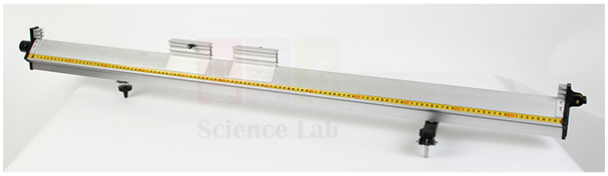
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**Product Name :**

Linear Air Track

**Product Code :**

SLE/PHY/120



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## 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

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