Features

- Fundamentals of the equilibrium of moments and application of the law of levers

Tesca Equilibrium of Moments on a Two-arm Lever is used to investigate the fundamentals of the equilibrium of moments based on the example of a two-arm lever. Moments occurring on the lever are to be brought to equilibrium.

A centrally mounted beam represents a two-arm lever. Movable riders are placed on the lever and loads are applied by means of weights. Equilibrium is attained by moving the loads. Distances from the pivot point - the lever arms - can be read from an integrated scale. The calculation of the lever arms is verified in the experiment.

A vertical column carries the lever. A sturdy base plate ensures that the unit stands securely. The well-structured instructional material sets out the fundamentals and provides a step-by-step guide through the experiments.

Specifications

- Investigation of the equilibrium of moments on a two-arm lever
- Ball bearing-mounted beam with integrated scale as a two-arm lever
- 3 sets of weights
- Sturdy metal frame
- Storage system to house the components

Technical Specifications

- Beam
  - LxWxH: 600x30x10mm, centrally ball bearing mounted
  - Lever length: 2x 300mm
- Weight sets
  - 3x 1N (hangers)
  - 6x 5N
  - 12x 1N

Experiments

- Fundamentals of the equilibrium of moments: applied forces, generated moments and equilibrium
  - Action of forces dependent on the lever arm

Scope of Delivery

- 1 experimental unit
- 3 sets of weights
- 1 set of instructional material

Note: Specifications are subject to change.

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