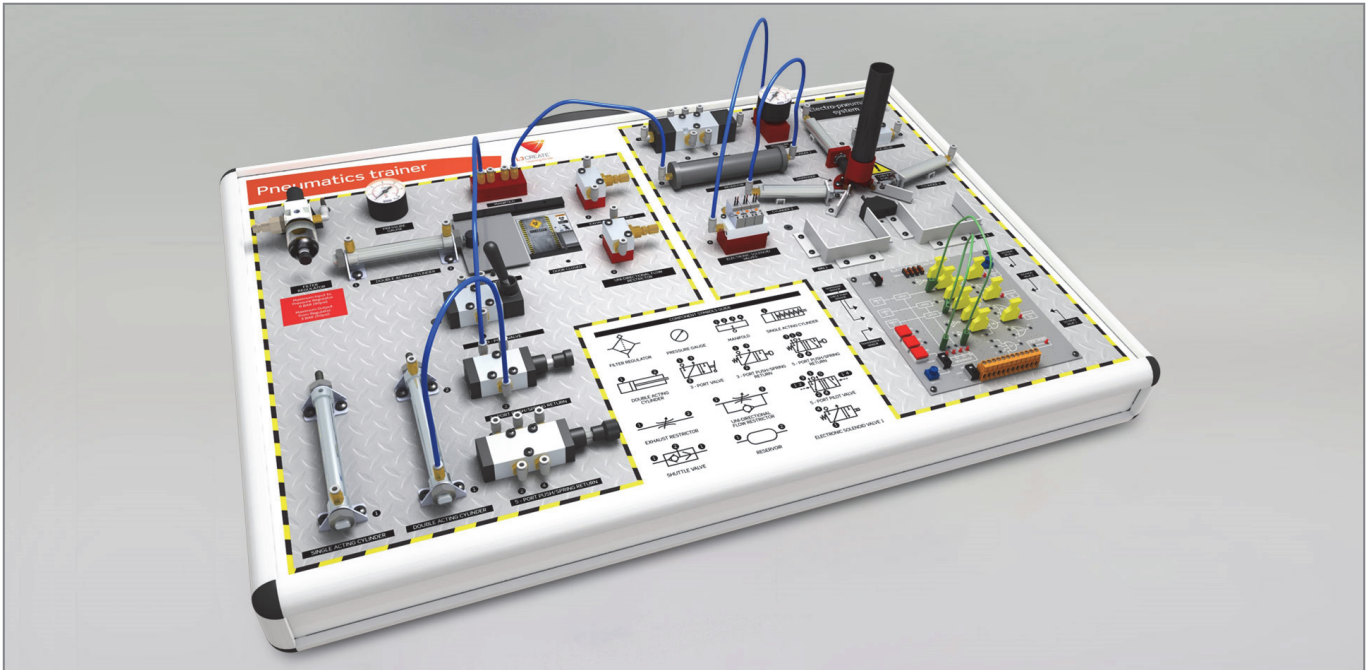


# Product Information Sheet

## Pneumatics Trainer



This STEM learning package has been designed to provide practical real world problem solving tasks and activities within the classroom or lab environment.

The Pneumatics Trainer offers a classroom-based resource for practical investigation of pneumatic components and systems.

The trainer consists of a two-part rig, the first of which allows users to connect components to create fundamental circuits. The second element is an electro-pneumatic sorting system that brings together electronic sensing, actuators and logic gates to sort clear and black parts into different bins.

This trainer includes access to digital curriculum materials including theory and practical learning tasks, as well as tutor support resources.

The trainer can also be used in conjunction with our optional cloud-based software packages, which offer online practical tasks as well as interactive theory presentations, investigations, and assessments, which link directly to the practical activities carried out using this resource.

### Typical Practical Activities Include:

- Principles of Pneumatics
- Components, Symbols and Circuits
- Cylinders
- Valves
- Speed Control
- Pneumatic Logic Functions
- Electro-pneumatics
- Manual Sequential Control
- Time Delays and Automatic Control
- Problem Solving

### Items Included:

- Trainer
- Hand Operated Air Compressor
- Accessory Kit
- Power Supply
- Curriculum in Digital Format

### Pneumatic Components:

- 1 x Pressure Regulator
- 1 x Supply Pressure Gauge
- 1 x 4 Port Supply Manifold
- 1 x Single Acting Cylinder
- 1 x Double Acting Cylinder
- 1 x Double Acting Cylinder Operated Door
- 1 x 3 Port Valve
- 1 x 3 Port Valve (Spring Return)
- 1 x 5 Port Valve (Spring Return)
- 1 x Exhaust Restrictor
- 1 x Unidirectional Flow Restrictor

### Electro-pneumatic Sorter:

- 1 x 5 Port Pilot Valve
- 1 x Inline Pressure Gauge
- 1 x Shuttle Valve
- 1 x Reservoir
- 3 x Electronic Solenoid Valves
- 3 x Single Acting Cylinders
- 1 x Parts Dispenser
- 1 x Set of Part-sorting Sensors (Optical and Mechanical)
- 2 x Part-sorting Containers
- 1 x Digital Logic Connection Board

## Product Information Sheet (Continued)

### Pneumatics Trainer



#### Other Items Required:

- LJ Create Engineering or Technology Content (Optional)
- Computer
- Fluid Power Student Resources Pack 278-01

#### General Information:

Power Requirements: 110 – 240V 50-60Hz  
Trainer Dimensions: 810 x 560 x 235 mm (W, D, H)  
Packed Volume: Approx. 0.14 m<sup>3</sup>  
Packed Weight: Approx. 12 kg

**Order Code: 270-01**

P8513-E

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