



### Specifications:-

- Examines the deflection and forces on different types of beams for a wide range of supports and loads
- Made for maximum flexibility and ease of use for extensive range of experiments
- Simply supported and cantilever beam tests with up to four supports with any loading
- Three load cells with digital indicators measure reaction forces or act as rigid sinking supports
- Precision digital indicators for accurate deflection measurements
- Weights and hangers supplied to apply point loads
- Supplied with five different test beams
- 1 x Cantilever Support - rigid pillar with clamping arrangement suitable for all test beams
- Load measuring devices: 3x Electronic load cells, with digital readout of force (digital load meter)  
0 to 60N capacity with adjustable knife-edges  
Locking pin for converting to rigid supports  
Output to VDAS
- 1 mm of movement = 10 N reaction force
- Deflection measurement: 3x Digital indicators mounted on magnetic carriers
- 0 to 25 mm range in 0.01 mm Increments, with output to VDAS
- 4x Weight Hangers, fitted with cursors o Masses
- 4x 2 N
- 4x 5 N
- 6x 10 N
- 3x Mild Steel - 1350mm long
  - l x 3.2 mm thick x 19 mm wide
  - l x 4.8 mm thick x 19 mm wide
  - l x 6.4 mm thick x 19 mm wide
- 1 x Brass - 1350mm long o 6.4 mm thick x 19 mm wide

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*

### **TESCA TECHNOLOGIES PVT. LTD.**

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- I x Aluminium - 1350 mm long o 4.9 mm thick x 19 mm wide
- **Experiments**
  - Verification of the bending equation
  - Determination of flexural rigidity and elastic modulus (Young's modulus)
  - Verification of static equilibrium
  - Deflection of beams on two simple supports with point loads
  - Reciprocal properties for loads and deflection
  - Simple and propped cantilevers with any loading
  - Continuous beams - statically indeterminate cases for simply supported beams and cantilevers on more than two supports with any loading (including measurement of unknown reactions)
  - Simply supported and cantilever beams with sinking supports

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