

Product Name :
Buckling Behaviour of Bars

Product Code :
ALABS-A179-112

ALTEC™

Description :

Buckling Behaviour of Bars

1. Investigation and testing of all relevant buckling cases
2. Verification of the Euler Theory of buckling
3. Experiments in horizontal or vertical orientation
4. Test bars in various lengths and materials
5. Test bar ends pinned or fixed
6. Spindle to apply forces
7. Transverse load application device generates shear forces
8. Force measurement using a hydraulic load cell
9. Measurement of lateral deflection by dial gauge
10. Storage system to house the components

Technical Data:

Test bars

- quantity: 11
- bar length: 350...700mm (max.)
- materials: aluminium, copper, brass, steel, GRP
- cross-sections: 10x4mm, 25x6mm, 25x10mm

Load application spindle

- force: max. 2000N
- stroke: max. 10mm

Lateral deflection: max. 20mm

Specimen holder bore: d=20mm

Measuring ranges

- force: 0...2500N, graduations: 50N
 - deflection: 0...20mm, graduations: 0,01mm
- Set of weights for transverse load: max. 20N
- 3x 5N, 1x 5N (hanger)



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