OPERATING WEIGHT	61,065 – 131,610 lbs (27,700 – 59,700 kg)
NET ENGINE POWER	375 hp (SAE J 1349) (280 kW)
MAX PAYLOAD	35 Tons (32 t)
MAX SPEED	32.3 mph (52 kph)

TEREX

TA35 ARTICULATED HAUL TRUCK

- **Electronically-managed, emission certified engine**
- **Automatic limited slip differentials in each axle for superior traction**
- **6 x 6 all-wheel drive with efficient ground-following suspension**
- **Spacious, comfortable cab for continuous high productivity**
- **Heaped Capacity - 25.5 yd^3 (19.5 m^3)**

TEREX

TA35 ARTICULATED HAUL TRUCK

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.

ENGINE

Make/model		Detroit Diesel Series 60
Type		6 cylinder, in-line, four cycle, water-cooled diesel with direct injection. Turbocharged and aftercooled.
Piston displacement	774 in^3	(12.7 L)
Bore x stroke	5.12" x 6.30"	(130 x 160 mm)
Gross power at 2,200 rpm (SAE J 1995)	400 hp	(298 kW)
Net power at 2,200 rpm (SAE J 1349)	375 hp	(280 kW)
Maximum torque at 1,350 rpm	1,350 lbf ft	(1,830 Nm)

Engine emissions meet Tier 2 USA EPA / CARB MOH 40 CFR 89 and EU non-road mobile machinery directive as mandated by current exhaust legislation. 24 volt electric start. 70A alternator. Two 12 volt 143 Ah batteries. Dry-type air cleaner with safety element, automatic dust ejector and restriction indicator.

TRANSMISSION

ZF 6WG 310 fully automatic with manual override. 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. Integral hydraulic retarder is standard. This operates automatically should the engine approach overspeed condition.

	Forward						Reverse		
Gear	1	2	3	4	5	6	R1	R2	R3
mph	3.5	5.5	8.6	13.5	19.8	32.3	3.5	8.6	19.8
km/h	5.7	8.9	13.9	21.7	31.8	52.0	5.7	13.9	31.8

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 driver. These locks engage automatically when reverse gear is selected.

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	5-piece earthmover rims with 23 stud fixing

SUSPENSION

Front: Axle located by a leading A-frame permitting both vertical movement and oscillation. Rubber suspension elements with two heavy duty hydraulic dampers each side

Axle vertical travel	4.2"	(105 mm)

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.

Axle vertical travel	± 4.5"	(± 115 mm)
Axle oscillation		± 9˚

Pivot points on rear suspension linkages are rubberbushed and do not require lubrication.

BRAKES

All hydraulic braking system with dry 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	Hydraulic retarder integral with transmission

STEERING

Hydrostatic power steering by two double-acting, cushioned steering cylinders. Actuating pressure for steering operation supplied by a gear pump. Secondary steering pressure is provided by a ground-driven pump mounted on the transmission. An indicator lamp signals should the secondary system activate. Conforms to ISO 5010, (SAE J 53). Steering components are protected by advanced full flow filtration on the return line.

Steering angle to either side		45˚
Lock to lock turns, steering wheel		4
System pressure	3,000 psi	(206 bar)

HOIST

Two single-stage, double-acting hoist cylinders, cushioned at both ends of stroke. Gear pump driven from power take-off on transmission. Full flow return line filtration. Hydraulic system features pressure test points for diagnostic servicing.

System pressure	2,500 psi	(172 bar)
Pump output flow rate	111 gpm	(7.03 L/sec)
Raise time, loaded		16 sec
Power down		12.0 sec

BODY

All welded construction, fabricated from high hardness (min. 360 BHN) 145,000 psi (1,000 MPa) yield strength steel. 25˚ tail chute angle provides good load retention without tailgate.

Plate thicknesses:	Floor and tailchute	0.59"	(15 mm)
	Sides	0.47"	(12 mm)
	Front	0.39"	(10 mm)
	Volume: Struck (SAE)	19.0 yd^3	(14.5 m^3)
	Heaped 2:1 (SAE)	25.5 yd^3	(19.5 m^3)

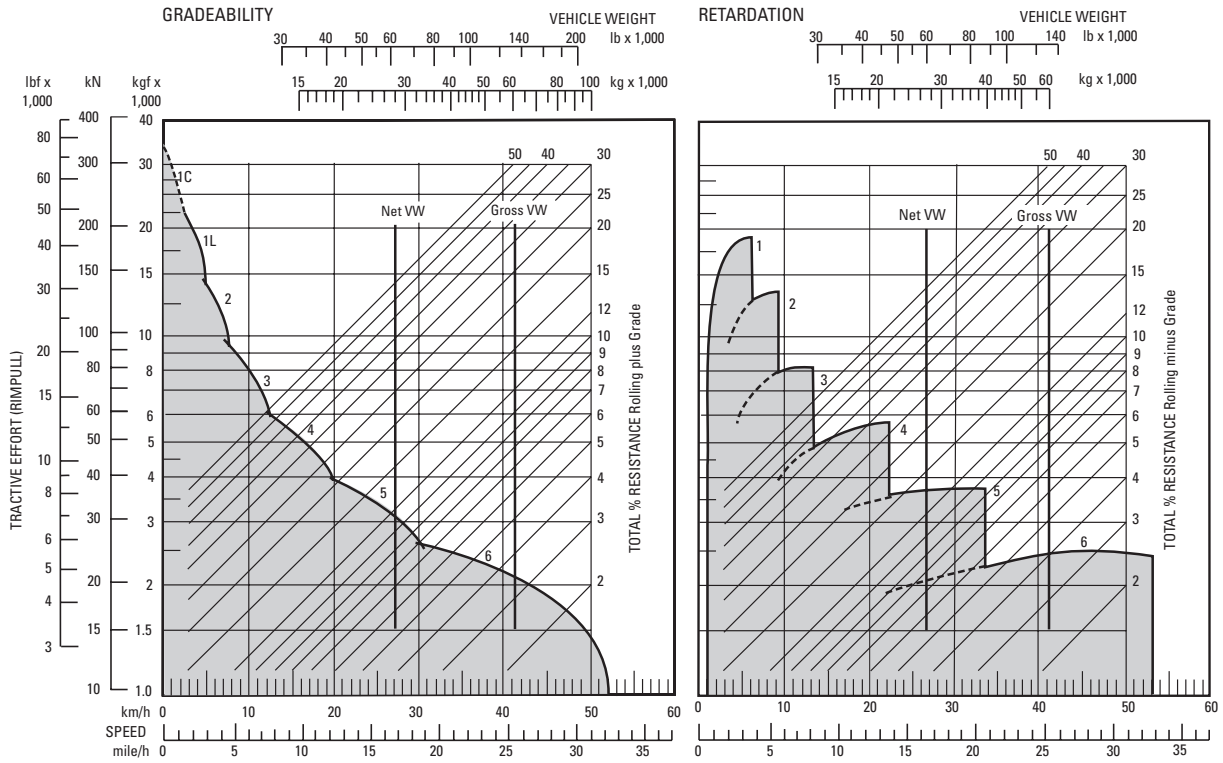
WEIGHTS

Net Distribution		
Front axle	29,870 lbs	(13,550 kg)
Bogie axle, leading	15,540 lbs	(7,050 kg)
Bogie axle, trailing	15,655 lbs	(7,100 kg)
Vehicle, Net	**61,065 lbs**	**(27,700 kg)**
Payload	**70,550 lbs**	**(32,000 kg)**
Gross Distribution		
Front axle	38,910 lbs	(17,650 kg)
Bogie axle, leading	46,295 lbs	(21,000 kg)
Bogie axle, trailing	46,405 lbs	(21,050 kg)
Vehicle, Gross	**131,610 lbs**	**(59,700 kg)**
Bare chassis	48,700 lbs	(22,090 kg)
Body	10,910 lbs	(4,950 kg)
Hoists, pair	1,455 lbs	(660 kg)

SERVICE DATA

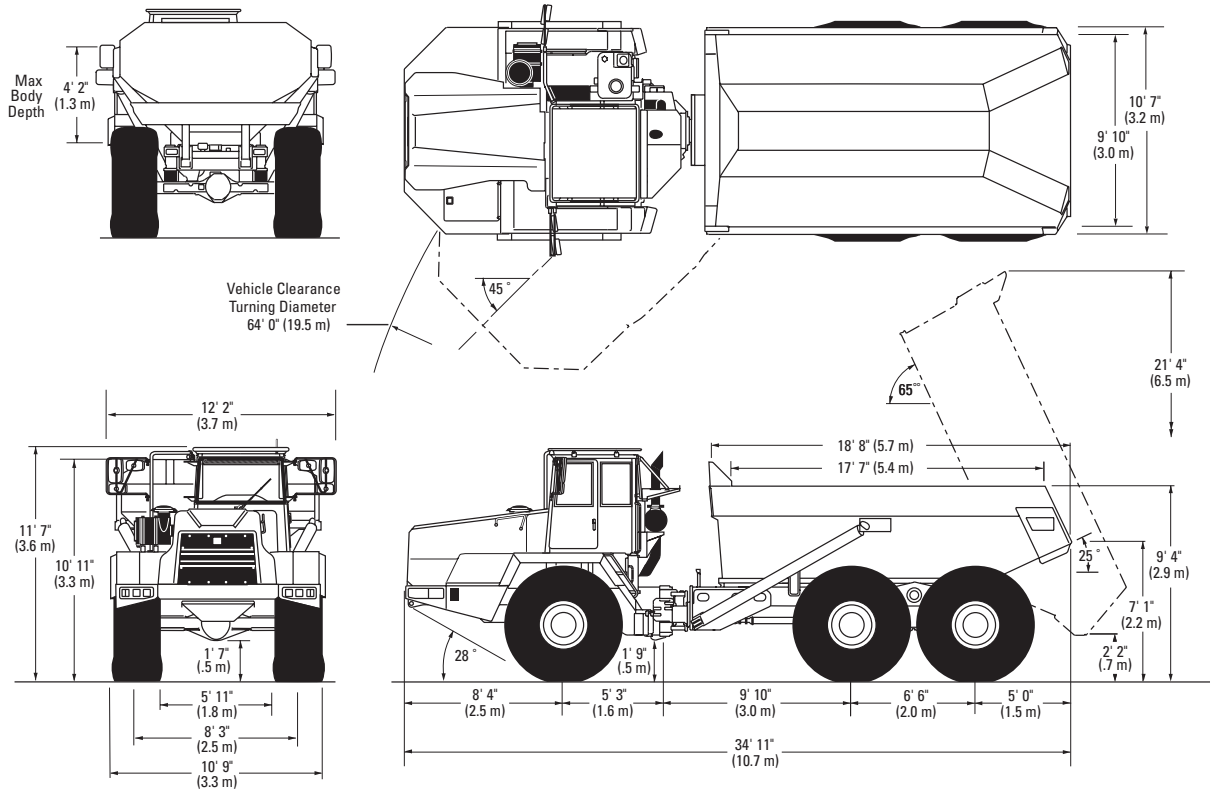
Fuel tank	122.0 gal	(463 L)
Hydraulic system (steering & body)	55.2 gal	(209 L)
Engine crankcase (with filters)	10.5 gal	(40 L)
Cooling system	21.1 gal	(80 L)
Transmission (with filters)	12.3 gal	(56 L)
Differentials - front & Rear (each)	10.0 gal	(38 L)
Differential - center	10.3 gal	(39 L)
Planetaries (each)	1.8 gal	(6.8 L)

TA35 PERFORMANCE DATA (GRAPHS BASED ON 0% ROLLING RESISTANCE)



Instructions: From intersection of Vehicle Weight with Percentage resistance line read across to determine maximum Gear attainable, and then downwards for Speed.

TA35 DIMENSIONS



Unit on 23.5 R 25 tires. For 20.5 tires reduce vertical dimensions by 2" (50 mm) and width over tires to 8' 2" (2,500 mm).

TEREX

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TA35 ARTICULATED HAUL TRUCK

STANDARD AND OPTIONAL EQUIPMENT

STANDARD EQUIPMENT

Cab
Air conditioner R 134A 27,300 BTU/hr (8 kW)
Cigarette Lighter, 24V
Engine diagnostic facility
Heater and de-mister
32,400 BTU/hr (9.5 kW)
Inspection lamp socket, 24V
Insulation, thermal and acoustic
Interior light
Mirrors, rear view, 6
Mug holder
Radio / cassette player
ROPS/FOPS protection
(ISO 3471/3449, SAE J 1040, Apr 88/SAE J 231)
Seat belts, retractable (SAE J 386)
Seat, operator, air suspension, high back, headrest and adjustable arm rests
Seat, passenger
Storage compartment
Sun blind
Sun visor (external)
Tinted glass
Transmission visual display unit
Window protection grille, rear
Wiper and washer, front and rear windows

Gauges
Speedometer, with odometer
Tachometer, with hourmeter
Transmission oil temp.

Indicator Lights
Direction indicators
Headlight high beam

Warning Lights
Body up
Brake pressure balance
Front/rear
Brake pressures (2)
Check engine
Coolant level
Secondary steering
Inter-axle diff. Locks "on"
Parking brake "on"
Stop engine
Transmision "stop"
Warning lights test button
Audible warning of low brake pressure

General
Air filter, dual element
Articulation locking bar
Battery master switch
Body prop
Brake splash guards
Diagnostic pressure test points
Engine hood, hinged
Engine underguard, hinged
Exhaust muffler
Fan, modulating
Horn, electronic 117dB
Hydraulic filter restriction
Indicator
Hydraulic oil cooler
Hydraulic retarder
Mudflaps, front
Neutral start interlock
Nitrogen inflated tires
Reverse alarm, audible (SAE J 994)
Security kit
Tow points, front and rear

Lights
High level working lamps
Headlamps, 4, halogen
Side, tail, stop, reverse & hazard warning and direction indicators
Light guards, rear

OPTIONAL EQUIPMENT

Automatic lubrication
Engine brake (Jacobs)
Fire extinguisher
Headlamp guards, hinged
Mirror, front mounted
Mudflaps, in front of leading Rear wheels
Tachograph
Television monitor, rear view
Tool kit, hand

Body Options
Exhaust heating
Liner plates
Side extensions
Spillguard extension (folding)
Tailgate, scissor chain operated
Tailgate, underhinged

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

TEREX

COMPACT EXCAVATORS
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TRACTOR LOADER BACKHOES
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