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AutoControl

High-Impact Pneumatic System Training Kit for Hands-On Learning



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High-Impact Pneumatic System Training Kit for Hands-On Learning

This **High-Impact Pneumatic System Training Kit for Hands-On Learning** is a professional platform designed for pneumatic circuit design and demonstration. Ideal for training and assessment in subjects like pneumatic drive and circuit design, this kit is perfect for colleges and vocational schools. With a variety of industrial-grade pneumatic components, it provides comprehensive training in pneumatic disciplines.

Key Features of the **High-Impact Pneumatic System Training Kit**



SKU: 0401020050

- **Pneumatic Transmission System Composition:** Students can study and understand the fundamental components of a pneumatic transmission system.
- **Basic Pneumatic Circuit Experiments:** The kit supports a wide range of essential pneumatic circuit experiments, helping learners grasp core concepts.

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Benefits of the [High-Impact Pneumatic System Training Kit](#)

- **Easy Operation:** All pneumatic components are equipped with rapid joints for seamless insertion and operation, simplifying the setup of various experiments.
- **Industrial-Grade Components:** The kit includes high-quality, industrial-grade pneumatic components and valves, ensuring accurate and realistic training.
- **Quick Couplings and Protective Wiring:** The pneumatic circuits connect via quick couplings, and the electrical control circuits use training wires with protective features. Students can follow instructional guides or design their circuits for more complex applications.
- **Quiet and Efficient Compressor:** A quiet, mini air compressor with low noise levels (<57db), oil-free, odorless, clean, and dry air ensures a conducive learning environment.
- **Safety Features:** The kit includes 1P + N leakage protection with a 220V output. If earth leakage current exceeds 30mA, the power supply will automatically cut off. The DC 24V electrical control also features over-voltage protection to prevent damage.
- **Smart and Portable:** This training kit is designed to be portable and intelligent, making it an excellent tool for classroom demonstrations and hands-on teaching.

This [high-impact pneumatic system training kit](#) is an invaluable resource for hands-on learning, providing students with the practical experience needed to master pneumatic systems and circuits.

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Comprehensive Training Modules of the [High-Impact Pneumatic System Training Kit](#) for Hands-On Learning

Understanding the Pneumatic System

1. Pneumatic Components Identification

- Recognize and understand various pneumatic components.

2. Electrical Components Identification

- Recognize and understand the electrical components within the system.

Foundational Pneumatic Circuit Training

1. Pressure Control Circuits

- Pressure Reducing Circuit
- Pressure Relief Circuit (Pressure-Venting Circuit)

2. Speed Control Circuits

- Bidirectional Throttle Speed Regulation Circuit
- Throttle Speed Regulation Circuit
- Sequence Action Circuit Using Proximity Switches
- Twin/Double Cylinder Sequence Action Circuit with Magnetic Switches

3. Directional Control Circuits

- Reversing Circuit Using Reversing Valve
- Single-Cylinder Reciprocating Control Circuit

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Integrated Control Circuits

- Flow Control
- Directional Control
- Pressure Control
- Application Control of Electrical Components

This [High-Impact Pneumatic System Training Kit](#) is essential for mastering pneumatic systems and electrical integration, providing students with hands-on experience in a variety of control circuits.

Key Technical Specifications of the [High-Impact Pneumatic System Training Kit](#) for Hands-On Learning

Air Compressor Specifications

- Capacity: $\geq 22\text{L}$
- Power: 220V, $\geq 0.7\text{kW}$
- Output Pressure: 1 MPa
- Rated Flow: $\geq 114\text{L/min}$

Maximum Working Pressure

- Pressure: 1 MPa

Dimensions

- Size (L × W × H): 610mm × 265mm × 683mm

This [High-Impact Pneumatic System Training Kit](#) is designed for hands-on learning, featuring high-capacity components and precise technical parameters to ensure effective training and education in pneumatic systems.