



P5428 WHIRLING OF SHAFTS APPARATUS

FEATURES

- ◆ Infinitely variable control shaft speed
- ◆ Precision electronic tachometer
- ◆ Three steel specimen shafts
- ◆ Three guard rings to limit whirling deflection
- ◆ Four variable position bearing housings provide nodal points

PRINCIPLE EXPERIMENTS

- ◆ Whirling of a long thin shaft supported at its ends
- ◆ Whirling of a shaft with concentrated masses
- ◆ Whirling of a continuous shaft
- ◆ Whirling of a shaft with intermediate nodes

DESCRIPTION

Cussons Whirling of Shafts Apparatus consists of a light alloy bed 1.8m in length fitted with a countershaft assembly at one end with a high speed low voltage DC motor connected to the experimental shaft by a flexible coupling. Four ball bearing brackets which are adjustable in position, support the shaft and provide nodal points. Three guard rings to limit the shaft deflection are supplied and these may be located at any point along the bed.

Two additional shaft specimens are provided, all of ground steel, of various diameters. Also provided are two discs, having different values of Moment of Inertia to fit each of the specimen shafts. A separate solid state AC Control Unit provides infinitely variable rotational speed control and speed is displayed by a precision electronic tachometer.

TENDER SPECIFICATION

Comprising a bench mounted light alloy bed 1.8m in length and fitted with high speed DC motor. Supplied complete with AC Control Unit, tachometer, set of specimen shafts (3) and set of inertia discs and bushes (in box).

SERVICES

For AC mains 50 Hz or 60 Hz supply.
Please state voltage when ordering.

SHIPPING DETAILS

Case size: 188 x 46 x 46 cm
Gross weight: 95 kgs
Nett weight: 51 kgs