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## Linear Air Track with Accessories

### Economical

0201010010-0201010050



Linear Air Track is a simple and economical apparatus with all functionalities designed to provide a cost-effective way of studying all aspects of dynamics in a virtually friction-free environment. This Linear Air Track with all functionalities for exploring for the concepts of mechanics involving velocity, force and acceleration, momentum, potential energy, collisions (elastic /inelastic), conservation of energy, kinetic energy, simple harmonic motion, motion on level and inclined planes. The Air Track is made from high strength extruded aluminium and the rail has one row or two rows of fine holes on each side all along the length of the track. The Linear Air Track also has a scale graduated in millimeters for measuring distances and recording positions. It is supplied with a comprehensive accessories. Linear Air Track System requires an air source and a digital timer. An air source and a measurement are required to build a Linear Air Track System, which can be provided by our Air Blower and digital timer.

## **Linear Air Track with Accessories Economical Experiments**

- 1.To study the linear motion under virtually friction-free environment.
- 2.To study the concept of velocity.
- 3.To study the concept of accelerations
- 4.To study the acceleration of gravity
- 5.To study the elastic and inelastic collision.
- 6.To study the conservation of momentum and energy.
- 7.To study the dependency of mass ratio to kinetic energy.
- 8.To study the simple harmonic motion.

## **Linear Air Track with Accessories Economical**

### **Main Technical Parameters**

<u>Linear Air Track with Accessories Economical</u>	Specification
SKU	<u>0201010010-0201010050</u>
Track Length	1000mm,1200m,1500m,1800m,2000m
Cross Section	90°apex isosceles triangle with stiffening bar underneath
Roughness of the rail	Ra3.2
Air holes	1row or 2 rows on each side, 0.9 mm dia.
Straightness	≤0.10mm in full length
Support	Crossfoot and adjustable foot
End Stops	Launcher and end pulley
Gas source	≥5.8kPa

\*Products and configuration list described herein are subject to changes without notice.