

HYDRAULIC TRAINER KIT

MODEL: HYD01



FEATURES

- Compact, comprehensive, sturdy design
- Smooth and silent operation
- Study of Hydraulic Circuits

DESCRIPTION

This trainer explains the essential physical principles of hydraulics. It demonstrates the construction and working of basic components and helps the students in the designing and building of basic hydraulic circuits. Optionally, sliding arrangement for in-use component mounting can be provided along with component storage facility.

INSTRUCTION MANUAL

Self-explanatory operating manuals are provided with each system. Detailed theory as well as practical exercises is also included in the manual



LIST OF EXPERIMENTS

Fundamental principles of hydraulics	Study of pressure measurement and control
Application of hydraulics	Study of flow control
Study of symbols, schematic diagrams and standards	Study of force pressure area and volume relationship
Study of sources of hydraulic power	Study of hydraulic actuators
Study of Transmission and conditioning of oil	Building of simple hydraulic circuits
Study of direction control valve	Study of safety aspects in hydraulic circuits

List of experiment may vary depending on model selected. Some of the experiments are theoretical only

COMPONENTS

COMPONENTS	BASIC	ADVANCED	INTERMEDIATE
4/2 Way Valve Lever Operated Spring Return	1	1	1
4/3 Way lever Operated Valve	1	1	-
3/2 Way Valve, Lever Operated	1	1	-
Pressure Relief/Sequence Valve	1	2	1
Pressure Regulating Valve 3 Way	1	1	-
Pressure Relief Valve Pilot Operated	-	1	-
Unidirectional Flow Control Valve	1	2	-
Bi-directional Flow Control Valve	1	1	-
Flow Control Valve, Pressure Compensated	-	-	1
Deceleration Valve	-	-	-
Glycerin filled Pressure Gauge	1	1	1
Distributor Block	2	2	2
Shut Off Valve	1	1	1
Non Return Valve	2	2	1
Non Return Valve Pilot Operated	1	1	-
Diaphragm Accumulator	-	1	-
Double Acting Cylinder	2	1	2
Hydraulic Motor Bi-directional	-	1	1
Hose Set with Quick Release Coupling	1Set	1Set	1Set
Hydraulic Power pack	1	1	1

OPTIONAL ADDITIONAL

1. Simulation software
2. Interface card to interface physical components with the software
3. Hydraulic components cut away models.
4. Transparent hydraulic components
5. Magnetic Symbols

MODELS

HYD01-P: Component mounting fixed type. No storage facility.
 HYD01-Q: Sliding type component mounting. No storage facility. Table top model.
 HYD01-R: Sliding type component mounting. With storage facility & with table.
 HYD01-S: Flexible type component mounting. With storage facility and with table

Model No.	Dimension	Weight
HYD01-P	1000 (W) X 600 (B) X 1200 (H)	300 Kg
HYD01-Q	1000 (W) X 800 (B) X 900 (H)	300 Kg
HYD01-R	1000 (W) X 800 (B) X 1700 (H)	300 Kg
HYD01-S	1000 (W) X 800 (B) X 1700 (H)	300 Kg



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- (1) Since research and development is an on-going activity, the specifications mentioned herein are subject to change without notice
- (2) Photographs are indicative only.