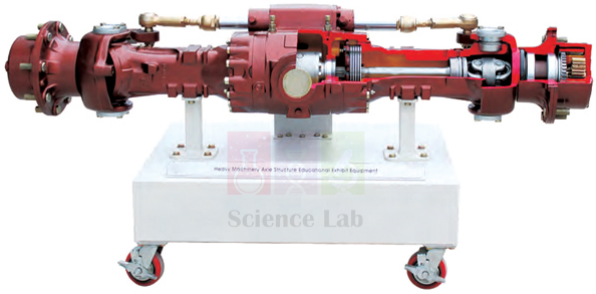
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Product Name :

Heavy Duty Vehicles Differential Gear Model

Product Code :

SLE/ATE/26



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Description :

The Heavy Duty Vehicles Differential Gear Model opens up a large heavy machinery differential so that trainees can see parts that stay hidden on a working axle,including the planetary gear on the wheel. Each component is painted a differentcolour, and the assembly of about 150 kg stands on a steel frame with 5-inchlockable wheels.

Heavy duty differential model specifications

Parameter	Detail
Composition	Large heavy machinery differential gear
Visibility	Parts not visible on an actual unit are opened up; the planetary gear can be seen directly on the wheel
Colour coding	Each component coloured differently for teaching
Stand	Steel frame with 5-inch lockable wheels
Weight	Approx. 150 kg
Size	Approx. 2,000 × 800 × 500 mm
Training focus	Component identification, operating state, inspection and troubleshooting
Product code	SLE/ATE/26
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Heavy axle lessons on the differential model

Following the drive to the wheel. Starting at the input, trainees trace the drive through the differential and out along the axle to the planetary set on the wheel. At the wheel they name the member that is driven, the member that is held and the member that turns the hub, then explain why the reduction sits so close to the tyre.

Inspection walk-round. The instructor names a symptom, such as noise, uneven drive or one wheel end running hot. Trainees find the coloured components that could cause it, describe each one in its normal operating state, and set out the order in which a mechanic would inspect them.

From a small differential to a heavy axle. Begin with the hand-turned differential gear to show the basic principle, then move to this model to show how heavy machines add a wheel-end reduction. The cut model of planetary gear system lets students compare the sun, planet and ring layout used inside an automatic gearbox.

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