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Product Name :

Digital Torsion Testing Machine

Product Code :

SLE/CE/110



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Description :

Digital Torsion Testing Machine (Product Code: SLE/CE/110) is a motorised test machine used to twist round and flat bar specimens while recording torque and angle of twist, in strength of materials and civil engineering laboratories. Engineering colleges use it to study torsional strength and shear behaviour, and it is listed in five capacities from 100 Nm to 2000 Nm with ± 1% torque accuracy. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM producing lab equipment for technical institutes, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Torque measurement	Torque cell; one range with high resolution throughout
Angle of twist measurement	Rotary encoder, read to 0.1 degree
Drive	Geared motor applying torque to the specimen through a gear box
Display	Torque and angle of twist on the LCD of the DataAcquisition System (DAS)
PC connection	Facility to connect the DAS panel to a PC
Torque accuracy	± 1% from 4% to 100% of machine capacity
Maximum torque capacity	100, 200, 500, 1000 or 2000 Nm
Torque resolution	0.01, 0.02, 0.05, 0.1 or 0.2 Nm (same model order)
Distance between grips	0–400, 0–450, 0–500, 0–600 or 0–1000 mm (same model order)
Torsion speed and direction	1.5 RPM, with reverse
Grips for round bars	4–50 mm diameter
Grips for flat bars	2–60 mm (thickness and width, as listed)
Power supply	3 phase, 440 V, 50 Hz, AC motor (rating to be confirmed at quotation)
Product code	SLE/CE/110
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Torsion Testing Machine Used For?

In a torsion test the specimen is clamped at both ends and one grip is turned slowly by the geared motor while the torque cell measures the resisting torque and the encoder tracks the angle of twist. Plotting torque against angle shows the elastic region, the onset of yielding and the maxi
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