

VIBRATION TRAINING KIT 3

TWO PLANE BALANCING

Compact rotor kit for test and measurements to support practical training of vibration signals, bearings faults detection and single and two plane balancing job. Rotor kit is based on aluminium plate with rubber dampers.

The drive is provided by a DC motor, and is controlled by a START/STOP button and a potentiometer to change the shaft speed. A display for tracking the current speed and a safety switch are mounted on the housing.

Discs has threaded holes around different diameters for trial and balancing masses. Shaft is based on two main ball bearings.

Flat spot with thread is prepared on top of all bearing's housing for accelerometers. Rotational part has cover made of aluminium frame and transparent barrier to protect operators when rotor runs. Cover is high enough to fit accelerometer with connector under the top of cover. Automatic stop detects cover position and stops the rotor when opening.



FUNCTIONALITY:

- 1 phase power supply
- Quick installation
- Simulation a real industrial machine
- Operational safety (safety stop and cover opening detection)
- Easy for transport
- Low weight and small dimensions
- Spots for accelerometers
- Two plane balancing

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MOTOR

Motor

DC motor operated by a control panel.

Clutch

Clutch transmits the torque from the motor shaft to the rotor with bearings.

Disc

A discs with threaded holes for quick installation masses.

Vibration isolation

Vibration isolation of the base protects against the influence of the generated vibrations on the environment.

ELECTRIC COMPONENTS

Inverter

Power supply and speed control of engine; powering a three-phase motor from a single-phase grid.

Safety switch

Pressing the button stops the rotor and prevents it from being switched on again before release.

Auto stop

Automatic stop when protection cover is not closed.

ADDITIONAL ELEMENTS

Precision balance for weighing masses 0.01g-100g.

Test masses.

SPECIFICATION

Power

100...240V AC / 24V DC, 5A

Power consumption

120 VA max

Speed

140..1400 RPM

Motor

24V DC, 100W

Dimensions (w x d x h)

750 x 250 x 260 mm

Weight

18 kg

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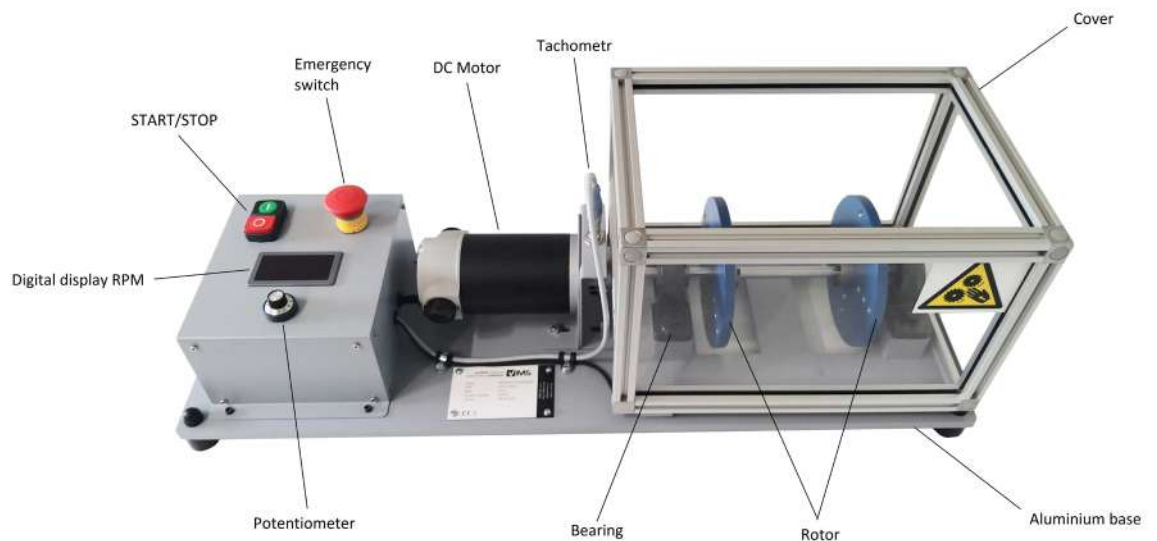
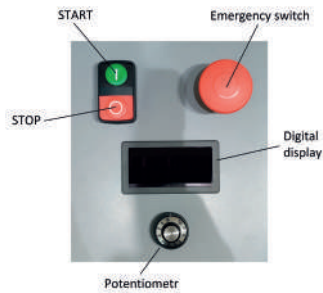
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ADDITIONAL INFORMATION

Number of shafts	1
Shaft diameter	12 mm
Disc assembly (rotor)	2
Number of roller bearings in bearing housings	2
Number of replaceable bearing assemblies	2
Number of vibration sensor mounting points on each bearing housing	1
Unbalance introduction components	Set of weights