

FALLING BALL VISCOMETER



Experimental capabilities

- **Determination of the kinematic and dynamic viscosity of translucent liquids**
- **Study of the influence of parameters on the fall speed of a ball:**
 - **Viscosity of the liquid**
 - **Liquid density**
 - **Ball diameter**
 - **Ball density**

Technical specifications

The PBV 001 trainer allows the study of a falling ball viscometer. The bench comes assembled with several sets of balls of different diameters and materials.

The bench consists of the following elements:

- two drop tubes made of translucent plastic material measuring 1 meter high for an internal diameter of about 110 mm with top cover and drop centerer for the balls
- two ball recovery pot in the lower part
- a backlight that allows to better visualize the fall of the ball
- a set of balls of different materials (brass, aluminum, poly acetal) and different diameters (6 to 12mm) stored in a box
- a digital chronometer
- an aluminum profile structure on 4 directional castors with brake.

The robust design of this equipment makes it perfectly suited for use in schools.

Its anodized aluminum structure gives it a very high robustness as well as a great flexibility of integration in your premises. The manufacture of this equipment complies with the European Machinery Directive.

Services required

- Power supply: 230 VAC – 50 Hz – 20 A
- Type of power supply: 1 phase + Neutral + Earth
- Dimensions: (LxWxH mm): 460 x 390 x 1880
- weight (Kg): 40

Note : if the equipment installation is operated by our staff, all supplies and exhaust connections required must stand at less than 2m from the machine

Documentation

- User's manual
- Pedagogical manual
- Technical documentation of the components
- Lab exercises
- Certificate of conformity CE