

Order Code - 52068A is a sophisticated, indigenous, new generation hydraulic teaching aid, specially developed to impart the best practical training in hydraulics. It can be used as a Live Demonstrator to show functioning of various hydraulic components and control circuits. Operating pressure is kept at 20 bar for safety of the students. The components / equipments are mounted on an ergonomically designed mobile metal trolley with drip tray. The power pack is mounted at the bottom. The components are permanently mounted on the working area. "Quick Release Couplings" are used on the components and hoses for fast and easy connections. All the components are duly fitted with "Quick Adapters" and the hoses are fitted with quick couplers. The Basic Hydraulic Trainer consists of



### SPECIFICATIONS

- HYDRAULIC POWER - PACK :
  - 230V/50Hz AC Motor
  - 1425 rpm 1hp AC Induction Motor
  - 3 LPM Gear Hydraulic pump
  - 100bar Pressure Gauge
  - Direct Operated Pressure Relief Valve up to 100bar with Pressure Gauge
  - Check Valve
  - Suction Filter
  - In Line Filter
  - Oil Level Indicator
  - Oil inlet Lid
- Hydraulic Trainer consist of 16 slot 15x80mm Aluminum panel to accommodate all types of Hydraulic components mounted on 40x40mm Aluminum profile rack.
- DC Power Supply & Switch Panel
  - 230V/50Hz AC Socket
  - 24V/2A DC Output
  - 5 no's of Toggle Switch /2A
- Dual Timer Panel
  - Dual Cyclic Timer Output
  - 4 no's of NO,NC control contacts /2A
- Switch Panel
  - Two nos. of SPDT Switch Red, 230V/4A
  - Two nos. of SPDT Switch Green, 230V/4A
  - SPDT Emergency Switch, 230V/4A
  - Illuminated Push Switch, 230V/4A
- Relay & Indicator Panel
  - 3 numbers of Relay Output
  - 5A NO,NC control contacts with coil voltage 24V/100mA
  - 230V / 22mm Led Indicators (3nos)



### LIST OF COMPONENTS

- Double Solenoid Valve (4/3 way) 24V coil up to 350bar/60LPM
- Double Solenoid Valve (4/2 way) 24V coil up to 350bar/60LPM
- Direct Operated Pressure Relief Valve up to 100bar
- Single Acting Cylinder (10cm stroke) up to 100bar
- Double Acting Cylinder (10cm stroke) up to 100bar
- Pressure Switch 24V up to 100bar
- Check Valve up to 100bar
- Needle Control Valve
- Flow Control Valve
- Proximity Sensor 8mm dia, PNP type 10-24V
- Electrical Limit Switch (No: NC: C)
- 100bar Pressure Gauge (2 nos)

Note: Specifications are subject to change.

**Tesca Technologies Pvt. Ltd.**

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,  
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,  
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com  
Website: www.tesca.in

- 4 port Manifold (2nos)
- QRC fitted Hose Pipe (6 nos.)
- Diaphragm Accumulator
- Measuring Flask (2 liters)
- Loading Weight 15Kgs

#### OPTIONAL HYDRAULIC COMPONENTS

- Pressure Reducing Valve
- Shut off Valve
- Sequence Valve
- Hydraulic Motor
- Rotameter to measure upto 4 LPM
- Pilot Operated Pressure Relief Valve
- Pilot Operated Check Valve
- Counter Balance valve
- Pressure Compensated Flow Control valve



#### OPTIONAL PLC

- 8 channel 24V DC Digital Input
- 6 Channel Relay AC/DC (2A) output.
- 8 Digital Input Switches for Simulation with Led Indicator
- 6 Output Led's for Output Simulation.
- Built in RS-232 Communication Port
- Built in Power supply of 24V dc Input
- All Inputs & Outputs are terminated in 2mm Banana connector

Note: Hydraulic Oil is to provided from customer end.

#### HYDRAULIC WORK BENCH (OPTIONAL)

MS square tube (Heavy duty) Color powder coating with rubber wood/MS table top and one pedestal drawer unit having 3 drawers, each with handles and individual locks, on metallic full panel drawer slide:

- Work Table Size (Approx.) L1100mm X W750mm XH760mm, with four castor wheels including two lockable wheels at the front side
- Drawer Size (Approx.)
  - Upper & Middle Drawer L500mm x W500mm x H150mm (Each)
  - Lower Drawer : L500mm x W500mm x H200mm (Approx.)



Note: Specifications are subject to change.

#### *Tesca Technologies Pvt. Ltd.*

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,  
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,  
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com  
Website: www.tesca.in