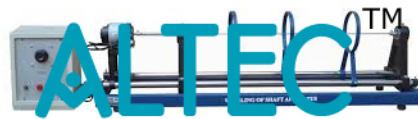


Product Name :
Whirling Shaft Apparatus**Product Code :**
ALABS-A136-019**Description :****Whirling Shaft Apparatus**

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. The freedom of movement of the rotor is assured by an elastic coupling. A Laval rotor with discrete mass distribution can be assembled using a mass disc. For data acquisition via PC the supplement provides a measuring and evaluation software including sensors. Alternatively, the supplement together with can be used for data acquisition. These enable the path of the rotor to be displayed on an oscilloscope.

Specification:

1. Experimental unit on critical rotational speeds on simply loaded and continuous shafts
2. 6 rotor shafts made of high-strength steel,

3. Rotor disc made of steel
4. Drive via elastic coupling
5. Motor: adjustable speed, digitally display, adjustment with potentiometers, 2 rotational speeds can be preselected, can be switched as required
6. Up to 4 self-aligning bearings on the rotor shaft
7. Up to 3 securing catch bearings with plastic packing can be positioned on the rotor
8. Protective cover made of transparent plastic

Technical Data:

Rotor shafts made of steel

- diameter: 3mm, 6mm, 7mm
- length: 600mm, 900mm

Rotor disc made of steel

- diameter: 80mm
- weight: 1kg

Motor

- power: 0,25kW
- speed: 0...6000min⁻¹
- speed electronically controlled



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