HOOK'S LAW

RS 033

Description:

Hook's law explains the elastic behavior of the parts which slightly deform as a result of loading. Most materials follow the Hook's law as long as the force is less than their elastic limit. The materials or bodies to which the Hook's law is applicable are called linear elastic or Hookean materials. To put it more simply, this law says that strain has a direct relation with stress. This apparatus demonstrates the application of Hook's law and the deformation of extension springs under loading. For this purpose, 2 springs are hung from the support and are loaded by a weight hanger and different weights. Series and parallel spring configuration can be obtained and tested.

Specifications:

- Ruler for measuring spring displacement
- Springs with different stiffness contrast
- Weight hanger to apply force
- Various Newtonian weights to induce displacement
- Connecting rod for parallel setup of springs
- Installation and training video included
- Instructions manual included
- 10-year warranty
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Note: Direct contact with the sales department is required to confirm the last updated technical specifications and pictures.

Applications:

1. Investigating the relation between the force applied to a spring and displacement of the spring
2. Determination of the spring constant
3. Ability to conduct the experiment in both series and parallel configuration

Required For Operation:

- Desirable Temperature (°C): 10-30
- Relative Humidity: 15% - 80%

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Dimensions (L*W*H) mm: 500 x 350 x 1000