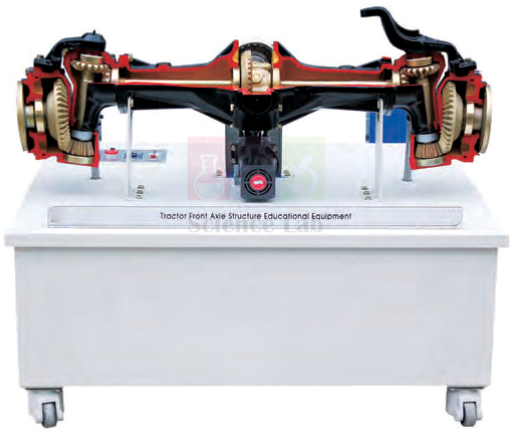
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Product Name :

Tractor Differential Gear Model

Product Code :

SLE/ATE/27



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Description :

In the Tractor Differential Gear Model, a single phase 220V, 180W geared motorturns a set of tractor shafts so that trainees can watch the differential, axle andreduction gears drive the wheels. A speed control slows the drive for close study, andparts that stay hidden on a real tractor are opened up and painted in different colours.

Tractor differential model specifications

Parameter	Detail
Drive motor	Single phase 220V, 180W, with mounted reduction gear
Composition	Tractor shafts, power switch, power lamp, emergency switch, fuse holder and speed control
Systems shown	Differentials, axle, reduction gears and wheel operation
Construction	Parts not seen on an actual tractor opened for viewing; each component coloured differently
Stand	Steel frame with 5-inch lockable wheels
Weight	Approx. 150 kg
Size	Approx. 1,500 × 800 × 800 mm
Product code	SLE/ATE/27
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Tractor driveline practicals on the motor-driven model

Pre-start check. Before each session, a trainee locks the wheels of the steel frame, confirms the fuse holder is fitted, turns the speed control fully down and checks that the emergency switch is within reach. Only then is the power switch turned on, with the power lamp confirming the unit is live. The rest of the group stands clear of the gears.

Counting the reduction. With the drive running slowly, chalk a mark on the input shaft and on one wheel. Trainees count input turns for one wheel turn to find the overall reduction, then count again at the shaft between the differential and the reduction gears to see how much each stage contributes.

Where the extra reduction sits. Compare the model with the hand-turned differential gear and the heavy duty vehicles differential gear model. Trainees note that a car-type axle has one reduction at the crown wheel, while tractor and heavy machine axles
differ

From

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