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**Product Name :**  
Beam Bending Vibration Module

**Product Code :**  
LBNY-0005-18700011



#### **Description :**

A flexible beam is supported between two end brackets which create simply supported end conditions. One end bracket allows pivoting only whilst the other allows rolling and pivoting only. Experimental module, which fits into the Vibration Frame making up part of the Universal Vibration Apparatus. The vertical brackets and standard length beam are both supplied. One of the brackets is supported on vertical supports that can be moved depending on the beam length being used.

The Beam Bending Vibration Module is forced to vibrate using a motor exciter. This allows high rotational speeds to be achieved. A speed sensor on the motor exciter monitors the speed of rotation of the eccentric masses and outputs Beam Bending Vibration Module. The motor exciter is supplied as standard and has two eccentric masses attached directly to the motor spindle at either end. This motor exciter can be attached anywhere along the beam length between the brackets.

#### **Experimental Capabilities:**

Forced vibration of a simply supported beam Natural frequency of oscillations

Resonance

Free vibration of a simply supported beam

Phase lag

Amplitude of vibrations.

#### **Technical Specification :**

Beam forced to vibrate using a exciter motor and associated masses

Adjustable damping can be added

To be an experimental module making up part of the universal Vibration Apparatus

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Comprises a flexible beam supported on end brackets giving simply supported end conditions  
Beam displacement monitored using LVDT  
Beam excitation frequency monitored  
Damping tub and medium supplied  
Additional masses to be supplied  
Beam excitation and displacement to be captured.



**Laboratory Instrument India**