



SALIENT FEATURES

- Choice of 2 top models Hydraulic/Electro Hydraulic trainer (Optionally PLC may be supplied.)
- Use of aluminium profile grooved plate (CD=25mm) experiment board. Optionally table with drawers (3 nos.) To store components when not in use & 4 Nos. of caster wheels.
- Quick release socket plug arrangement for building circuits, Lighter pneumatic components are mounted using lever operated mounted adapters for quick release & placement.
- List of components may be modified as per your requirement.
- Top electrical panel row exists in electro hydraulic / Pneumatic only.

Technical Specification

Items	52067 Hydraulic Trainer	Qty.	52068 Electro Hydraulic Trainer	Qty.
Oil Distribution and manual controls gages	Sub plate (1 Station manifold) with 4 ports & 2 gauge ports.	2	Sub plate (1 station manifold) with 4 ports & Gauge ports each equipped with	2
	Quick Release male Adaptors	21	Quick Release Male Adaptors	13
	Modular pressure relief valve (sub plate mounted) with 70 bar	1	70 bar Gliserine filled pressure gauges to a and b ports	4
	Gliserine filled pressure gauges to A & B ports (2 X 2)	4		
	Throttle cum check valve sub plate mounted	1		
Direction control Element	4/2 way DC valve lever operated spring return	1	4/2 way single solenoid 24 VDC spring return	1
	4/2 way DC valve AC 230Vac solenoid operated spring return	1	4/3 way double solenoid 24 VDC spring return	1
	4/3 way DC valve lever operated spring return	1	-	-
	4/3 way DC valve lever operated detented	1	-	-
	Single acting cylinder 40mm X 100mm stroke with QR adaptor	1	Single acting cylinder 40mm X 100mm spring return & QR adaptor	1
Actuating devices (output)	Double acting cyliner with in line flow control valve 40mm X 100mm stroke & QR sockets	1	Double acting cylinder with in flow control valve 40mm X 100mm stroke & QR sockets	1
Connections	A) Flexible hoses, R1 type ¼ ID with Quick release (One end 90° & other straight)		B) Flexible hoses, R1 type ¼ ID with Quick release (One end 90° & other straight)	
	Length 2000mm	2	Length 2000mm	2
	Length 1500mm	2	Length 1500mm	2
	C) Quick release plugs(M)	21	D) Quick release plugs(M)	13
	B) Quick release plugs(M)	10	B) Quick release plugs(M)	10
Electrical Connection	Mains cord for 230 Vac solenoid with stakable connector	1	Electrical circuit 4mm Banana Patch cord	
			1mtr	5
			500mm	5
			100mm	5
Logic Control	-	-	Limit switches NC/NO	02
			Proximity Switch (Inductive)	01
Resource Panel	NA	-	24VDC power supply. 8 Relay card PLC itterfaceable with NO NC contact & 24Vdc coil, Dual Timer WITH NO - NC contacts or Optionally LG PLC (12 input + 8 output) with CDP & ladder software.	Resource Panel
Power Generation	Power pack (50 bar) consist of : a) Tank 25Ltr. b) Gear pump 3LPM with ball valve for flow measurement in Beacker (optional), c) Electric motor 0.5 HP 1440 RPM 230vac, d) Oil Breather Oil level indicator, sunction filter / Strainer Return line filter, 70 bar Gage , e) Relief valve.			
Mechanics Dimension	Anodised sturdy Aluminum profile rack (table top) with groove experiment board (Optibally double sided).Totel dimension : 1165mm (W) X 800mm (H), Aluminum grooved T bolt Board : L = 107 cm, W = 70cm. Height 700mm Reclining at 00, 200,300, . Oil Tray (107 cm A 300 cm X 2cm) power coated MS NET Weight : 70/75 kg. (Electrohyd), Gross Weight : 85/90kg. (Electrohyd).			
Optional Experiments only for Electrohydraulic Trainer	1) Servo position control (Close loop) consisting of CIP panel with servo control using relay control circuit ,EMT8 power supply for stroke length display, liner motion (100mm, stroke) potentiometer (5KW) as a position sensor coupled to D. A. cylinder. 2) Proportional flow and direction control valve with built in amplifier with ±5V I/P voltage to control flow and direction 5KW servo pot to sense Position coupled to D.A. cyliner, open loop position contron, Emt8 panel to display stroke length. 3) Proportional flow and direction control valve with amplifier card & LVDT feedback close			

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