



Description

The Hydraulic Trainer Kit is a comprehensive, modular training system designed for hands-on learning and demonstration of fundamental and advanced hydraulic principles. The kit enables students to study hydraulic power generation, pressure control, flow control, directional control, and actuator operation through practical experimentation. All components are industrial-grade, compatible, and mounted on a dedicated hydraulic workstation for safe and effective training.

Technical Specifications

I. Hydraulic Power Pack

- External gear pump: **01 No.**
- Pump delivery: **2.5 LPM (approx.) @ 1400 RPM**
- Maximum operating pressure: **60 bar**
- Drive motor:
 - Single-phase AC motor, **230 V AC**
 - Equipped with start capacitor
 - ON/OFF switch with overload protection
- Pressure relief valve:
 - Adjustable range: **0–60 bar**
- Oil reservoir:
 - Capacity: **≥ 5 litres**
 - Provided with sight glass, drain screw, air filter, and P & T ports

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



Export Sales: +91-9829132777
India Sales: +91-9588842361



IT-2013, Ramchandrapura Industrial Area,
Sitapura Extension, Jaipur-302022, India.



info@tesca.in
www.tescaglobal.com

II. Hydraulic Components Supplied

Sl. No.	Component Description	Quantity
1	Pilot-operated pressure relief valve	01 No.
2	Steel drip tray (1160 mm × 760 mm)	01 No.
3	Glycerin-filled pressure gauge (0–100 bar)	01 No.
4	Four-way distribution block with five ports and pressure gauge	01 No.
5	Double-acting hydraulic cylinder with control cam <ul style="list-style-type: none"> • Piston diameter: 16 mm • Piston rod diameter: 10 mm • Stroke length: 200 mm 	01 No.
6	Suitable weight for vertical loading of cylinder	01 No.
7	Weight mounting kit for push-pull loading	01 No.
8	3/2-way directional control valve, hand lever operated	01 No.
9	4/2-way directional control valve, hand lever operated	01 No.
10	4/3-way directional control valve, closed-centre, hand lever operated	01 No.
11	Non-return valve	01 No.
12	Pilot-operated check valve (pilot-to-open type)	01 No.
13	One-way flow control valve with integrated check valve	01 No.
14	T-connectors with self-sealing coupling nipples (2 Nos.) and quick coupling socket (1 No.)	02 Sets

III. Mounting and Structure

- Profile plate:
 - Material: **Anodised aluminium**
 - Size: **1100 × 700 mm**
 - Supplied with carriers, mounting frames, and mounting accessories
 - Designed for installation on the hydraulic workstation

Hydraulic Workstation

Construction

- Frame: **40 × 40 mm aluminium profile legs**
- Work surface: **Wooden top**
- Drawer unit: **One pedestal with 5 drawers**, each with handle and individual lock
- Drawer slides: **Full-panel metallic slides**

Dimensions (Approximate)

1. Work table:

- Length: 1200 mm
- Width: 900 mm

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



Export Sales: +91-9829132777
India Sales: +91-9588842361



IT-2013, Ramchandrapura Industrial Area,
Sitapura Extension, Jaipur-302022, India.



info@tesca.in
www.tescaglobal.com

- Height: 900 mm
 - Fitted with four caster wheels (two lockable front wheels)
- 2. Drawer size (each):**
- 460 × 495 × 158 mm (L × W × H)
- 3. Overall drawer unit:**
- 470 × 495 × 825 mm (L × W × H)
- 4. Drawer slide height:**
- 85 mm

Cut-Section Models (Training Aids)

Cut-section models are provided to enable clear visualization of internal construction and working principles of hydraulic components.

- Pressure gauge – **01 No.**
- Double-acting hydraulic cylinder
 - Piston diameter: 16 mm
 - Rod diameter: 10 mm
 - Stroke length: 200 mm – **01 No.**
- 3/2-way directional control valve, hand lever operated – **01 No.**
- Non-return valve – **01 No.**
- 2/2 electrically operated valve – **01 No.**
- One-way flow control valve with integrated check valve – **01 No.**

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



Export Sales: +91-9829132777
India Sales: +91-9588842361



IT-2013, Ramchandrapura Industrial Area,
Sitapura Extension, Jaipur-302022, India.



info@tesca.in
www.tescaglobal.com