



Portable Basic Pneumatics Training Box



Equipment Overview

- The portable pneumatic principle trainer is designed for common courses such as 'pneumatic control technology', 'hydraulic and pneumatic transmission', which is widely used in industrial area and school education.
- It is suitable for technical secondary school, junior college, vocational school, mechanical engineering major education. With the experiment operation and course design, students can understand the structure of pneumatic components, loop control principle, design method and so on.
- The trainer is mainly composed of training box, minitype air compressor, pneumatic components, air pipe and so on, with the advantage of small size, light weight, easy to move. It is an excellent solution for the traditional teaching way that teachers can only conduct the course in one place.

Technical Parameters

1. Input Voltage: AC220 V $\pm$ 10%, 50 Hz;
2. Complete appliance capacity: 0.3KVA
3. Working temperature: -5°C~40°C
4. Operating humidity: Less than 90% (40°C)
5. Dimensions: 580mm $\times$ 430mm $\times$ 240mm (approx.)

Note :

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

Pneumatic Components	
1	Single-acting cylinder
2	Double acting cylinder
3	Reducing valve
4	Filter regulator/lubricator combination
5	One way throttle valve
6	Double pneumatic controlled 5/2 way valve
7	(5/2) way hand directional valve
8	Roller lever valve
9	OR gate valve
10	Push button valve
11	Valve silencer suite



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Training Content

- Understanding of pneumatic components structure, signal and functions
- Reversing loop of push button valve controlled single acting cylinder
- Speed control loop of single acting cylinder
- Manual controlled reversing loop of hand directional valve
- Pneumatic controlled reversing loop of hand directional valve
- Speed control loop of double acting cylinder
- Speed control loop of throttle valve
- Sequential loop of two cylinders
- Reversing loop of OR gate valve controlled single acting cylinder
- Remote controlled unloading loop
- Push button valve controlled double acting cylinder loop
- Reducing valve controlled pressure-relief loop
- Two hands controlled single acting cylinder reversing loop
- Disassembly and assembly of hand directional valve(5/2way)
- Disassembly and assembly double pneumatic controlled 5/2 way valve
- Disassembly and assembly of throttle valve
- Disassembly and assembly of roller lever valve
- Disassembly and assembly of reducing valve
- Disassembly and assembly of push button valve
- Disassembly and assembly of OR gate valve
- Pneumatic simulation software

- (1) Component introduction function
- (2) Connection and operation tips
- (3) Manual connection function
- (4) Automatic connection function
- (5) Two-dimensional diagram pneumatic loop dynamic simulation
- (6) Two-dimensional diagram pneumatic loop dynamic simulation with stop/start function
- (7) Pneumatic loop schematic diagram, component dynamic inner structure display

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