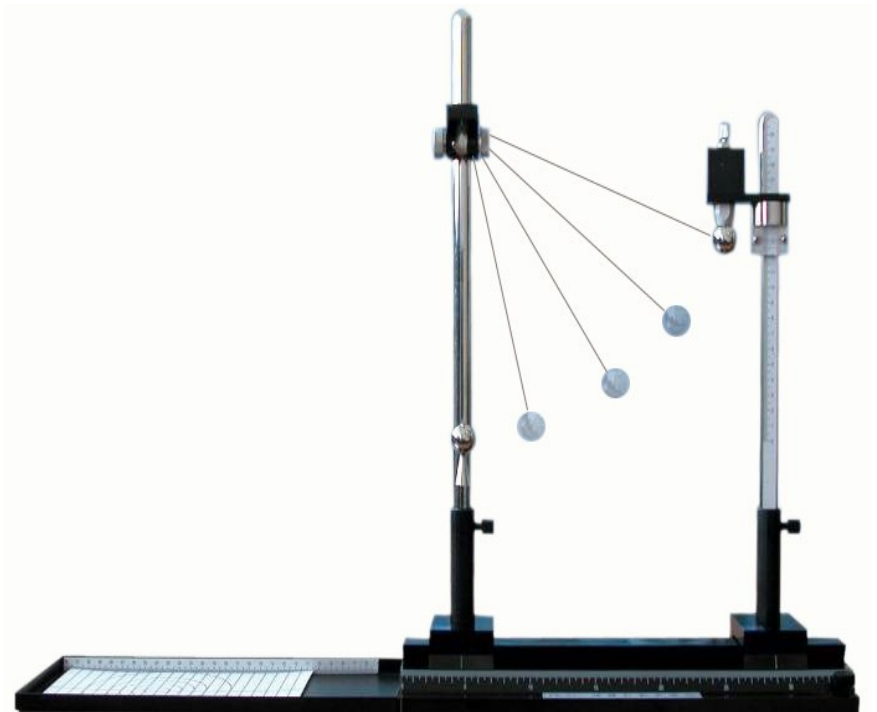


LEMI-25 Apparatus of Pendulum and Projectile

- *Clear physics phenomenon*
- *Stable and reliable*
- *Affordable*



Collision between objects are ubiquitous in nature. A simple pendulum motion and a horizontal projectile motion are the basic contents of kinematics. Conservations of energy and momentum are important concepts in mechanics. This pendulum and projectile experimental apparatus studies the collision of two objects, as well as the simple pendulum motion before collision and the projectile motion after collision.

This instrument is designed to provide the following benefits:

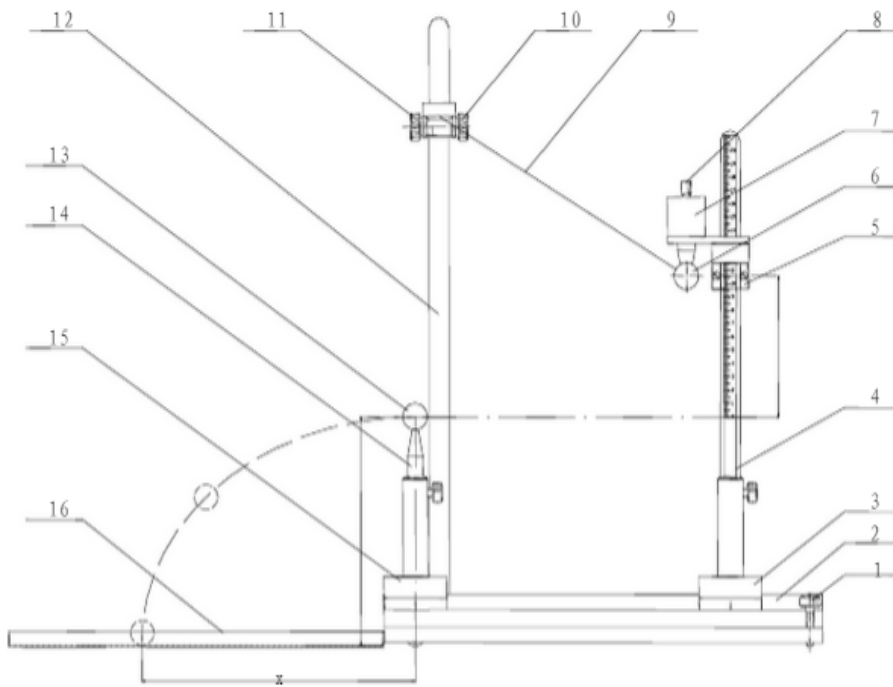
1. A rail made from aluminum alloy is used to eliminate parallax errors of components
2. A rod for supporting steel ball has conical flat top surface to reduce the friction impact after collision
3. Well position control and adjustment of components ensure repeatable experimental results.

Experimental Contents

1. Observe movement status of swing ball in air, observe the motion of two balls of same mass before and after the collision, and measure energy loss of the two balls due to collision.
2. Observe the motion of two balls of different mass before and after the collision, and measure energy loss of the two balls due to collision.

Specifications and Parts

Description	Specifications
Height adjustable post	Range: 0 ~ 200 cm
Swing ball	Steel, diameter: 20 mm
Target ball	Diameter: 20 mm and 18 mm, respectively
Guide rail	Length: 35 cm
Ball bearing post rod	Diameter: 4 mm
Simple pendulum support post	Length: 45 cm, adjustable
Target ball box	Length: 30 cm; width: 12 cm



1. Leveling screw
2. Rail
3. Slider
4. Post
5. Scale
6. Swing ball
7. Electromagnet
8. Magnet screw
9. String
10. Locking screw
11. Adjust screw
12. Post
13. Target ball
14. Ball support
15. Slider
16. Target ball box

Schematic of system

Note: above product information is subject to change without notice.