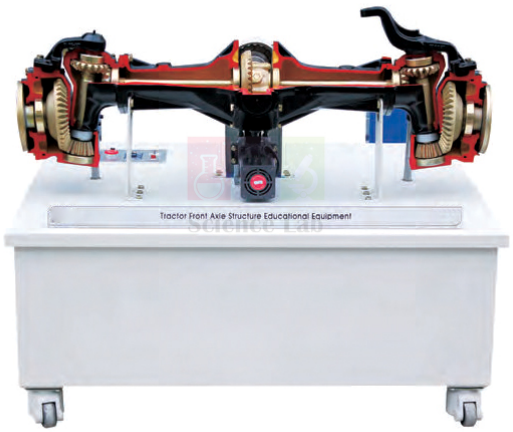
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Product Name :

Tractor Differential Gear Model

Product Code :

SLE/ATE/27



Description :

Tractor Differential Gear Model (Product Code: SLE/ATE/27) is a motor-driven educational model of tractor shafts used to teach how the differential, axle, reduction gears and wheels of a tractor work together in agricultural engineering and farm machinery training. A single phase 220V, 180W geared motor with speed control lets trainees watch the driveline turn slowly, with hidden parts opened up and colour-coded. The OEM engineering lab equipment manufacturer, **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, builds it at its own factory in Ambala, India, as technical educational equipment for training institutes.

Specifications

Parameter	Detail
Motor	Single phase 220V, 180W, reduction gear mounted
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 are 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
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Tractor Differential Gear Model Used For?

Tractors need very high torque at low wheel speed, so their rear axles combine a differential with additional reduction gearing. With this model switched on and the speed control turned low, trainees can observe that chain in motion: drive enters the differential, is split between the two sides, and is reduced again before it reaches the wheels. Instructors typically pause at each stage to compare shaft speeds, then link what the class sees to common field faults and to the inspection points a mechanic checks during servicing.

The power lamp shows when the unit is live and the emergency switch sits within reach of the demonstrator, which matters when a group stands close to rotating gears — keep hands, sleeves and pointers clear while it runs. For engineering educational equipments in India that must move between a classroom and a workshop, the lockable wheels on the steel frame make repositioning straightforward; lock them before starting the motor.

OEM Manufacturer

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