

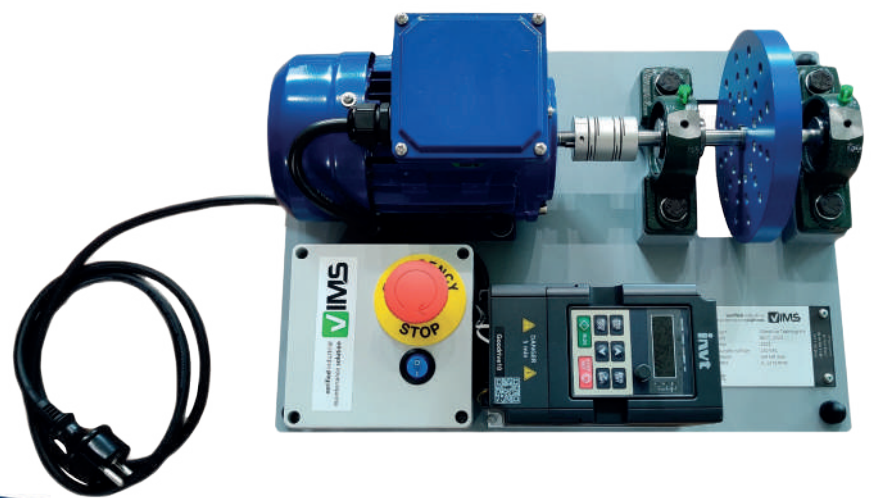
VIBRATION TRAINING KIT 2

SINGLE PLANE BALANCING

Compact rotor kit for test and measurements to support practical training of vibration signals, bearings faults detection and single 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 disc from 0 RPM up to 1485 RPM. The disc 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.



FUNCTIONALITY:

- 1 phase power supply
- Quick installation
- Simulation a real industrial machine
- Easy for transport
- Low weight and small dimensions
- Spots for accelerometers
- Single 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 disc 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 supply

~230 V, 50 Hz

Power

400 VA max

Speed

0..1485 obr/min

Motor

3 phase, 0,25 kW

Dimensions (w x d x h)

420 x 300 x 200 mm

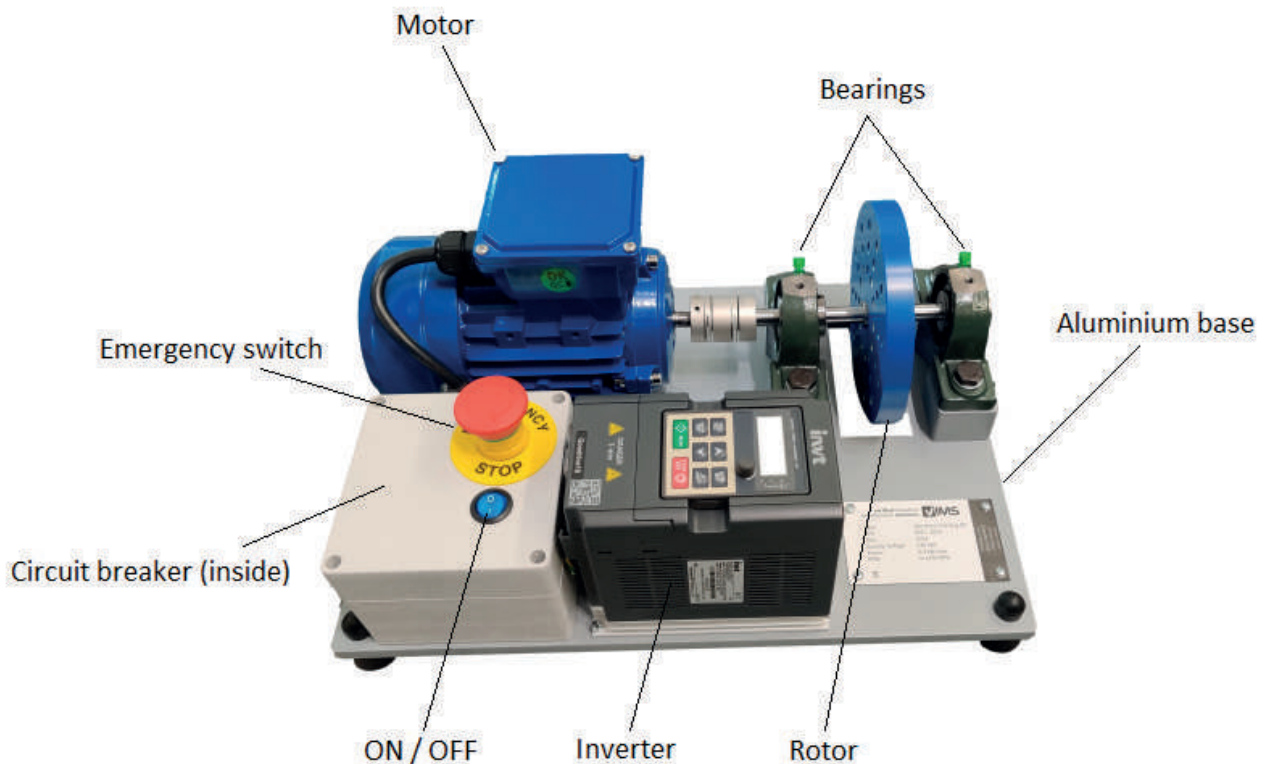
Weight

14 kg

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ADDITIONAL INFORMATION

Number of shafts	1
Shaft diameter	12 mm
Disc assembly (rotor)	1
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

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