



THE LAB EQUIPMENT

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Product Name :

Apparatus Young Modulus Searle's

Product Code :

SLE/PHY/17



Description :

Modulus of elasticity -is a measure of stiffness of a given material. A specially designed apparatus capable of high sensitivity and accuracy. It is defined as the ratio -for small strains -of the rate of change of stress with strain. Two cast metal rectangular frames hinged together parallel to each other to allow only vertical relative motion -with a spirit level fixed on a cross-bar pivoted across the frames for noting the reference point. Each frame has a self-centering chuck at its top for holding wires and load hooks at the bottom. One frame has vertical scale 10 – 0 – 10mm with a micrometer head along it reading to 0.01mm for adjusting the spirit level. Also included are ceiling bracket carrying a pair of chucks -a counterpoise weight and a set of two wires -one each of brass and steel. The relative displacement between the two frames can be known from the micrometer reading after adjusting the bubble of spirit level.

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