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**Product Name :**

Mass, Cast Alloy, 1000g

**Product Code :**

SLE/LB/34



## Description :

The Mass, Cast Alloy, 1000g supplies one kilogram of load as nine 100 g slotted masses and a 100 g hanger, all in cast alloy. Loads rise in equal steps from 100 g with the hanger alone to 1000 g, and the small format pieces move easily between a trolley and the hanger in dynamics work.

## Cast alloy 1000 g mass set specifications

| Parameter | Detail |
|---|---|
| Type | Small format cast alloy mass and hanger set |
| Material | Cast alloy |
| Total mass | 1000g |
| Contents | 9 x 100g slotted masses, 1 x 100g hanger |
| Product code | SLE/LB/34 |
| Minimum order | 10 units |
| Dispatch | Usually within 7 to 10 working days |
| Manufacturer | ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India |

## Dynamics and beam practicals with the cast alloy set

Force and acceleration at constant mass. Load a plastic dynamics trolley with eight of the masses and hang the hanger plus one mass from a cord over a ball bearing bench pulley. Release it, find the acceleration, then move one mass at a time from trolley to hanger. The pulling force rises while the total mass stays fixed.

Beam reactions. Support the beam of the moments kit from two spring balances and hang the cast alloy hanger at a measured point along it. Add 100 g masses one by one and check that the two support readings always add up to the weight of beam and load.

## Frequently Asked Questions About the Mass, Cast Alloy, 1000g

### Why move masses from the trolley to the hanger instead of adding new ones?

Newton's second law relates force to the whole mass being accelerated, and that includes the hanger as well as the trolley. Transferring pieces raises the pulling force while the total mass stays the same, so acceleration against force gives a straight line.

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