Static and Dynamic Balancing Apparatus

* Illustration of fundamental processes of balancing
* Static and dynamic unbalance

**Technical Description**
The main element of the benchtop unit is a smooth shaft to which four variable unbalance weights can be attached at any angle or distance. The rotor is supported horizontally in ball bearings and is driven by a speed-controlled motor. The speed is measured electronically and shown on a digital display. For determination of the unbalance weight by measuring the balance of moments the driving belt can be removed. Using different weights dragging on the pulley defined moments can be exerted to the shaft. They can be compared with those caused by the unbalance weights when rotating. The transparent hood prevents contact with the rotating parts and provides a good view of the rotor. Fastening of the supporting base with elastic elements neutralizes undesirable vibrations.

**Learning Objectives / Experiments**
- Explanation and determination of unbalance
- Investigation of static, dynamic and basic unbalance
- Balancing process

**Scope of Delivery**
1 balancing unit, complete
1 experiment instructions

**Specification**
[1] Benchtop unit for illustrating the fundamentals of static and dynamic balancing
[2] Adjustable speed
[4] Digital speed display
[5] Transparent protective hood
[6] Integrated angle and length gauge
[7] lwxh 420x400x380mm

**Technical Data**
Speed range: 0 ... 1400rpm
Number of unbalance weights: 4
Max. total unbalance: 880cmg

**Dimensions and Weight**
l x w x h : 420 x 400 x 380
Weight : approx. 30 kg

**Connections**
230V , ~50Hz

**Order Details**
040.17000  TM 170  Static and Dynamic Balancing Apparatus

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