

Moments

Article no: P2120100



Principle

Coplanar forces (weight, spring balance) act on the moments disc on either side of the pivot. In equilibrium, the moments are determined as a function of the magnitude and direction of the forces and of the reference point.

Benefits

- Understand the relation and the difference between moments and force.
- Smart designed equipment that makes measurements clear and easy.

Tasks

1. Determination of the moment as a function of the distance between the origin of the coordinates and the point of action of the force.
2. Determination of the moment as a function of the angle between the force and the position vector to the point of action of the force.
3. Determination of the moment as a function of the force.

Learning objectives

- Moments
- Coupling
- Equilibrium
- Statics
- Lever
- Coplanar forces

Scope of delivery

Moments disk	02270-00	1
Spring balance,transparent, 1 N	03065-02	2
Tripod base PHYWE	02002-55	2
Barrel base expert	02004-00	1
Support rod, stainless steel, different lengths	02032-00	2
Right angle clamp expert with fulcrum screw	02054-00	1
Bosshead, turnable	02048-04	1
Bolt with pin	02052-00	1
Weight holder, 10 g	02204-01	1
Slotted weight, silver bronze, 10 g	02205-03	4
Slotted weight, silver bronze, 50 g	02206-03	1
Fish line, l. 100m	02090-00	1
Ruler, plastic, 200 mm	09937-01	1
Universal clamp	37715-01	1