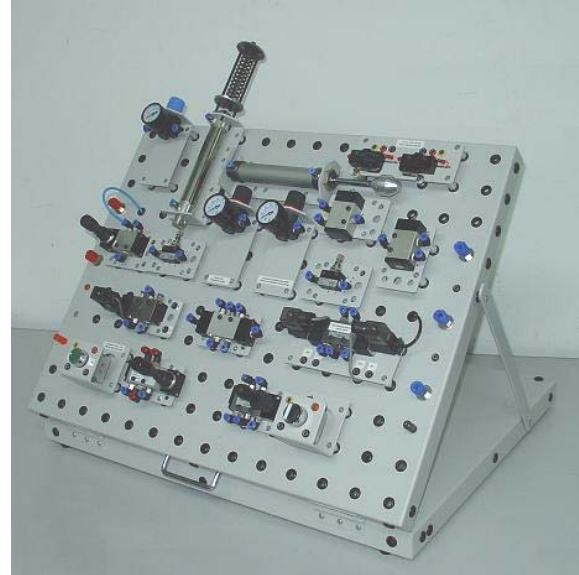
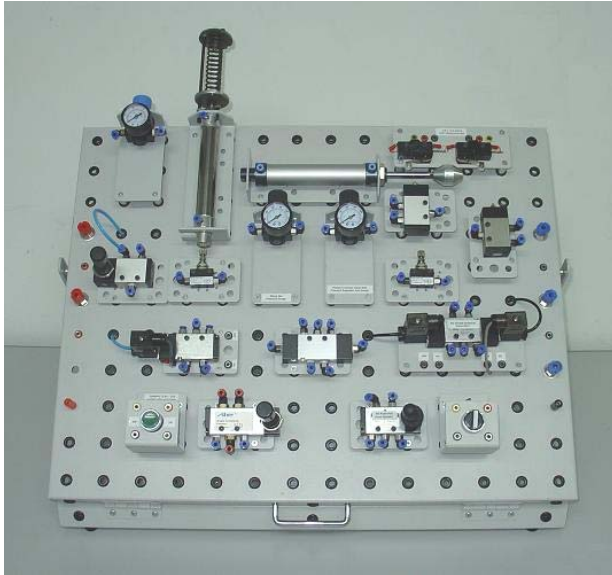


HYDRAULICS TRAINER (WATER BASE)

HT-4000

EDU-LABS



Features:

- o Modular design allows modifications to suit needs/requirements of the course/students
- o Custom sizes for the modular-board can also be provided upon request.
- o Additional modular components can be also available separately should the need arise.
- o High quality durable rubber-silicone compound gasket on the modular-board ensures that the components stay in place yet smooth enough to ease removal and placement of components.
- o Comes with high quality industrial grade components.
- o Hydraulic Power Pack was designed to ease handling and transportation
- o Comes with Hydraulic Power Pack with built-in high power 330W water pump for all your hydraulic needs.
- o Comes with quick action self-sealing couplings and mounted ready for use!
- o Plates are made of high quality machined steel that do not deform after continued usage.
- o Unit comes with various height (tilt) settings
- o Does not require hydraulic fluid but uses readily available water.
- o This makes the unit very affordable and economical to maintain.
- o High quality aluminium components that do not rust!

The Hydraulic Trainer has been designed to suit the theoretical and practical needs of Vocational Schools, Technical Training Institutions, Polytechnic and University. It is best suited as an introductory tool to hydraulics.

Some of the circuits that may be constructed with the unit are : -

- Directional control
- Speed control
- Pressure control
- Single acting cylinder control
- Double acting cylinder control with 5/2 way valve with single solenoid
- Double acting cylinder control with 5/2 way valve with double solenoid
- Metering ' IN ' - Metering ' OUT '
- Spring Weight loading of cylinder

Component List

Part Number	Description	Qty
HT-4000-01	Adjustable Plug board System (550mm x 700mm) - 3 Built-in tank Manifolds - 3 return line manifolds - Handle	1
HT-4000-02	Double acting cylinder with striker cam used horizontally	1
HT-4000-03	Double acting cylinder with striker cam used vertically	1
HT-4000-04	4kg Spring Weight Load for use with vertically mounted double acting cylinder	1
HT-4000-05	Pressure reducing / Regulating valve with pressure gauge	1
HT-4000-06	3/2 Way Directional Control Valve, lever operated	1
HT-4000-07	5/2 way Directional Control Valve, lever operated	1
HT-4000-08	5/3 way Directional Control Valve, lever operated, closed centre	1
HT-4000-09	5/2 way valve with pilot bistable	1
HT-4000-10	2 of 3/2 way valve with push button	1
HT-4000-11	2 of pressure gauges	1
HT-4000-12	2 of one-way flow control valves	1
HT-4000-13	Pressure manifold	3
HT-4000-14	Tank manifold	3
HT-4000-15	Set of hoses fitted with quick action, self-seal couplings	1
HT-4000-16	T-joint	5
HT-4000-17	Quick coupler	6
HT-4000-18	Hydraulic power pack - Dimensions (WxHxD) 228mm x 902mm x 407mm (not including protrusions) - Weight Approx. 8.3kg without water - Power Output 330W or 0.5HP - Flow Rate 40 liters per minute	1

Collection of Circuit Exercises

Part Number	Description	
HT-4000-E1	Directional control - Double acting cylinder control with 5/2 way Directional Control Valve, lever operated	
HT-4000-E2	Directional control - Double acting cylinder control with 5/3 way Directional Control Valve, lever operated, closed centre	
HT-4000-E3	Speed control by using one way flow control valve	
HT-4000-E4	Pressure control by using pressure regulator	
HT-4000-E5	Automatic forward and backward	
HT-4000-E6	Metering 'IN' and metering 'OUT'	
HT-4000-E7	Weight Loading by using spring load	

Courseware and Accessories

Part Number	Description	
HT-4000-19	Instruction Manual With Collection Of Circuit Exercises	1
HT-4000-20	Hydraulic Simulation Software (Optional)	1
HT-4000-21	Programmable Logic Controller Trainer - 30 I/O (Optional)	1