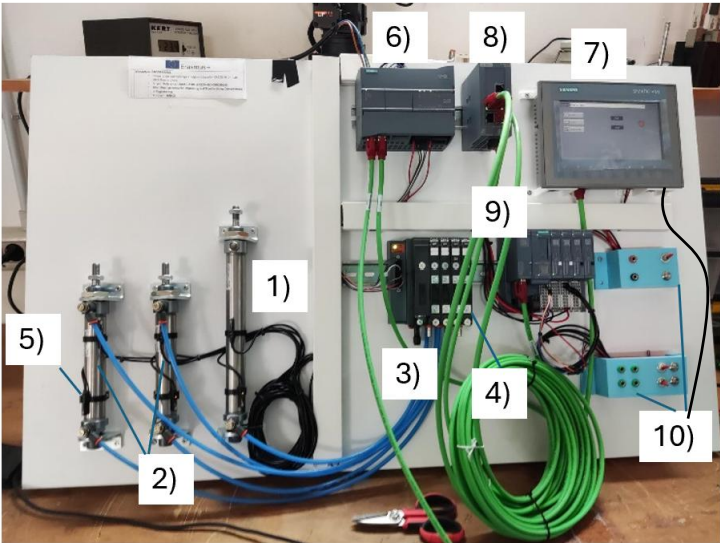
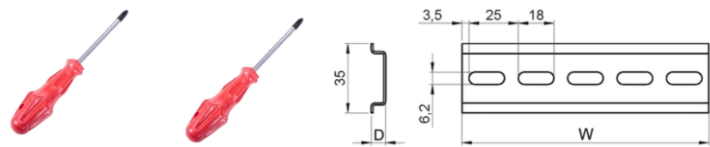


List of Parts



- 1. n.1 Single acting pneumatic cylinder;
- 2. n.2 Double acting pneumatic cylinder
- 3. n.3 5/2 (five ways, two positions) pneumatic valve with electrical actuation
- 4. n.1 2x3/2 (double three ways/two positions) pneumatic valve with electrical actuation
- 5. n.6 magnetic reed (sensor for the end-stroke cylinder acquisition)
- 6. n.1 Siemens PLC of type 1215C
- 7. n.1 Siemens HMI of type Comfort Basic
- 8. n.1 Hub switch Simatic
- 9. n.1 SIMATIC ET 200SP
- 10. n.2 3D printed parts; push-button, power supply and IN-Out devices
- 11. Planar board
- 12. n.5 Pneumatic Flow regulator

List of Tools



- 1. n.2 Screw driver, Philips and FlatHead;
- 2. n.32 Screw
- 3. n.3 Din 35mm guide (W=25 cm)

Procedure

- 1. Step 1: Screw the 3D printed parts (Fig 1) in their desidered position onto the board;
- 2. Step 2: Screw all the parts in their desidered position onto the board;
- 3. Step 3: Install the flow regulator to the cylinder and connect the pneumatic valves following the Fig. 2;
- 4. Step 4: Connect the parts 6, 7, 8 and 9, following the Fig.3
- 5. Step 5: Connect the parts 6 following the Fig.4
- 6. Step 6: Connect the part 9, following the Fig.5

