

Hydraulic WorkBench



Electro Hydraulic Workbench is designed to understand fundamental of design, construction and application of Hydraulic components and circuits. We have two variants of Workbench one is without PLC and another is With PLC, user can select any according to hid application, todays industries are moving towards hybrid Industrial Automation systems with the help of PLC and other Hydraulic components and modules.

There is a huge demand of Hydraulic technology in numerous areas of engineering. And our Workbench allows User to do hands on practice on the basic “building blocks“ of modern Hydraulics and how they are interconnected to form systems. Hydraulic Systems fulfil the power needed to drive and control conveyor systems, metal forming machinery, component test stands, foundries and primary metals plants, presses, including cushions, clutches and brakes, automated assembly systems, packaging systems, pulp and paper industries, material handling, and robotic systems. PLC provides flexibility to design and build numerous systems using software and I/O interfaces without changes to the hard wired connections.

Features

- Powerful instruction sets
- High execution speed
- Extremely easy and student friendly software
- Several sample Ladder programs
- PLC operated Electro Hydraulic platform
- 12 Digital Inputs, 8 Digital Outputs
- Open platform to explore wide PLC and Hydraulic applications
- Industrial feel & look
- DIN rail mounting for PLC
- Function and identification of Hydraulic components and their symbols
- Robust construction
- Toggle switches, LEDs, buzzer , double acting cylinder , solenoid valve, flow control valve, manifold, hand lever valve, limit switch, hydraulic motor, single acting cylinder, proximity sensor, power pack
- 4 mm patch cord connections
- Mounting panel for Hydraulic components
- Practice troubleshooting skills
- Workbench has 4 wheels, suitable for movement installation
- Two storage drawers with telescopic locking facility, place in drawers for meters, patch cords, components, bread board and other accessories for storage.
- MCB for ON/OFF control and over load protection
- Sequential & linear Hydraulic control

Hydraulic Trainer Kit, consisting of the following components and accessories:	
1. Hydraulic Power pack with (1) External gear pump having a delivery rate of 2.5 lpm, (approx.) @ 1400 rpm operating pressure 60 bar,(Approx.) coupled to a single-phase AC motor (230 V AC) having start capacitor and ON/OFF switch and overload protection,	1
2. (2) pressure relief valve adjustable from 0 – 60 bar, (3) oil reservoir, ≥5 liters capacity having sight glass, drain screw, air filter, and P and T ports.	
3. Pressure relief valve pilot-operated	1
4. Drip tray, steel size 1160 mm x 760 mm.(Approx.)	1
5. Pressure Gauge Glycerine's-damped, Indication range of: 0 – 100 bars	1
6. Four-Way distributor with five ports, equipped with a pressure gauge	1
7. Double acting hydraulic cylinder with a control cam, Piston diameter16 mm, Piston rod diameter10 mm, Stroke length 200 mm.	1
8. Suitable Weight for vertical loading of hydraulic cylinder	1
9. Mounting kit for weight for realizing pulling and pushing load.	1
10. 3/2-way directional control valve with hand lever actuation.	1
11. 4/2-way directional control valve with hand lever actuation.	1
12. 4/3-way directional control valve with hand lever actuation	1
13. Non-return valve.	1
14. Pilot-operated check valve pilot to open.	1
15. One-way flow control valve with integrated check valve.	1
16. T-Connector with self-sealing coupling nipples (2 Nos.) and quick coupling socket (1 No.).	2
17. Profile plates, Anodized Aluminium, 1100x700 mm, carrier mounting, frames and mounting accessories (To be fitted onto the Hydraulic workstation)	1

1	Hydraulic Workstation : Full MS with Aluminum body structure with well powder coating and drawer slide: (1) Work Table Size (Approx.) L 1200 mm X W900 mm X H 90 mm, with four castor wheels including two lockable wheels at the front side, (2) Drawer – Size (Approx.) – L 460 mm x W495 mm x H 158 mm each, and overall size of Drawer unit (Approx.) - L470mm x W495mm x H825 mm and (3) Drawer slide height (Approx.) 85mm.	1
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****Please feel free to share your requirements by filling your details in ask query section or request a Quote section on the website, we will be happy to cater your requirement.**