



## ROBOT - BASIC MANIPULATOR



### TECHNICAL SPECIFICATIONS

- 6--axis connection controlled by MIC
- 3-axis connection controlled by PLC
- Servo driven axis, long term
- Position accuracy: 0.1 degree
- Power supply: single-phase from the mains
- Axes range:
  - 1° axis: 180°
  - 2° axis: 180°
  - 3° axis: 145°
  - 4° axis: 180°
  - 5° axis: 180°
  - 6° axis: Adjustment of the clamp
- Work range: 400mm
- Max. speed per axis: 180 degrees/s
- Max. load: 250 g

## DL ROBOT

### TRAINING OBJECTIVES

Basic manipulator developed for teaching, demonstration, practical training and design in relation to the mechatronic, automation and information technology principles.

Thanks to this product, it is possible to understand the mechanical structure of the robots used in the industrial sectors, design and execute debugging procedures for the control of the system, analyze and solve problems that occur in an actual operational process.

Based on the order code, it is possible to change the control unit by choosing between a microcontroller and a PLC.

### ORDER CODE

- **DL ROBOT-PLC**  
**(controlled by PLC)**
  - PLC - 2080-LC30-48QVB: 28DI, 20DO, 3PTO
  - Manual control panel
- **DL ROBOT-MIC**  
**(controlled by microcontroller)**
  - ARM Cortex: M3, 8DI, 8DO, 6PTO
  - Manual control panel

### EXPERIMENTS

- Software programming–learning
- Single axis control
- 6-axes combined control (MIC)
- 3-axes combined control (PLC)
- Soldering simulation