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

**Product Name :**

Ring Thrower

**Product Code :**

SLE/EM/09



# Description :

**Ring Thrower** (Product Code: SLE/EM/09) is a teacher-operated demonstration of electromagnetic induction that ends with an aluminium ring shooting up to 12 ft into the air. The ring rests over a coil of wire wound on an iron core. When the coil is energised with alternating current, its changing magnetic field induces an electromotive force (EMF) in the ring; the resulting current sets up an opposing magnetic field, and the repulsion propels the ring upward — Faraday's law and Lenz's law in a single, visible event. Manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, it is an electromagnetic induction kit, part of its physics lab equipment in India, that needs no assembly: it is ready to use as soon as it is plugged into a wall socket.

## Specifications

| Parameter | Detail |
|---|---|
| Demonstrates | Electromagnetic induction, Faraday's law, Lenz's law and eddy-current repulsion |
| Construction | Coil of wire wound on an iron core; aluminium ring placed over the core |
| Ring flight height | Up to 12 ft |
| Operation | Coil energised with alternating current; ready to use after plugging into a wall socket |
| Listed power rating | 115-V AC, 60 Hz |

## Typical Use

The ring thrower is usually introduced after students have met induction with a magnet and coil, because it turns an abstract rule into something they can watch and hear. With the ring on the core, a short burst of current launches it; the teacher can then ask why an aluminium ring, which is not attracted to a magnet, is pushed away so strongly. Holding the ring down on the core for a moment and then letting go shows that the induced current also warms the metal, a direct link to eddy-current heating. Discussing why a ring with a gap cut in it would not fly helps students see that a closed conducting loop is needed for the induced current to flow.

Keep faces and hands clear of the space above the core, check that nothing overhead is in the ring's path, and energise the coil only in brief bursts so it does not overheat. The unit belongs with the physics lab equipment India's senior secondary and undergraduate teachers use for electromagnetic induction, transformers and AC topics.

## Manufacturer

The Ring Thrower is made under the ScienceLab brand by Jain Scientific Equipments Private Limited, an Ambala, Haryana manufacturer of physics and general science teaching apparatus. Learn more on our company profile page.

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