

**Description:**

The Electrohydraulic Trainer Kit is designed for hands-on training in the **design, construction, and application of electrohydraulic components and circuits**. It allows users to practically understand and implement electrohydraulic systems using real-time experiments and PLC control.

Key Features:

- Demonstrates basic to intermediate electrohydraulic systems.
- Includes real components for accurate simulation of industrial setups.
- Enables experiments with both **electric** and **PLC control**.
- Compact and mobile design with comprehensive system layout.
- Includes all accessories for setup, maintenance, and instruction.

Learning Objectives:

- Understand the **design and function of electrohydraulic systems**.
- Study the **construction and operation of valves**.
- Practice **circuit design** through practical applications and simulations.

Technical Specifications:

Parameter	Details
Max. Operating Pressure	5 MPa (50 bar)

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Parameter	Details
a. Hydraulic Tank	25 Liters
b. Gear Pump	3 LPM with ball valve for flow measurement in beaker
c. Electric Motor	0.5 HP, 1440 RPM, 230V AC
d. Filters & Indicators	Oil breather, oil level indicator, suction/return filters
e. Pressure Gauge	70 Bar
f. Relief Valve	Adjustable safety control

List of Experiments:

A) Working with Electric Control:

1. Operation of single solenoid with single-acting (S.A.) cylinder
2. Operation of single solenoid with limit switch & S.A. cylinder
3. Operation of double solenoid with double-acting (D.A.) cylinder
4. Operation of double solenoid with limit switch & D.A. cylinder
5. Flow control using check valve
6. Demonstrate easiest fluid path at junction
7. Cylinder extension using push button
8. Electrical self-locking & signal storage with momentary switch
9. Mechanical locking via momentary switch contacts
10. Electrical locking & signal storage with relay contacts
11. Single solenoid operation using proximity switch & D.A. cylinder

B) Working with PLC Control:

1. Basic cylinder in/out control
2. Cylinder push-out / push-in control
3. Delayed return of cylinder
4. Double cylinder control

Essential Accessories:

Accessory	Quantity
Students' workbook with instructor guide	1 No.
Demonstration CD	1 No.
Set of spare parts (for 2 years of normal operation)	1 Set
Front & Back Panel layout with I/O terminals	1 Set
Circuit diagrams of complete test rig	1 Set
Fully workable trainer setup	1 No.

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