

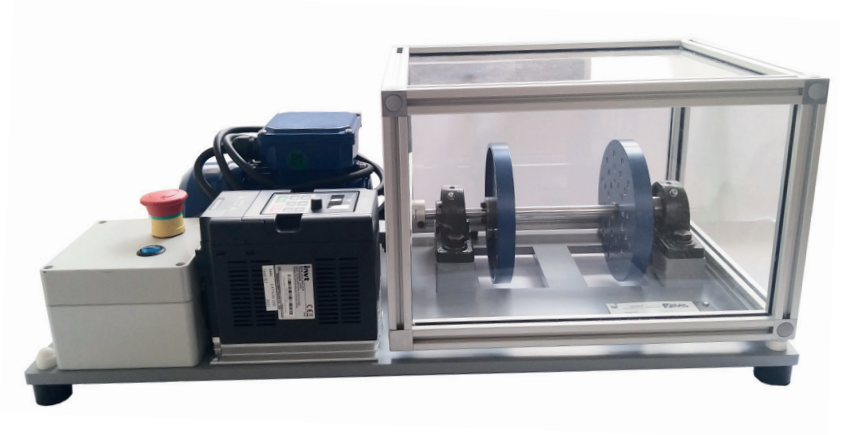
VIBRATION TRAINING KIT 1

SINGLE AND 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 made of low power 3 – phase electric motor and frequency inverter for START, STOP and continuous shaft speed control with safety switch near by. Clutch drives rotor with discs from 0 RPM up to 1370 RPM. 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
- single and two plane balancing

MECHANICS

Motor

Three-phase asynchronous squirrel-cage motor - popular drive in industry.

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

The vibration isolation protects against the influence of the generated vibrations on the environment.

ELECTRIC COMPONENTS

Inverter

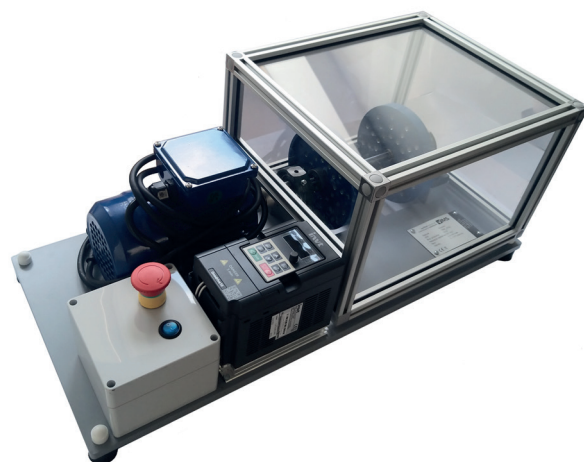
Power supply and speed control of engine; powering a three-phase motor from a single-phase grid.

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.



SPECIFICATION

Power supply

~230 V, 50 Hz

Power

400 VA max

Speed

0..1370 RPM

Motor

3 phase, 0,25 kW

Dimensions (w x d x h)

650 x 300 x 260 mm

Weight

18 kg