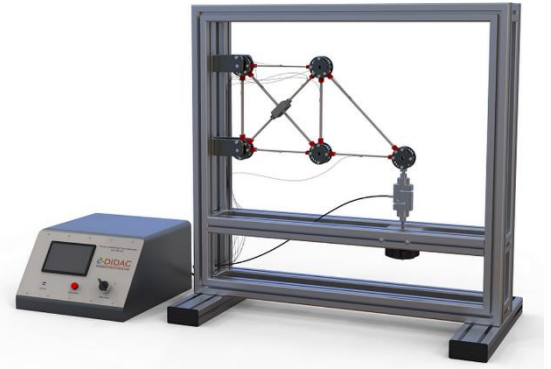


Redundant Truss Apparatus (EDC-SM-122)

EXPERIMENTAL DATA:

- Torsion tests with unlike materials and load until specimen break.
- Limit the bending strength.
- Plot the diagram of twisting moment over twisting angle
- Impact of:
 - specimen material.
 - specimen cross-section.
 - specimen length.



DESCRIPTION:

A truss is an assembly of members such as beams, connected by nodes, that creates a rigid structure. In engineering, a truss is a structure that "consists of two-force members only, where the members are organized so that the assemblage as a whole behaves as a single object

Optional Software is available for Data Acquisition and Control Function.

SPECIFICATIONS:

- Study of bar forces in statically indeterminate trusses.
- Surplus bar, lengthways adjustable.
- Conventional and tending loading possible.
- Load application device with force gauge mountable on different node disks.
- Measuring point to measure force on each bar.
- LCD display for measurement.

DIMENSIONS AND WEIGHT:

- L x W x H (mm): 1000 X 500 X 600 approx.
- Weight: 35 kg approx.

SCOPE OF DELIVERY:

- 1 x EDC-SM-122.
- 1 x Instructional Manual.

TECHNICAL DATA:

- 8 bars with 5 node disks.
 - 5 bars fixed with 300mm length.
 - 2 bars fixed with 425mm length
 - 1 bar adjustable with 400-450mm length.
 - Angle between bars is 30, 45, 60, 90.
 - Height of truss is 270mm maximum.
 - Length of truss is 500mm maximum.
- Loading is of 500N maximum.
- 230V, 50Hz, 1 phase.

