

**Articulated Truck**

<b>MAX. GROSS VEHICLE WEIGHT</b>	64,547 - 139,506 lbs (29,279 - 63,279 kg)
<b>GROSS ENGINE POWER</b>	400 hp (298 kW)
<b>MAX. PAYLOAD</b>	37.5 tons (34 t)
<b>HEAPED CAPACITY</b>	27.5 yd <sup>3</sup> (21.0 m <sup>3</sup> )


**Specifications**

Engine	
Make/model	Detroit Diesel Series 60
Type	6 cylinder, in-line, four cycle diesel, water-cooled, turbocharged with air-to-air cooling, electronic engine management.
Piston displacement	855 in <sup>3</sup> (14 L)
Bore x stroke	5.24 x 6.61 in (133 x 168 mm)
Gross power at 2,000 rpm (SAE J 1995)	400 hp (298 kW)
Net power at 2,000 rpm (SAE J 1349)	388 hp (289 kW)
Maximum torque at 1,200 rpm	1,445 lbf ft (1,959 Nm)
Engine emissions meet Tier 3 USA EPA / CARB MOH 40 CFR 89 and EU non-road mobile machinery directive as mandated by current exhaust legislation. 24 volt electric start. 100A alternator. Two 12 volt 175 Ah batteries. Dry-type air cleaner with safety element, automatic dust ejector and restriction indicator.	

Note: Net horsepower with fan clutch disengaged.

Transmission							
Allison HD4560 with integral retarder mounted directly to the engine. Fully automatic transmission with planetary gearing, electronic control with six forward and one reverse gear. The transmission assembly consists of a torque converter close-coupled to a countershaft type gearbox with integral output transfer gearing. Automatic shifting throughout the range, with kick-down feature. Lockup in all forward gears. A torque proportioning output differential transmits drive permanently to front and rear axles. This differential may be locked by the driver for use in difficult traction conditions.							
<b>Low Range</b>	<b>Forward</b>						<b>Reverse</b>
Gear	1	2	3	4	5	6	1
mph	3.2	6.8	9.9	15.1	19.3	21.9	2.9
km/h	5.2	11.0	15.9	24.3	31.0	35.2	4.6
<b>High Range</b>							
Gear	1	2	3	4	5	6	1
mph	4.9	10.4	15.1	23.1	26.9	33.5	4.3
km/h	7.9	16.8	24.3	37.1	47.7	53.9	7.0

## Specifications

Frame	
Front and rear frames are all-welded high grade steel fabrications with rectangular box-section beams forming the main side and cross members. Inter-frame oscillation is provided by a large diameter cylindrical coupling with widely-spaced polymer bearings. Frames articulate 45° to either side for steering by means of two widely-spaced pivot pins in back-to-back sealed taper roller bearings.	

Axles	
Three axles in permanent all-wheel drive (6 x 6) with differential coupling between each axle to prevent driveline wind-up. Heavy duty axles with fully-floating axle shafts and outboard planetary reduction gearing.	
Automatic limited slip differentials in each axle. Leading rear axle incorporates a through-drive differential to transmit drive to the rearmost axle. This differential and the transmission output differential are locked simultaneously using one switch selected by the operator.	
Differential ratio	3.70:1
Planetary reduction	6.35:1
Overall drivetrain reduction	23.50:1

Tires and Wheels	
Tires	Standard 26.5 R 25 two star radial
Rims	Standard 25 x 22.00
Wheels	3-piece earthmover rims with 19 stud fixing

Suspension	
<b>Front:</b>	Four trailing links and a panhard rod locate the front axle giving a high roll center. The optimized front axle position along with the wide spaced main and rebound mounts, mounted directly above the axle and long suspension travel, combine with the two heavy duty dampers each side to give excellent handling and ride.
<b>Rear:</b>	Each axle is coupled to the frame by three rubber-bushed links with lateral restraint by a transverse link. Pivoting inter-axle balance beams equalize load on each rear axle. Suspension movement is cushioned by rubber/ metal laminated compression units between each axle and underside of balance beam ends.
Pivot points on leading and trailing links are rubber-bushed and maintenance-free.	

Brakes	
All hydraulic braking system with wet disc* on each wheel and single heavy-duty caliper per disc. Independent circuits for front and rear brake systems. Warning lights and audible alarm indicate low brake system pressure. Brake system conforms to ISO 3450, (SAE J 1473).	
Parking	Spring-applied, hydraulic-released disc on rear driveline
Secondary	Secondary brake control actuates the service brakes
Retardation	Engine brake and transmission retarder are standard. Only engine brake operates automatically should engine approach over-speed condition.

\*Dry disc brakes optional.

Steering	
Hydrostatic power steering by two double-acting cushioned steering cylinders with pressure supplied by a variable displacement / load sensing piston pump. Secondary steering pressure is provided by a ground driven pump mounted on the dropbox. An audible alarm and warning light indicates should the secondary system activate.	
System conforms to ISO 5010, SAE J53	
Steering components are protected by full flow filtration on the return line.	
Steering angle to either side	45°
Lock to lock turns, steering wheel	4
System pressure	3,480 psi (240 bar)

Hoist	
Two single-stage, double-acting hoist cylinders, cushioned at both ends of stroke. Variable displacement / load sensing piston pump driven from power take-off on transmission. Full flow return line filtration. Full electro-hydraulic hoist control, with electronic detent in power down.	
System pressure	3,480 psi (240 bar)
Pump output flow rate	85.6 gpm (5.4 L/sec)
Raise time, loaded	12.5 sec
Power down	8.0 sec

Body		
All welded construction, fabricated from high hardness (min. 360 BHN) 145,000 psi (1,000 MPa) yield strength steel. Dual slope tailchute improves material ejection from body.		
Plate thicknesses:	Floor and tailchute	0.59 in (15 mm)
	Sides	0.47 in (12 mm)
	Front	0.31 in (8mm)
Volume:	Struck (SAE)	20.3 yd <sup>3</sup> (15.5 m <sup>3</sup> )
	Heaped 2:1 (SAE)	27.5 yd <sup>3</sup> (21.0 m <sup>3</sup> )

Service Capacities	
Fuel tank	119 gal (450 L)
Hydraulic system	87.2 gal (330 L)
Engine crankcase (with filters)	8.4 gal (32 L)
Dropbox	2.6 gal (10 L)
Cooling system	17.7 gal (67 L)
Transmission (including cooler)	16.1 gal (61 L)
Differentials - front & rear (each)	8.7 gal (33 L)
Differential - center	8.9 gal (34 L)
Planetaries (each)	2.4 gal (9 L)

**Standard Equipment**

<b>CAB</b>	Steering, low pressure
Air conditioner 35,500 BTU/hr (10.4 kW)	Engine check
Cigar lighter, 24v	Diff locks
Coathook	<b>WARNING LIGHTS</b>
Engine diagnostic facility	Alternator charging
Heater and demister 35,415 BTU/hr (9.5 kW)	Body up
Hydraulic diagnostic facility RS232	Brake pressure - front and rear
Inspection lamp socket, 24v	Engine check
Insulation, thermal and acoustic	Engine 'Stop'
Interior light	Fuel, low level
Mirrors, rear view, 4	Diff. locks 'On'
Mug holder	Parking brake 'On'
Radio/cassette	Steering pressure
Seat, passenger ROPS/FOPS protection ISO 3471/3449 SAE J1040 Apr 88/J231	Transmission check
Seat belts, retractable J386	Oil filter change
Seat, operator, air suspension	Air filter change
Steering wheel, tilt/telescopic	<b>GENERAL</b>
Storage compartment	Air filter, dual element with restriction indicator
Sun blind	Articulation locking bar and oscillation lock pin
Tinted glass	Battery master switch
Transmission visual	Body prop
Display unit	Diagnostic test points
Window protection grille, rear	Downshift inhibitor
Wiper and washer, front and rear windows	Engine underguard, hinged
<b>GAUGES</b>	Engine brake
Fuel level	Fan, modulating
Hourmeter	Headlamp guards
Speedometer/odometer	Horn, electronic
Tachometer	<b>LIGHTS</b>
Transmission temperature	Headlamps, 4, halogen side, tail, stop, reverse.
Water temperature	Hazard warning and direction indicators
Volt meter	Work lights, roof-mounted
Brake cooling temperature	Light guards, rear
<b>INDICATOR LIGHTS</b>	Mudflaps, front
Turn signals	Mudflaps, in front of leading rear wheels
Headlight high beam	Neutral start interlock
<b>AUDIBLE ALARMS</b>	Pivot protection guard
Brakes tractor, low pressure	Reverse alarm, audible J994
Brakes trailer, low pressure	Servo body hoist
Engine stop	Tow points, front and rear
Transmission check	Transmission sump guard
	Tire Inflation, nitrogen (6 tires)

**Optional Equipment**

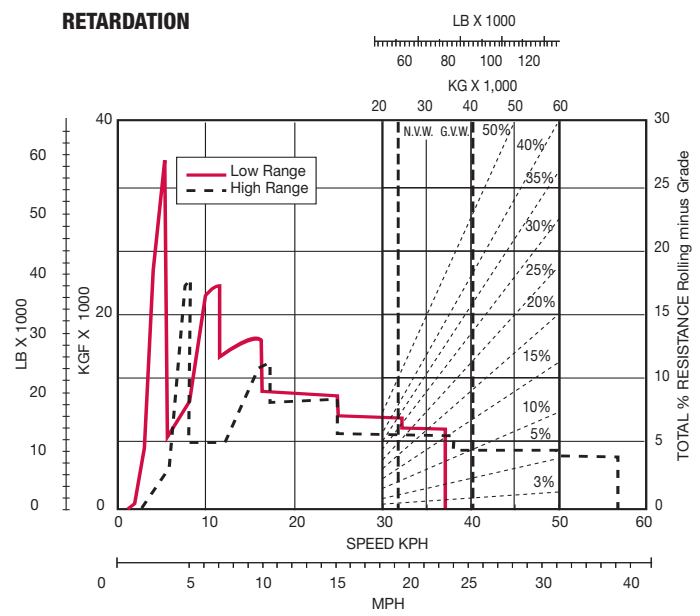
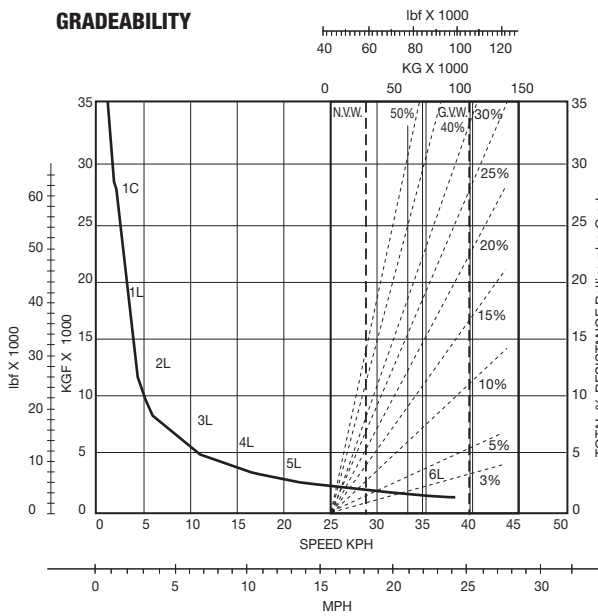
<b>BODY OPTIONS</b>	<b>GENERAL</b>
Exhaust heating	Auto lube system
Liner plates	Cold start kit
Side extensions	Dry disc brakes
Spillguard extension	Fast fuel adapter
Tailgate – scissor chain operated	Fire extinguisher
Tailgate – underhinged	First aid kit
Fast fuel adaptor	Headlamp guards, hinged
Fire extinguisher	Jake brake
First aid kit	Mirror, front mounted
<b>LIGHTS</b>	Mirrors, heated
Beacon, flashing	Mud flaps, in front of leading rear wheels
Fog, rear	Parking brake guard
Reverse, flashing	Tachograph
Working, rear facing	Television monitor, rear view
Mirror, front mounted	Tool kit, hand
Mirrors, heated	
Parking brake guard	
Seat heated	
Television monitor, rear view	
Tool kit, hand	

**Weights**

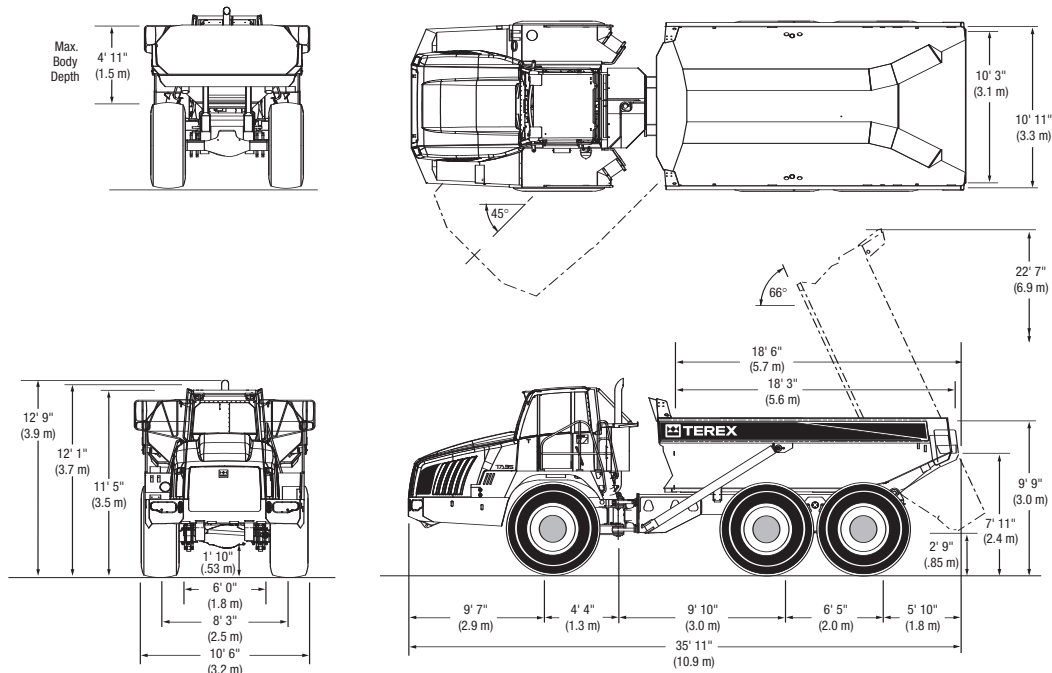
<b>Net Distribution</b>	
Front axle	33,258 lbs (15,086 kg)
Bogie axle, leading	15,707 lbs (7,125 kg)
Bogie axle, trailing	15,582 lbs (7,068 kg)
Vehicle, Net	64,547 lbs (29,279 kg)
Payload	74,956 lbs (34,000 kg)
<b>Gross Distribution</b>	
Front axle	38,094 lbs (17,279 kg)
Bogie axle, leading	50,705 lbs (23,000 kg)
Bogie axle, trailing	50,705 lbs (23,000 kg)
Vehicle, Gross	139,506 lbs (63,279 kg)
Hoists, pair	1,455 lbs (660 kg)

# Articulated Truck TA35

## Performance Data (Graphs Based On 0% Rolling Resistance)



## Dimensions



For more information, product demonstration, or details on purchase, lease and rental plans, please contact your local TEREX Distributor.

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