

B30E 6x6 27 000 L Articulated Water Truck

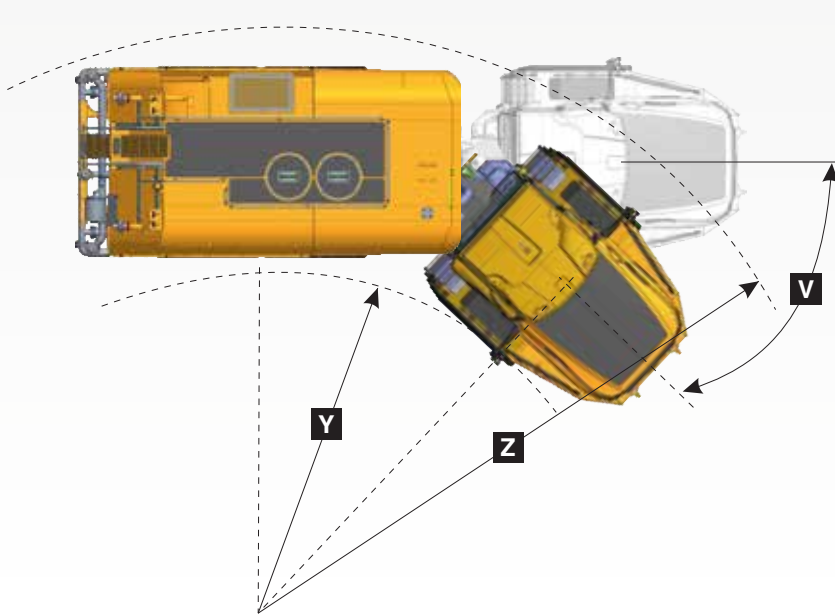
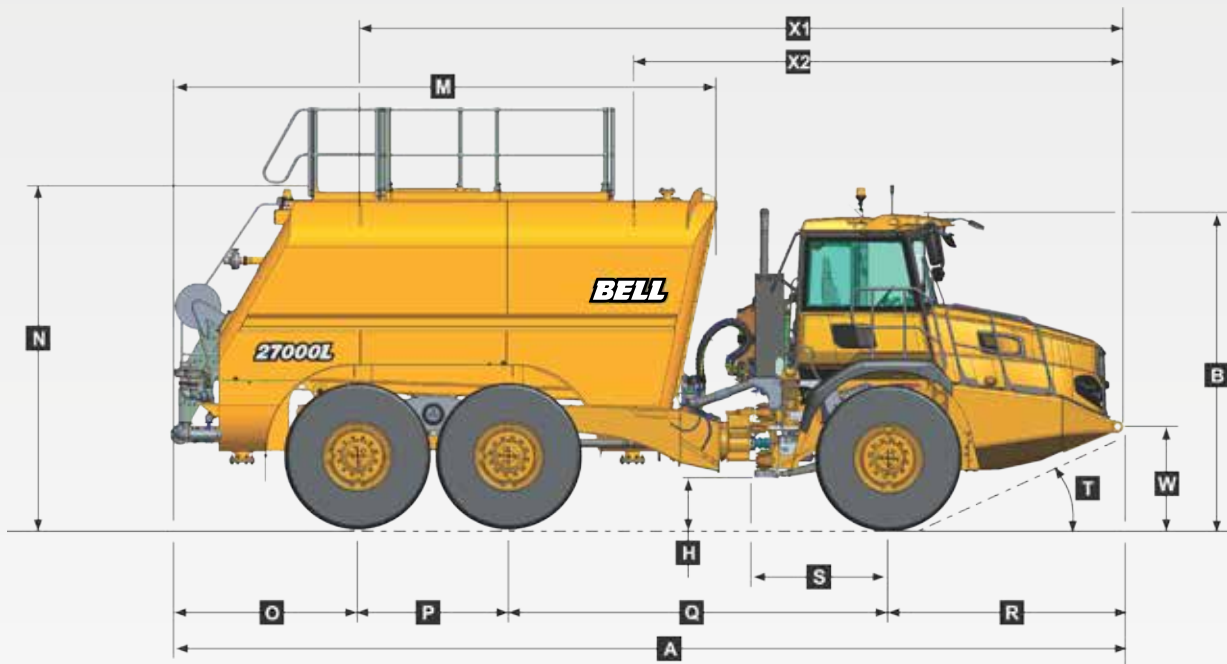


ENGINE	TRANSFER CASE	WHEELS	ELECTRICAL SYSTEM																					
Manufacturer Mercedes Benz	Manufacturer Kessler	Type Radial Earthmover	Voltage 24 V																					
Model OM926LA	Series W1400	Tyre 23.5 R 25	Battery Type Two AGM (Absorption Glass Mat) type																					
Configuration Inline 6, turbocharged and intercooled.	Layout Remote mounted	FRONT SUSPENSION Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts.	Battery Capacity 2 X 75 Ah																					
Net Power 240 kW (322 hp) @ 2 200 rpm in accordance with UN ECE R120	Gear Layout Three in-line helical gears	REAR SUSPENSION Pivoting walking beams with laminated rubber suspension blocks	Alternator Rating 28 V 80 A																					
Gross Torque 1 300 Nm (959 lbft) @ 1 200 -1 600 rpm	Output Differential Interaxle 33/67 proportional differential. Automatic inter-axle differential lock.																							
Displacement 7,2 litres (439 cu.in)	AXLES Manufacturer Bell	HYDRAULIC SYSTEM Full load sensing system serving the prioritized steering, body tipping and brake functions. A ground-driven, load sensing emergency steering pump is integrated into the main system.	VEHICLE SPEEDS <table><tr><td>1st</td><td>8 km/h</td><td>5 mph</td></tr><tr><td>2nd</td><td>14 km/h</td><td>9 mph</td></tr><tr><td>3rd</td><td>20 km/h</td><td>12 mph</td></tr><tr><td>4th</td><td>29 km/h</td><td>18 mph</td></tr><tr><td>5th</td><td>43 km/h</td><td>26 mph</td></tr><tr><td>6th</td><td>50 km/h</td><td>31 mph</td></tr><tr><td>R</td><td>8 km/h</td><td>5 mph</td></tr></table>	1st	8 km/h	5 mph	2nd	14 km/h	9 mph	3rd	20 km/h	12 mph	4th	29 km/h	18 mph	5th	43 km/h	26 mph	6th	50 km/h	31 mph	R	8 km/h	5 mph
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R	8 km/h	5 mph																						
Auxiliary Brake Exhaust Valve Brake Engine Valve Brake	Model 18T	Pump Type Variable displacement load sensing piston.	WATER TANKER PLUMBING Standard centrifugal water pump																					
Fuel Tank Capacity 379 litres (100 US gal)	Differential High input limited slip differential with spiral bevel gears.	Flow 165 l/min (44 gal/min)	Rate of Flow 1 800 L/min																					
Certification OM926LA meets EU Stage II/EPA Tier 2 emissions regulations.	Final Drive Outboard heavy duty planetary on all axles	Pressure 28 Mpa (4 061 psi)	Head 50 m																					
TRANSMISSION	BRAKING SYSTEM	STEERING SYSTEM	CAB																					
Manufacturer Allison	Service Brake Dual circuit, full hydraulic actuation wet disc brakes on front and middle axles. Wet brake oil is circulated through a filtration and cooling system.	Filter 5 microns	ROPS/FOPS certified 72 dBA internal sound level measured according to ISO 6396.																					
Model 3400P ORS	Maximum brake force: 187 kN (42 000 lbf)	Double acting cylinders, with ground-driven emergency steering pump.																						
Configuration Fully automatic planetary transmission	Park & Emergency Spring applied, air released driveline mounted disc.	Lock to lock turns 4,1																						
Layout Engine mounted	Maximum brake force: 251 kN (56 400 lbf)	Steering Angle 45°																						
Gear layout Constant meshing planetary gears, clutch operated	Auxiliary Brake Automatic engine valve brake. Automatic retardation through electronic activation of wet brake system.	PNEUMATIC SYSTEM Air drier with heater and integral unloader valve, serving park brake and auxiliary functions.																						
Gears 6 Forward, 1 Reverse	Total Retardation Power 265 kW (355 hp) Continuous 494 kW (662 hp) Maximum	System Pressure 810 kPa (117 psi)																						
Clutch Type Hydraulically operated multi-disc																								
Control Type Electronic																								
Torque Control Hydrodynamic with lock-up in all gears.																								

Load Capacity & Ground Pressure

OPERATING WEIGHTS		GROUND PRESSURE		LOAD CAPACITY	
UNLADEN - kg (lb)		LADEN (No sinkage)		Rated Payload	
Front	9 750 (21 495)	23.5 R 25	kPa (Psi)		27 000 litres
Middle	4 800 (10 582)	Front	280 (41)		(7 100 gallons)
Rear	4 760 (10 494)	Middle	378 (55)		
Total	19 310 (42 571)	Rear	378 (55)		
LADEN - kg (lb)					
Front	13 120 (28 925)				
Middle	17 115 (37 732)				
Rear	17 075 (37 644)				
Total	47 310 (104 301)				

Dimensions

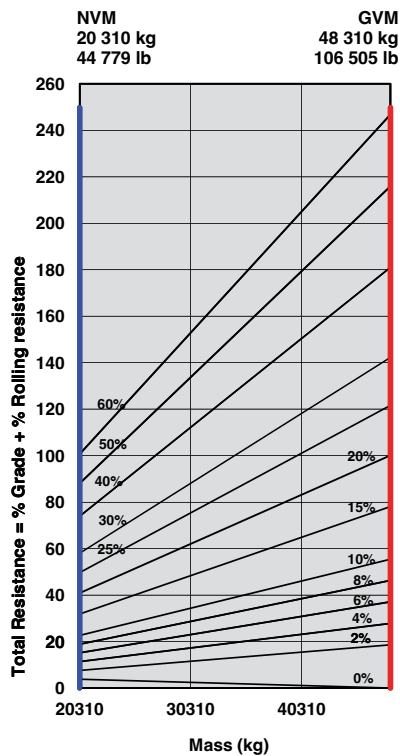


Machine Dimensions

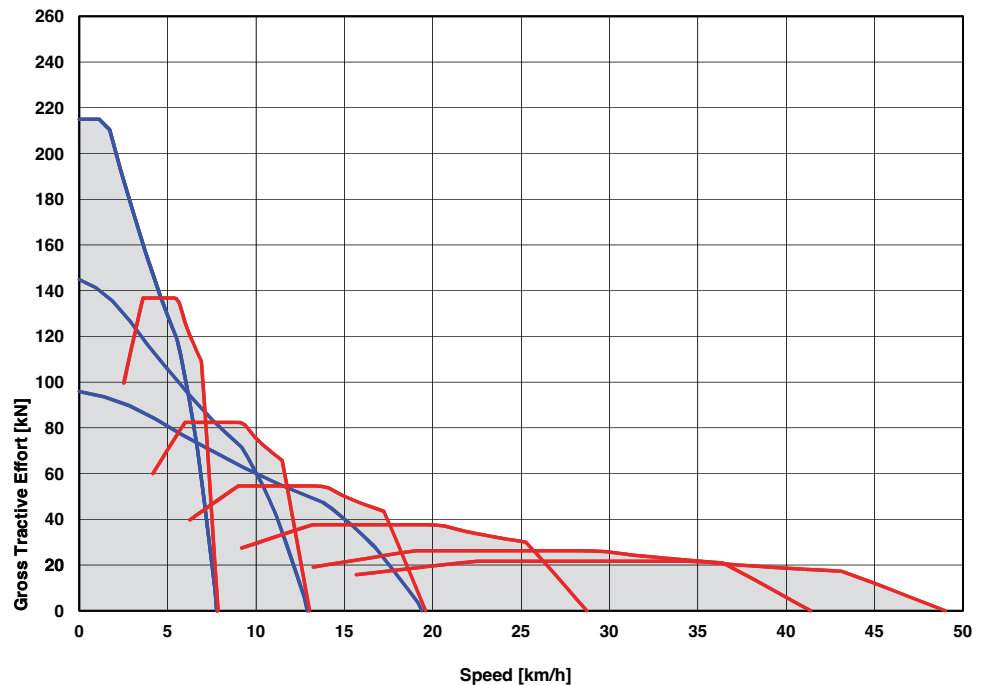
A	Length - Transport Position	10 525 mm	(34 ft. 6 in.)	P	Mid Axle Centre to Rear Axle Centre	1 670 mm	(5 ft. 6 in.)
B	Height - Transport Position	3 436 mm	(11 ft. 3 in.)	Q	Mid Axle Centre to Front Axle Centre	4 181 mm	(13 ft. 9 in.)
C	Width over Mudguards	2 985 mm	(9 ft. 6 in.)	R	Front Axle Centre to Machine Front	2 602 mm	(8 ft. 9 in.)
D	Width over Tyres - 23.5R25	2 940 mm	(9 ft. 8 in.)	S	Front Axle Centre to Artic Centre	1 362 mm	(4 ft. 6 in.)
E	Tyre Track Width - 23.5R25	2 356 mm	(7 ft. 9 in.)	T	Approach Angle	25°	
F	Width over Tank / Bowser	2 855 mm	(9 ft. 4 in.)	V	Maximum Articulation Angle	45°	
G	Width over Mirrors - Operating Position	3 260 mm	(10 ft. 8 in.)	W	Front Tie Down Height	1 075 mm	(3 ft. 6 in.)
H	Ground Clearance - Artic	537 mm	(1 ft. 9 in.)	X1	Tank Lifting Centres	8 359 mm	(27 ft. 5 in.)
I	Ground Clearance - Front Axle	488 mm	(1 ft. 7 in.)	X2	Front Lifting Centre to Tank Lifting Centre	5 334 mm	(17 ft. 6 in.)
M	Tank / Bowser Length	6 030 mm	(19 ft. 9 in.)	Y	Inner Turning Circle Radius - 23.5R25	4 110 mm	(13 ft. 6 in.)
N	Maximum Tank Height	3 780 mm	(12 ft. 8 in.)	Z	Outer Turning Circle Radius - 23.5R25	8 000 mm	(26 ft. 3 in.)
O	Rear Axle Centre to Bowser / Tank Rear	2 072 mm	(6 ft. 10 in.)				

Gradeability/Rimpull

1. Determine tractive resistance by finding intersection of vehicle mass line and grade line. NOTE: 2% typical rolling resistance is already assumed in chart and grade line.
2. From this intersection, move straight right across charts until line intersects rimpull curve.
3. Read down from this point to determine maximum speed attained at that tractive resistance.

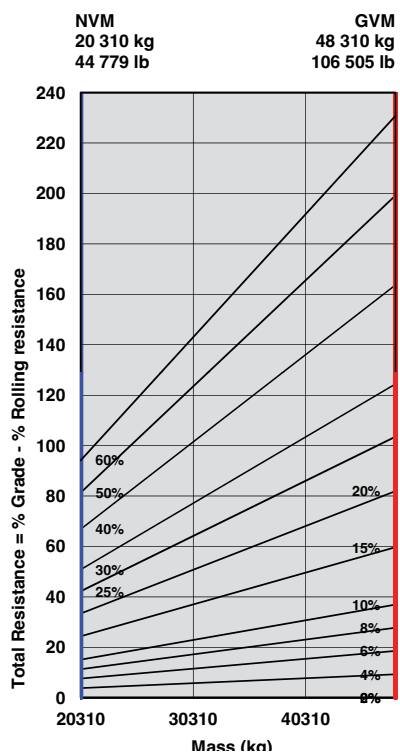


B30E 6x6 27 000 Ltr Water Tanker - Tractive Effort

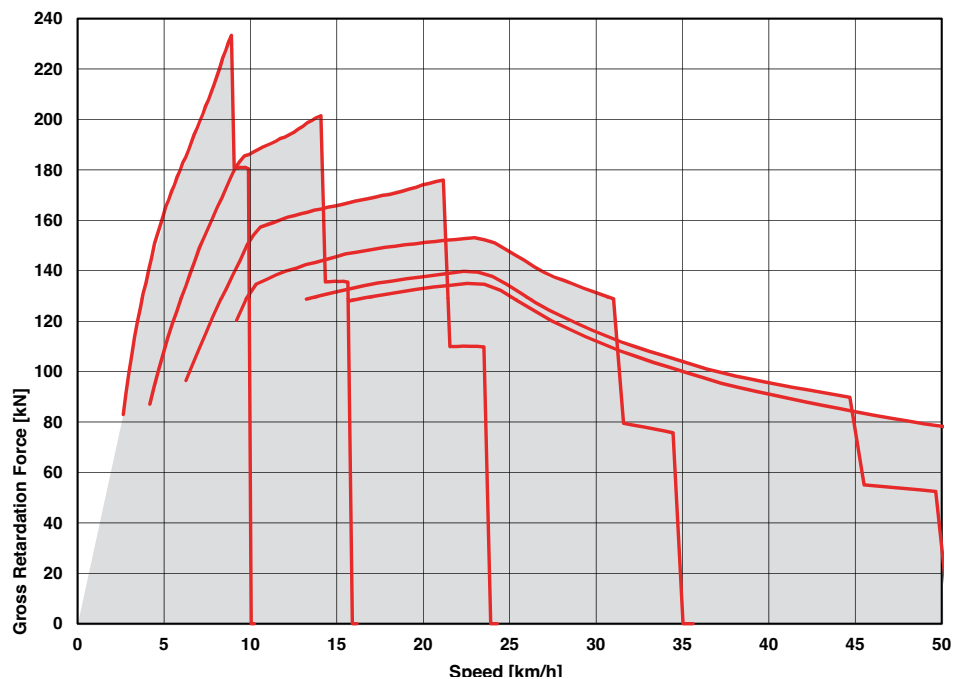


Retardation

1. Determine retardation force required by finding intersection of vehicle mass line.
2. From this intersection, move straight right across charts until line intersects the curve. NOTE: 2% typical rolling resistance is already assumed in chart.
3. Read down from this point to determine maximum speed.



B30E 6x6 27 000 Ltr Water Tanker - Retardation



16 000 L	27 000 L	35 000 L	38 000 L	43 000 L		
					ENGINE	
●	●	●	●	●	Engine valve brake and exhaust brake	
●	●	●	●	●	Dual element air cleaner with dust ejector valve	
●	●	●	●	●	Precleaner with auto dust scavenging	
●	●	●	●	●	Water separator	
●	●	●	●	●	Serpentine drive belt with automatic tensioner	
▲	▲	●	●	●	Provision for fast fill	
▲	▲	●	●	●	Wet-sleeve cylinder liners	
					COOLING	
●	●	●	●	●	Crank-shaft mounted viscous-drive fan	
●	●	●	●	●	Fan guard	
					PNEUMATIC SYSTEM	
●	●	●	●	●	Engine-mounted compressor	
●	●	●	●	●	Air drier with heater	
●	●	●	●	●	Integral unloader valve	
					ELECTRICAL SYSTEM	
●	●	●	●	●	Battery disconnect	
●	●	●	●	●	Drive lights	
●	●	●	●	●	Air horn	
●	●	●	●	●	Reverse alarm	
●	●	●	●	●	White noise reverse alarm	
●	●	●	●	●	Rotating beacon	
●	●	●	●	●	Pitch roll sensor	
●	●	●	●	●	LED drive lights	
●	●	●	●	●	LED artic reverse light	
●	●	●	●	●	LED reverse light	
					STEERING SYSTEM	
●	●	●	●	●	Uni-directional ground-driven secondary steering pump	
▲	▲	▲	▲	▲	Bi-directional ground-driven secondary steering pump	
					CAB	
●	●	●	●	●	ROPS/FOPS certification	
●	●	●	●	●	Tilt cab	
●	●	●	●	●	Gas strut-supported door	
●	●	●	●	●	HVAC Climate control system	
●	●	●	●	●	AM/FM radio/CD player + USB	
●	●	●	●	●	Rear window guard	
●	●	●	●	●	Wiper/washer with intermittent control	
●	●	●	●	●	Tilt and telescoping steering wheel	
●	●	●	●	●	Centre-mount air-suspension seat	
●	●	●	●	●	Halogen work lights	
●	●	●	●	●	LED work lights	
▲	▲	▲	▲	▲	Rotating beacon: seat belt installation	
▲	●	●	●	●	Remote engine and machine isolation	
●	●	●	●	●	Remote battery jump start	
●	●	●	●	●	High visibility mirrors	
●	●	●	●	●	Retractable 3-point seat belt	
●	●	●	●	●	Foldaway trainer seat with retractable seat belt	
					CAB (continued)	
●	●	●	●	●	12-volt power outlet	
●	●	●	●	●	Cup holder	
●	●	●	●	●	Cooled/heated lunch box	
●	●	●	●	●	Utility bin (removable)	
●	●	●	●	●	Manually adjustable mirrors	
●	●	●	●	●	Electric adjustable & heated mirrors	
●	●	●	●	●	Deluxe 10" colour LCD:	
					Speedometer / Fuel gauge /	
					Transmission oil temperature gauge /	
					Engine coolant temperature gauge /	
					LED function/warning indicators and	
					audible alarm / Transmission gear	
					selection / Tachometer / Battery	
					voltage / Hour meter / Odometer /	
					Fuel consumption / Trip timer /	
					Trip distance / Metric/English units /	
					Service codes/diagnostics	
●	●	●	●	●	Backlit sealed switch module	
					functions with:	
					Wiper control / Lights / Heated mirrors /	
					Retarding aggressiveness / Transfer	
					case differential lock / Transmission	
					gear hold / Airconditioner/ Heater	
					controls / Preselected Speed Control	
●	●	●	●	●	Backlit Plumbing sealed switch module	
					functions with:	
					Battery / Spray / Pulse / Tank fill /	
					Hose reel / Pump / Dribble bar	
					PLUMBING	
●	●	●	●	●	Dribble bar	
▲	▲	●	●	●	1 800 lpm 50 m head pump	
●	●	●	●	●	5 400 lpm 70 m head pump*	
▲	▲	▲	▲	▲	Pressurised dribble bar system	
					Pressurised dribble bar system with	
					nozzles	
●	●	●	●	●	Spray valves (in-cab activation)	
●	●	●	●	●	Batter spray valves	
●	●	●	●	●	Fold down top rails	
▲	▲	▲	▲	▲	Suction pipe for filling from dam	
●	●	●	●	●	Step ladder access	
●	●	●	●	●	Inspection access	
●	●	●	●	●	Remote control water cannon	
●	●	●	●	●	Hose reel	
					OTHER	
●	●				23.5 R 25 tyres	
▲					620/75 R26 tyres	
		●	●	▲	29.5 R 25 Radial Earthmover tyres	
		▲	▲	●	875/65 R 29 Radial Earthmover tyres	
●	●	●	●	●	Automatic greasing	
●	●	●	●	●	Cab peak	
●	●	●	●	●	Belly cover	
●	●	●	●	●	Handrails	
●	●	●	●	●	Remote transmission filter	
●	●	●	●	●	Reverse camera	

* (Option only): Larger centrifugal pump available if suction pipe option is not fitted.

FEATURES OF THE ARTICULATED WATER TRUCK

- **PRODUCTIVE:** Powerful built-for hauling ADT drivetrains are well matched for pulling and retarding heavy loads. Nitrogen over oil strut suspension smooths the ride for operator and machine.
- **ECONOMY:** Modern fuel efficient engine, lockup torque converter and planetary transmission deliver more work per unit of fuel used
- **EASY TO OPERATE:** High quality cab is conducive to operator care. Simple to use controls and electronic interfaces protect the machine from accidental misuse.

BATTER SPRAYS

- Two additional spray valves that expand the spray patterns reach on the sides of the tank
- Remotely activated from inside the cab



HOSE REEL

- 25 m hose reel
- Adjustable fog/stream nozzle
- Spring retractable



DRIBBLE BAR

- Gravity fed dribble bar
- Remotely activated from inside the cab
- Even spread pattern covering the width of the vehicle



PENETRATION SPRAY BARS

- Available with nozzles or holes
- Remotely activated from inside the cab
- Pressurised by the pump to create a jet of water



REMOTE WATER CANNON

- Adjustable fog/stream pattern
- A variety of flow settings
- Remotely controlled via a joystick inside the cab
- High quality components built to last in heavy duty applications

