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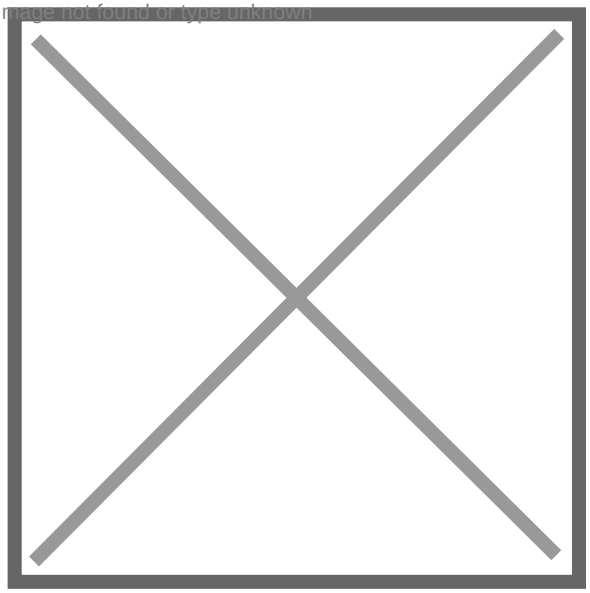
Product Name :

Vernier Calliper

Product Code :

SCL202/01

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Description :

Vernier Calliper (Product Code: SCL202/01) is a stainless-steel sliding measuring instrument used to measure the length and diameter of small objects more precisely than a ruler in school and college physics practicals. This IME-type calliper is 15 cm long, has a listed least count of 0.01 mm and a thumb movement that slides the jaws smoothly. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, for schools sourcing a Vernier caliper in India for class sets.

Specifications

Parameter	Detail
Type	IME type
Length	15 cm
Least count (as listed)	0.01 mm
Material	Stainless steel
Jaw movement	Thumb movement for easy motion of the jaws
Measuring principle	Vernier scale: mechanical interpolation between two graduationsof the main scale
Product code	SCL202/01
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Vernier Calliper Used For?

A vernier calliper lets students read a measurement that falls between two graduation marks on the main scale. The sliding vernier scale performs a mechanical interpolation, which increases resolution and reduces the guesswork of estimating by eye – the student simply looks for the vernier line that lines up most closely with a main-scale line. It is a routine item of physics practical equipment for CBSE and state-board laboratories, used to find the diameter of a small sphere or cylinder and the dimensions of a regular block, and from these its volume.

Before measuring, close the jaws and check whether the vernier zero sits exactly on the main-scale zero; note any zero error with its sign. Grip the object gently between the jaws using the thumb movement, read the main scale just before the vernier zero, add the coinciding vernier division multiplied by the least count, and correct for zero error. Repeat at different positions and average the readings.

What to Specify When Ordering

- The number of callipers – usually one per student pair or practical group.
- Confirm that a 15 cm length and the listed 0.01 mm least count match your practical syllabus.
- Whether screw gauges, spheres or blocks for the same experiments should be quoted with them.

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