Features

Tesca Simple Balancing Apparatus is an unit to study and analyze the oscillations and vibrations and how to eliminate or diminish them.

This unit is sustained by anodized aluminum profiles on which are mounted steel panels. This gives to the unit stability and lightness.

The Tesca Simple Balancing Apparatus is basically formed by a shaft mounted on bearings. This shaft is coupled by pulley to an electrical motor with variable speed that will make it turn. The whole is fixed to the support structure by means of springs which make the unit oscillate in case there are vibrations or forces without being balanced.

A ruler can be used in the Tesca Simple Balancing Apparatus to see easily the measurement of the system displacement with a needle placed at the right side of the unit. The unit is supplied with an Auxiliary Module for the electrical supply and the motor speed control. The unit is completed with a set of sector masses and weights of different values for doing the experiments.

This shaft has 2 discs coupled: one of them is the pulley, and the other is a graduated disc. The disc have drills to proceed, through fixing the masses, to the system destabilization and then to its subsequent balancing.

Specifications

- Bench-top unit mounted on a structure made of anodized aluminum profiles, with a painted steel panel and with legs.
- All the elements of the MES unit are made of aluminum, stainless steel and treated steel. This unit has:
  - An electrical motor with variable speed which can reach 8300 r.p.m.
  - It has a transmission through pulley and a belt from the motor to the shaft.
- An aluminum external disc, that we will name Graduated disc. It has a diameter of 150 mm. The disc have drills to proceed, through fixing the masses, to the system destabilization and then to its subsequent balancing.
- The unit is completed with a set of sector masses and weights to do the practices. Auxiliary module for the electrical supply and the motor control. At its back, there are connections and at its front part it has a potentiometer to control the speed of the motor.
- Manuals: This unit is supplied with the following manuals: Required services, Assembly and Installation, Starting-up, Safety, Maintenance and Practices Manuals.

Experiment Possibilities

1. Demonstrations and experiments in the balancing of coplanar rotating systems.
2. Balance in a single plane of revolution.
3. Observe the effects on oscillations of various conditions of balance.

Required Services

1. Electrical supply: single-phase, 220V./50Hz

Note: Specifications are subject to change.

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