



THE LAB EQUIPMENT

Email : [sales@thelabequipment.com](mailto:sales@thelabequipment.com)

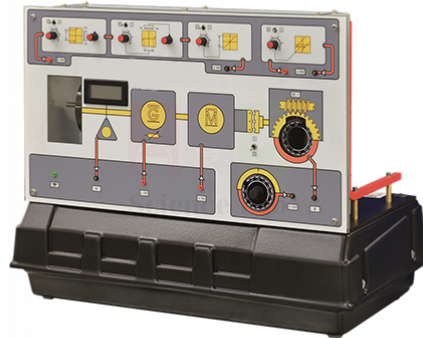
Phone: +91-8759245890

**Product Name :**

Servo Trainer

**Product Code :**

SLE/ETC/07



## Description :

- Servo Trainer shows d.c. servo position and speed control systems using typical industrial techniques.
- A manual control allows the user to set a position control setpoint.
- The d.c. generator statically or dynamically loads the servomotor.
- It has a d.c. servomotor, a d.c. generator and a flywheel mounted on a common shaft.
- Analogue 0 to  $\pm 10$  V control signals vary the servomotor shaft speed in either direction.
- An optical sensor measures the speed and shows it on a panel-mounted digital meter.
- An electric clutch connects or disconnects the shaft to a 30:1 reduction gearbox for position control studies.
- To adjust the shaft inertia, comes with two extra interchangeable inertia discs (flywheels).

**For advanced experiments, the Servo Trainer includes extra 'block'-type circuits that can add non-linear and fully adjustable effects of:**

- Deadzone or 'deadband'
- Anti-deadzone
- Hysteresis
- Saturation

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**Website:** <https://thelabequipment.com>, **Email:** [sales@thelabequipment.com](mailto:sales@thelabequipment.com)

plot. no.296. Sector 5. Vaishali. Ghaziabad. Uttar Pradesh 201010