STRAIN GAUGE TRAINING SYSTEM

RS 040

Description:

When different materials are subjected to loading, a concept called stress and strain becomes meaningful. Stress is the result of dividing the force per unit area and strain is the ratio of changes in the length of the sample to its initial length. The topic of measuring and analyzing stress and strain in objects is one of the basic topics in engineering fields. This device examines strain changes in three types of loading, tensile, torsional and bending. The tested specimens include a brass shaft for torsion testing, a PVC shaft for tensile testing, and an aluminum specimen for bending testing.

Specifications:

- Strain gauges
- Loading using weights and weight hanger
- Test specimens made from aluminum, brass and PVC
- Suitable mechanical or electronic data acquisition system
- Transparent plexiglass protector
- Wheeled carbon steel structure
- Installation and training video included
- Instructions manual included
- 10- year warranty

Note: Direct contact with the sales department is required to confirm the last updated technical specifications and pictures.

Applications:

1. Analyzing the stress, strain and deflection in the columns
2. Comparison of the theory and practicality of strain in tensile and bending and twisting tests

Required For Operation:

- 220 v Single Phase Electricity
- Desirable Temperature (°C): 10-30
- Relative Humidity: 15% - 80%
- Computer system to display data (if data logger is used)

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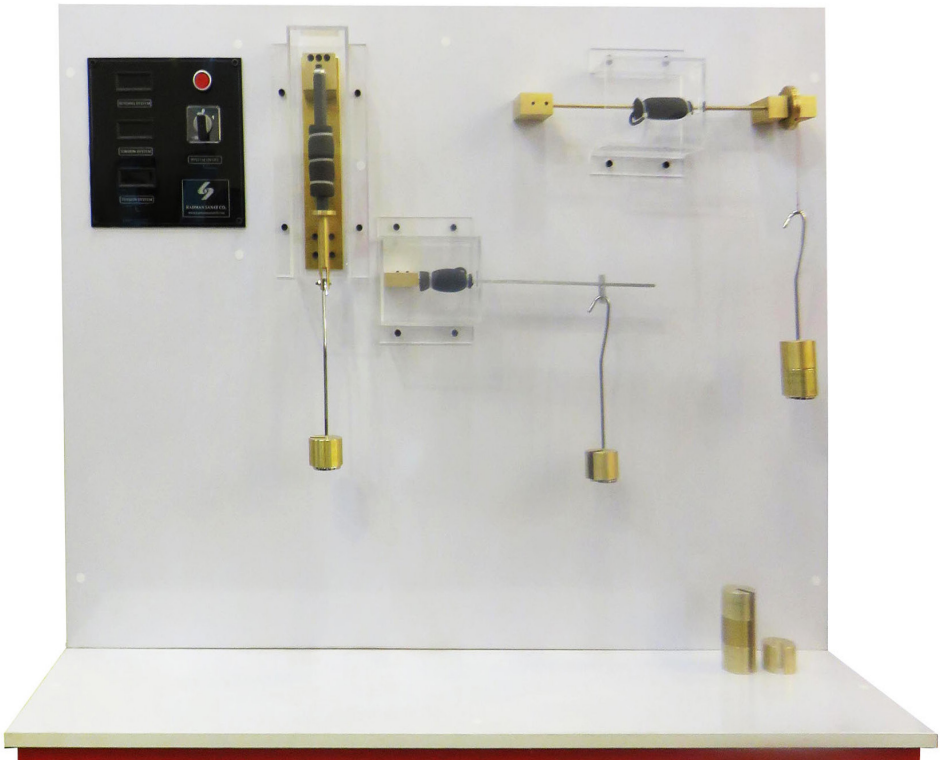

Dimensions (L*W*H) mm: 1200 x 700 x 1000