

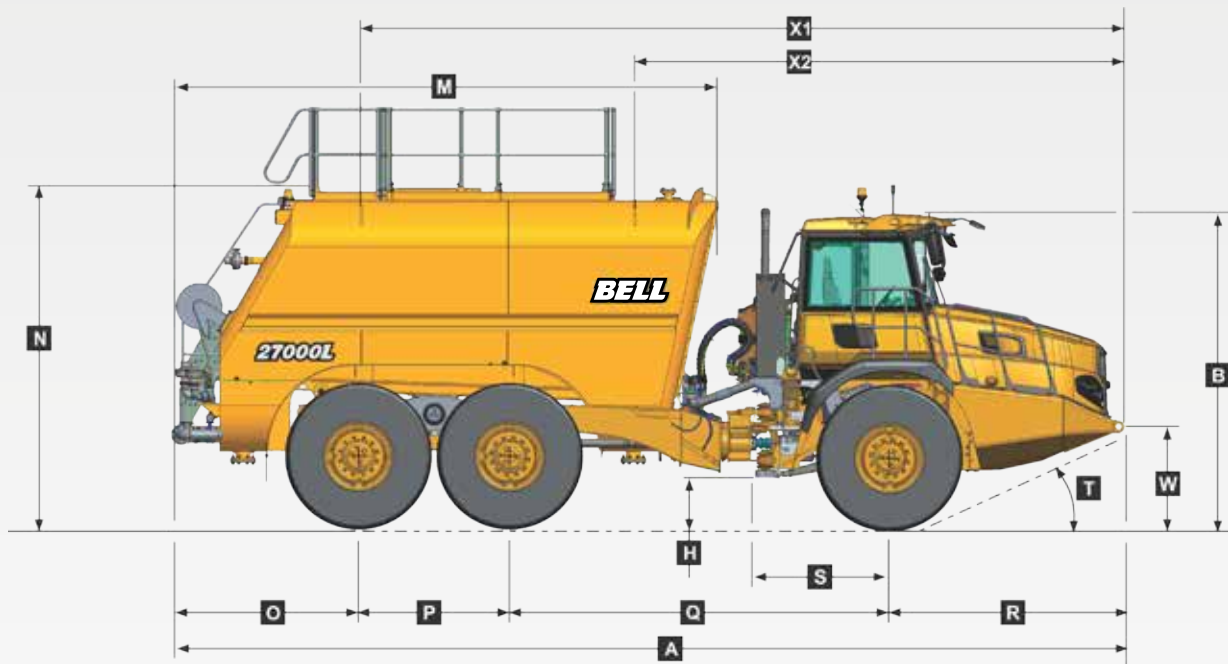
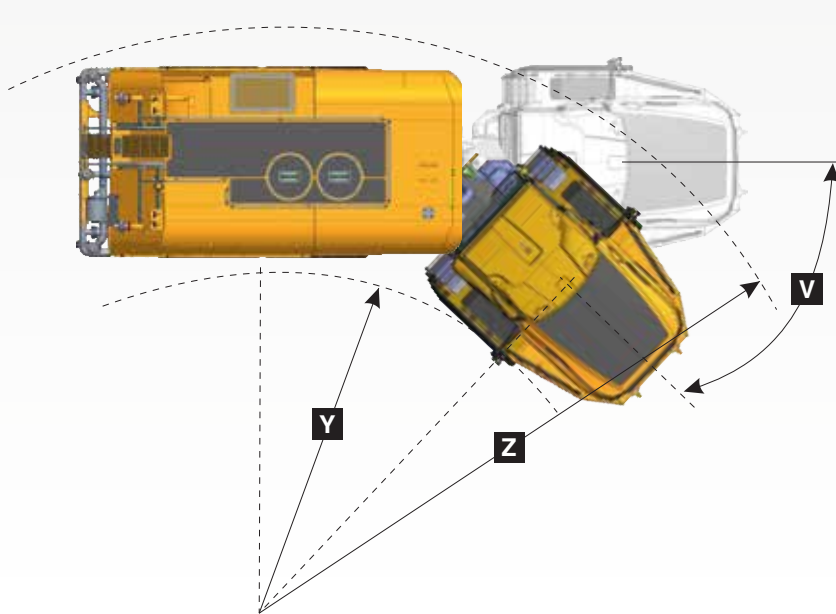
B30E 6x6 27 000 L Articulated Water Truck

ENGINE	TRANSFER CASE	WHEELS	DUMPING SYSTEM
Manufacturer Mercedes Benz	Manufacturer Kessler	Type Radial Earthmover	Two double-acting, single stage, dump cylinders
Model OM936LA	Series W1400	Tyre 23.5 R 25 (750/65 R 25 optional)	Raise Time 12 s
Configuration Inline 6, turbocharged and intercooled	Layout Remote mounted	FRONT SUSPENSION Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts. Optional active dual springrate Comfort Ride suspension available, including height control.	Lowering Time 10 s
Maximum Net Power 260 kW (348 hp) at 1 800 rpm in accordance with UN ECE R120	Gear Layout Three in-line helical gears		Tipping Angle 70° standard, or any lower angle programmable
Gross Torque 1 450 Nm (1 069 lbft) @ 1 200 - 1 600 rpm	Output Differential Interaxle 33/67 proportional differential. Automatic inter-axle differential lock.	REAR SUSPENSION Pivoting walking beams with laminated rubber suspension blocks. Optional passive dual-springrate Comfort Ride walkingbeam available.	PNEUMATIC SYSTEM Air drier with heater and integral unloader valve, serving park brake and auxiliary functions.
Displacement 7,7 litres (469 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.	System Pressure 8,1 Bar (117 psi)
Auxiliary Brake Compression brake	Model 18T		ELECTRICAL SYSTEM Voltage 24 V
Fuel Tank Capacity 302 litres (79.78 US gal)	Differential High input limited slip differential with spiral bevel gears		Battery Type Two AGM (Absorption Glass Mat) type
AdBlue® Tank Capacity 31 L (8.2 US gal)	Final Drive Outboard heavy duty planetary on all axles		Battery Capacity 2 X 75 Ah
Certification OM936LA meets EU Stage V / EPA Tier 4 Final emissions regulations.	BRAKING SYSTEM Service Brake Dual circuit, full hydraulic actuation wet disc brakes on front, middle and rear axles. Wet brake oil is circulated through a filtration and cooling system.	Pump Type Variable displacement load sensing piston	Alternator Rating 28V 100A
TRANSMISSION		Flow 202 L/min (53 gal/min)	VEHICLE SPEEDS
Manufacturer Allison		Pressure 310 Bar (4 500 psi)	1st 7 km/h 4 mph
Model 3400P ORS		Filter 5 microns	2nd 15 km/h 9 mph
Configuration Fully automatic planetary transmission	Park & Emergency Spring applied, air released driveline mounted disc		3rd 23 km/h 14 mph
Layout Engine mounted		STEERING SYSTEM Double acting cylinders, with ground-driven emergency steering pump.	4th 35 km/h 22 mph
Gear Layout Constant meshing planetary gears, clutch operated	Maximum brake force: 174 kN (39 116 lbf)	Lock to lock turns 4,1	5th 47 km/h 29 mph
Gears 6 Forward, 1 Reverse	Auxiliary Brake Jacobs Engine Brake®. Automatic retardation through electronic activation of wet brake system.	Steering Angle 45°	6th 50 km/h 31 mph
Clutch Type Hydraulically operated multi-disc	Total Retardation Power 335kW (449 hp) Continuous 494kW (662 hp) Maximum		R 7 km/h 4 mph
Control Type Electronic			WATER TANKER PLUMBING Centrifugal water pump
Torque Control Hydrodynamic with lock-up in all gears			Rate of Flow Standard: 1 800 L/min with 50 m head Option: 5 400 L/min with 70 m head
			CAB ROPS/FOPS certified 74 dBA internal sound pressure measured according to ISO 6396.

Load Capacity & Ground Pressure

OPERATING WEIGHTS		GROUND PRESSURE		LOAD CAPACITY	
UNLADEN		LADEN (No sinkage)		Rated Payload	27 000 litres (7 100 gallons)
	kg (lb)	23.5 R 25	kPa (Psi)		
Total	26 043 (57 415)	Front	280 (41)		
		Middle	378 (55)		
		Rear	378 (55)		
LADEN					
	kg (lb)				
Front	13 736 (30 283)				
Middle	19 221 (42 375)				
Rear	19 704 (43 440)				
Total	52 661 (116 097)				

Dimensions

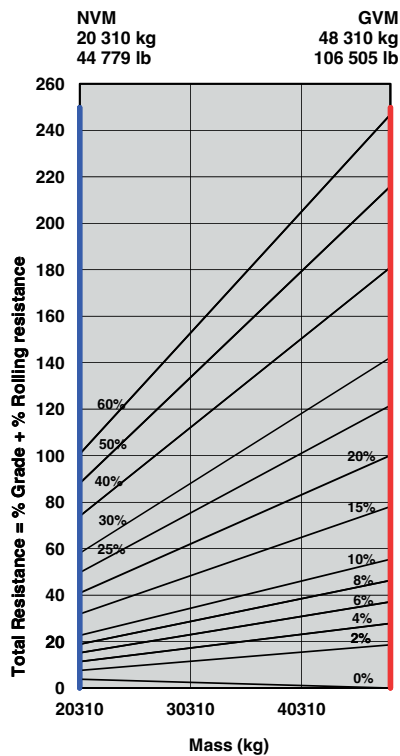


Machine Dimensions

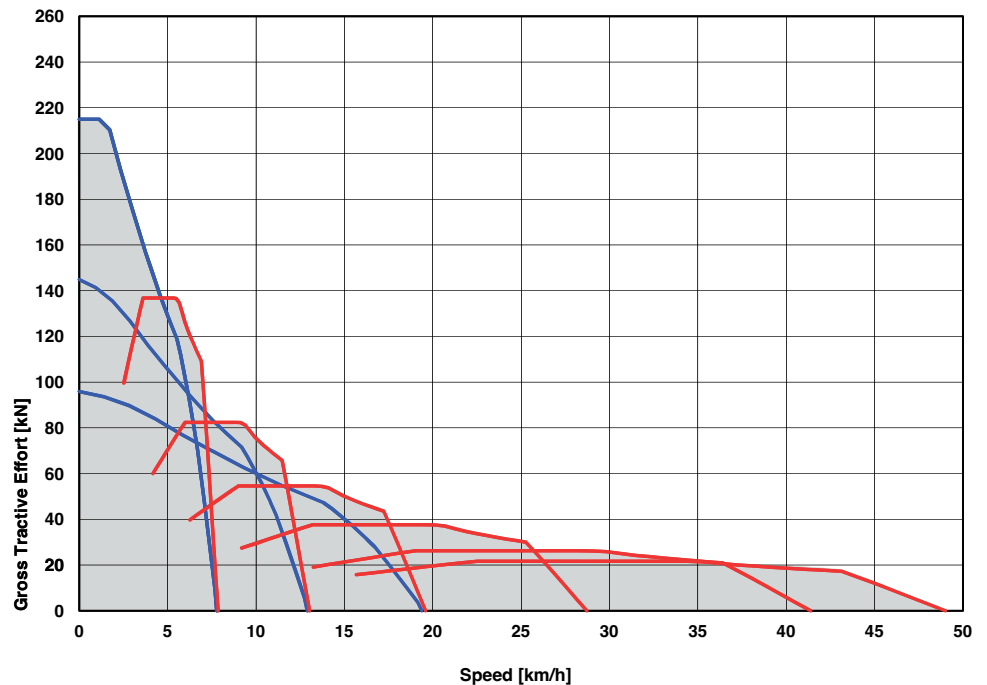
A	Length - Transport Position	10 525 mm	(34 ft. 6 in.)	P	Mid Axle Centre to Rear Axle Centre	1 670 mm	(5 ft. 6 in.)
B	Height - Transport Position	3 436 mm	(11 ft. 3 in.)	Q	Mid Axle Centre to Front Axle Centre	4 181 mm	(13 ft. 9 in.)
C	Width over Mudguards	2 985 mm	(9 ft. 6 in.)	R	Front Axle Centre to 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. 6.5 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.

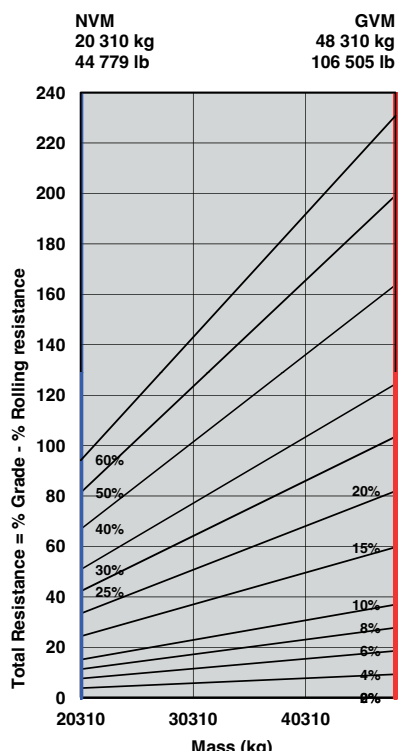


B30E 6x6 27 000 Ltr Water Tanker - Tractive Effort

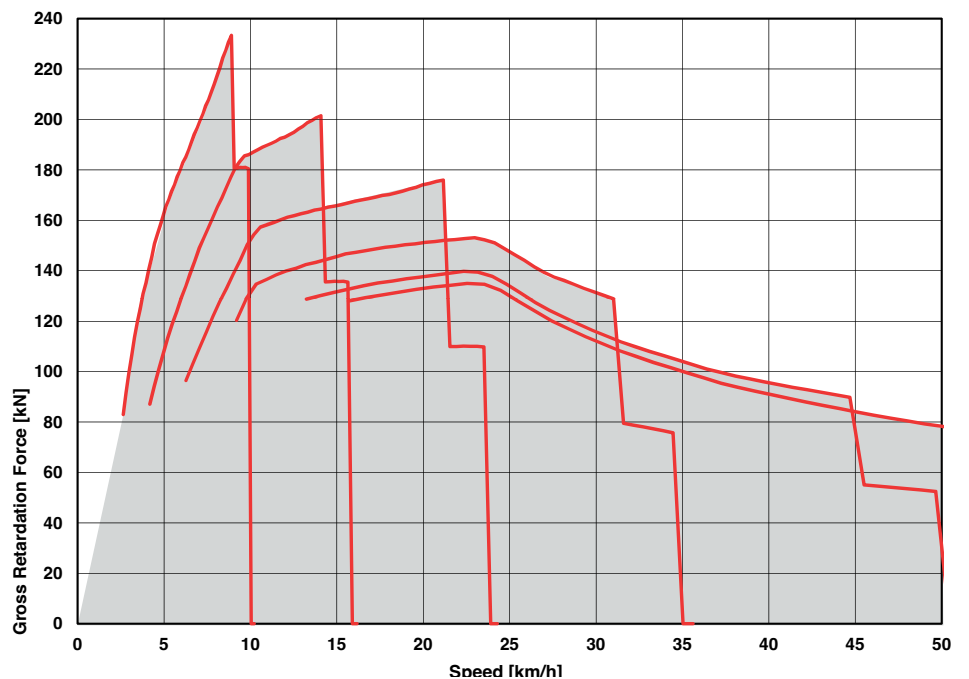


Retardation

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



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
- ▲ Halogen artic reverse light
- ▲ 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
- 12-volt power outlet
- Cup holder
- Cooled/heated lunch box

CAB (continued)

- 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 L/min 50 m head pump
- ▲ 5 400 L/min 70 m head pump*
- ▲ 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
- ▲ Manual water canon
- ▲ Remote control water canon
- ▲ Hose reel

OTHER

- 23.5 R 25 tyres
- Remote grease banks
- ▲ Automatic greasing
- Cab peak
- ▲ High pressure hydraulic filter
- ▲ Fuel heater
- 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.

| **Water Tanker** Features and Options

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

- 30m hose reel
- 1.5" 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 between 250 and 700 GPM
- Remotely controlled via a joystick inside the cab
- High quality components built to last in heavy duty applications

MANUAL WATER CANNON

- Long range spray nozzle
- High quality components built to last in heavy duty applications

