OPERATING WEIGHT	46,010 – 96,720 lbs (20,870 – 43,870 kg)
NET ENGINE POWER	266 hp (SAE J 1349) (198 kW)
MAX PAYLOAD	25 Tons (23 t)
MAX SPEED	32.3 mph (52 kph)

TEREX

TA25 ARTICULATED HAUL TRUCK

- **High power, high torque, Tier 2 certified engine turbocharged for maximum performance**
- **Automatic transmission with manual over-ride for optimum shifting**
- **Automatic limited slip differentials in each axle for superior traction**
- **Refined, quiet cab for greater operator comfort**
- **Heaped Capacity - 17.6 yd^3 (13.5 m^3)**

TEREX

TA25 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 which houses nylon bushings. 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	Cummins QSC 8.3	
Type	Four cycle, emission certified, direct injection diesel, 6 cylinder, in line, water-cooled, turbocharged and aftercooled.	
Piston Displacement	505 in^3	(8.3 L)
Bore x Stroke	4.49" x 5.32"	(114 x 135 mm)
Gross Power at 2,000 rpm (SAE J 1995)	280 hp	(224 kW)
Net Power at 2,200 rpm (SAE J 1349)	266 hp	(198 kW)
Maximum Torque at 1,300 rpm	907 lbf ft	(1,230 Nm)

Engine emission meets USA EPA Tier 2 / CARB MOH 40 CFR 89 Tier 2 and proposed EUNRMM (non-road mobile machinery directive). Tier 2 24 volt electric start. 70A alternator. Two 12 volt 175 Ah batteries. Dry-type air cleaner with safety element, automatic dust ejector and restriction indicator. Modulating fan reduces noise level and consumes engine power only when required.

TRANSMISSION

ZF 6WG 210 fully automatic transmission 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.

	Forward						Reverse		
Gear	1	2	3	4	5	6	R1	R2	R3
mph	3.7	5.6	8.8	13.7	20.1	32.3	3.7	8.8	20.1
km/h	5.9	9.1	14.2	22.1	32.4	52.0	5.9	14.2	32.4

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 rear most axle. This differential and the transmission output differential are locked simultaneously using one switch selected by the driver.

Differential ratio	3.44:1
Planetary reduction	6.35:1
Overall Drivetrain reduction	21.85:1

TIRES AND WHEELS

Tires	Standard 23.5 R 25 two star radial. Optional 750/65 R25
Rims	Standard 25 x 19.50. For optional tire, 25 x 22.00
Wheels	5-piece earthmover rims with 12 stud fixing

SUSPENSION

Front: Axle is carried on the leading arms of a sub-frame which pivots on the main frame. Suspension by rubber elements with four heavy duty hydraulic dampers.

Axle vertical travel	5"	(127 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	± 5"	(± 130 mm)
Axle oscillation		± 12°

Pivot points on leading and trailing links are rubber-bushed and maintenance-free.

BRAKES

All hydraulic braking system with dry disc on each wheel and double heavy-duty calipers per disc. Independent circuits for front and rear brake systems. Brake system conforms to ISO 3450, (SAE J 1473).

Parking	Spring-applied, hydraulic-released disc on rear driveline
Secondary	Secondary brake control actuates rear service and parking brakes
Retardation	Guillotine-type engine exhaust brake is standard and operates automatically should the engine approach overspeed 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 transmission. An audible alarm and warning light indicates should the secondary system activate. System conforms to ISO 5010, (SAE J 53). 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	3,500 psi	(241 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	3,200 psi	(220 bar)
Pump output flow rate	77.6 gpm	(4.9 L/sec)
Raise time, loaded		12 sec
Power down		7.5 sec

BODY

All welded construction, fabricated from high hardness (min. 360 BHN) 145,000 psi (1,000 MPa) yield strength steel.

Plate thicknesses: Floor and tailchute	0.47"	(12 mm)
Sides	0.47"	(12 mm)
Front	0.31"	(8 mm)
Volume: Struck (SAE)	13.1 yd^3	(10.0 m^3)
Heaped 2:1 (SAE)	17.6 yd^3	(13.5 m^3)

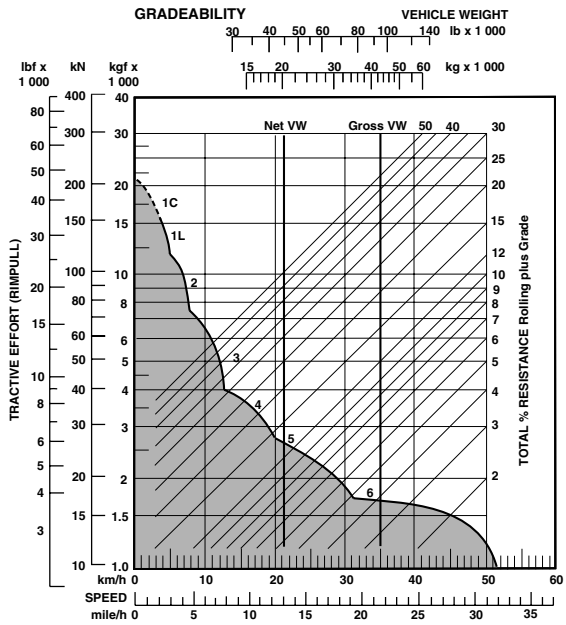
WEIGHTS

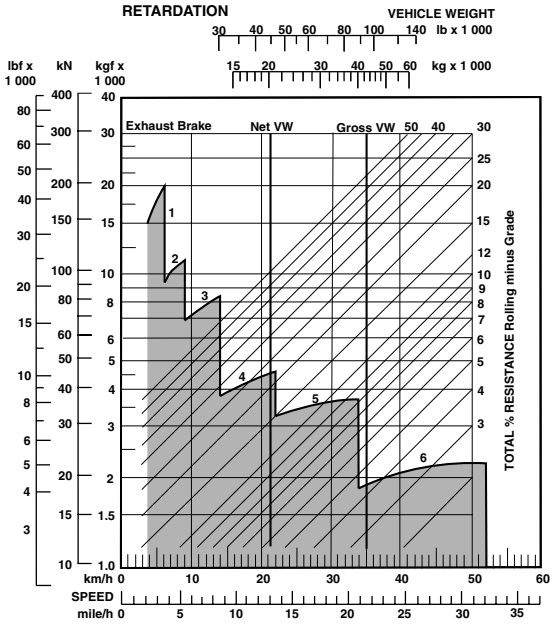
Net Distribution		
Front Axle	24,050 lbs	(10,910 kg)
Bogie Axle, leading	10,890 lbs	(4,940 kg)
Bogie Axle, trailing	11,070 lbs	(5,020 kg)
Vehicle, Net	**46,010 lbs**	**(20,870 kg)**
Payload	**50,710 lbs**	**(23,000 kg)**
Gross Distribution		
Front Axle	32,210 lbs	(14,610 kg)
Bogie Axle, leading	32,100 lbs	(14,560 kg)
Bogie Axle, trailing	32,410 lbs	(14,700 kg)
Vehicle, Gross	**96,720 lbs**	**(43,870 kg)**
Bare Chassis	37,345 lbs	(16,940 kg)
Body	7,495 lbs	(3,400 kg)
Hoists, pair	1,170 lbs	(530 kg)

SERVICE DATA

Fuel Tank	103.0 gal	(390 L)
Hydraulic System (steering & body)	53.4 gal	(202 L)
Engine Crankcase	5.3 gal	(20 L)
Cooling System	14.5 gal	(55 L)
Transmission (including filters and cooler)	14.3 gal	(54 L)
Differentials - Front & Rear (each)	4.5 gal	(17 L)
Differential - Center	4.9 gal	(18.5 L)
Planetaries (each)	0.8 gal	(3.0 L)

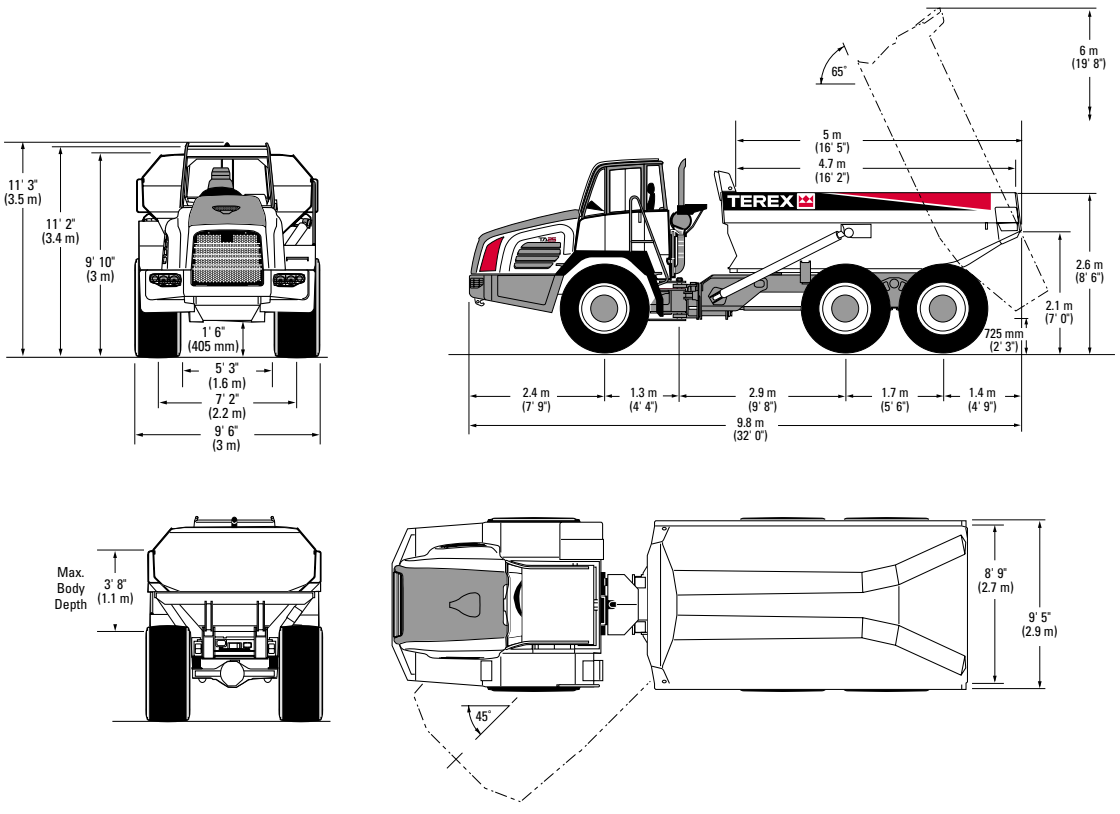
TA25 PERFORMANCE DATA (GRADEABILITY AND RETARDATION GRAPHS BASED ON 0% ROLLING RESISTANCE)





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

TA25 DIMENSIONS



TEREX

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TA25 ARTICULATED HAUL TRUCK

STANDARD AND OPTIONAL EQUIPMENT

STANDARD EQUIPMENT

Cab
Air conditioner R 134A 27,300 BTU/hr (8 kW)
Cigarette lighter, 24V
Coat hook
Engine diagnostic facility
Heater and de-mister 32,400 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 player
Seat, passenger
ROPS/FOPS protection
(ISO 3471/3449, SAE J 1040, Apr 88/J 231)
Seat belts, retractable (SAE J 386)
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
Speedometer/odometer
Tachometer
Hourmeter
Transmission temperature
Water temperature

Indicator Lights
Turn signals
Headlight high beam

Audible alarm
Brakes tractor, low pressure
Brakes trailer, low pressure
Engine "stop"
Transmission "stop"
Steering, low pressure

Warning lights
Alternator charging
Body up
Brake pressure - front and rear
Engine check
Engine "stop"
Fuel, low level
Diff. locks "on"
Maintenance (engine)
Parking brake "on"
Steering pressure
Transmission "stop"

General
Air filter, dual element with restriction indicator
Restriction indicator
Articulation locking bar and oscillation lock pin
Battery master switch
Body prop
Brake splash guards
Diagnostic test points
Downshift inhibitor
Engine underguard, hinged
Fan, modulating
Headlamp guards
Horn, electronic
Mudflaps, front
Neutral start interlock
Pivot protection guard
Reverse alarm, audible
(SAE J 994)
Servo body hoist
Security kit
Steering alarm, onm
low pressure, audible
Tow points, front and rear
Transmission oil cooler w/
modulating fan
Transmission sump guard
Tires, 6 nitrogen inflated

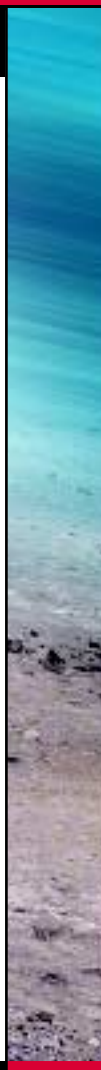
Lights
Headlamps, 4, halogen
Side, tail, stop, reverse
hazard warning and
direction indicators
light guards, rear,
working lights, roof mounted

OPTIONAL EQUIPMENT

Cold start kit
Engine brakes (Jacobs)
Fast fuel adaptor
Fire extinguisher
First aid kit
Mirror, front mounted
Mirror, safety (with wide angle)
Mirrors, heated
Mud flaps, in front of leading
rear wheels
Parking brake guard
Retarder, transmission
Seat, heated
Television monitor, rear view
Tool kit, hand
Tires 750/65 R25

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

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



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