

Y-0055
HYDRAULIC & ELECTROHYDRAULIC TRAINING SET

The Hydraulic and ElectroHydraulic Training Set is produced for teaching three main subject: Hydraulic, Electrohydraulic and PLC. The training set contains suitable components for basic level and advanced level applications. There are two kind of lab desk; one side and double side user, selection of desk is according to your Lab size.

We prepared Hydraulic and electrohydraulic components list for your applications. Also, there is additional optional component list.

All hydraulic and electrohydraulic components have plastic holder for to mount the Aluminium panel.

TRAINING SUBJECTS

- Application of hydraulic&electrohydraulic circuits
- Set up the power unit
- Application on electrical and mechanical valves
- Application on speed control valves
- Pressure adjusting regulators and pressure sequence valves
- Application on Gas pressurised accumulator
- Proportional valves, Solenoid operated valves,
- Circuit configuration with relays and logic electric moduls
- Application of PLC and electrohydraulic
- Using of sensors on electrohydraulic circuits
- DC, Step motor and Hydraulic Engine applications
- Using of signal lamps and buttons on circuits
- Simulation of program
- Application of digital inputs/outputs on PLC
- Application of analog inputs/outputs on PLC
- Study on repairing of hydraulic circuits

- The application book is given with set.
- There are two kind of simulation software for training set.
 - Automation studio
 - Autosim 200

We can Supply these two training software.



LAB DESK

- Lockable wheeled, Aluminium structure,laminat covered table
- According to your lab size, we can provide single or double side used lab desk
- There is part on the top of desk for control panels.

Code	Worktable Equipment List	Single Side Used	Double Side Used
Y-0055-T	Worktable (1200x800) Laminate Coated, One Sided	1	
Y-0055-TA	Worktable (1200x800) Laminate Coated, Double Sided		1
Y-0055-TS	Triple Drawer Group	1	1
Y-0055-AP	T-Channel Aluminium Plate (1000x700)	1	2
Y-0055-H 047	Oil Collecting Tray	1	2
Y-0055-H001	Hydraulic Power Units (Pressure Safety Valve, 3 l/min Flow Rate, Max Pressure 120 Bar, 0.37 kW Electric Motor 220V AC, 20 L. Tank Capacity, Start/Stop in the sand box	1	1

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HYDRAULIC

The set contains hydraulic components for your applications. All components have plastic holder. The component list is on below.



Code	Hydraulic Equipment List	Pcs.
Y-0055-H003	Pressure Sequence Valve	1
Y-0055-H004	3 Way Pressure Reducing Valve	1
Y-0055-H008	Balance Compensators	1
Y-0055-H009	4/2 way manual valve	1
Y-0055-H011	4/3 Way Manual Valve Mid Position Close	1
Y-0055-H013	4/3 Way Manual Valve "ABT" Center	1
Y-0055-H015	4/3 Way Manual Valve "H" Center	1
Y-0055-H017	4/3 Way Manual Valve Mid Position Open	1
Y-0055-H019	Shut-Off Valve	1
Y-0055-H020	Accumulator With Charging Valve	1
Y-0055-H021	OR Valve	1
Y-0055-H022	Non Return Valve 0,5 Bar	1
Y-0055-H028	Two Way Flow Control Valve	1
Y-0055-H029	One Way Flow Control Valve	1
Y-0055-H034	Double Acting Cylinder (20x200)	2
Y-0055-H035	Hydromotor	1
Y-0055-H036	T Fitting With Quick Couplings	3
Y-0055-H037	Manometer	1
Y-0055-H041	Distributor Block, P,T	1
Y-0055-H042	Hose with Quick Coupling(6x50,6x100,6x150,Holder)	18

ELECTROHYDRAULIC

The set contains electrohydraulic components for your applications. All components have plastic holder. The component list is on below.

Code	ElectroHydraulic Equipment List	Pcs.
Y-0055-EH003	4/2 Way Solenoid Valve	1
Y-0055-EH004	4/3 Way Solenoid Valve Mid Position Closed	1
Y-0055-EH005	4/3 Way Solenoid Valve "ABT" Center	1
Y-0055-EH006	4/3 way solenoid valve "H" center	1
Y-0055-EH007	4/3 Way Solenoid Valve Mid Position Open	1
Y-0055-EH008	Double Acting Cylinder 20x200 with Magnetic Sensor	2
Y-0055-EH009	Pressure Relief Valve (Electrical)	1
Y-0055-EH014	Pressure Switch	1
Y-0055-EH015	Pressure Transducer	1
Y-0055-EH018	Inductive Sensor Normally Open	1
Y-0055-EH019	Capacitive Sensor Normally Open	1
Y-0055-EH020	Optical Sensor Normally Open	1
Y-0055-EH021	Roller Limit Switch Normally Open	1



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CONTROL PANELS

This panels are designed for electrohydraulic applications. All inputs and outputs with 4 mm sockets. Each control panel has circuit diagram on his board. Easy used on lab desk.



Code	Control Panel Equipment List
Y-0055-01	Power Supply(24V DC, Short Circuit and Overcurrent Protection, Emergency Stop, On-Off Switch, 4 mm plug)
Y-0055-02	Group Load (DC Motor, Stepper Motor, a Lamp, Buzzer)
Y-0055-03	Relay Group (4 relays. Relay Discrete of a 3 x NO / NC Contact Output)
Y-0055-04	Counter-Timer (Time Relay Contact Output For Analog, Digital Counter Output Contacts)
Y-0055-05	Light Switch Panel (2 pcs a permanent, non permanent 2)
Y-0055-06	Operator Panel
Y-0055-07	PLC Module 8/8 digital inputs/outputs, input simulation switches, Programming CD
Y-0055-08	Proportional Module

OPTION LIST OF HYDRAULIC AND ELECTROHYDRAULIC COMPONENTS

You can order the additional components from this list for your applications.

Code	Hydraulic Optional Equipment List
Y-0055-H023	Check Valve (5 Bar)
Y-0055-H024	Twin Check Valve
Y-0055-H026	Check Valve With Internal Pilot
Y-0055-H030	2 Way Seep Control Valve
Y-0055-H032	Flow Divider
Y-0055-H039	Flowmeters
Y-0055-H007	Counter Balance Valve
Y-0055-H010	4/2 Way Valve with a Permanent
Y-0055-H012	4/3 Closed Center Valve With Permanent
Y-0055-H014	4/3 Way "ABT" Center Valve With Permanent
Y-0055-H016	4/3 Way "H" Center Valve With Permanent
Y-0055-H018	4/3 Opened Center Valve With Permanent
Y-0055-H027	Check Valve With External Pilot
Y-0055-H031	3-Way Speed Control Valve
Y-0055-H033	Adjustable Flow Divider
Y-0055-H038	Thermometer
Y-0055-H040	Measurement Set(Flow/Mano/Thermometers)
Y-0055-H045	Weight
Y-0055-H050	Double Acting Cylinder 20x200 with Cushion
Y-0055-H051	Transparent Double Acting Cylinder 20x200
Y-0055-H052	Transparent Dbl Acting Cylinder 20x200, Cushion
Y-0055-H053	Single Acting Cylinder 20x100
Y-0055-H054	Transparent Single Acting Cylinder 20x100



Code	ElectroHydraulic Optional Equipment List
Y-055-EH001	2/2 Way Sng Acting Solenoid Valve(Popet)
Y-055-EH002	3/2 Way Sng Acting Solenoid Valve(Popet)
Y-055-EH017	Analog Output Flowmeters
Y-055-EH010	Proportional 4/3 Close Center Valve+Driver
Y-055-EH012	Proportional Pressure Relief Valve+Driver
Y-055-EH016	Pressure Transmitter with display
Y-055-EH022	Double Acting Cylinder With Mag,Cus 20x200
Y-055-EH023	Transparent Dbl Acting Cyl With Mag 20x200
Y-055-EH024	Trs Dbl Act Cylinder With Magt, Cus 20x200
Y-055-EH025	Single Acting Cylinder With Mag 20x100
Y-055-EH026	Transparent Single Acting Cyl, Mag 20x100
Y-055-EH027	Digital Force Gauge (20x200 Cyl + Load Cell)
Y-055-EH028	Digital Speed Meter(20x200 Cyl+L.Encoder)
Y-055-EH029	Encoder (For Rotary Elements)
Y-055-EH030	Position sensor (Cylinder+L.Sheet 20x200)