

YOUNG'S MODULUS BY BENDING

Model: YMU-201/427

Experiment(s):

1. Determination of Young's modulus of rectangular cross section by uniform bending

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

Reference : Detailed textbook of Engineering physics practicals by S P Basavaraju, Page -63

Specifications:

a) Uniform cross section aluminium beam

Material: Aluminium

Length: 600 mm

Pointer: Fixed

Weight set: 5x50 g (2nos)

Knife edge: Acrylic body with steel knife edges

b) Travelling microscope

Number of axis: 2

(x and z axes)

Base: Cast iron

Moving parts: Brass

Focus: Adjustable

x- axis movement: 180 mm

Measurement: Screw gauge type

Least Count: 0.01 mm

Free movement: Yes

Magnifier: Yes

z- axis movement: 140 mm

Measurement: Screw gauge type

Least Count: 0.01 mm

Free movement: Yes

Magnifier: Yes

OR

c) Digital travelling microscope

Number of axis: 1 (Vertical)

Base: Cast iron

Moving parts: Brass

Focus: Adjustable

Free movement: 150 mm

Micrometer movement: 10 mm

Least count: 0.01 mm

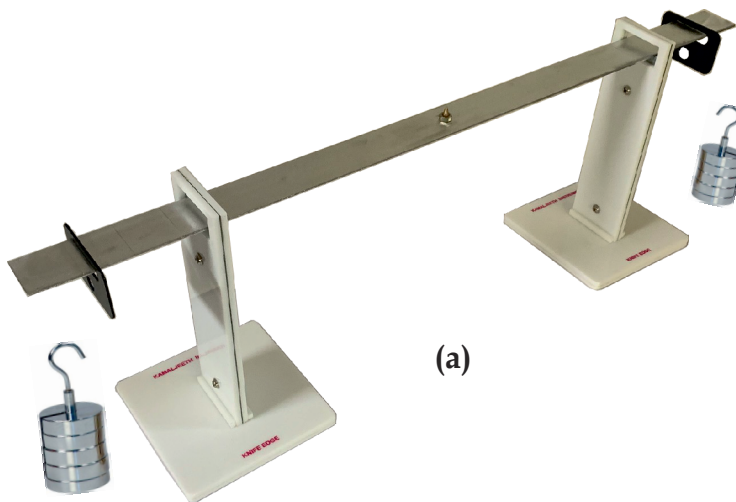
Display: LCD

Detector: Resistive type

Rated Input: 220 V/50 Hz

or 110 V/60 Hz

Power consumption: <20 W



(a)



(b)



(c)



KAMALJEETH INSTRUMENTS

ESTD. 1990

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