Email : sales@scilabexport.com
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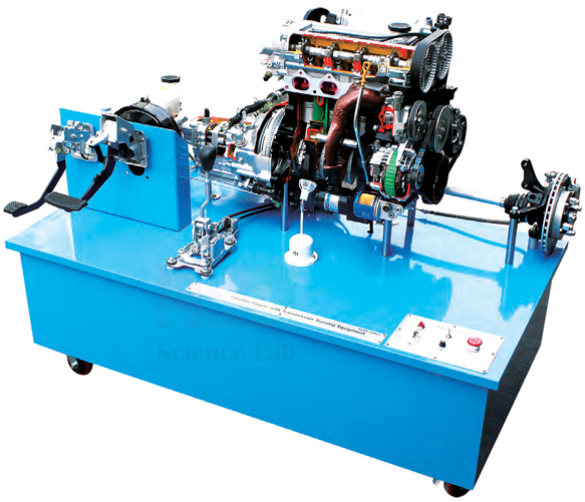
Product Name :

Automotive Power Train Training Equipment
DOHC Gasoline

Product Code :

SLE/ATE/01



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Description :

Built around a DOHC four-cylinder gasoline engine, an educational model of the 1,800~2,000cc class, this sectioned trainer shows the engine, FF manual transmission, clutch, brakes and drive shafts working together. An AC motor turns it slowly, so students change gears as on a real vehicle and watch the colour-codedcut internals move.

DOHC gasoline power train trainer specifications

Parameter	Detail
Engine	DOHC engine assembly, 4 cylinders (educational model for 1,800~2,000cc gasoline engine)
Transmission	FF-type manual, 5 forward and 1 reverse
Other assemblies	Clutch, brake system, drive shaft to the wheels
Drive motor	AC 220 V / 180 W, with engine speed controller
Protection and lighting	Emergency switch, safety fuse, light
Frame and wheels	Steel frame with heat-treatment painting; 4 wheels with brakes
Sectioning	Precisely cut; each section painted a different colour, with brake structure and engine parts painted specifically
Weight and size	Approx. 250 kg; approx. 1,600 × 1,000 × 1,200 mm
Build	Training stand and controls made in Ambala; DOHC engine and transmission are production units
Product code	SLE/ATE/01
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Workshop tasks on the DOHC power train

Following the valve timing. Run the drive motor slowly on the speed controller and trace how the crank drives both camshafts through the timing belt. Students note when the intake cam and the exhaust cam open their valves relative to piston position, and sketch a simple valve timing diagram.

Timing belt replacement. With the motor isolated, set the crank to its timing mark, align both cam sprockets and fit the new belt. Adjust the tension, turn the engine through by hand, then recheck every mark before the motor is switched on again.

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