

## HYDRAULIC TRAINER

MODEL: HYD22



### 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 students in the designing and building of basic and advanced 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 EXPERIMENT

1. Fundamental principles of hydraulics
2. Application of hydraulics
3. Study of symbols, schematic diagrams and standards
4. Study of sources of hydraulic power
5. Transmission and conditioning of oil
6. Study of force pressure area and volume relationship
7. Study of pressure measurement and control
8. Study of direction control valve
9. Study of hydraulic actuators
10. Building of simple hydraulic circuits
11. Study of safety aspects in hydraulic circuits

*NOTE: Experiments covered may differ depending on components selected. Some of the experiments are theoretical only.*

**HYDRAULIC TRAINER KIT, EACH CONSISTING OF THE FOLLOWING COMPONENTS AND ACCESSORIES, MODEL: HYD22-1**

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1. Hydraulic Power pack, 1 no.
2. Pressure relief valve pilot-operated, 1 no.
3. Pressure Gauge, 1 no.
4. Four-Way distributor, 1 no.
5. Double acting cylinder, 1 no.
6. Suitable Weight, 1 no.
7. Mounting kit for weight, 1 no.
8. 3/2-way directional control valve with hand lever actuation, 1 no.
9. 4/2-way directional control valve with hand lever actuation, 1 no.
10. 4/3-way directional control valve closed-centre position, with hand lever actuation, 1 no.
11. Non-return valve, 1 no.
12. Pilot-operated check valve, 1 no.
13. One-way flow control valve, 1 no.
14. T-Connector with self-sealing coupling nipples, 2 no
15. Quick coupling socket, 1 no.
16. Profile plate, Anodised Aluminium with carriers, 1 no.

**HYDRAULIC WORKSTATION, MODEL: HYD22-2**

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with 40 square mm aluminium profile legs, wooden work surface, and one pedestal drawer unit having 5 drawers, each with handles and individual locks, on metallic full panel drawer slide, Qty 1 no.

**CUT SECTION MODEL FOR HYDRAULIC COMPONENTS, MODEL: HYD22-3**

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- As per the list attached in the offer

**SERVICES REQUIRED**

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- Electric supply

**NiYo Engineers**

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