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Product Name :

Cam Analysis Machine

Product Code :

SLE/ETM/10



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Description :

Cam Analysis Machine (Product Code: SLE/ETM/10) is a motor-driven test machine used to study how a follower responds to a rotating cam at different speeds, spring preloads and follower masses in engineering laboratories. Mechanical engineering students use it because theprecision machined heavy steel base carries a high-torque direct-drive variable-speed motor anda flywheel that steadies the drive. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Key Details

Parameter	Detail
Base	Precision machined heavy steel base
Drive	High-torque direct-drive variable-speed motor, coupled to the main shaft
Main shaft	Supported by self-aligning heavy-duty bearings; carries a substantial flywheel
Flywheel	Reduces speed variations as torque demand changes during the cam cycle
Cam mounting	Cam fits to the end of the main shaft, accurately mounted axially and radially for repeatability
Follower	Fits to the bottom of a vertical shaft running in low-friction linear bearings
Followers	Choice of two, with a tool for easy changeover
Springs	Choice of two compression springs with adjustable preload
Follower mass	Adjustable by adding different masses
Product code	SLE/ETM/10
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Cam Analysis Machine Used For?

Cams open engine valves, index machine tools and drive packaging lines, and at speed a follower may no longer track the cam profile faithfully. The Cam Analysis Machine lets students explore that behaviour on the bench: they choose a cam and follower, set the motor speed, and watch how the follower responds as the speed rises. The flywheel on the main shaft keeps the drive speed steady even though the torque demand changes through each rotation.

The follower is held against the cam face by its own weight, the weight of the vertical shaft and, when fitted, one of the two compression springs. Changing the spring, adjusting its preload or adding masses changes the force on the cam, so a class can compare several set-ups in one sessi
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