



AUTOMATION



HYDRAULICS



DL 8110H with DL 8110EH

THIS TRAINER IS COMPOSED AS FOLLOWS:

- Work bench complete with metal working panel with holes for clamping the hydraulic components without using additional tools, 4 wheels and 3 drawers for storing components.
- Hydraulic power unit assembled onto the metal structure, under the panel; 4.5 liters /min., noise level 60 db - 1 meter, pressure relief valve, oil level viewfinder, air inlet filter, oil return filter, 1 pressure gauge, oil reservoir 30 liters, on-off control box with two push buttons and motor overload protection.
- Pressure relief valves 2 ...125 bar (2 off)
- One way flow restrictor
- Shut off ball valve
- Two way flow restrictor
- "T" distributor with pressure gauge
- Cross distributor, 4 connections
- Pressure compensated one way flow regulator
- Four connections distributor on manifold with pressure gauge 0 .. 100 bar
- One way restrictor (non-return valve)
- Double acting differential cylinder
- Piloted one way restrictor
- 2/2 manual acting valve, spring return
- 3/2 manual acting valve, spring return
- 4/2 manual acting valve, spring return
- 4/3 manual acting valve, spring centred
- Set of tubes for testing pressure drops
- Set of 12 hoses with quick female connectors
- Workbook with theory and practices

OPTIONALLY, IT IS POSSIBLE TO ADD THE FOLLOWING SET OF MODULES (DL 8110H-2) FOR ADVANCED HYDRAULICS:

- Four connections distributor on manifold with pressure gauge 0.. 100 bar
- Pressure reducing valve. 3 ways, 2 ..125 bar
- Pressure relief valve with spool and camping, 2...125 bar
- Pressure relief valve with spool, piloted, 2...125bar
- Hydraulic motor, with shaft wheel
- Double acting cylinder, 32, 16 x 200mm stroke
- 2/2 valve, ball actuated, spring return
- Counter-weight 30 Kg.
- Hydraulic diaphragm accumulator, 2 manual valves and a relief security valve
- Set of 10 hoses with quick female connectors



DL 8110EH

A FURTHER OPTION IS GIVEN BY THE ELECTRO-HYDRAULICS SET OF COMPONENTS (DL 8110EH) THAT CAN BE ADDED TO THE ABOVE TO OBTAIN AN ELECTRO-HYDRAULIC TRAINER:

- Electronic power supply module, with over load and short circuit protection
- Control unit, with 4 push buttons, 1 switch, 1 connection / disconnection electronic timer, 4 spark suppressing diodes, 4 indicator lights
- Relay module, with 3 relay units, with 4 exchanged (switched) contacts each, an on-off light indicator on every relay solenoid, spark suppressing diode on every solenoid, 6 connection dividers for positive voltage and 6 for negative voltage
- 4/2 solenoid valve, spring return
- 4/3 solenoid valve, spring centered
- Set of connectors for solenoids
- Limit switch, with 1 normally closed contact + 1 normally open contact (3 off)
- Adjustable pressure switch, max. pressure = 125 bar.
- Cable + connector for pressure switch
- Set of connecting cables
- Electro-hydraulics work-book with theory and practice