

Articulated Truck

MAX GROSS	111,160 lbs
VEHICLE WEIGHT	(50,420 kg)
RATED	350 hp
ENGINE POWER	(261 kW)
MAX PAYLOAD	30.9 tons (28 t)
HEAPED	22.9 yd³
CAPACITY	(17.5 m³)



Articulated Truck

Specifications

power only when required.

Engine	
Make / Model	Cummins QSM11
	ine, 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)
Rated power at 2,100 r	pm 350 hp (261 kW)
Net power at 2,100 rpm	333 hp (248 kW)
Maximum torque 1,	,310 lbf ft (1,775 Nm) at 1400 rpm
•	USA EPA Tier 3 / CARB MOH U NRMM (non-road mobile er 3.
24 volt electric start. 70 Two 12 volt 175 Ah batt	
Dry-type air cleaner wit ejector and restriction in	h safety element, automatic dust ndicator.
Modulating fan reduces	noise level and consumes engine

Transmission

ZF 6WG 310 RPC 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 conditions. Standard integral hydraulic retarder which is automatically operated should the engine overspeed.

			Forw	ard			F	Reverse		
Gear	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	



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 (6x6) 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.

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

Tires and Wheels		
	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 w	ith 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.

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 dry disc on each wheel with double heavy-duty calipers per disc. 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: Hydrodynamic type in transmission.

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 J53

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	3,500 lbf/in2 (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 detente in power down.

System pressure	3,200 lbf/in ² (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.

Dual slope tailchute improves material ejection from body.

•	•	
Plate thicknesses:	Floor and tail	chute 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)	22.9 yd3 (17.5 m3)

Service Capacities	
Fuel tank	103.0 gal (390 L)
Hydraulic system (steering & body)	53.4 gal (202 L)
Engine crankcase	10.8 gal (41 L)
Cooling system	14.3 gal (54 L)
Transmission (including filters and cooler)	15.9 gal (60 L)
Differentials - front & rear (each)	4.5 gal (17 L)
Differential - center	4.9 gal (18.5 L)
Planetaries (each)	0.8 gal (3 L)

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

BYU/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 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

Retarder 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 quards

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 Hvdraulic retarder

Jake brake 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 retarder 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

Tailgate, scissor-chain operated

9,700 lbs (4,400 kg)

1,170 lbs (530 kg)

Tailgate - underhinged

Spillquard extensions

LIGHTS

Beacon, flashing Fog. rear

Reverse, flashing Working, rear-facing

Weights

Nat Distributi

Body

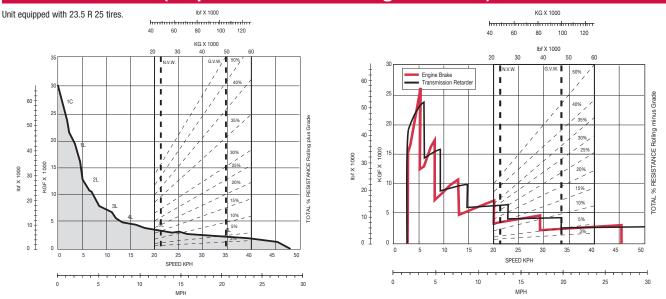
Hoists, pair

Net Distribution	
Front axle	25,840 lbs (11,720 kg)
Bogie axle leading	11,685 lbs (5,300 kg)
Bogie axle trailing	11,905 lbs (5,400 kg)
Vehicle, net	49,430 lbs (22,420 kg)
Payload	61,730 lbs (28,000 kg)
Gross Distribution	
Front axle	37,040 lbs (16,800 kg)
Bogie axle leading	36,860 lbs (16,720 kg)
Bogie axle trailing	37,360 lbs (16,900 kg)
Vehicle Gross	111,160 lbs (50,420 kg)

Articulated Truck

TA30

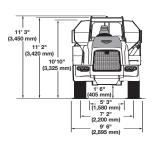
Performance Data (Graphs Based On 2% Rolling Resistance)

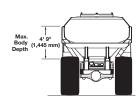


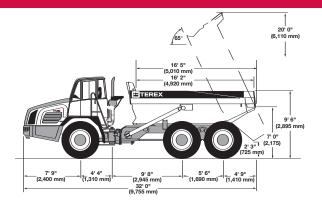
Instructions: From intersection of vehicle weight and percentage resistance line read across to determine maximum gear attainability and ten downward for speed.

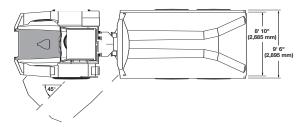
Dimensions

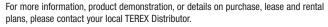
SAE turning radius 27' 9" (8,470 mm) Clearing radius 29' 4" (8,950 mm)













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