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Product Name :

Damper Kit

Product Code :

SLE/ETM/04



Description :

Damper Kit (Product Code: SLE/ETM/04) is a dashpot damping accessory used to add viscous damping to beam vibration experiments on the Free Vibrations Test Frame in theory of machines laboratories. A simple piston disc moving in a cylinder fits to the Test Frame beneath the beam, and the damping level is set by the non-toxic fluid students pour in, which is not supplied. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM and TVET lab equipment manufacturer in India, at its own factory in Ambala.

Key Details

Parameter	Detail
Type	Dashpot damper formed by a simple piston disc and cylinder
Mounting	Fits to the Test Frame under the beam
Damping fluid	Easily found non-toxic fluids (not supplied)
Damping level	Varied by the choice of fluid
Project work	Students may try their own fluids and their own piston discs
Product code	SLE/ETM/04
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Damper Kit Used For?

Real machines and structures never vibrate for ever, because friction and fluid resistance remove energy in every cycle. Fitted beneath the beam, the kit's piston disc has to push fluid aside in the cylinder each time the beam moves, turning an almost undamped oscillation into a decaying one. By comparing successive peaks, students calculate the logarithmic decrement and damping ratio and see how both change with the fluid used.

Start with the cylinder empty to record the undamped response, then repeat with fluids of increasing viscosity that are safe and easy to obtain, keeping the fill level the same each time. Because students may also make their own piston discs, the kit supports project work on how disc size or shape alters damping. It is straightforward engineering educational equipment for vibration and dynamics courses in India.

What to Specify When Ordering

- The Free Vibrations Test Frame, if your laboratory does not already have one (the kit fits to it)
- The beam experiment it will be used with, for example the Free Vibration Of Beam Spring
- Number of kits per laboratory
- Damping fluids are not supplied, so plan to source suitable non-toxic fluids locally

OEM Manufacturer

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