



Project-2

➤ AIM OF THE PROJECT

To study the spring constant of a helical spring from its load-extension graph.

➤ APPARATUS AND MATERIALS

Helical spring with a pointer attached at its lower end and a hook/ring for suspending a hanger; a rigid support/clamp stand; five or six slotted masses (known) for hanger; a metre scale.

➤ PRINCIPLE

- When an external force is applied to a body, the shape of the body changes or deformation occurs in the body. Restoring forces (having magnitude equal to the applied force) are developed within the body which tend to oppose this change. On removing the applied force, the body regains its original shape.
- For small changes in length (or shape/dimensions) of a body (wire), within the elastic limit, the magnitude of the elongation or extension is directly proportional to the applied force (Hooke's law).

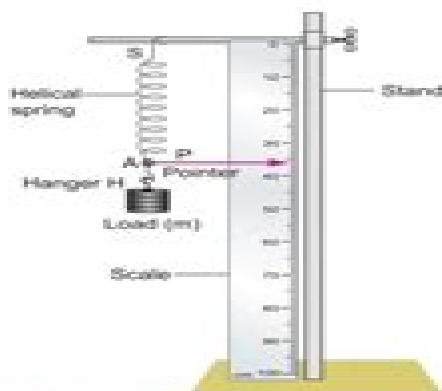


Fig. 2.1 Measurement of extension of a helical spring due to load

- Following Hooke's law, the spring constant (or force constant) of a spring is given by

$$\text{Spring constant, } K = \frac{\text{Restoring force, } F}{\text{Extension, } x}$$

- Thus, the spring constant is the restoring force per unit extension in the spring. Its value is determined by the elastic properties of the spring. A given load is attached to the free end of the spring which is suspended from a rigid point support (a nail fixed to a wall). A load (slotted weight) is placed in the hanger and the spring gets extended/elongated due to the applied force. By measuring the extensions, produced by the forces applied by different loads (slotted mass) in the spring and plotting the load (force) extension graph, the spring constant of the spring can be determined.

➤ PROCEDURE

1. Suspend the helical spring, SA, having a pointer, P, at its lower free end, A, freely from a rigid point support, as shown in Fig. 2.1.
2. Set the metre scale close to the spring vertically. Take care that the pointer moves freely over the scale without touching it and the tip of the pointer is in front of the graduations on the scale.

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