Miniature Cartesian Manipulator

This educational workstation featuring a three-axis model demonstrates a pick-and-place application simulating surface processing. The device is suitable for teaching various topics in mechatronics and automation, covering the fundamentals of PLC controller programming, digital technology and sensor integration. The setup comes with pre-designed tasks for students and technical documentation.

Technical Specifications for the Miniature Cartesian Manipulator:

- Constructed from aluminum profiles
- Dimensions: approximately 400x400x447mm
- Weight: approximately 8kg
- Control Panel – aluminum plate with 9 backlit buttons, 2 knobs, an emergency button, and signal lights
- Siemens KTP400 Basic HMI Panel included, with RJ45 cable and WinCC Basic software license
- 24V DC motors with gearboxes and limit switches
- Connectors: 37-pin SUB-D connectors (2 pieces, for inputs and outputs), additional 4mm safety sockets
- Workpieces: cylinders made of white and black PVC with a 20mm diameter and ferromagnetic core – 3 pieces