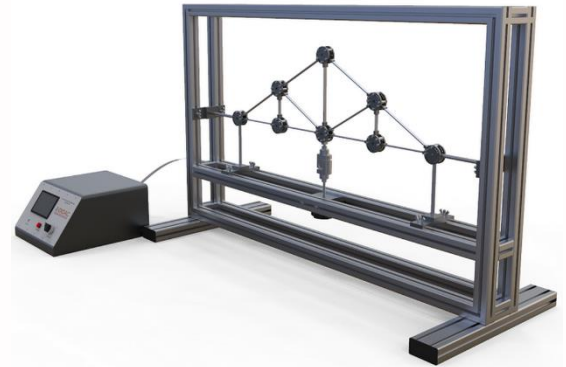


Forces in a Howe Truss Apparatus (EDC-SM-120)

EXPERIMENTAL DATA:

- Amount of the bar forces in a single plane truss: Howe type
- Compulsion of bar forces on the external force.
- Comparison of measuring results with mathematical and graphical methods:
 - Method of joints.
 - Ritter's method of sections.
 - Cremona diagram.



DESCRIPTION:

A Howe truss is a truss bridge consisting of chords, verticals, and diagonals whose vertical members are in tension and whose diagonal members are in compression. Apparatus consists of a frame of aluminum with howe truss structure. A digital display for measurement.

Optional Software is available for Data Acquisition and Control Function.

SPECIFICATIONS:

- Assembled howe truss.
- Aluminium frame.
- 2 vertical and 2 horizontal supports.
- Digital LCD display for measurement.
- Manual load applied.
- Low friction knife edge bearing.

DIMENSIONS AND WEIGHT:

- L x W x H (mm): 1250 X 650 X 300 approx.
- Weight: 42 kg approx.

SCOPE OF DELIVERY:

- 1 x EDC-SM-120.
- 1 x Instructional Manual.

TECHNICAL DATA:

- Angle between bars:
 - 30, 45.
- Node disks:
 - No. 8.
- 13 bars with 7 measuring points.
- Bars length:
 - 115.5mm.
 - 200mm.
 - 231mm.
- 230V, 50Hz, 1 phase.

