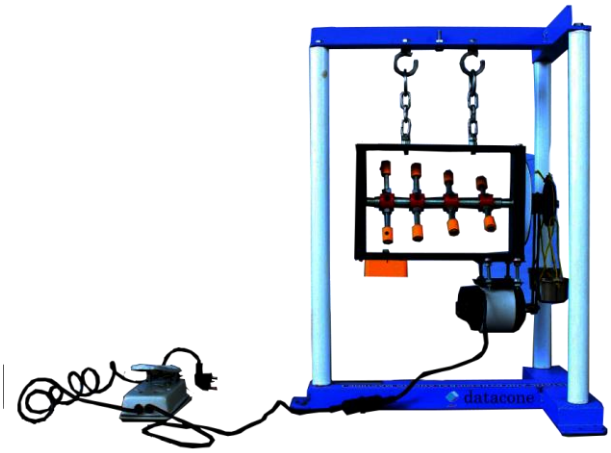
TOM-004 **STATIC AND DYNAMIC BALANCING APPARATUS**



RANGE OF EXPERIMENTS TO BE CARRIED OUT:

1. To Study the Static and dynamic balancing phenomenon..
2. To draw the couple polygon and force polygon of masses attached.
3. To arrange the masses according to polygon and observe the balancing effect.

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TECHNICAL DESCRIPTION :

The apparatus basically consists of a steel shaft mounted in ball bearing in a rectangular main frame. A set of blocks of different weights are provided & may be clamped in any position on the shaft, and also be easily detached from the shaft.

The disc caring a circular protractor scale is fitted. Shaft carries a disc & rim of this disc is grooved to take two cylindrical metal containers of exactly the same weight.

The scale is fitted to the lower member of the main frame & when used in conjunction with the circular protractor scale, allows the exact longitudinal & angular position of each adjustable block to be determined.

The shaft is driven by a 230 V. single phase 50 cycles electric motor, mounted under the main frame, through a belt.

For static balancing of individual weights the main frame is suspended to the support frame by chains & in this position the motor driving belt is removed.

For dynamic balancing of the rotating mass system the main frame is suspended from the support frame by two short links such as that the main frame & the supporting frame are in the same plane.

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DIMENSIONS AND WEIGHT :

Size :0.7 m.(L)x 0.5 m(W) X 0.7m (H)

Weight :Approx. 10 Kg

SERVICE REQUIRED :

230 v Ac Supply 50 Hz

SCOPE OF DELIVERY:

1. Experimental Setup
2. Instructional Manual

OPTIONAL FACILITY: Data logging Facility

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