



DISC SPRING EXPERIMENT

SM1000K

An experiment for investigating the force required to achieve maximum deflection of different stacking arrangements of disc springs, along with the spring rate. It fits in the Universal Testing Machine (SM1000) and consists of disc springs, a spring guide and a compression cylinder.



KEY FEATURES

- Fits in the compressive test area of TecEquipment's Universal Testing Machine (SM1000)
- Includes six disc springs



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DESCRIPTION

Disc springs are common in many industries. The main applications are those that require a small deflection for high force levels. Disc springs can easily be stacked in a variety of arrangements to vary their deflection rates.

The disc guide is fitted to the lower compression plattern and the compression cylinder to the upper plattern. The disc springs are stacked in the desired combination on the disc guide. The SM1000 pump is operated to raise the ram and compress the springs.

The spring discs can be stacked in parallel, in series or in a combination of series and parallel.

STANDARD FEATURES

- Five-year warranty
- Manufactured in accordance with the latest European Union directives
- ISO9001 certified manufacturer

LEARNING OUTCOMES

- To determine the force required to achieve maximum deflection in different stacking arrangements.
- To determine spring rate of disc springs in different spring stacking arrangements.

ESSENTIAL BASE UNIT

- Universal Testing Machine (SM1000)

OPERATING CONDITIONS

OPERATING ENVIRONMENT:

Laboratory environment

STORAGE TEMPERATURE RANGE:

-25°C to +55°C (when packed for transport)

OPERATING TEMPERATURE RANGE:

+5°C to +40°C

OPERATING RELATIVE HUMIDITY RANGE:

80% at temperatures < 31°C decreasing linearly to 50% at 40°C

SPECIFICATIONS

TecEquipment is committed to a programme of continuous improvement; hence we reserve the right to alter the design and product specification without prior notice.

APPROXIMATE NETT WEIGHT:

2.1 kg

APPROXIMATE PACKED VOLUME:

0.02 m³