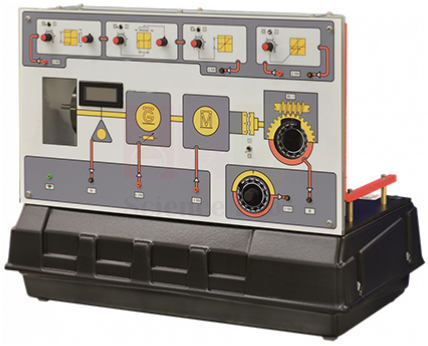
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Product Name :

Servo Trainer

Product Code :

SLE/ETC/07



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Description :

Servo Trainer (Product Code: SLE/ETC/07) is a d.c. servo control trainer used to teach position and speed control with typical industrial techniques in electrical and control engineering laboratories. A d.c. servomotor, d.c. generator and flywheel share one shaft, with an electricclutch that engages a 30:1 reduction gearbox for position work and a panel-mounted digital meterthat shows speed. **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer,makes it at its own factory in Ambala, India.

Specifications

Parameter	Detail
Drive train	d.c. servomotor, d.c. generator and flywheel mounted on a common shaft
Control signal	Analogue, 0 to ±10 V, varying servomotor shaft speed in either direction
Speed measurement	Optical sensor, with speed shown on a panel-mounted digitalmeter
Loading	d.c. generator loads the servomotor statically or dynamically
Position control	Electric clutch connects or disconnects the shaft to a 30:1 reduction gearbox
Position setpoint	Manual control
Inertia adjustment	Two extra interchangeable inertia discs (flywheels) supplied
Non-linear effect circuits	Block-type circuits adding fully adjustable deadzone (deadband), anti-deadzone, hysteresis and saturation
Product code	SLE/ETC/07
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Servo Trainer Used For?

Students usually begin with speed control, driving the servomotor with an analogue signal and reading speed from the optical sensor, then load the shaft with the d.c. generator to see how well a controller rejects disturbances. Engaging the clutch switches to position control through the reduction gearbox, with the manual control providing the position setpoint.

Swapping the interchangeable inertia discs changes the plant, so learners can observe the effect on response and stability. For advanced work, the included block circuits introduce adjustable deadzone, anti-deadzone, hysteresis and saturation — the non-linearities that make real servos misbehave — so classes can study and compensate for them. This breadth makes it a versatile piece of electronics lab equipment for polytechnics and engineering colleges.

OEM Manufacturer

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