

Articulated Truck

MAX. GROSS VEHICLE WEIGHT	46,010 – 96,720 lbs (20,870 – 43,870 kg)
GROSS ENGINE POWER	266 hp (198 kW)
MAX PAYLOAD	25 Tons (23 t)
HEAPED CAPACITY	17.6 Yd ³ (13.5 m ³)



**ARTICULATED TRUCK
TA25**

Specifications

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 3 / CARB MOH 40 CFR 89 Tier 3 and proposed EUNRMM (non-road mobile machinery directive). 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	1st	2nd	3rd	4th	5th	6th	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

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 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.	
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 in (12 mm)
	Sides	0.47 in (12 mm)
	Front	0.31 in (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)
Service Capacities		
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 & 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)

Standard Equipment

CAB

Air conditioner R 134A
27,300 BTU/hr (8kW)
Cigarette lighter, 24V
Coat hook
Engine diagnostic facility
Heater and de-mister 32,400
BYU/hr (9.5w)
Hydraulic diagnostic facility
RS232
Inspection lamp socket, 24V
Insulation, thermal and acoustic
Interior Light
Mirrors, rear view (4)
Mug holder
Radio/Cassette player
ROPS/FOPS protection
(ISO 3471/3449, SAE J 1040,
Apr 88/SAE J231)
Seat belts, retractable
(SAE J 386)
Seat, operator air suspension,
high back, headrest and
adjustable arm rests
Seat, passenger
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, with odometer
Tachometer, with hourmeter
Transmission oil temperature
Water temperature

INDICATOR LIGHTS

Direction indicators
Headlight high beam
Turn signals

AUDIBLE ALARMS

Brakes, tractor, low pressure
Brakes, trailer, low pressure
Engine Stop

Transmission stop
Steering, low pressure

WARNING LIGHTS

Alternator not charging

Body Up
Brake pressure balance
Engine maintenance
Front/rear brake pressures
Check engine
Fuel, low level
Secondary steering
Inter-axle diff locks "on"
Parking brake "on"
Steering pressure
Stop engine
Transmission "stop"
Warning lights test button
Audible warning of low brake
pressure

GENERAL

Air Filter, dual element with
restriction indicator
Articulation locking bar
Articulation locking bar and
oscillation lock pin
Battery master switch
Body prop
Brake splash guards
Diagnostic pressure test points
Downshift inhibitor
Engine hood, hinged
Engine underguard, hinged
Exhaust muffler
Fan, modulating
Horn, electronic 117db
Hydraulic filter restriction
indicator
Hydraulic oil cooler
Mudflaps front
Neutral start interlock
Nitrogen inflated tires
Rear light guards
Reverse alarm, audible
(SAE J994)
Security kit
Servo body hoist
Tow points, front and rear
Transmission oil cooler with
modulating fan
Transmission sump guard

LIGHTS

Headlamps, 4, halogen
Highlevel working lamps
Side, tail, stop, reverse &
hazard warning and direction
indicators

Optional Equipment

GENERAL

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

Television monitor, rear view
Tool kit, hand
Tires, 750/65 R25

BODY OPTIONS

Exhaust heating
Liner plates
Side extensions
Spillguard extensions
Tailgate, scissor-chain operated
Tailgate - underhinged

LIGHTS

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

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)

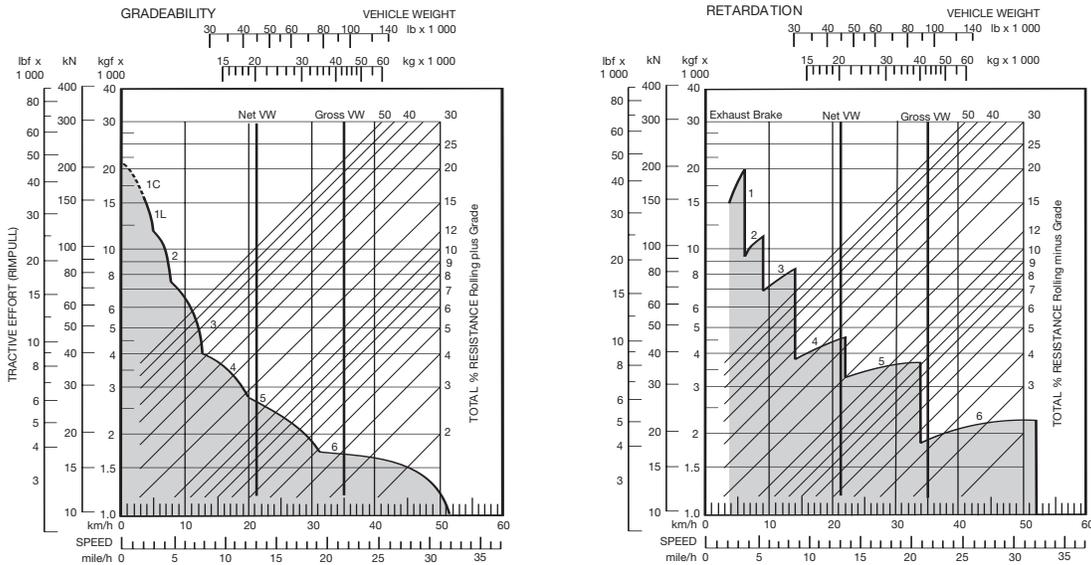
Bare chassis 37,345 lbs (16,940 kg)

Body 7,495 lbs (3,400 kg)

Hoists, pair 1,170 lbs (530 kg)

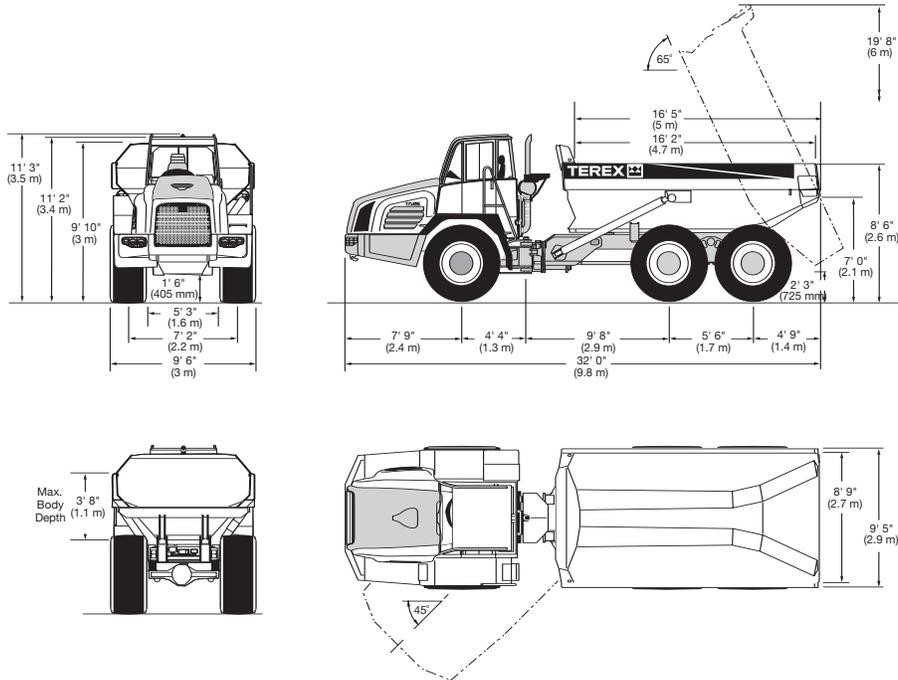
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Performance Data (Graphs Based On 2% Rolling Resistance)



Instructions: From intersection of vehicle weight and percentage resistance line read across to determine maximum gear attainability and ten downward for speed.

Dimensions



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

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