

Product Name : Buckling Behaviour of Bars		Product Code : ALABS-A169-016
	ALTE	C [™]
Description :		
Buckling Behaviour of Bars		
load, the axis of the bar deflect violently fails (collapses), even The stresses in the bar often re this process. Investigates the b influences. All relevant buckling experimentation. For the purper depending on the buckling cas cross-arm and a hand-operate force to the bar. An axial bearing support prevents torsional load cell measures the applied force The lateral deflection of the bar gauge. Experiments demonstrate materials and methods of supp can be used to generate addition gauge can be rotated 90° to addition to the stress of the stress of the stress the stress of the stress of the stress the stress of the stress can be used to generate addition the stress of the stress stress of the stress the stress of the stress can be used to generate addition the stress of the stress stress of the stress can be used to generate addition the stress of the stress can be used to generate addition the stress of the stress can be used to generate addition the stress of the stress can be used to generate addition the stress of the stress can be used to generate addition the stress of the stress can be used to generate addition the stress of the stress can be used to generate addition the stress of the stress can be used to generate addition the stress of the stress can be used to generate addition the stress of the stress of the stress can be used to generate addition the stress of the str	compressive forces, and under it is laterally until it suddenly and before the fracture point is reac- emain within the elastic range du buckling behaviour of bars under g problems are demonstrated by se, one end of a bar is fixed or p e. A height-adjustable load-carry d spindle are used to apply com ing between the spindle and the ling of the test bar. A hydraulic le e and indicates it on a pressure	ched. uring r various y way of pinned, ying pressive bar oad gauge. bar lengths, on device r. The le load various

storage system.

Specification:

- 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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