



Electro Pneumatic Trainer



Equipment Overview

- The electro pneumatic training platform is made up of experimental table, frame, pneumatic components, electrical control modules and so on.
- Modular structure design is adopted for experiment construction, each pneumatic component is an independent unit that comes with mounting baseboard. Reliable quick connectors are used for the connection of components.
- Aluminum alloy profile panel, with 'T' type mounting slot for pneumatic components installation and circuit construction. All solenoid valves, sensors and microswitches are designed with 4mm safety plug sockets for quick connection.
- The air compressor adopts air oil-less type compressor, which has the advantage of light weight, low power consumption and low noise.
- Safety protections: grounded, lead protection, safety in accordance with related GB standards. Insulated safety sockets, sheathed cables and wires.

Training Content

- Understanding of pneumatic structure and components
- Single acting cylinder manual reversing controlled loop
- 5/3 way solenoid directional valve controlled single acting cylinder loop
- 5/2 way single solenoid directional valve controlled single acting cylinder loop
- 5/2 way double solenoid directional valve controlled single acting cylinder loop
- Double acting cylinder hand directional valve control loop
- Double acting cylinder 5/2 way single solenoid directional valve control loop
- Double acting cylinder 5/2 way double solenoid directional valve control loop
- Single acting cylinder inching control loop
- Double acting cylinder inching control loop
- Sensor (capacitive/ photoelectric/ inductive) application control loop
- Dual pressure valve control loop
- Quick exhaust valve application control loop
- Sequence valve application control loop
- Time delay valve application control loop
- Four-cylinder linked action loop
- Double acting cylinder one-way speed regulation loop
- Double acting cylinder both-way speed regulation loop

Note :

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



Pneumatic Components	Qty
Single acting cylinder (spring return)	1
Double acting cylinder	3
Air service unit (reduce valve/lubricator/filter)	1
Reduce valve with pressure gage	1
(5/2way) single solenoid valve	2
(5/2way) double solenoid valve	1
(5/2way) hand directional valve	1
(3/2way) solenoid valve	1
Air on/off valve	1
(5/2way) double pneumatic valve	2
(5/2way) single pneumatic valve	2
Sequence valve	1
Rotary cylinder	1
Shuttle valve	2
Dual pressure valve	1
Time delay valve	1
Quick exhaust valve	1
One way valve	2
Button valve	1
Rotary valve	1
Stroke valve	1
Mushroom head button valve	1
Throttle valve	6
Capacitive sensor	4
Photoelectric sensor	4
Inductive sensor	4
Magnetic reed switch suite (for cylinder)	1
Microswitch (left trigger)	2
Microswitch (right trigger)	2

Technical Parameters

1. AC power input: single phase AC220V $\pm$ 10%, 50Hz, 10A
2. Environment temperature: -10 $^{\circ}$ C~40 $^{\circ}$ C, Ambient humidity $\leq$ 85% (25 $^{\circ}$ C)
3. Overall consumption: $\leq$ 2KVA
4. Working power supply: DC24V, 4.5A with short circuit protection function
5. Dimension: 1300mm $\times$ 600mm $\times$ 1700mm (approx.)
6. Aluminum plate:1200mm $\times$ 735mm (approx.)

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