



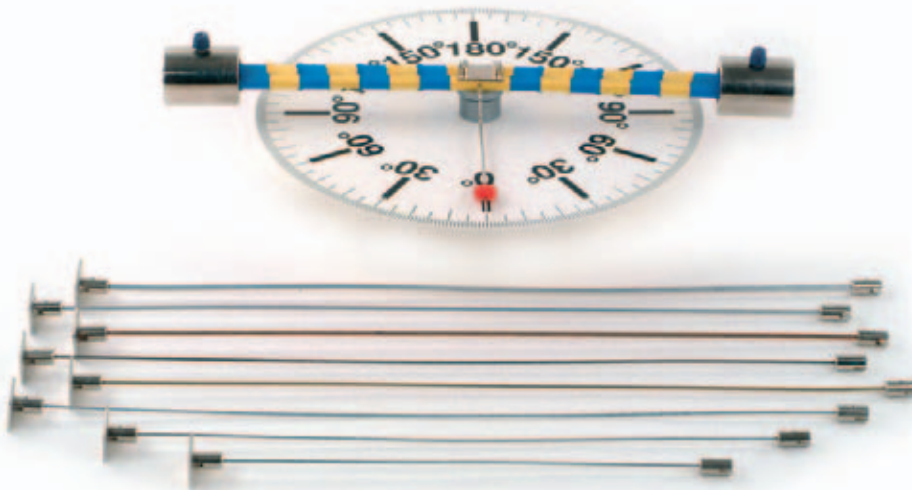
material property

DM131-1T Torsion apparatus, set

For explaining the concept of "torque" with reference to torsion and for demonstrating static and dynamic torque; apparatus set consisting of:

Disk with scale, pivotally mounted lever rod with pointer, 2 additional weights, 8 torsion rods of various lengths and diameters: 1x copper, 1x brass, 1x steel, 2x500 mm each

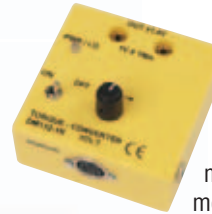
5x aluminium: 2x500 mm, 3x500 mm, 4x500 mm, 2x300 mm and 2x400 mm
Scale D=300 mm; lever L=420 mm



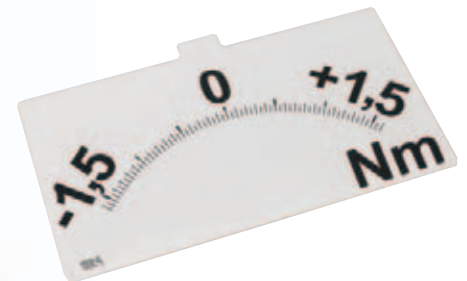
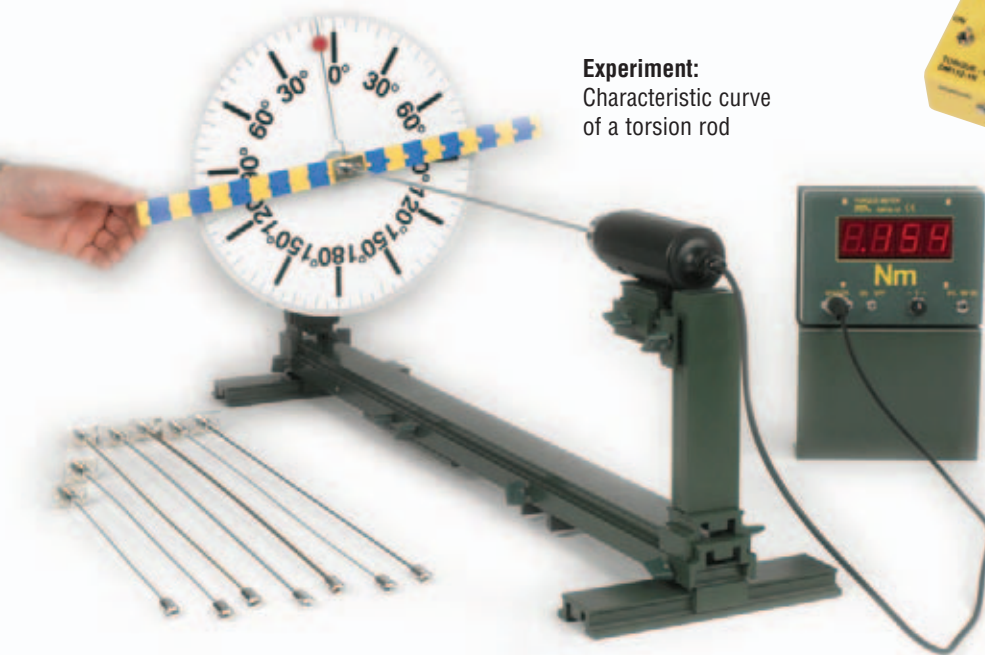
DM132-1K Torque converter

Converter module, with a magnetic base, for measuring torque; input signal is provided by torque sensor DM725-1S;

measured values are displayed on any meter with a range of +/- 1.5 volts DC



Experiment:
Characteristic curve
of a torsion rod



DM132-1S Torque scale

Metal scale for "inno" universal multimeter DE710-00 when displaying torque values in the range of +/- 1.45 Nm

(use of the scale see page 166)

See page 79 for addition torque measuring devices.

DW137-1T Torsion meter "handy"

Microprocessor-controlled handheld torsion meter; with sturdy external sensor with chuck for clamping in rods of up to 13 mm in diameter; LC display, H=15 mm, "data hold" function, "peak hold" function, maximum-minimum storage, "fast-slow" switch for setting response time, RS 232 interface, accuracy +/- 2 % for the entire measuring range, automatic shutdown

Measuring range: 147.1/0.1 N/cm, 15/0.01 kg/cm, 12.99/0.01 LB-inch

Power supply: 9V battery

Sensor dimensions: 48x160 mm, 600 g

Instrument dimensions: 180x72x32 mm; weight: 230 g



DM725-1S Torque sensor

Highly durable torque sensor; includes a chuck for accommodating rods and bolts up to 13 mm in diameter; metal case with an NTL rail profile; may be connected to "handy" torsion apparatus DM137-1T, "inno" torque meter DM725-1D and torque converter DM132-1K





DM851-1T Particle motion, apparatus set

For experiments with models on the topic of "states and behaviour of matter"; apparatus set consisting of:

DS403-2X Cam adapter

Detailed description s. page 12

DS102-4P Impact plate

Metal plate with M6 tapping at centre, may be screwed onto the cam adapter when used as a plate for absorbing the impact of the balls used in the particle motion model

Dimensions: 84x52x1.5 mm

DM851-1Z Tube accessory on saddle, rectangular

For experiments with models on the topic of "states and behaviour of matter"; acrylic tube mounted on sliding saddle, bolted opening on the side for inserting and removing contents, two grooves on the side for adjusting the ceiling and locking it into place in any position

Dimensions (inside): 90x60x400 mm

DM851-1Y Ceiling

For experiments with the particle motion model DM851-1T; low-weight plastic lid, fits into particle motion tube DM851-1Z

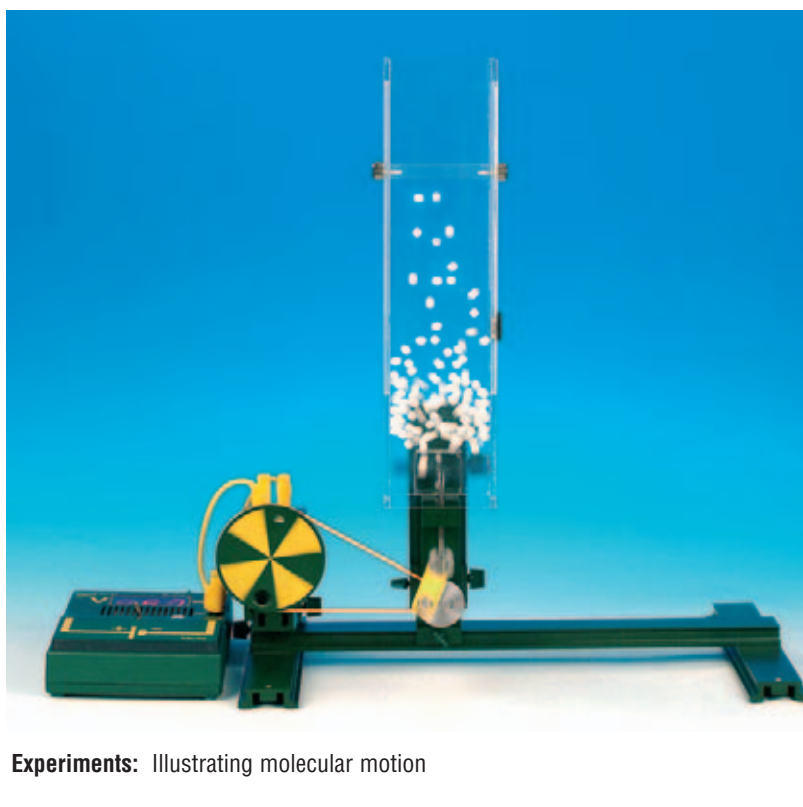
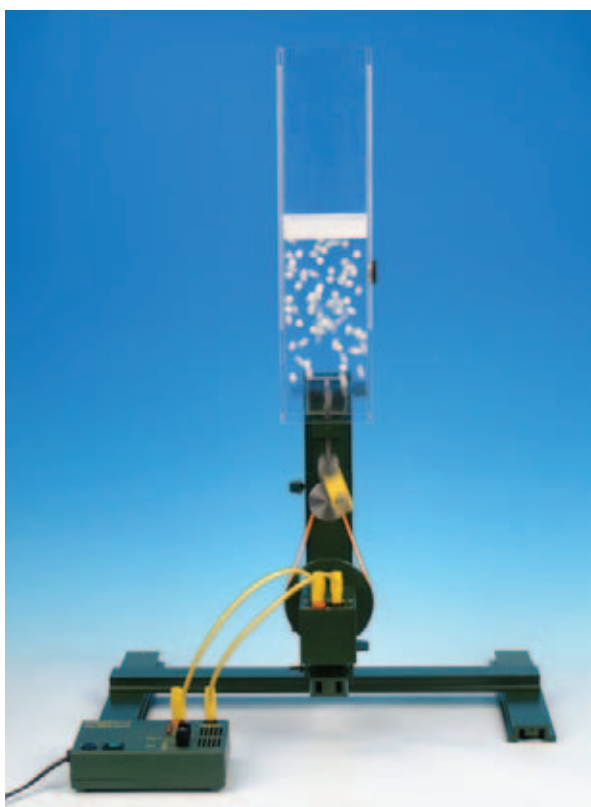
Dimensions: 88x56x20 mm

DM851-KW Set of balls, white

Plastic balls for the apparatus set demonstrating particle motion; 100 white balls 8 mm in diameter, in a box

DM851-KR Set of balls, red

Plastic balls for the apparatus set demonstrating particle motion; 100 red balls 8 mm in diameter, in a box



Experiments: Illustrating molecular motion