

ARTICULATED TRUCK**TA30****Specifications:**

Max Gross Vehicle Weight	111,160 lbs (50,420 kg)
Gross Engine Power	385 hp (287 kW)
Max Payload	31 tons (61,730 lbs)
Heaped Capacity	23 yd ³ (17.5 m ³)

Features:

- True independent front suspension provides very comfortable ride with the potential to increase productivity.
- Rugged 385 hp (287 kW) Cummins QSM11 turbocharged diesel engine provides superior performance and productivity.
- Standard six wheel wet braking system reduces brake maintenance; offers superior downhill haulage capabilities when combined with the standard engine brake.
- State-of-the-art cab features an operator-friendly environment for more productive work cycles.
- Enormous 23 yd³ SAE 2:1 heaped capacity with new "high opening" tailgate installation that increases capacity where material weight allows.
- Extensive list of options allows for a truly custom configured truck, built specifically to your needs.



Standard Equipment

Engine

Make / Model	Cummins QSM11
Type	6 cylinder, in line four cycle diesel, water-cooled turbocharged with air to air cooling
Piston displacement	660 in ³ (10.8 L)
Bore x stroke	4.92 x 5.79 in (125 x 147 mm)
Gross power at 2,100 rpm	385 hp (287 kW)
Net power at 2,100 rpm	333 hp (248 kW)
Maximum torque	1,310 lbf ft (1,775 Nm) at 1400 rpm
Engine emission meets USA EPA Tier 3 / CARB MOH 40 CFR 89 Tier 3.	
24 volt electric start. 70A alternator.	
Battery	Two 12 volt 175 Ah batteries 950 CCA

Transmission

ZF 6WG 310 RPC Fully automatic with manual override.

Gear	Forward					Reverse			
	1st	2nd	3rd	4th	5th	6th	R1	R2	R3
mph	3.5	5.4	8.5	13.1	19.3	31.7	3.5	8.5	19.3
km/h	5.6	8.7	13.6	21.1	31.0	51.0	5.6	13.6	31.0

Frame

Front and rear frames are all-welded high grade steel. Frames articulate 45° to either side for steering.

Axles

Three axles in permanent all-wheel drive (6x6) with differential coupling between each axle to prevent driveline wind-up.

Automatic limited slip differentials in each axle.

Differential ratio	3.875:1
Planetary reduction	5.71:1
Overall drivetrain reduction	22:12

Tires

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

Ground Pressure (standard tire)

Unloaded	Front 17.2 psi (119 kPa)
	Rear 7.8 psi (54 kPa)
Loaded	Front 24.6 psi (170 kPa)
	Rear 24.6 psi (170 kPa)

Brakes

All hydraulic braking system with multiplate sealed oil immersed disc brake packs at each wheel. Independent circuits for front and rear brake systems.

Parking: Spring-applied, hydraulic-released disc on rear driveline.

Secondary: Secondary brake control actuates service and parking brakes.

Brake system conforms to ISO 3450, SAE J1473.

Retardation: Engine compression brake is standard. Transmission retarder is optional.

Steering

Hydrostatic power steering by two double-acting cushioned steering cylinders. Secondary steering pressure is provided by a ground driven pump mounted on the transmission. An audible alarm and warning light indicates the secondary system activate.

System conforms to ISO 5010, SAE J53

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 the base end. 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 lbf/in² (1,000 MPa) yield strength steel.

Plate thicknesses: Floor and tailchute 0.55 in (14 mm)

Sides 0.47 in (12 mm)

Front 0.31 in (8 mm)

Volume: Struck (SAE) 18.0 yd³ (13.8 m³)
Heaped 2:1 (SAE) 23 yd³ (17.5 m³)

Capacities

Fuel tank	10.8 gal (41 L)
Hydraulic system (steering & body)	53.4 gal (202 L)
Engine crankcase	9.0 gal (34 L)
Cooling system	14.3 gal (54 L)
Transmission (including filters and cooler)	15.9 gal (60 L)
Differentials - front & rear (each)	5.5 gal (21 L)
Differential - center	6.0 gal (23 L)
Planetaries (each)	2.0 gal (7.5L)

Standard Equipment

<p>CAB</p> <p>Air conditioner R 134A 27,300 BTU/hr (8 kW)</p> <p>Cigarette lighter, 24V</p> <p>Coat hook</p> <p>Engine diagnostic facility</p> <p>Heater and de-mister 32,400 BTU/hr (9.5 kW)</p> <p>Hydraulic diagnostic facility RS232</p> <p>Inspection lamp socket, 24V</p> <p>Insulation, thermal and acoustic</p> <p>Interior light</p> <p>Mirrors, rear view (4)</p> <p>Mug holder</p> <p>AM/FM radio/CD player</p> <p>ROPS/FOPS protection (ISO 3471/3449, SAE J 1040, Apr 88/SAE J231)</p> <p>Seat belts, retractable (SAE J 386)</p> <p>Seat, operator air suspension, high back,</p>	<p>headrest and adjustable arm rests</p> <p>Seat, passenger</p> <p>Steering wheel, tilt/telescopic</p> <p>Storage compartment</p> <p>Sun blind</p> <p>Tinted glass</p> <p>Transmission visual display unit</p> <p>Typical noise levels: Operator ear (ISO 6394) 78 dbA</p> <p>Window protection grille, rear</p> <p>Wiper and washer, front and rear windows</p> <p>GAUGES</p> <p>Fuel level</p> <p>Hourmeter</p> <p>Speedometer, with odometer</p> <p>Tachometer, with hourmeter</p> <p>Transmission oil temperature</p>	<p>Water temperature</p> <p>INDICATOR LIGHTS</p> <p>Direction indicators</p> <p>Headlight high beam</p> <p>Retarder</p> <p>Turn signals</p> <p>AUDIBLE ALARMS</p> <p>Brakes, tractor, low pressure</p> <p>Brakes, trailer, low pressure</p> <p>Engine stop</p> <p>Transmission stop</p> <p>Steering, low pressure</p> <p>WARNING LIGHTS</p> <p>Alternator not charging</p> <p>Body up</p> <p>Brake pressure balance</p> <p>Engine maintenance</p> <p>Front/rear brake pressures</p> <p>Check engine</p> <p>Fuel, low level</p> <p>Secondary steering</p> <p>Inter-axle diff locks "on"</p>	<p>Parking brake "on"</p> <p>Steering pressure</p> <p>Stop engine</p> <p>Transmission "stop"</p> <p>Warning lights test button</p> <p>Audible warning of low brake pressure</p> <p>GENERAL</p> <p>Air filter, dual element with restriction indicator</p> <p>Articulation locking bar and oscillation lock pin</p> <p>Battery master switch</p> <p>Body prop</p> <p>Diagnostic pressure test points</p> <p>Downshift inhibitor</p> <p>Engine hood, hinged</p> <p>Engine underguard, hinged</p> <p>Exhaust muffler</p> <p>Fan, modulating</p> <p>Horn, electronic 117db</p> <p>Hydraulic filter restriction indicator</p>	<p>Hydraulic oil cooler</p> <p>Jake brake</p> <p>Mudflaps front</p> <p>Neutral start interlock</p> <p>Nitrogen inflated tires</p> <p>Rear light guards</p> <p>Reverse alarm, audible (SAE J994)</p> <p>Security kit</p> <p>Servo body hoist</p> <p>Tow points, front and rear</p> <p>Transmission oil cooler with modulating fan</p> <p>Transmission sump guard</p> <p>Wet disc oil immersed brakes on all 6 axles</p> <p>LIGHTS</p> <p>Headlamps, 4, halogen</p> <p>Highlevel working lamps</p> <p>Side, tail, stop, reverse & hazard warning and direction indicators</p> <p>LED taillights</p>
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Weights

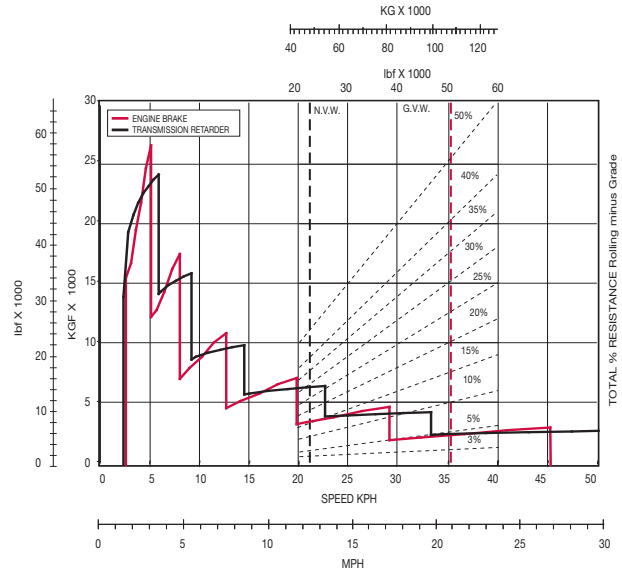
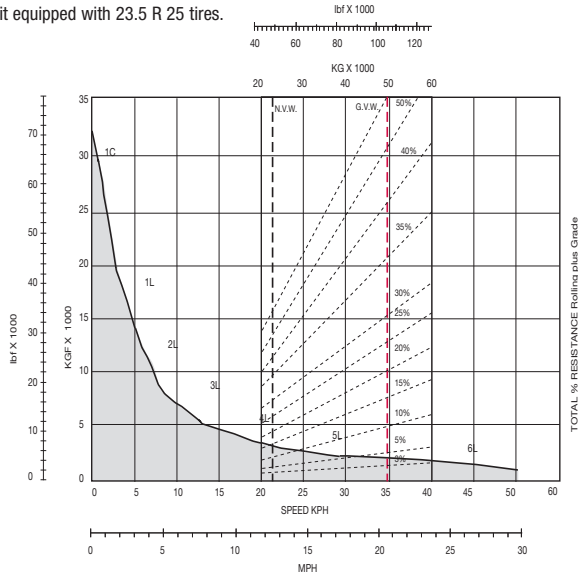
Net Distribution	
Front axle	25,913 lbs (11,753 kg)
Bogie axle leading	11,718 lbs (5,315 kg)
Bogie axle trailing	11,942 lbs (5,417 kg)
Vehicle, net	49,573 lbs (22,485 kg)
Payload	61,730 lbs (28,000 kg)
Gross Distribution	
Front axle	37,086 lbs (16,821 kg)
Bogie axle leading	36,904 lbs (16,740 kg))
Bogie axle trailing	37,313 lbs (16,924 kg)
Vehicle Gross	111,303 lbs (50,485 kg)
Bare chassis	38,703 lbs (17,555 kg)
Body	9,700 lbs (4,400 kg)
Hoists, pair	1,170 lbs (530 kg)

Optional Equipment

<p>GENERAL</p> <p>Auto lube system</p> <p>Cold start kit</p> <p>Fast fuel adapter</p> <p>Automatic fire suppression system</p> <p>Headlamp guards, hinged</p> <p>Mirror, front mounted</p> <p>Mirror, wide angle</p> <p>Mirrors, heated</p> <p>Mud flaps, in front of leading rear wheels</p>	<p>Parking brake guard</p> <p>Seat, heated</p> <p>Tachograph</p> <p>Color monitor rear view camera</p> <p>Tool kit, hand</p> <p>Tires, 750/65 R25</p> <p>BODY OPTIONS</p> <p>Exhaust heating</p> <p>Liner plates</p> <p>Side extensions</p>	<p>Spillguard extensions</p> <p>Tailgate, scissor-chain operated</p> <p>Ejector body</p> <p>LIGHTS</p> <p>Beacon, flashing</p> <p>Fog, rear</p> <p>Reverse, flashing</p> <p>Working, rear-facing</p>
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Performance Data (Graphs Based on 2% Rolling Resistance)

Unit equipped with 23.5 R 25 tires.

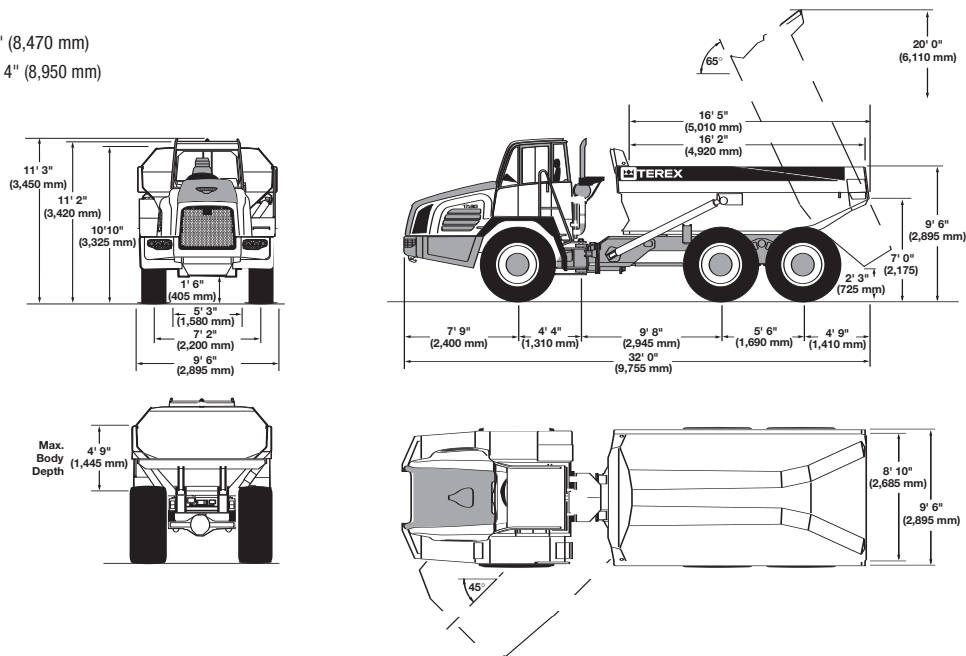


Instructions: From intersection of vehicle weight and percentage resistance line read across to determine maximum gear attainability and ten downward for speed.

Dimensions

SAE turning radius 27' 9" (8,470 mm)

Outside turning radius 29' 4" (8,950 mm)



Effective Date: February, 2008. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposes only. Refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the appropriate Operator's Manual when using our equipment or to otherwise act irresponsibly may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and Terex makes no other warranty, express or implied. Products and services listed may be trademarks, service marks, or trade names of Terex Corporation and/or its subsidiaries in the USA and other countries. All rights are reserved. Terex is a registered trademark of Terex Corporation in the USA and many other countries. © 2008 Terex Corporation.

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