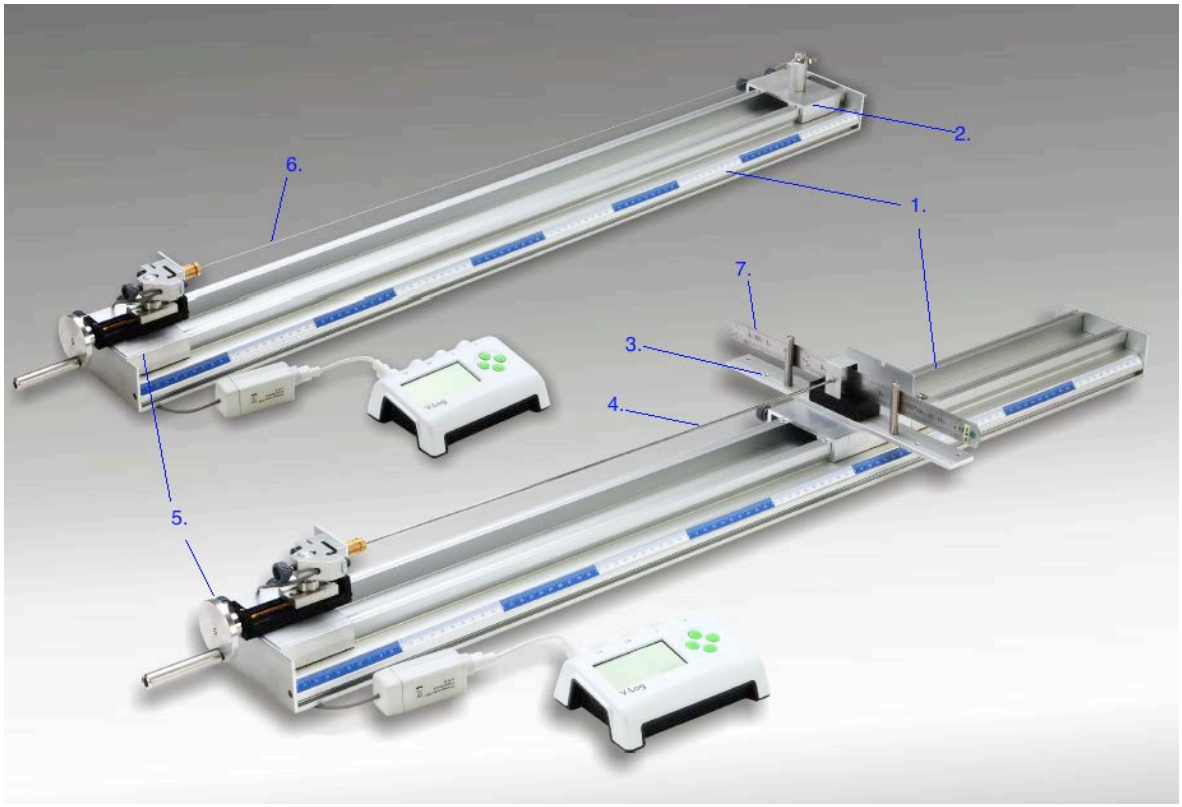
F13 determine the Young’s Module



F13 determine the Young’s Module

Experiments:

1.Determine the Young' Module by metal wire

2.Determine the Young' Module by deflection of a beam

3.Determine the length and thickness by caliper gauge and micrometer

Specification:

1. Aluminum experimental platform x1

   Aluminum alloy, a 3 D biconvex guide track ,on the top surface, is fastened by U-shaped clips at below and both sides, one of which is adhered to an meter of inclination of 45-degree. And the type of three-point level-supporter of the size 100 x12x4.5cm, at both ends, is subjected.

2. Slide mount for metal wire x1

3.Slide mount for metal flat rods x1

4.Pull rod for metal flat rods incl. two different thick slide. x1

5.Slide mount for force sensor x1

6.Testing wire: steel wire Φ0.24mmx1/Φ0.34mm x1/Φunknown x1,
fishing wire(nylon) Φ0.42mm x1
brass wire Φ0.47mm x1

7.Testing strip : Steel strip(LxWxT) 320x25x1mm x1
320x20.5x1mm x1
320x25x0.78mm x1
Acrylic strip(LxWxT) 320x25x2.5mm x1
320x25x2.0mm x1
320x12.5x2.5mm x1
Brass strip(LxWxT) 320x25x1mm x1

Option:

1. Datalogger x1
2. Force sensor x1