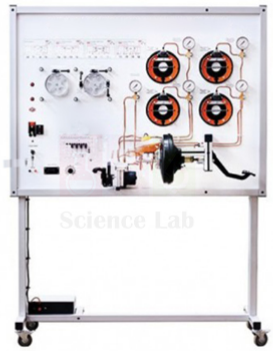
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Product Name :

ABS Braking System Training Board Simulator

Product Code :

SLE/MCE/60



Email : sales@scilabexport.com
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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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