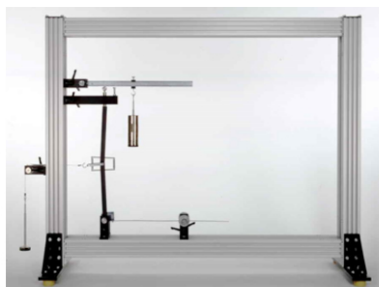




AFME013 Deflection Of Beams And Cantilevers



This equipment is for mechanical engineering department or mechanics engineering department in university, it's for Theoretical and Applied Mechanics, Engineering Mechanics, Solid Mechanics major and other mechanics related department.

The equipment is used for measurement of deflections and slopes of a beam under bending or and compare with values calculated by differential equation. It is to be used with Universal Structural Frame (separately supplied).

The beam rest on two built-in/knife edge supports. Load hangers are used for point loads and a number of weights are used for uniform load. Deflections and slopes are measured by dial indicators.

Instruction manual is also included.

II. Typical Experiments Beam deflections ,Beam bending formula

Shape of a deflected beam.

III. Technical Data

Structure: aluminum

Bottom with adjustable rubber to adjust the height. ,The total weight is less than 200kgs.

Working environment: -10℃~40℃, Humidity<85% Test beam – Steel 2

Built-in/Knife Edge Support 2, Hanger sliders 2 ,Load hangers 2 ,Dial Indicators 2.

Digital Indicator with digital output instead of Dial Indicators