



Email : [sales@scilabexport.com](mailto:sales@scilabexport.com)

Phone: +91-7082934803

**Product Name :**

Newton's Tube

**Product Code :**

SCL1223/010



**Website:** <https://scilabexport.com>, **Email:** [sales@scilabexport.com](mailto:sales@scilabexport.com)

1226/1-5, Bengali Mohalla, Science Market | 133001, Haryana



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## Description :

**Newton's Tube** (Product Code: SCL1223/010) is a long, sealed glass tube used to show that light and heavy bodies fall together once air resistance is removed, in school and college physics demonstrations. At least 1,500 mm long, it holds a wedge, a piece of sponge and a 5 mm metal ball, and its lid carries a tap and an air-outlet connection for a vacuum pump. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India, as mechanics lab equipment.

## Specifications

| Parameter         | Detail                                                                                      |
|-------------------|---------------------------------------------------------------------------------------------|
| Tube              | Transparent glass                                                                           |
| Diameter          | 30–100 mm                                                                                   |
| Length            | Minimum 1,500 mm                                                                            |
| Ends              | One end closed; the other end with a sealed lid carrying a tap and an air-outlet connection |
| Objects inside    | A wedge, a piece of sponge and a metal ball of 5 mm external diameter                       |
| Product code      | SCL1223/010                                                                                 |
| Manufacturer      | Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM                                       |
| Country of origin | India (made in Ambala, Haryana)                                                             |

## What Is the Newton's Tube Used For?

The demonstration runs in two stages. First, with the tube full of air, the teacher closes the tap, holds the tube upright and turns it over smoothly: the metal ball drops quickly while the sponge drifts down slowly, just as everyday experience suggests. Next, the air outlet is connected to a vacuum pump, the air is drawn out and the tap is closed before the tube is inverted again. This time the objects fall side by side, showing that without air resistance all bodies fall with the same acceleration.

Letting a little air back in and repeating shows the effect of air resistance returning step by step, which makes a strong closing question for the class. An evacuated glass tube must be handled with care: turn it in a controlled way, never knock it against the bench, keep students at a safe distance and wear eye protection while it is under vacuum. Wipe the glass clean before class so the falling objects are easy to see from the back of the room.

## What to Specify When Ordering

- The tube diameter you need within the 30–100 mm range (the length is a minimum of 1,500 mm).
- Whether a vacuum pump and vacuum tubing should be quoted with the tube, as no pump is listed with it.
- The number of tubes planned.

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