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Product Name :

Disc Spring

Product Code :

SLE/ETP/20



Description :

Disc Spring (Product Code: SLE/ETP/20) is a spring-testing accessory used to study how disc springs stacked in series, in parallel or in a combination of both respond to a compressive load, in machine design and strength-of-materials labs. A disc guide and a compression cylinder fit the platens of a pump-operated testing machine, so students can compare the deflection rates of different stack arrangements. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM and scientific lab equipment manufacturer in Ambala, India, at its own factory.

Key Details

Parameter	Detail
Parts used	Disc springs, a disc guide and a compression cylinder
Fitting	Disc guide fitted to the lower compression platen; compression cylinder fitted to the upper platen
Stack arrangements	In parallel, in series, or a combination of series and parallel, stacked on the disc guide
Loading	Pump operated to raise the ram and compress the springs
Typical application	Uses that need a small deflection at high force levels
Product code	SLE/ETP/20
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Disc Spring Experiment Used For?

Disc springs are common in many industries, from bolted joints and clutches to valves and heavy tooling, wherever a large force must be carried in a very small deflection. Their big advantage is flexibility of design: the same discs can be stacked in different ways to change the deflection rate. This experiment lets students discover those rules by measurement.

Students stack the discs on the disc guide in the chosen combination, operate the pump to raise the ram, and record force against deflection. Discs stacked in series give more deflection for the same force, discs in parallel carry more force for the same deflection, and mixed stacks fall in between. Keep the stack centred on the guide, raise the ram slowly, and repeat each arrangement to check consistency.

What to Specify When Ordering

- The testing machine in your laboratory, with its compression platens and pump-operated ram, so fitting can be confirmed.
- The stack arrangements you intend to teach: series, parallel or combined.
- The number of Disc Spring sets needed.

OEM Manufacturer

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