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**Product Name :**

Flexure Testing Machine Manual

**Product Code :**

SLE/CE/06



# Description :

**Flexure Testing Machine Manual** (Product Code: SLE/CE/06) is a motorised mechanical tester used to determine the flexural strength of 40 x 40 x 160 mm mortar prisms by single-point loading in cement and concrete laboratories. Load is applied through a three-roller attachment at 4 to 6 kg/s and read on a proving ring fitted with a sensitive dial gauge, so no electronics are needed to take a reading. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM TVET lab equipment manufacturer, at its own factory in Ambala, India.

## Specifications

| Parameter | Detail |
|---|---|
| Type | Motorised, mechanical unit |
| Specimen | 40 x 40 x 160 mm mortar prisms |
| Loading method | Single-point loading for flexural strength |
| Rate of loading | Speed adjusted so load increases at 4 to 6 kg/s |
| Flexure attachment | Supplied; two 10 mm diameter support rollers spaced 100 mm apart, plus a third 10 mm roller equidistant from them that transmits load tothe opposite face of the prism |
| Load measurement | Proving ring with sensitive dial gauge |
| Power supply | 230 V, single phase, 50 cycles AC |
| Product code | SLE/CE/06 |
| Manufacturer | Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM |
| Country of origin | India (made in Ambala, Haryana) |

## What Is the Mortar Flexure Testing Machine Used For?

Cement and mortar are graded partly on flexural strength, measured on small prisms. The prism is laid across the two lower rollers, the third roller is brought down onto its centre, and the motor drives the load up at a steady rate until the prism snaps. The operator notes the dial gauge reading at failure and converts it to load for that proving ring, from which flexural strength is worked out.

Because the machine is purely mechanical, it suits polytechnic and university practicals where students should see how load, deflection and strength relate. Keep the rollers clean and free of mortar crumbs, set the loading speed before each series, and handle the proving ring and dial gauge with care, since they carry the measurement.

## OEM Manufacturer

This flexure testing machine is built by Jain Scientific Equipments Private Limited, which trades as ScienceLab and is the OEM (original equipment manufacturer). The frame, drive and roller attach
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