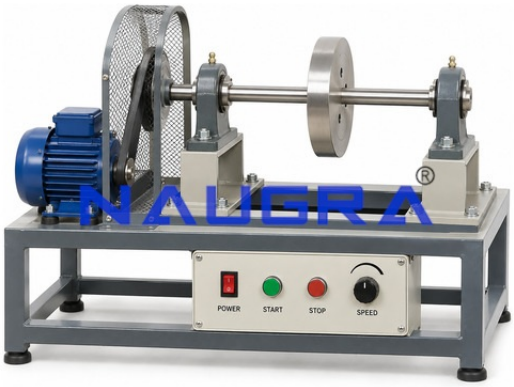
Product name:	Product code:
Whirling Of Shaft Apparatus	Theory Lab0007



Description

Whirling Of Shaft Apparatus

Technical specification

within a short time with the help of this unit. The fixing ends provide change of end fixing condition of the rotating shaft as per the requirement.

Whirling Of Shaft Apparatus When the natural frequency of a system coincides with the external forcing system frequency the phenomenon is called resonance. The speed at which resonance occurs is known as critical speeds. These speeds are also called whirling speeds or whipping..

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SCOPE OF EXPERIMENTATIONS:-

(1) Supported end conditions: Make use of end blocks with single self-aligning bearing.
(2) Fixed end conditions: -Make use of end blocks with double bearing. The guards D1 & D2 can be fixed at any position on the supporting bar frame, which fits on side support F. Rotating shafts are to be fitted in blocks in A &B stands. .

UTILITIES REQUIRED:-

The driving motor is 230V DC 1/16
H.P; 6500 RPM. A dimmer state of 240v, 2amp, and 50 cycles is used to control speed of the rotating shaft.

EQUIPMENT DETAILS :-

(A) Coupling: - A flexible shaft is used to drive the test shaft from motor.
(B) Ball bearing fixing ends:- The ends fix the shaft while it rotates. The shaft & the end-fixing device can be replaced