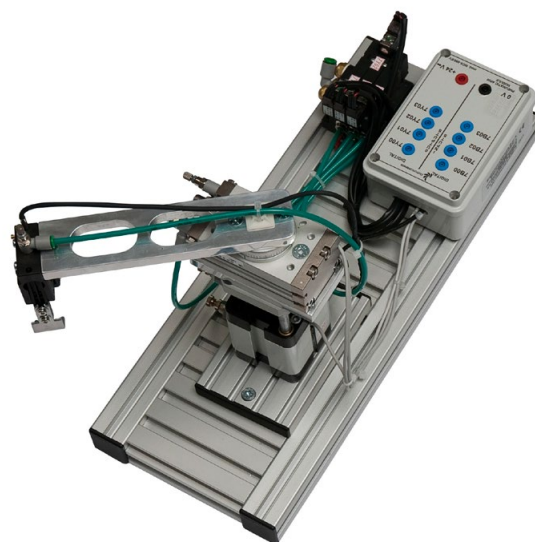
TECHNICAL SPECIFICATIONS

Modular unit assembled on a sectioned aluminium structure. It includes an I/O interface box with Ø 2 mm terminals that, besides working as control board for the module, enables the students to carry out electrical measurements on its components.

The module can be operated using:

- No. 1 PLC training panel mod. PLC-V8/EV, or
- No. 1 Arduino training panel mod. MPC-18/EV

Power supply (24 Vcc) is provided by the PLC itself or using a MPC-18/EV module.



Sensors and actuators:

- No. 3 Magnetic sensors
- No. 1 Inductive sensor
- No. 2 Monostable electrovalves
- No. 1 Bistable electrovalve

Module inputs and outputs:

- No. 4 Digital inputs
- No. 4 Digital outputs

Dimensions: 160 x 400 x 250 mm

Weight: approx. 3 kg

REQUIRED

UTILITIES (PROVIDED BY THE CUSTOMER)

- Compressed air supply: 5...6 bar

SUPPLIED WITH

THEORETICAL-EXPERIMENTAL HANDBOOK

Presentation of the equipment, experiments, technical specifications with electric and pneumatic diagrams, use and maintenance.

