

## STUDY OF THE TRAJECTORY OF A JET THROUGH AN ORIFICE



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### Experimental capabilities

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- **Tracing the trajectory of a jet of water with different output speeds**
- **Study of the influence of the reservoir on the output speed**
- **Study of the flow through an orifice**
- **Influence of the upstream pressure**

## Operating principle

The bench is delivered complete, assembled, the necessary instrumentation for carrying out the tests.

The bench is composed of a transparent cylinder with an orifice in the low part

The trajectory of the jet can be measured by adjustable tracers

Two orifices are provided.

Supply by bench UTL 015 or UTL 050

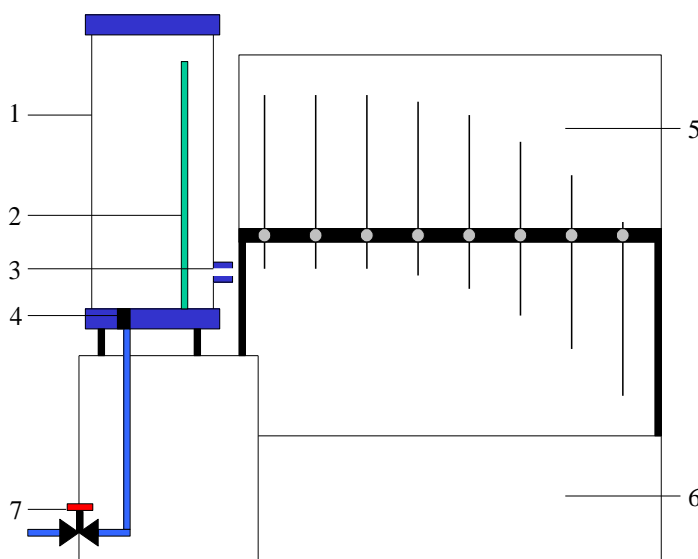
The robust design of this device makes it suitable for use in schools.

The equipment is set up on an Anodized aluminium frame on casters wheels. This gives it great strength and a flexibility of integration into your premises.

The manufacture of this equipment complies with the European standard for machinery manufacturing.

## Illustrations

## Technical details



### 1-Transparent cylinder

Diameter 200mm, height 450mm  
Volume 14 liters

### 2-Vent pipe of the cylinder

### 3-Test orifice

Orifice N°1 : diameter 4mm  
Orifice N°2 : diameter 8mm

### 4-Filling orifice

Filling of the test cylinder

### 5-Panel of jet profile

Comparison of different profiles by plot on the panel  
Adjustment of the rods for plot of the profile

### 6-Receiving tank of water

### 7-Filling valve

## Services required

## Documentation

- Water supply: 3 L/min - 3 bar (network)
- Or supply by bench UTL 015 or UTL 050 in option (not included)
- Dimensions: (LxWxH mm): 800 x 600 x 900
- weight (Kg): 35

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

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

## Options

- Supply unit
- Supply unit

- Ref : UTL015
- Ref: UTL050