

# HYDRAULIC CRANE APPLICATION TRAINING SET (EHA01)

## Description

The Hydraulic Crane Application Training Set is an advanced educational tool designed to provide comprehensive training for the operation and maintenance of hydraulic cranes. It is ideal for use in educational institutions, training centers, and industrial environments where crane operators need to acquire practical skills and knowledge.

## Able to learn : -

- Function and characteristic of hydraulic crane system
- Control the speed and torque of hydraulic motor
- Control the speed and force of hydraulic cylinder
- Design and use of different mid hydraulic directional valve
- Design and reading of electrical and hydraulic diagram of crane system
- Construct and operation of crane position loading/unloading
- Calculate and determine the pressure and speed of the crane operation
- Identify different proximity sensor
- Creating sequence control by PLC Program
- Fault findings in electrical hydraulic control system



## Optional Item

- Computer Workstation
- PLC Training Kit

## Required Item

- 3 Axis Hydraulic Crane System
- Basic PLC Training Kit
- Experiment Manual
- Safety & Maintenance Manual

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## Technical Specification : -

No	Component	Qty	No	Component	Qty
1	Linear Axis Hydraulic Cylinder	2	13	Oil Tray	1
2	Rotary Axis Hydraulic Motor	1	14	Portable table structure	1
3	4 Station manifold block	1	15	Load 2kg	5
4	4/2 way solenoid valve	1	16	Mini Power Pack Unit	1
5	Pressure relief valve	1	17	Hydraulic Oil	1
6	Pressure reducing valve	3	18	Operation Push Button module	1
7	Flow control valve	3	19	Electrical terminal module	1
8	Pilot Check Valve	1	20	..	
9	Proximity Sensor	6	21	..	
10	Hose 1500mm	6	22	..	
11	Hose 1000mm	2	23	..	
12	Hydraulic Crane structure	1	24	..	