

Experiment(s):

1. Determination of Young's modulus of wire by stretching

(For more details, procedure & manual visit: www.kamaljeeth.net)

Reference : *Lab Experiments Journal vol-12, No.1, Page-42*

**Experiment setup consists:**

- a) Searle's apparatus
- b) Weight set

Specifications:**a) Searle's Apparatus**

Frame: Twin cast iron frames
 Levelling: Using spirit level
 Scale: Micrometer type
 Resolution: 0.01 mm
 Movement: 60 mm
 Mounting: Twin chuck nut type
 Upper mounting: To ceiling using a wooden board (wooden board not provided)
 Sample wire: Steel wire of diameter 0.5 mm

b) Weight Set

Dead weight: Yes
 Known weight: 5 x 500 g
 slotted weight set



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