



THE LAB EQUIPMENT

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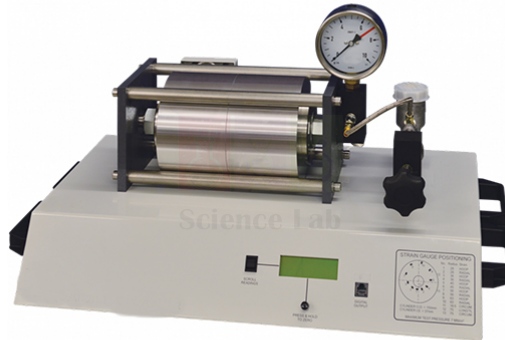
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**Product Name :**

Thick Cylinder

**Product Code :**

SLE/ETP/10



## Description :

- A self-contained bench mounting experimental apparatus to enable students to investigate the distribution of radial and hoop stresses and strains throughout the wall of a thick cylinder and to compare the practical results with those predicted by theory.
- These gauges measure the radial and hoop strains.
- Jointing cement fills the groove.
- The apparatus consists of a thick-walled aluminium cylinder, held in a robust frame.
- The cylinder is in two halves, cemented together.
- One face of the joint has an eccentric shallow groove that contains ten strain gauges at precise radii and orientation.
- Strain gauges on the inner and outer walls of the cylinder measure longitudinal and circumferential strains.
- The cylinder contains oil. To stress the cylinder, students use a hydraulic hand-pump to pressurise the oil.

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