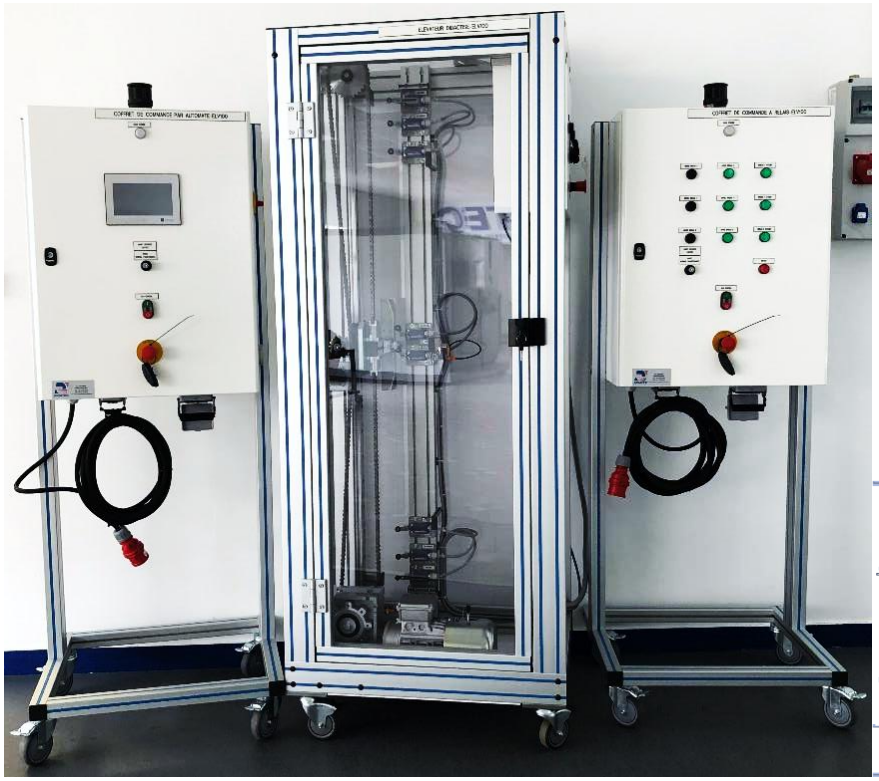
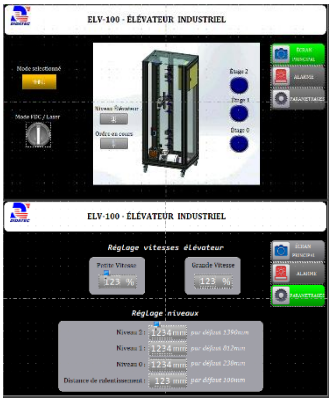
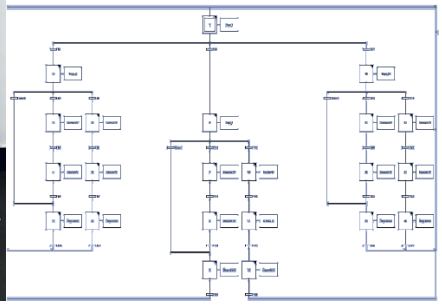
ELV100

LIFT TRAINING SYSTEM







TRAINING APPLICATIONS

- **Study and maintenance of a 3-level lift mechanism and its 2 interchangeable industrial control cabinets (PLC-based or relay-based), each with its own variable speed drive.**
- **2 independent cabinets providing 2 separate workstations.**
- **Electrical fault-finding: a junction box with disconnect terminals on the lift mechanism, inaccessible to learners, allows instructors to simulate electrical faults.**
- **Lot of spare parts provided (sensor, light, contact, relay, position switch, etc...)**
- **Programming a PLC and colour touchscreen display.**
- **Study and programming of a variable frequency drive (acceleration/deceleration, multiple speeds, current limit, etc.).**
- **Study and adjustment of position sensors, limit switches, laser distance sensors and retro-reflective optical sensors.**
- **System maintenance and mechanical adjustment (torque limiter, chain tension, linear ball-bearing guides, tensioner, etc.).**
- **Relevant courses and levels: lift engineering, automation, industrial maintenance and electrical engineering, from French vocational baccalaureate to BTS level.**

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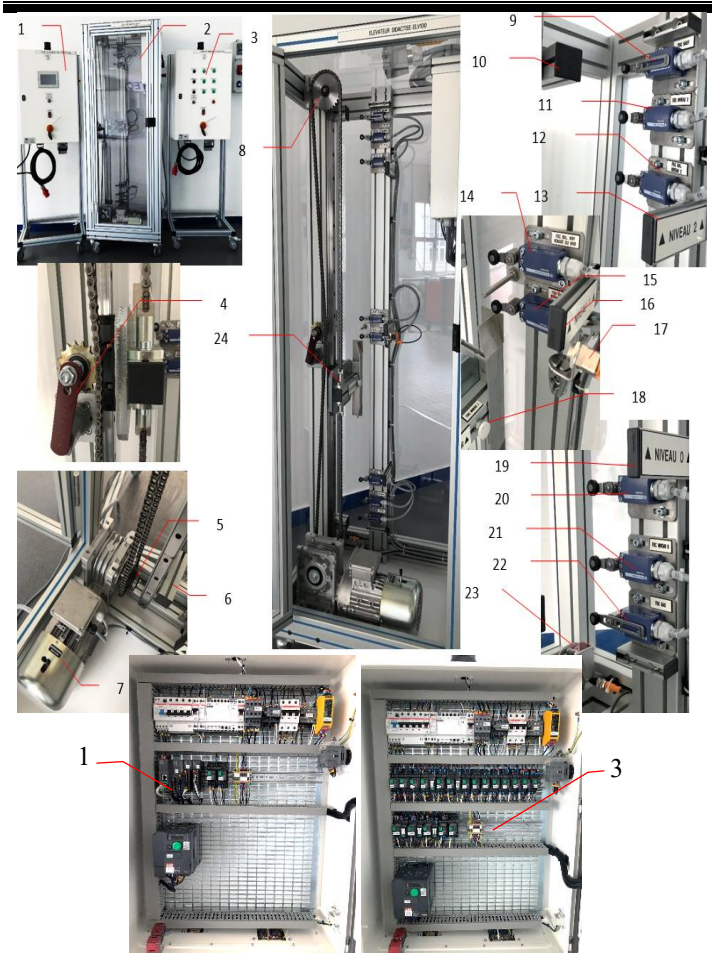
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OPERATING PRINCIPLE

The lift training system has 2 independent control stations (relay-based and PLC-based), interchangeable using quick connectors. It enables study and maintenance of lift control cabinets equipped with variable speed drives.
Reference programs incorporating factory settings are provided to allow you to reset the machine at any time.
The robust design of this equipment makes it particularly suitable for use in educational environments.
Its load-bearing anodised aluminium frame on castors provides excellent strength and great flexibility for installation on your premises.
This equipment is manufactured in accordance with the European Machinery Directive.
For specific study of a bidirectional lift safety gear, we offer the ASC044 rig, which allows this lift-specific safety device to be operated without risk of damage.

Illustrations



Technical specifications

1. PLC-based control cabinet
2. Lift
3. Relay-based control cabinet
4. Chain tensioner sprocket
5. Mechanical torque limiter
6. Lower lift stop
7. Lift motor with brake and manual release.
8. Chain-driven lift mechanism on reinforced linear ball-bearing guides.
9. Upper safety limit switch
10. Upper lift stop
11. Level 2 limit switch
12. Level 2 deceleration limit switch
13. Movable physical representation of Level 2
14. Level 1 deceleration limit switch when approaching from Level 0
15. Level 1 deceleration limit switch when approaching from Level 2
16. Movable physical representation of Level 1
17. Level 1 limit switch: retro-reflective optical sensor
18. Reflector on the lift for the Level 1 optical limit sensor
19. Movable physical representation of Level 0
20. Level 0 deceleration limit switch
21. Level 0 limit switch
22. Lower safety limit switch
23. Laser lift position sensor (PLC-based cabinet only)
24. Physical representation of the elevator threshold

Installation requirements

- Power supply: 400 Vac – 50 Hz – 16 A
- Type of power supply: 3 phase(s) + Neutral + Earth.
- Weight (kg):
  - ✓ 172 for the lift part
  - ✓ 56 for the relay control box
  - ✓ 56 for the PLC-based control cabinet
- Dimensions (L × W × H, mm):
  - ✓ 850x630x2000 for the lift part
  - ✓ 690x610x1900 for the relay control box
  - ✓ 690x610x1900 for the PLC-based control cabinet

Note: If the equipment is installed by our team, all utility connections must be located within 2 m of the machine.

Documentation

- Instruction manual
- Teaching manual
- Technical documentation
- Practical exercises
- Electrical diagram
- GRAFCET sequence chart
- Programs (PLC, HMI, drive, sensor)
- PLC and HMI programming software, with cable supplied
- CE certificate of conformity

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