



**Product Code . JL-CTM-9062**

## Hydraulic Trainer Kit

### Description

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Hydraulic Trainer Kit

#### **Specification:-**

List of Experiments:

Study of pressure built up & setting relief valve pressure in the hydraulic system.

Study of 4/3 way direction control valve.

Operation of a single acting cylinder with 4/3 way direction control valve.

Operation of a double acting cylinder with 4/3 way direction control valve.

Operation of the hydraulic motor with 4/3 way direction control valve.

Study of sequence valve.

Sequencing of double acting cylinder & single acting cylinder.

Sequencing of single acting cylinder & hydraulic motor.

Meter in speed control of hydraulic cylinder.

Meter out speed control of hydraulic cylinder.

Study of bleed off speed control circuit.

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Study of Pressure adjustment /setting of the relief valve.

Study of Throttle valve pressure flow characteristics.

Study of direction control valves and pilot operated check valves and circuits.

Study of Regenerative Circuit.

Study of the pressure reducing valve.

Study of sequence valve and setting sequence valve pressure.

List of Components:-

Trolley with frame & caster wheels

Hydraulic tank with filter & breather

Single phase flange mounted electric motor

Pressure Gauges

Gear Pump

Bell Housing

Flexible Coupling

Pressure Relief Valve

Flow Control Valve

Pressure Sequence Valve

4/3 way manually operated directional control valve

Single Acting Cylinder

Double Acting Cylinder

Needle Valve

Study of sequence valve and setting sequence valve pressure

Hoses

Check Valve

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Pilot Operated Check Valve

Hydraulic Motor

Quick Coupling

Features:

Self-combined mobile unit.

All the components are easily accessible.

Real life components of reputed manufacturers provided.

Quick connections possible due to special fittings/pipes.

Tried and tested components and circuits.

PLC with software with a help file.

Specially designed control panel enabling students to develop their own circuits.

Modular design with facilities to operate simple mechanisms.

Pneumatically operated models available as additional supply.

Training of Trainers offered at regular intervals.

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