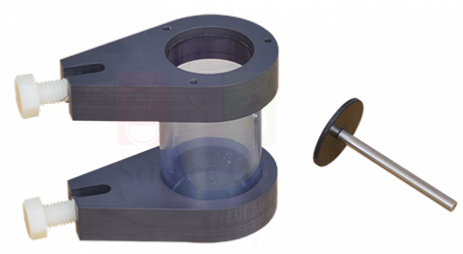
Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Damper Kit For Mass/Spring

Product Code :

SLE/ETM/07



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Description :

Damper Kit For Mass/Spring (Product Code: SLE/ETM/07) is a dash-pot damping accessory used to add viscous damping to a mass-spring vibration experiment, fitting to the guide rodsunder its platform, in theory of machines laboratories. Its piston disc and cylinder work with easilyfound non-toxic fluids, so students can move from light to heavy damping simply by changing thefluid. It is produced by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM scientificequipment manufacturer in India, at its own factory in Ambala.

Key Details

Parameter	Detail
Type	Dash-pot damper formed by a piston disc and cylinder
Mounting	Fits to the guide rods under the platform of the rig it is used with
Damping fluid	Works with easily found non-toxic fluids, chosen for different damping levels
Project work	Students may try their own fluids and their own piston discs
Data analysis	With a data acquisition system, displayed data can be fitted to underdamped and overdamped viscous damping models
Product code	SLE/ETM/07
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Mass-Spring Damper Kit Used For?

A mass bouncing on a spring is the textbook single-degree-of-freedom system, and adding a dash-pot turns it into the damped model used for vehicle suspensions and machine mounts. Mounted on the guide rods beneath the platform, the piston disc moves through fluid in the cylinder each time the mass oscillates, taking energy out of the motion. With a thin fluid the platform rings down gradually (underdamped); with a thick one it creeps back without overshooting (overdamped).

When the motion is recorded with a data acquisition system, the displayed data can be fitted to underdamped and overdamped viscous damping models, so students can extract a damping coefficient and compare it with theory. Try a series of non-toxic fluids of increasing thickness, fill the cylinder to the same level each time, and clean the piston disc between fluids. Students may also design their own piston discs, which makes the kit a good base for project work.

What to Specify When Ordering

- The rig the kit will be fitted to (it mounts on the guide rods under the platform)
- Whether data acquisition for fitting damping models is required (ask us about options)
- Number of kits for your student groups

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