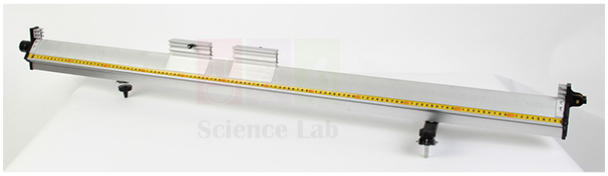
Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Linear Air Track

Product Code :

SLE/PHY/120



Email : sales@scilabexport.com
Phone: +91-7082934803

Description :

Linear Air Track (Product Code: SLE/PHY/120) is a compact (mini) air track used to study dynamics in a virtually friction-free environment in school and college mechanics laboratories. Gliders ride on a cushion of air along a high-strength 56 x 56 mm extruded aluminium track,which makes collisions and the conservation of momentum especially clear to students. It ismade by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its ownfactory in Ambala, India, as cost-effective mechanics lab equipment.

Specifications

Parameter	Detail
Design	Mini linear air track for dynamics experiments in a virtually friction-free environment
Track profile	High-strength 56 x 56 mm extruded aluminium
Track length	1.2 m in the technical specification; the description also quotes 1.5 m overall — please confirm when ordering
Gliders	Accept standard slotted masses for additional loads
Accessory pack	Vehicles with mass attachments, catapults and buffers
Air source	Required to operate the track; Laboratory Air Blower not included
Speed measurement	Requires standard light gates and timers; can also be used with light gates and a Wi-Fi module
Experiments covered	Velocity; force and acceleration; potential and kinetic energy; conservation of energy; SHM; motion on level and inclined planes
Product code	SLE/PHY/120
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Linear Air Track Used For?

With the air supply running, the gliders float with almost no friction, so students can measure velocity, test force and acceleration, and follow the exchange between potential and kinetic energy without friction hiding the result. Launching one glider into another with the catapults and buffers turns momentum conservation from a formula into something they can watch and time.

The same set-up covers simple harmonic motion and motion on level and inclined planes, and the gliders take standard slotted masses when a heavier load is needed. For reliable timing, pair the track with light gates and a timer, level the track carefully before each run, and keep the air holes free of dust. It suits both teacher demonstrations and force and motion practicals run by student groups.

What to Specify When Ordering

- 5 m