Email : sales@scilabexport.com
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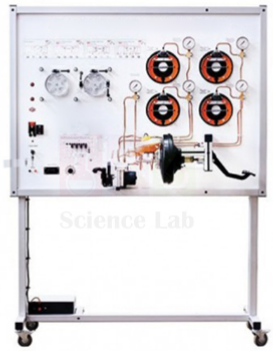
**Product Name :**

ABS Braking System Training Board Simulator

**Product Code :**

SLE/MCE/60



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## Description :

This training board teaches the layout and working of an anti-lock braking system in automotive workshops and engineering classrooms. ITI, diploma and degree instructors use it to show how ABS keeps the wheels from locking under hardbraking, so the driver can still steer. Configurations vary, and the current specificationsheet is supplied on request.

## ABS training board details

| Parameter | Detail |
|---|---|
| Product type | Training board simulator |
| System covered | ABS (anti-lock braking system) |
| Intended use | Teaching and demonstration in automotive training |
| Courses | ITI, diploma and degree automotive courses |
| Technical specification | Dimensions, power supply and fitted components given with the current specification sheet |
| Product code | SLE/MCE/60 |
| Minimum order | 10 units |
| Dispatch | Usually within 7 to 10 working days |
| Manufacturer | ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India |

## Teaching anti-lock braking step by step

From plain hydraulics to ABS. Begin on the working model of a hydraulic braking system to show the master cylinder, lines and wheel brakes. Then move to the ABS board and ask what anti-lock braking adds: a speed sensor at each wheel, an electronic control unit and a hydraulic modulator between master cylinder and wheels.

The control cycle. Walk through what happens when one wheel starts to lock. The control unit sees its speed falling too fast, the modulator holds pressure to that wheel, releases it, and builds it again as the wheel picks up. Students sketch wheel speed and brake pressure against time for one cycle.

Sensor checks. Where the board's specification includes wheel speed sensors, practise the workshop tests: coil resistance of a passive sensor with a digital multimeter, then its output on an oscilloscope dual trace as the tone ring turns. Note how the signal frequency rises with wheel speed.

Heavy vehicles. Close the topic on the trailer air brake training equipment and compare the hydraulic ABS layout with the air-brake circuits used on lorries and traile

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