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**Product Name :**

Cam Mechanism

**Product Code :**

SLE/MCE/75



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# Description :

**Cam Mechanism** (Product Code: SLE/MCE/75) is a bench-top demonstration unit used to show how a rotating cam converts uniform rotation into non-uniform follower motion, with or without dwell, in theory of machines laboratories. Students fit one of four cam shapes and one of three engaging members, then read the follower stroke on a 0–30 mm dial gauge against the camangle on a 360° scale. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, anOEM manufacturer, at its own factory in Ambala, India.

## Specifications

| Parameter | Detail |
|---|---|
| Cam shapes | 4: circular arc, tangent, hollow, asymmetric |
| Engaging members | 3: roller plunger, flat plunger, cam follower |
| Angular scale | 0–360°, graduation 1°, for the angle of rotation |
| Dial gauge for the stroke | 0–30 mm, graduation 0.01 mm |
| Changeover | Cam and engaging member exchanged without tools |
| Dimensions | 300 x 300 x 400 mm |
| Weight | 8 kg |
| Product code | SLE/MCE/75 |
| Manufacturer | Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM |
| Country of origin | India (made in Ambala, Haryana) |

## What Is the Cam Mechanism Used For?

A cam is a shaped disc that pushes a follower through a planned motion as it turns, as in engine valve gear and automatic machinery. On this unit, students set the cam to successive positions on the angular scale and record the stroke on the dial gauge, building a displacement diagram of follower lift against cam angle. Repeating the test with the circular arc, tangent, hollow and asymmetric cams shows how the profile shapes the rise, dwell and return of the follower.

Swapping between the roller plunger, flat plunger and cam follower needs no tools, so the class can compare how each engaging member traces the same profile within one session. From the displacement readings, advanced students can estimate follower velocity and acceleration by differentiating the curve, a standard exercise in a kinematics of machines course. Keep the dial gauge plunger clean and square to the follower to make full use of its 0.01 mm graduation.

## OEM Manufacturer

The Cam Mechanism is an OEM product of ScienceLab. Jain Scientific Equipments Private Limited, trading under the ScienceLab name, manufactures it at its own licensed factory at Saha, Ambala, Haryana, India, and sells it factory direct to engineering colleges, polytechnics, ITIs, deale

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