

## Universal Testing Machine (EDC-SM-152)

### EXPERIMENTAL DATA:

- With all accessories:
  - Tensile tests.
  - Plot stress-strain diagrams.
  - Brinell hardness test.
  - Compression tests.
  - Bending tests.
  - Cupping tests.
  - Shear tests.
  - Testing of plate and coil springs.



### DESCRIPTION:

A solid understanding of the chattels of materials is important for technical and scientific professions. This knowledge helps select the appropriate material, monitor production and processing and confirm the requirements in terms of a component. The materials test provides the necessary data in a reproducible and exactly quantified manner. The tensile test, bending test and hardness test are all part of classic destructive materials testing. Apparatus is also available in 50kN, 100kN, 250kN, 500kN and 1000kN. According to test load, size and shape of apparatus may change.

### SPECIFICATIONS:

- Based on industrial standards, hydraulic operated trainer or material testing.
- Manual operated lever arm for applying load.
- Digital pressure and Dial Gauge.
- Tensile and compression forces generation.

### DIMENSIONS AND WEIGHT:

- L x W x H (mm): 400 X 550 X 1200 approx.
- Weight: 100 kg approx.

### SCOPE OF DELIVERY:

- 1 x EDC-SM-152.
- 1 x Instructional Manual.

### TECHNICAL DATA:

- Measuring range:
  - Force: 0 to 35kN, Increment/step: 0.5kN.
  - Travel: 0 to 20mm, Increment/step: 0.01mm.
- Test Force:
  - Max. 35kN, Stroke: max. 45mm.
- Free Installation space for specimens: 165x65mm.
- 20 tensile specimens. Material: Al, Cu, St, Brass.
- 20 hardness specimens.
- Sphere for hardness testing: Ø 10mm.
- 230V, 50Hz, 1 phase.

