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Product Name :

Working Model Of Hydraulic Braking System

Product Code :

SLE/MCE/68



Science Lab
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Description :

The Working Model Of Hydraulic Braking System demonstrates a complete four-wheel hydraulic brake with disc and drum brakes, built from real automotive components on a metal stand with casters. A pressure gauge at each wheel shows the actual braking pressure, while the brake pedal, power brake booster and parking brake all work as they do on a vehicle.

Hydraulic brake model specifications

Parameter	Detail
System	Fully functional four-wheel hydraulic braking system, disc and drum
Components	Real automotive components: all hydraulic components, brake pedal, power brake booster, parking brake pedal and parking brake components
Parking brake	Fully functional parking brake system
Pressure indication	Hydraulic pressure gauge at each wheel showing actual braking pressure
Access	All brake components within easy reach, without the confines of a real vehicle
Stand	Heavy-duty metal stand with casters
Dimensions	1000 × 800 × 1200 mm
Weight	140 kg (approx.)
Product code	SLE/MCE/68
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Brake system practicals on the open stand

Pressure at every wheel. Press the brake pedal with steady effort and read all four pressure gauges. The readings show that the push at the pedal reaches every brake through the enclosed fluid, the idea students first meet on a Pascal's principle demonstrator. Repeat with a lighter and a firmer push and note how the gauges follow the pedal.

Disc and drum inspection. With the system at rest, students follow the hydraulic line from the pedal to each wheel. They compare how a disc brake clamps its rotor with how a drum brake presses its shoes outward, and note which of the two needs its clearance adjusted as the linings wear.

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