Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Hero Engine

Product Code :

SLE/PHY/189



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Phone: +91-7082934803

Description :

Hero Engine (Product Code: SLE/PHY/189) is a glass model of the steam engine invented by Hero of Alexandria in about 60 AD, used to demonstrate energy transformation and Newton'sthird law in physics lessons. Heated by a Bunsen burner (not supplied), it spins as steam jets outof its nozzles, working in a similar way to a rocket engine. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Type	Glass model of Hero's steam engine
Original design	Hero of Alexandria, about 60 AD
Heat source	Bunsen burner (not supplied)
Principle	Steam jets from the nozzles create a turning force about the longaxis of the glassware (Newton's third law)
Demonstrates	Thermal energy to kinetic energy; aspects of Newton's laws of motion; rocket-style propulsion
Product code	SLE/PHY/189
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Hero Engine Used For?

Heat from the burner turns the water inside the glass vessel into steam, which escapes through the nozzles as fast jets. Those jets carry momentum, and by Newton's third law — action and reaction are equal and opposite — they push the nozzles backwards, producing a turning movement that makes the whole glass apparatus rotate. The model is one of the earliest machines to turn thermal energy into kinetic energy.

As a demonstration model for the physics lab, it links ancient engineering to modern rockets and jet propulsion. Heat it gently, never let it boil dry, keep students clear of the steam jets, wear eye protection, and allow the glass to cool fully before handling or refilling.

What to Specify When Ordering

- Whether a Bunsen burner and gas tubing should be quoted, since the burner is not supplied.
- Number of Hero engines, for a teacher demonstration or several groups.
- Any safety goggles needed for students watching the demonstration.

OEM Manufacturer

The glass Hero engine is produced by Jain Scientific Equipments Private Limited, which trades as Scien
Amba
mark

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