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Product Name :
Screw Tester Apparatus

Product Code :
LBNY-0005-10100047



Description :

The resulting deformation is recorded by a mechanical dial gauge, and is directly related to the bolt tension force generated. The bolt joint is tightened and slackened using a special torque wrench, which can be set sensitively with the aid of a threaded spindle. The main element of the unit is a slotted, elastically deformable steel block. By tightening the bolt joint, the slotted area is deformed, thereby generating an axial tension force in the bolt. By using an axial bearing, the head friction of the bolt can be largely excluded, so that only the friction of the threaded joint is measured.

Technical Specification :

Determining the tightening and breakaway torque with a mechanical torque measuring device
Experiment on the correlation between the tension force and tightening torque of bolts
Bolt size M8x100, wrench jaw size 13mm
Sensitive torque setting by hand wheel
Elastic deformation of a slotted block by the bolt
2 position dial gauges.

Technical Data:

Force/travel constant: 20kN/mm (on slotted block)
Tension force: max. 40kN
Max. Tightening torque: 40Nm
Position dial gauge: 0...10mm, graduations: 0,01mm
Torque/travel constant: 10Nm/mm (on torque measuring device)
Dimensions and Weight:

l x w x h: 450x400x260mm
Weight: approx. 27kg.



Laboratory Instrument India