

IV-E679 Linear Air Track Experiment

Experiment:

- To study the linear motion under virtually frictionless conditions.
- To study the elastic and inelastic collision.
- To study the concept of velocity.
- To study the concept of accelerations.
- To study the conservation of momentum & energy.
- To study the dependency of mass ratio to kinetic energy.

About Linear Air Track

- Square section aluminium alloy track, length 1.5 m, with staggered holes, supported on two light alloy castings.
- One support has a two point contact and other one point contact for lateral and horizontal adjustments by means of a knurled screw.
- Identical end caps enable air to be introduced from either end of the track keeping the other end closed.

Linear Air Track Accessories Consisting of:

- 2 Large vehicles (mass 400 gm, length 215 mm)
- 1 Small vehicle (mass 200 gm, length 100 mm)
- 2 Magnetic buffers (25 mm dia.)
- 2 Plasticine Holders (20 mm dia. with central hole)
- 4 Catapults (45 mm wide) with slots for elastic band
- 1 Reel of nylon thread
- 2 White rods (4 mm diameter 150 mm long)
- 24 Needles
- 20 White plain cards
- 1 Reel rubber strand
- 1 Pack of plasticine
- 20 Elastic bands
- 1 Instruction manual

