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Product Name :	**Product Code :**
Critical Speed Investigation Apparatus	LBNY-0005-10100076

Description :

The rotor is held on the base frame with pivoting bearings. The weights and bearings can be placed at any location along the shaft and attached securely with quick-acting clamps. This benchtop unit is used to show the resonance and critical bending speed on rotating shafts. The construction of the rotor of a thin, flexible shaft and rigid weights facilitates the theoretical comprehension. It is possible to switch speeds during the experiment as desired. A transparent protective hood covers the rotating parts. A set of electrical vibration sensors with clamping set is also available. It is driven by a flexible coupling. Two motor speeds can be fine-adjusted and preset with ten-speed potentiometers. They are controlled electronically and displayed digitally.

Technical Specification :

Benchtop experiment for investigating critical bending speeds on rotors
Rotor shaft made of high-strength steel
Two weights for attachment at any point
Max. Two resonance speeds, illustration of self-centering
Adjustable speed, two speeds (can be preset), can be switched at any time, setting with two 10-speed potentiometers, digital display
Two pendulum ball bearings for positioning at any point for support of the rotor shaft
Elec. Motor 0.25kw, controlled electronically
Protective hood made of transparent plastic
Locking catch on rotor

Technical data:
Speed range: 300...3000rpm

Motor output: 0.25kw
Min. Spacing of weights: 50mm
Support: pendulum ball bearing
Adjustable bearing spacing: 300...470mm
Experimental rotor shaft: dxl 6x500mm, steel
Weights: d=80mm, 1kg, steel
Catch play: 3mm
Dimensions and weight:
L x w x h: 1150 x 375 x 355 mm
Weight: approx. 49 kg.