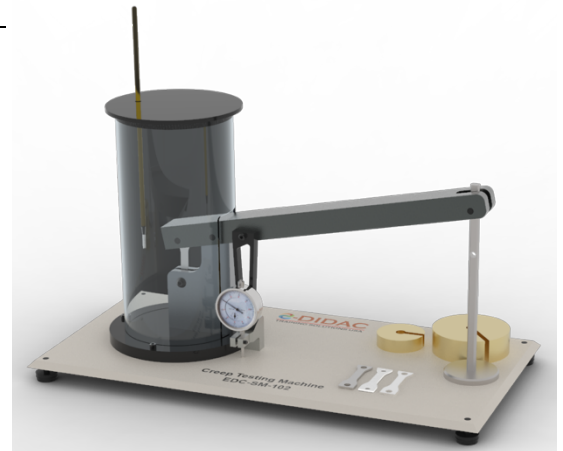


## Creep Testing Machine (EDC-SM-102)

### EXPERIMENTAL DATA:

- Creep of various specimens over a fixed time
- Relationship between breaking load and time for lead specimens and creep curve.
- Time extension curves to show the three phases of creep (primary, secondary and tertiary)
- The effect of temperature on the creep rate of specimens and creep recovery



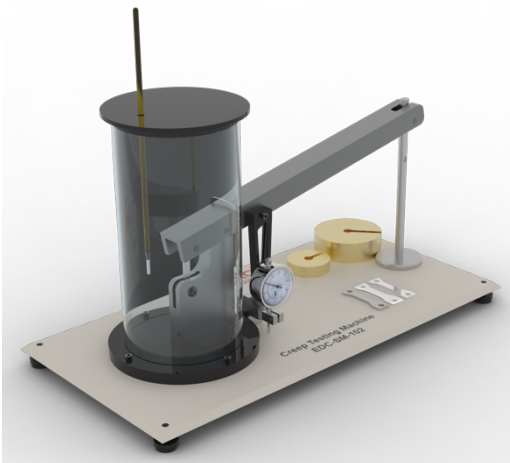
### DESCRIPTION:

This experimental unit uses specimen of different materials which creep significantly at room temperature and under low loads. Its main part is a simple lever (load beam) with a mechanical advantage of 8 into 1. The load beam gives steady and uniform tensile load. A digital indicator measures the extension (creep) of the specimen under load. To ensure correct loading of the specimen, the load beam has a ball bearing pivot. For effect of temperature tests, the student freezes or heats a cool pack and places it next to the specimen. They then fit the transparent enclosure to preserve the temperature around the specimen during the test.

A PC data acquisition (EDSM-102S) is also available (Optional).

### TECHNICAL DATA:

- Mechanical Advantage of 8 into 1
- Dial Gauge indicator with increments of 0.01mm
- 1 set of weight



### RELATED LAWS:

- Materials
- Stress
- Forces
- Deformation

### SCOPE OF DELIVERY:

- 1 x EDC-SM-102
- 1 x Weight Set
- 1 x Circular beam
- 1 x Freezing or Heating Pack
- 1 x Instructional Manual
- EDSM-102S (Optional)

### DIMENSIONS AND WEIGHT:

L x W x H (mm): 600 x 300 x 400

Weight Approx.: 12kg