



## **Articulated Truck**

MAX GROSS	111,308 lbs
VEHICLE WEIGHT	(50,485 kg)
RATED	385 hp
ENGINE POWER	(287 kW)
MAX PAYLOAD	30.9 tons (28 t)
HEAPED	22.9 yd³
CAPACITY	(17.5 m³)





### **Specifications**

Engine			
Make / Model		Cummins QSM11	
,,	• '	in line, four cycle diesel, ed with air to air cooling	
Piston displacement		660 in <sup>3</sup> (10.8 L)	
Bore x stroke	4.92 x	5.79 in (125 x 147 mm)	
Rated power at 2,100	) rpm	385 hp (287 kW)	
Net power at 2,100 r	pm	333 hp (248 kW)	
Maximum torque 1,3	310 lbf ft (	1,775 Nm) at 1400 rpm	
Engine emission meets USA EPA Tier 3 / CARB MOH 40 CFR 89 Tier 3 and EU NRMM (non-road mobile machinery directive) Tier 3.			
24 volt electric start. Two 12 volt 175 Ah b		nator.	
Dry-type air cleaner v		•	

Modulating fan reduces noise level and consumes

engine power only when required.

### 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.

Forward						Reve	erse			
	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. Hydraulically actuated multi-plate transverse diff-lock differential for 100% cross-axle lockup.

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: Independent front suspension with half shafts & coil over dampers allows each wheel on the front axle to move vertically (ie. wheels react to uneven terrain independently of each other).

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 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 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.

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System pressure	3,200 lbf/in <sup>2</sup> (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)  $145,000\ lbf/in^2\ (1,000\ MPa)$  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	9.0 gal (34 L)
Cooling system	14.3 gal (54 L)
Transmission (including filters and cooler)	16.6 gal (63 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

Typical noise levels:

Operator ear (ISO 6394) 78 dbA 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 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

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 sump guard

Wet disc oil immersed brakes on all 6 axles

LIGHTS

Headlamps, 4, halogen Highlevel working lamps

Side, tail, stop, reverse & hazard warning and direction indicators

LED tailights

#### **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

Transmission retarder

**BODY OPTIONS** Exhaust heating liner plates Side extensions

Spillguard extensions Tailgate, scissor-chain operated

Ejector body

#### **LIGHTS**

Beacon, flashing

Fog, rear Reverse, flashing

Working, rear-facing

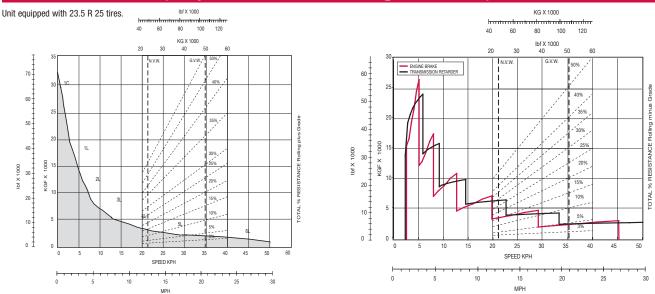
#### Weights

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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)
Bare chassis	38,560 lbs (17,490 kg)
Body	9,700 lbs (4,400 kg)
Hoists, pair	1,170 lbs (530 kg)

### **Articulated Truck**

# **TA30-IS**

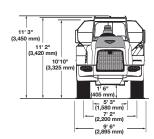
#### Performance Data (Graphs Based On 2% Rolling Resistance)

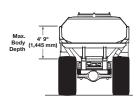


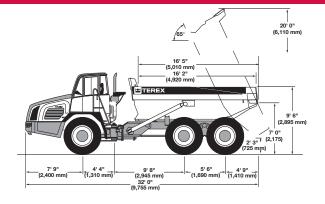
Instructions: From intersection of vehicle weight and percentage resistance line read across to determine maximum gear attainability and ten downward for speed.

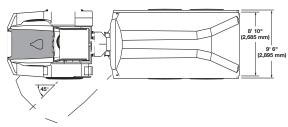
#### **Dimensions**

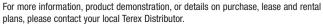
SAE turning radius 27' 9" (8,470 mm) Clearing radius 29' 4" (8,950 mm)













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