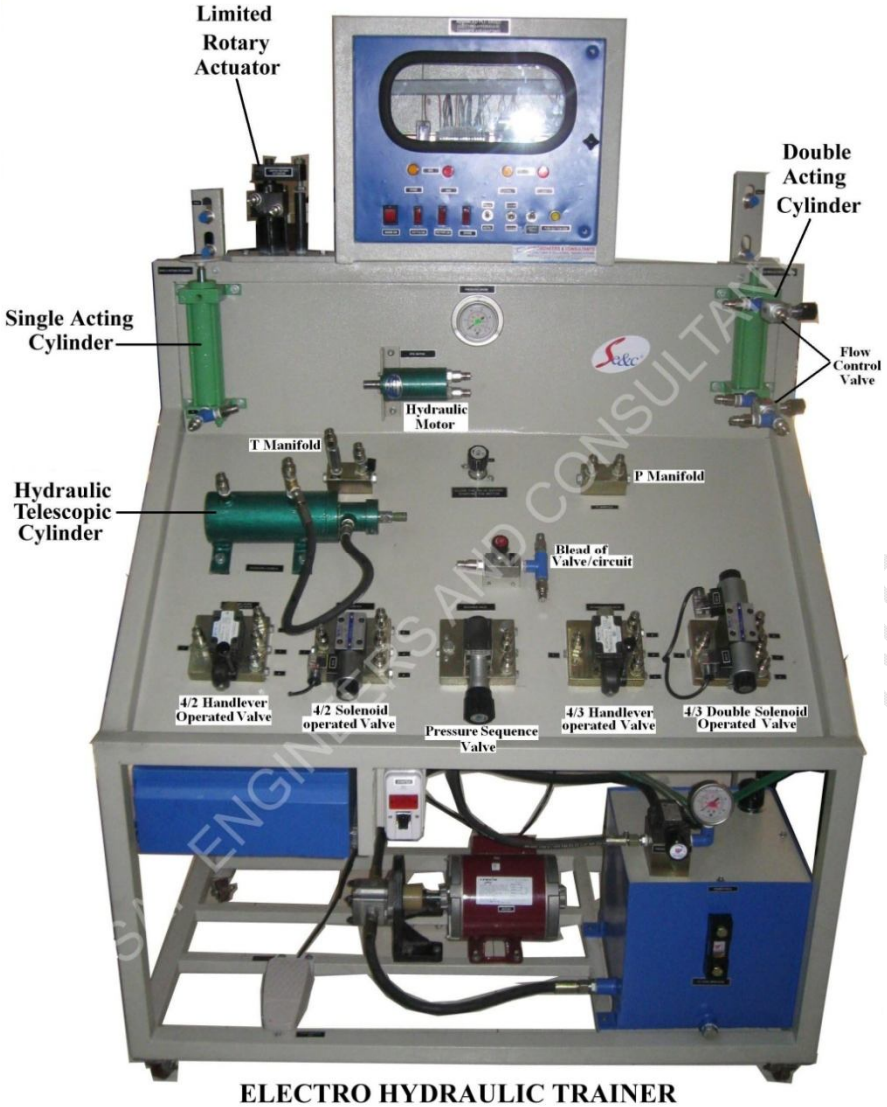
SAP E & C ELECTRO-HYDRAULIC TRAINER
(PRODUCT CODE: SAP - 38)



ELECTRO HYDRAULIC TRAINER

The **Electro-Hydraulic Trainer (SAP – 38)** outlines the basic Principle of Hydraulic Control System,Hydraulic Control System Components & its applications using electronic proximity position sensor & electro-mechanical actuators (solenoid valves).

Technical Specification:-

No.	Item Name	Technical Specifications
1	**Relay Module-**	4 Relays, 24V DC supply, 2 NO/NC contacts, panel mounting type.
2	**Single Acting Cylinder-**	Bore: 40 mm × Stroke: 75mm/100mm, Mounting: Foot.
3	**Double Acting Cylinder-**	Bore: 40 mm × Stroke: 75mm/100mm, Mounting: Foot.
4	**Solenoid Valve-**	2 Nos, 4/3 way, ¼'', 24VDC & 4/2 way, ¼'', 24 VDC
5	**Pressure Relief Valve-**	¼'', 60 Kg/cm^2
6	**Flow Control Valve-**	¼'' (F), Square Body
7	**Block Manifold-**	¼'', 4 ways
8	**Male Connector-**	¼''Quick Release Couplings
9	**Indicator-**	24 VDC Operated
10	**Proximity Sensors-**	4 nos. Type: Inductive 2 wire, Diameter: 18 mm,Sensing Distance: 5 mm.
11	**Pressure Gauge-**	100 Kg/cm^2, Dial Size: 100 mm.

For More Details Visit Our Website At: www.sapengineers.com, www.sapengineers.co.in E-mail:- sales@sapengineers.com
SAP Engineers & Consultants, Kothrud, Pune-411 038, India. Ph-(020)25384737

12	**Oil Hydraulic power pack-**	MS Powder Coated Oil Tank, Capacity: 25/30 Liters. With Oil Level Indicator, Gear Pump: 3-5 LPM, 40-70 Bar, Breather, Oil filter & suction, **Electric Motor-** Single Phase, 230VAC / 3 Phase 415 V AC, ½ HP/ 1 HP, DOL starter.
13	**Pressure sequence valve**	¼'' (F), Square Body, 60kg/cm^2.
14	**Hydraulic Motor (Optional)-**	3 LPM, Flange mounting type.
15	**Hydraulic Accumulator (Optional)-**	Capacity : 0.075 Liters, mWP bar: 250 bar, Weight: 0.62 Kg, Connection: ½" BSP
16	**Meter-in Circuit & Meter Out Circuit**	
17	**Bleed-off Circuit**	
18	**Pulley Arrangement to carry load applied to the actuator,** i.e., Double Acting Cylinder (Optional)	
19	**Transverse & Feed Circuit(Optional)**	
20	**Hydraulic Telescopic Cylinder (Optional)**	
21	**Limited Rotary Actuator (Optional)**	

Range of experiments:

- Study of pressure control.
- Study of direction control.
- Study of fundamental principles of Hydraulics & its applications.
- Study of Meter-in circuit, Meter-out circuit and Bleed-off circuit.
- Study of flow control.
- Study of hydraulic valves.
- Study of cylinder control.
- Study of power pack control characteristics.
- Study of electro-hydraulic control.
- Study of sequencing of two cylinders using sequence valve.
- Study of sequencing operation of two cylinders using electro-hydraulic components.
- Study of hydraulic Motor (optional).
- Study of Hydraulic Accumulator (optional).
- Study of operation of Telescopic Cylinder(Optional).
- Study of operation of Limited Rotary Actuator (Optional).

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Features: -

- Compact Ergonomic Design.
- ISO Symbol for each mounted components.
- User Friendly, Self Explanatory Systems.
- Leak proof Safety Measures, sturdy piping & Robust Construction.
- Training Manuals mimic Charts for Operation Ease.
- System Frame with Caster Wheel Arrangement for ease in movement.
- M.S. powder coated cubical plant with standard Instrument Mountings.
- Inbuilt Safety Measures to avoid improper usage.
- Wall mounting assemblies of hydraulic actuator & self-reciprocating cylinder.
- Hydraulic motor (optional), Solenoid Valves (electro-hydraulic), Limit Switches.
- Proximity type sensors (electro-hydraulic),
- QRC Couplings provided Tubing /hose pipes for circulation of pressure.
- Manifold for distribution.
- Oil Hydraulic power pack for power supply.
- Optional components are available to allow fault operation and diagnosis training.

System Dimension-3.5 Ft. (L) X 2Ft. ((W) X 4.5 Ft (H)

Services Required:

- Electric supply 1ϕ 230 V AC / 3ϕ supply of 415 V, 50 Hzsuitably used for direct on line starting of an induction motor

Note:

All descriptive matter and illustrations are intended to give only a general idea of the equipment Detailed specifications may be altered at the company's discretion without any notice.

Manufactured/Marketed By

SAP ENGINEERS & CONSULTANTS

Regd. Off. : Shop No. 26-27,'Srushti', Survey No.82, Near Guru Ganesh Nagar, Eklavya College Road (D.P.Road), Kothrud, Pune - 411 038, India
Telephone : (020) 2538 4737
Mobile : +91 94220 88946, +91 9552475082
Fax : (020) 2538 3544
Email : sales@sapengineers.com
Website : www.sapengineers.com / www.sapengineers.co.in