

Product Name :
Whirling Of Shaft Apparatus

Product Code :
Dynamics0005



Description :

Whirling Of Shaft Apparatus

Technical Specification :

The modes of oscillation and resonances of rotors with continuous mass distribution can be clearly demonstrated using this unit.
Due to the use of thin, elastic rotor shafts made of high-strength steel, the oscillatory phenomena can be easily understood.
A range of shaft diameters and the free choice of the bearing arrangement make it possible to perform a wide variety of experiments.
Adapters in the bearings compensate for different diameters; catch bearings limit the amplitude of the oscillation.
A Laval rotor with discrete mass distribution can be assembled using a mass disc.
As a supplement to this unit, a set of vibration sensors is available.
These enable the path of the rotor to be displayed on an oscilloscope.
The freedom of movement of the rotor is assured by an elastic coupling.

FEATURES:

- Experimental unit on critical rotational speeds on simply loaded and continuous shafts
- 6 rotor shafts made of high-strength steel
- Motor: adjustable speed, digitally display, adjustment with potentiometers, 2 rotational speeds can be preselected, can be switched as required
- Mode shapes of continuous rotor shafts
- Transparent protective cover enables the experiment to be optimally observed
- Variation of bearing spacing and shaft diameter

SPECIFICATION:

Rotor shafts made of steel :
Diameter: 3mm, 6mm, 7mm
Length: 600mm, 900mm

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