

Rotating System on Air Bed (230 V, 50 / 60 Hz)

Order code: **5401.1000782**



Cena bez DPH

1.326,00 Eur

Price with VAT

1.604,46 Eur

Parameters

Quantitative unit

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Apparatus for investigating frictionless rotation. A small rotating disc with a protractor scale supports a cross bar to which weights can be attached. The disc is supported by a bed of air in which its axis is centred. A driving weight is suspended from a hook at the end of a string that is passed over a single pulley on one side and a multiple pulley on the other.

The rotation is very slow and can be measured using a stopwatch by hand. Alternatively, a digital timer may be used. This can be started by a mechanism that is supplied with the kit and halted by a signal from a laser reflection sensor when the wheel passes through angle zero.

- **Protractor scale:** 0 – 360°
- **Scale divisions:** 1°
- **Length of cross bar:** ca. 440 mm
- **Radii of perforations:** 30 – 210 mm
- **Separation of perforations:** 20 mm
- **Radii of multiple pulley:** 5,0 mm / 10,0 mm / 15,0 mm
- **Moment of inertia of disc with cross bar:** 0,16 g m² approx.
- **Maximum moment of inertia:** 7,1 g m² approx.

- **Minimum driving torque:** 0,05 mN m approx.
- **Maximum driving torque:** 0,60 mN m approx.

Contents:

- 1 Air bed
- 1 Rotating disc with cross bar
- 1 Multiple pulley
- 1 Release mechanism
- 2 S-shaped hooks 1,00g
- 1 S-shaped hook 2,00 g
- 1 Set of weights (2 × 12,5 g, 2 × 25 g, 2 × 50 g)
- 1 Compressor for connection to mains
- 1 Silicon tubing with by-pass valve (not illustrated)
- 1 Pulley
- 1 Stand rod with 3 securing screws and 2 screws for levelling
- 1 Stand rod with 2 securing screws
- 1 Stand rod, 250 mm
- 1 Levelling disc
- 1 Roll of cotton thread