

Product Name :
PLC Controlled Pneumatic and Hydraulic Training Test Bench

Product Code :
POL-HYD0001



Description :

PLC Controlled Pneumatic and Hydraulic Training Test Bench

Technical Specification :

Using Allen Bradley (Rockwell Automation) PLC Flat-form
Power Supply: 220VAC, single Phase, 60Hz.

The experimental device uses double-sided structure, ie an experimental table provides places for doing pneumatic and hydraulic test experiment for two groups of four students. It can simultaneously do double-sided comprehensive pneumatic and hydraulic experiments, optimizing and sharing resources and improving products' performance. Its overall structure is simple and practical.

The training equipment is iron double matte dense spray pattern, which is beautiful, durable and practical. The basic configuration is as following: 1 set of pneumatic training components; 1 set of pneumatic PLC control module; 1 piece of low noise air compressor; 1 set of hydraulic training components; 1 set of hydraulic PLC control module; 1 piece of hydraulic test pump. The optional configuration is the computer.

Pneumatic components

Main technical parameters:

Power: AC 220V 50HZ

DC power: input AC220V, output DC 24V/2A

Air compressor

Motor power: 250W power: AC220V

Nominal capacity: 10L

Rated output voltage: 1Mpa

Training Equipment dimensions: 1500mm*900mm*1700mm

Basic experimental Pneumatic circuit

single-acting cylinder commutation circuit

double-acting cylinder commutation circuit

single-acting cylinder speed control loop

double-acting cylinder-way flow control loop

double-acting cylinder bi-speed circuit

the speed loop for access

buffer circuit

the secondary pressure control loop

high and low voltage conversion circuit

counting loop

the delay loop

overload protection circuit

interlock circuit 1

single-cylinder reciprocating control loop

single-cylinder reciprocating continuous loop

linear cylinders, rotary cylinders loop sequence of actions

multi-cylinder sequence of actions loop

twin synchronized action loop

four-cylinder linkage loop

the unloading circuit

gate circuit type shuttle valve applications

quick exhaust valve application circuit



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