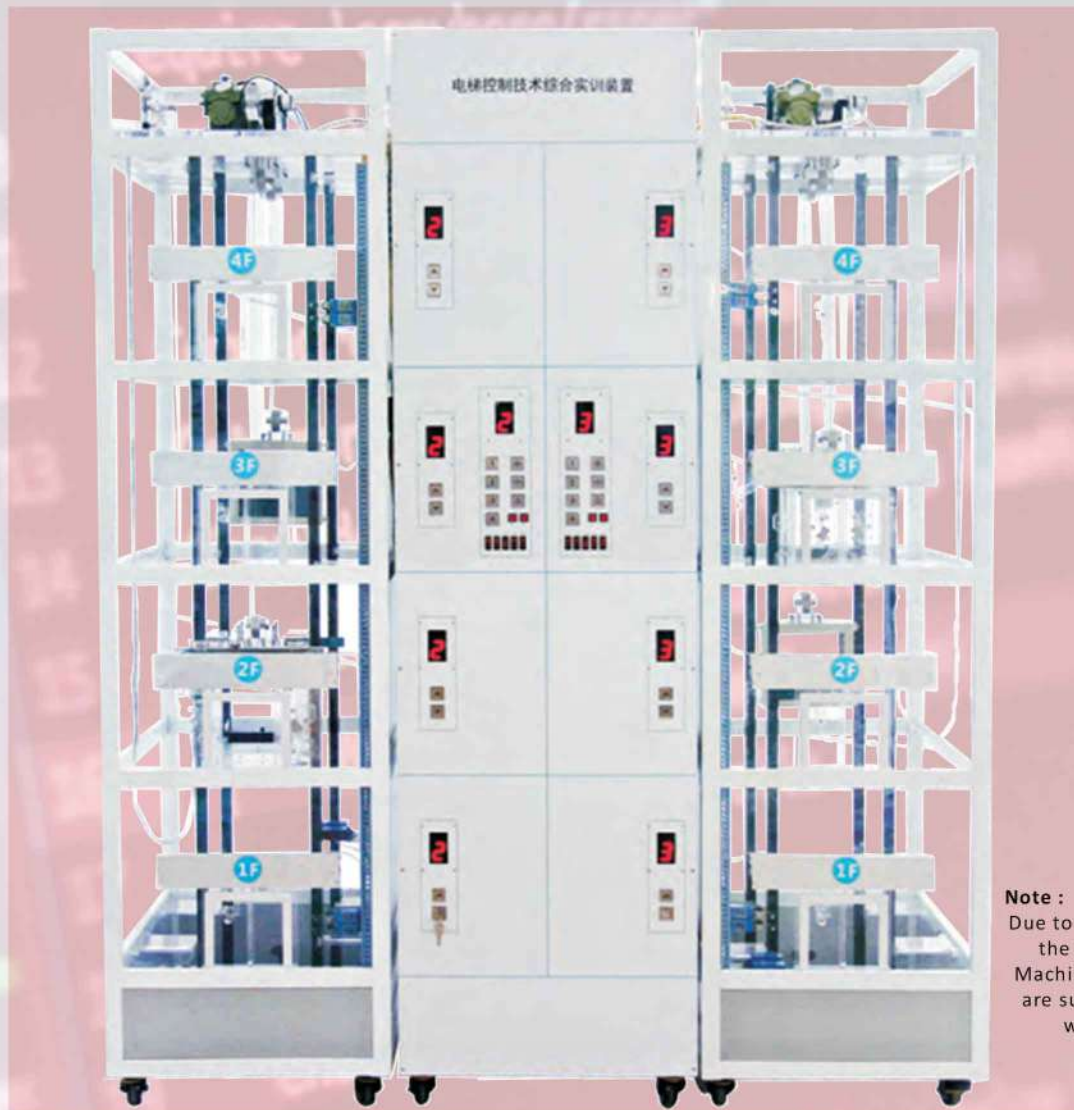




Double-linked PLC Controlled Transparent Four-layer Elevator Trainer



Note :
Due to keeping innovation,
the specification and
Machine pictures or color
are subject to alteration
without notice!

Equipment Overview

- This trainer is designed according to construction of lift type elevator, which is widely used in our daily life. It is composed of two four-layer elevators and related electrical control parts, users can select different electrical control types for this trainer, such as the electric combined type and separated type.
- Organic glass material is adopted for most of the components so as to make the inner structure and working principle of real elevator easy for students to understand. Welded steel tubes of good structure rigidity are used to form the support frame, coming with parkerising plastics sprayed surface.
- The electrical control system adopts programmable logic controller and frequency converter to achieve logic intelligent control and AC variable frequency speed regulating and driving. The hardware part of this trainer is same as real elevator in composition and function, coming with automatic door opening/closing, automatic leveling, inner/external calling signal response in same direction, straight moving, elevator safe running protection, elevator emergency stop, slow up/down, lighting, air fan function and so on.
- Panasonic VF series frequency converter is used for the speed regulation of three phase AC traction motor, it adopts voltage vector control mode to achieve the speed up/down, forward/reverse, jog control of motor, as well as the phase loss, open phase, overvoltage, undervoltage, overcurrent, overload and stall protection.
- It is reliable in performance, steady in running, easy in operation and low in energy consumption. Both the hardware and software parts of this trainer adopt open structure, which make it easy to be extended for secondary development, such as multiple control elevator, parallel control elevator, signal control elevator, autoselected elevator and so on.



Training Content

- Lift car starting, stopping, inching control
- Lift car speed up/down control
- Lift car leveling control
- Lift car landing door opening/closing control
- Floor calling system training
- Terminal limit protection device training
- Speed limit protection device training
- Signal indicating system training
- Lift car lighting control
- Elevator control system training
- Elevator control system programming

Basic Configuration

- Overspeed safety protection system
- Lift car and counter-weight spring buffer device
- Door safety shoe protection device
- Door motor torque protection device
- Landing door automatic closing device
- Terminal limit switch safety protection system
- Machine room part
- Electrical control part
- Liftway part
- Landing door part
- Lift car part
- Accessory part

Technical Parameters

1. Power supply: 220V, 2.5A
2. Installed capacity: $\leq 0.75\text{KW}$
3. Dimension (combined) :
630mm $\times$ 575mm $\times$ 2410mm (elevator $\times 2$)
655mm $\times$ 575mm $\times$ 2410mm (electrical control)
4. Dimension (separated) : 900mm $\times$ 600mm $\times$ 2280mm (elevator $\times 2$)
5. Load capacity: 5kg
6. Control mode: PLC control
7. Speed regulating mode: AC variable frequency speed regulating
8. Structure type: Two four-layer elevators combined structure
9. Traction machine: Speed ratio (15:1), worm speed reducer module (1.5)
10. Driving motor: 380V, 0.7A, 50Hz, 0.18KW, 1400rpm
11. Safety protection: Leakage protection function, safety meets related national standard

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Electric Separated Structure

