

Centrifugal force 1.3.16-01



What you can learn about ...

- Centripetal force
- Rotary motion
- Angular velocity
- Apparent force

Principle:

A body with variable mass moves on a circular path with adjustable radius and variable angular velocity. The centrifugal force of the body will be measured as a function of these parameters.

Tasks:

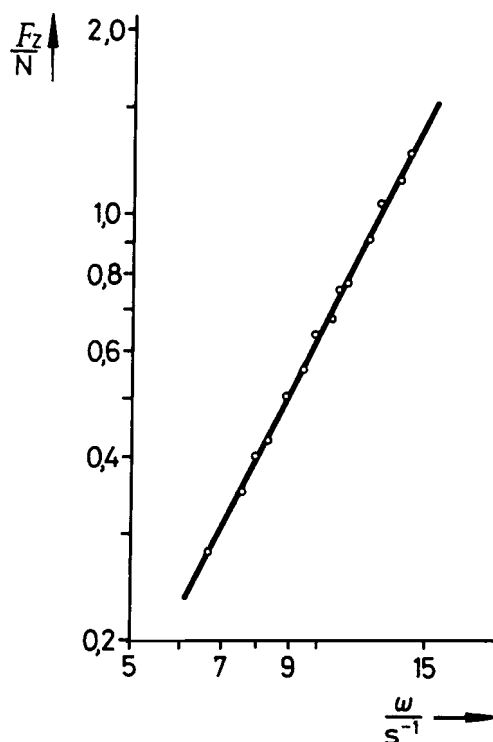
Determination of the centrifugal force as a function

1. of the mass,
2. of the angular velocity,
3. of the distance from the axis of rotation to the centre of gravity of the car.

What you need:

Centrifugal force apparatus	11008.00	1
Car	11060.00	1
Holding pin	03949.00	1
Laboratory motor, 220 V AC	11030.93	1
Gearing 30/1, for 11030.93	11029.00	1
Bearing unit	02845.00	1
Driving belt	03981.00	1
Support rod w. hole, 100 mm	02036.01	1
Barrel base	02006.55	1
Spring balance holder	03065.20	1
Support rod -PASS-, square, $l = 250$ mm	02025.55	1
Bosshead	02043.00	2
Bench clamp, -PASS-	02010.00	2
Fish line, $l = 100$ m	02090.00	1
Spring balance, transparent, 2 N	03065.03	1
Slotted weight, 10 g, black	02205.01	4
Slotted weight, 50 g, black	02206.01	2
Light barrier with Counter	11207.30	1
Power supply 5 V DC/0, 3 A	11076.99	1
Connecting cord, $l = 750$ mm, red	07362.01	1
Connecting cord, $l = 750$ mm, blue	07362.04	1

Complete Equipment Set, Manual on CD-ROM included
Centrifugal force P2131601



Centrifugal force as a function of the angular velocity ω .