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Product Name :

Flexure Testing Machine Digital

Product Code :

SLE/CE/02



Science Lab
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Description :

Flexure Testing Machine Digital (Product Code: SLE/CE/02) is an automatic, digitally controlled load frame used to measure the flexural and transverse strength of concrete beams, kerbs, flagstones and interlocking pavers in civil engineering laboratories. It comes with a 100 kN or 200 kN welded steel frame and a dual-stage power pack that loads specimens at 1 kN/s to 20 kN/s. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, forcollege and quality-control labs.

Specifications

Parameter	Detail
Frame capacity	100 kN or 200 kN
Tests	Flexural test on standard concrete beams; transverse test on kerbsand flagstones; indirect tensile test on concrete and interlocking pavers
Test cycle	Automatic with standard rapid approach; closed-loop digital readout; one-button start after entering specimen parameters
Control system	Graphical LCD data acquisition and control system, menu-driven software
Load rate control	1 kN/s to 20 kN/s; control accuracy listed as ±5
Load accuracy	Class 1 from 10% of full range
Live display	Load vs time plot and instantaneous load rate
Data storage	Up to 256 tests
Frame construction	Welded steel fabrication with the ram fitted to the upper crosshead; designed for minimum deflection at maximum load
Load measurement	Load cell
Piston stroke	75 mm and 100 mm, with safety limit switch
Piston return	By dead weight
Power pack	Dual-stage: high-delivery low-pressure pump for rapid approach, low-delivery high-pressure radial piston pump for testing; maximum pressure valve against overloading
Power	750 W
Oil capacity	25 litres
Fast approach speed	60–100 mm/min
Product code	SLE/CE/02
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Digital Flexure Testing Machine Used For?

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