Instruction sheet
09/15 ALF

1. Description
The set of three cylinders, equal in volume, is used for determining the densities of different solid bodies. The set consists of one cylinder each of aluminium, iron and brass. As they are of identical volume, the difference between the densities is immediately obvious to the student. Each cylinder is equipped with a hook.

2. Technical data
Materials: Aluminium, iron, brass
Dimensions of cylinders: 40 x 20 mm² dia. approx.

3. Sample experiment
Determination of the densities of solid bodies
To determine the density the following equipment is also required:

- 1 Electronic scales 600 g
- 1 Beaker from

- Place a cylinder on the scale and record the weight.
- Fill the glass beaker with water.
- Suspend the cylinder from the hook of the scale.
- Immerse the cylinder completely in the water and again record the weight.
- Note the difference in weight, and from that calculate the volume of the cylinder.
- Calculate the density of the cylinder using the equation \( \rho = \frac{m}{V} \).
- Repeat the measurements with the other cylinders and compare the results.