

Articulated Truck

MAX. GROSS VEHICLE WEIGHT	139,506 lbs (63,279 kg)
GROSS ENGINE POWER	400 hp (298 kW)
MAX. PAYLOAD	37.5 tons (74,956 lbs)
HEAPED CAPACITY	27.5 yd ³ (21.0 m ³)



**ARTICULATED TRUCK
TA35**

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 ³ (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 HD4500 ORS 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.							
Low Range	Forward						Reverse
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
High Range							
Gear	1	2	3	4	5	6	1
mph	4.9	10.4	15.1	23.1	26.9	33.5	4.3

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

Front: 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.

Rear: 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 oil cooled wet brakes on each wheel. 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.

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 ³ (15.5 m ³)
	Heaped 2:1 (SAE)	27.5 yd ³ (21.0 m ³)

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

CAB

Air conditioner 35,500 BTU/hr (10.4 kW)
Cigar lighter, 24v
Coathook
Engine diagnostic facility
Heater and demister 35,415 BTU/hr (9.5 kW)
Hydraulic diagnostic facility RS232
Inspection lamp socket, 24v
Insulation, thermal and acoustic
Interior light
Mirrors, rear view, 4
Mug holder
Radio/cassette
Seat, passenger ROPS/FOPS protection ISO 3471/3449 SAE J1040 Apr 88/J231
Seat belts, retractable J386
Seat, operator, air suspension
Steering wheel, tilt/telescopic
Storage compartment
Sun blind
Tinted glass
Transmission visual
Display unit
Window protection grille, rear
Wiper and washer, front and rear windows

GAUGES

Fuel level
Hourmeter
Speedometer/odometer
Tachometer
Transmission temperature
Water temperature
Volt meter
Brake cooling temperature

INDICATOR LIGHTS

Turn signals
Headlight high beam

AUDIBLE ALARMS

Brakes tractor, low pressure
Brakes trailer, low pressure
Engine stop
Transmission check

Steering, low pressure
Engine check
Diff locks
WARNING LIGHTS
Alternator charging
Body up
Brake pressure - front and rear

Engine check
Engine 'Stop'
Fuel, low level
Diff. locks 'On'
Parking brake 'On'
Steering pressure
Transmission check

Oil filter change

Air filter change

GENERAL

Air filter, dual element with restriction indicator
Articulation locking bar and oscillation lock pin
Battery master switch
Body prop
Diagnostic test points
Downshift inhibitor
Engine underguard, hinged
Engine brake
Fan, modulating
Headlamp guards
Horn, electronic
LIGHTS
Headlamps, 4, halogen side, tail, stop, reverse.
Hazard warning and direction indicators
Work lights, roof-mounted
Light guards, rear
Mudflaps, front
Mudflaps, in front of leading rear wheels
Neutral start interlock
Pivot protection guard
Reverse alarm, audible J994
Servo body hoist
Tow points, front and rear
Transmission sump guard
Tire Inflation, nitrogen (6 tires)

Optional Equipment

BODY OPTIONS

Exhaust heating
Liner plates
Side extensions
Spillguard extension
Tailgate – scissor chain operated

Ejector body
Fast fuel adaptor
Fire extinguisher
First aid kit

LIGHTS

Beacon, flashing
Fog, rear
Reverse, flashing
Working, rear facing

GENERAL

Auto lube system
Cold start kit
Fast fuel adapter
Fire extinguisher
First aid kit
Headlamp guards, hinged
Mirror, front mounted
Mirrors, heated
Mud flaps, in front of leading rear wheels
Parking brake guard
Seat heated
Tachograph
Television monitor, rear view
Tool kit, hand

Weights

Net Distribution

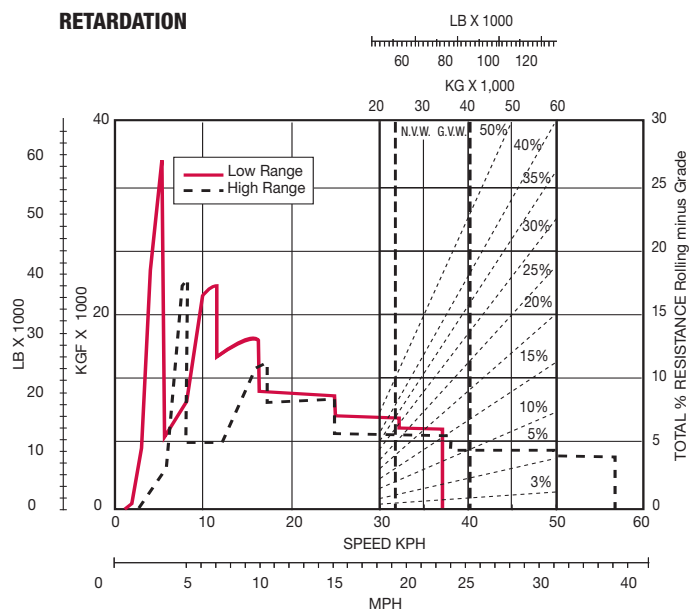
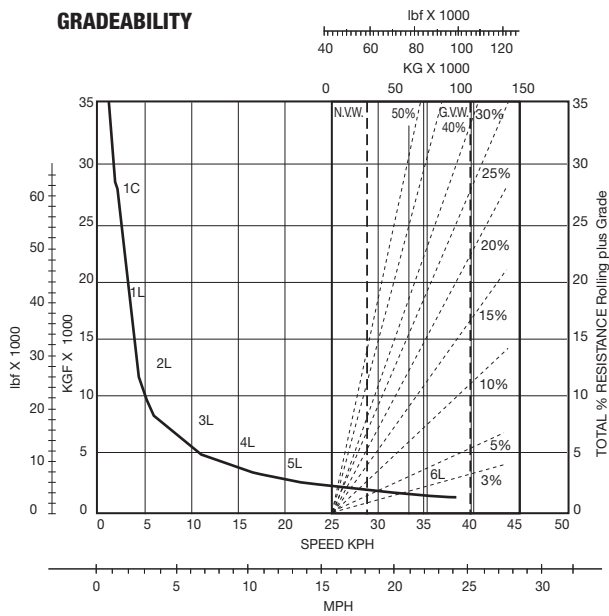
Front axle	33,258 lbs (15,086 kg)
Bogie axle, leading	15,707 lbs (7,125 kg)
Bogie axle, trailing	15,582 lbs (7,068 kg)
Vehicle, Net	64,547 lbs (29,279 kg)
Payload	74,956 lbs (34,000 kg)

Gross Distribution

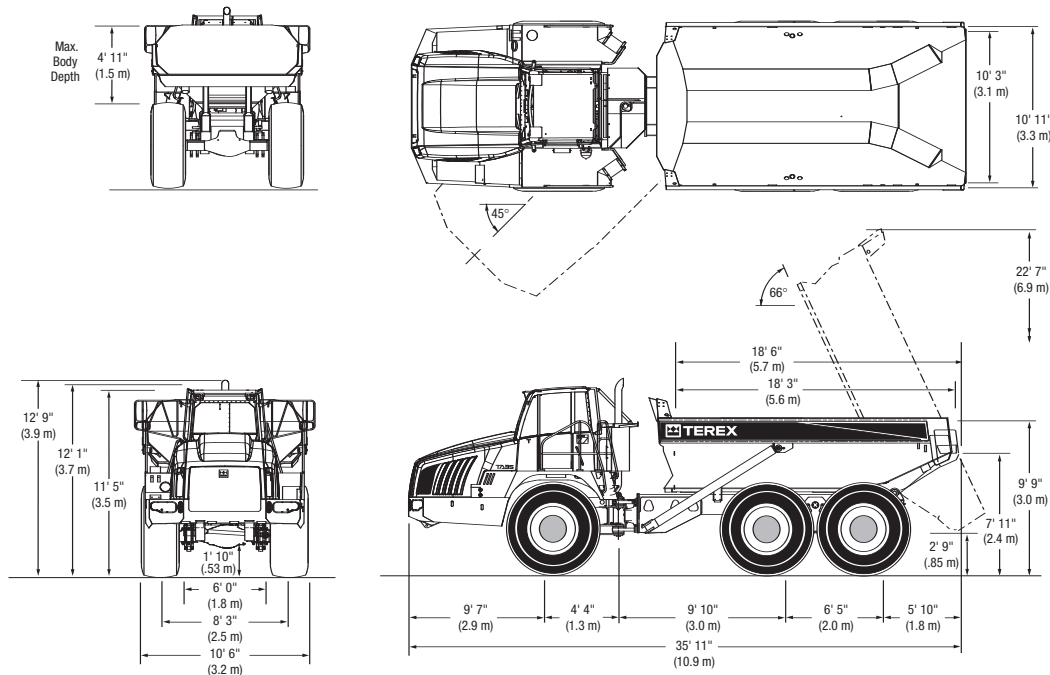
Front axle	38,094 lbs (17,279 kg)
Bogie axle, leading	50,705 lbs (23,000 kg)
Bogie axle, trailing	50,705 lbs (23,000 kg)
Vehicle, Gross	139,506 lbs (63,279 kg)
Hoists, pair	1,455 lbs (660 kg)

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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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