

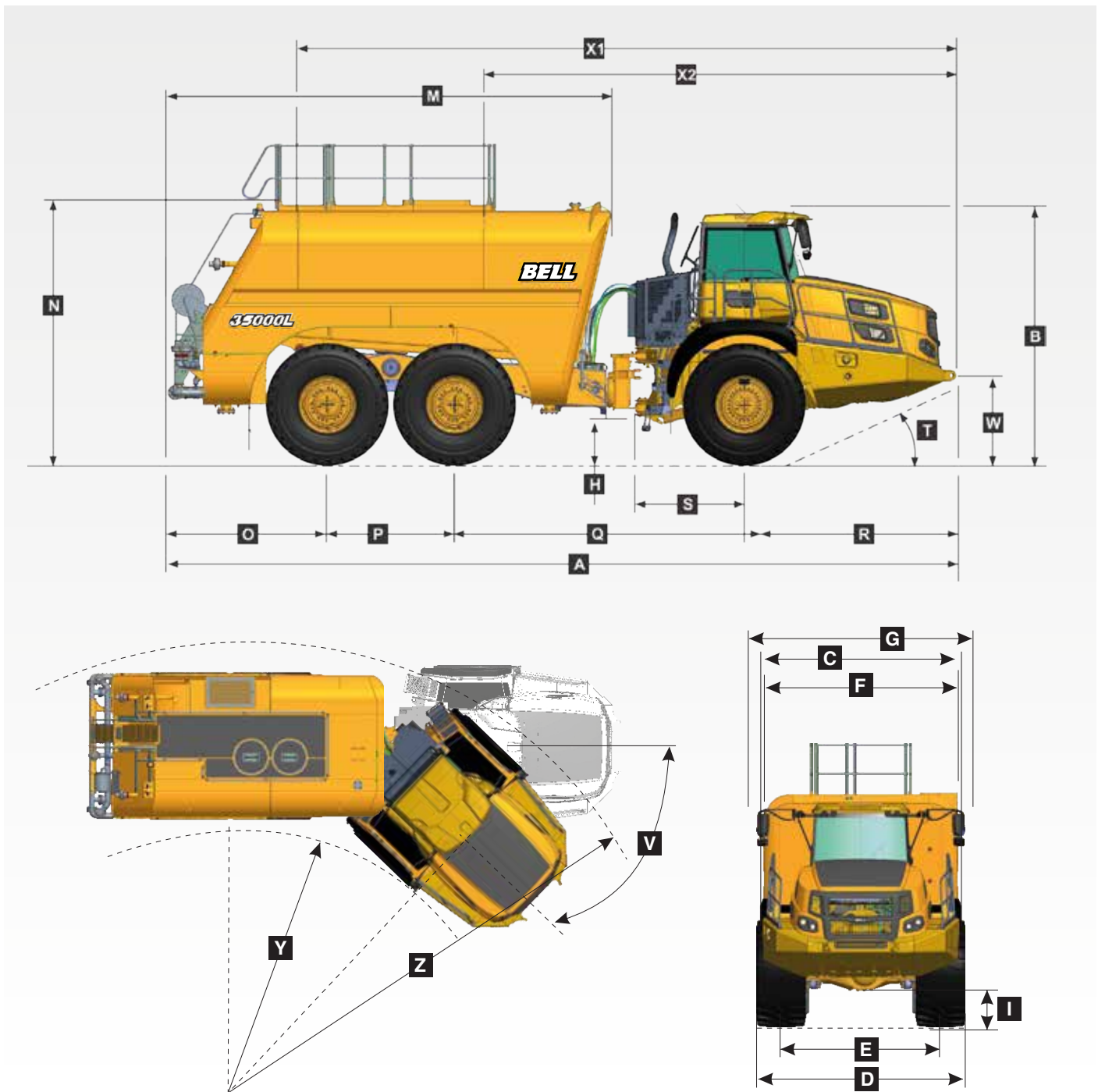
B40E 6x6 35 000 L Articulated Water Truck

ENGINE	TRANSFER CASE	WHEELS	PNEUMATIC SYSTEM
Manufacturer Mercedes Benz (MTU)	Manufacturer Kessler	Type Radial Earthmover	Air drier with heater and integral unloader valve, serving park brake and auxiliary functions
Model OM471LA (MTU 6R 1300)	Model W2400	Tyre 29.5 R 25 (875/65 R 29 optional)	System Pressure 810 kPa (117 psi)
Configuration Inline 6, turbocharged and intercooled	Layout Remote mounted	FRONT SUSPENSION Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts Option: Electronically controlled adaptive suspension with ride height adjustment	ELECTRIC SYSTEM
Net Power 380 kW (510 hp) @ 1 600 rpm	Gear Layout Three in-line helical gears	REAR SUSPENSION Pivoting walking beams with laminated rubber suspension blocks Option: Comfort Ride suspension walking beams, with two-stage sandwich block	Voltage 24 V
Gross Torque 2 600 Nm (1 918 lbft) @ 1 300 rpm	Output Differential Interaxle 29/71 proportional differential. Automatic inter-axle differential lock.	HYDRAULIC SYSTEM Full load sensing system serving the prioritised steering, body tipping and brake functions. A ground-driven, load sensing emergency steering pump is integrated into the main system.	Battery Type Two AGM (Absorption Glass Mat) type
Displacement 12,8 litres (781 cu.in)	AXLES		Battery Capacity 2 X 75 Ah
Auxiliary Brake Jacobs Engine Brake®	Manufacturer Bell		Alternator Rating 28V 80A
Fuel Tank Capacity 533 litres (140.8 US gal)	Model 30T		MAX VEHICLE SPEED
Certification OM471LA (MTU 6R 1300) is EU Stage IIIA / EPA Tier 3 emission level equivalent	Differential High input controlled traction differential with spiral bevel gears		1st 4 km/h 2,5 mph
TRANSMISSION	Final Drive Outboard heavy duty planetary on all axles		2nd 9 km/h 6 mph
Manufacturer Allison			3rd 17 km/h 11 mph
Model 4700 ORS	BRAKING SYSTEM		4th 23 km/h 14 mph
Configuration Fully automatic planetary transmission	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.		5th 33 km/h 21 mph
Layout Engine mounted	Maximum brake force: 305 kN (68 567 lbf)	Pump Type Variable displacement load sensing piston	6th 44 km/h 27,3 mph
Gear Layout Constant meshing planetary gears, clutch operated	Park & Emergency Spring applied, air released driveline mounted disc	Flow 330 L/min (87 gal/min)	7th 51 km/h 32 mph
Gears 7 Forward, 1 reverse	Maximum brake force: 218 kN (49 008 lbf)	Pressure 315 Bar (4 569 psi)	R 7 km/h 4 mph
Clutch Type Hydraulically operated multi-disc	Auxiliary Brake Jacobs Engine Brake®. Automatic retardation through electronic activation of wet brake system.	Filter 5 microns	WATER TANKER PLUMBING
Control Type Electronic		STEERING SYSTEM Double acting cylinders, with ground-driven emergency steering pump	Centrifugal water pump
Torque Control Hydrodynamic with lock-up in all gears	Total Retardation Power Continuous: 442 kW (593 hp) Maximum: 854 kW (1 145 hp)	Lock to lock turns 5	Rate of Flow 5 400 L/min
		Steering Angle 42°	Head 70 m
			CAB ROPS/FOPS certified 76 dBA internal sound level measured according to ISO 6396

Load Capacity & Ground Pressure

OPERATING WEIGHTS		GROUND PRESSURE		LOAD CAPACITY	
UNLADEN		LADEN (No sinkage/Total Contact Area Method)			
	kg (lb)	29.5 R 25	kPa (Psi)		
Front	15 743 (34 707)	Front	310 (45)	Rated Payload	35 000 litres (9 250 gallons)
Middle	10 046 (22 147)	Middle	341 (50)		
Rear	9 528 (21 005)	Rear	341 (50)		
Total	35 317 (77 859)				
LADEN					
Front	18 342 (40 438)	875/65 R29	kPa (Psi)		
Middle	27 391 (60 386)	Front	293 (43)		
Rear	27 584 (60 811)	Middle	329 (48)		
Total	73 317 (161 636)	Rear	329 (48)		

Dimensions

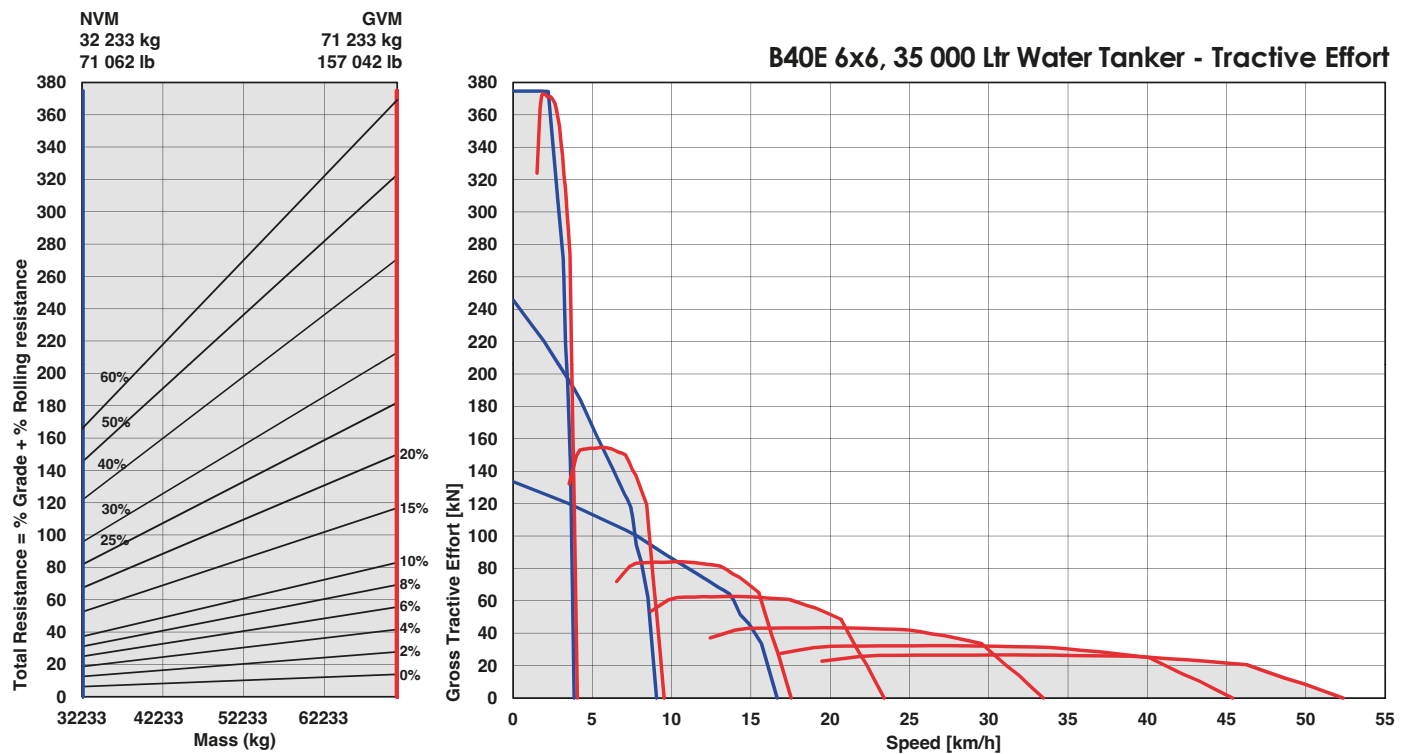


Machine Dimensions

A	Length - Transport Position	12 084 mm	(39 ft. 8 in.)	O	Rear Axle Centre to Bowser / Tank Rear	2 443 mm	(8 ft. 0 in.)
B	Height - Transport Position	3 802 mm	(12 ft. 6 in.)	P	Mid Axle Centre to Rear Axle Centre	1 950 mm	(6 ft. 5 in.)
C	Width over Mudguards	3 495 mm	(11 ft. 6 in.)	Q	Mid Axle Centre to Front Axle Centre	4 438 mm	(14 ft. 7 in.)
D	Width over Tyres - 875/65 R29	3 656 mm	(11 ft. 12 in.)	R	Front Axle Centre to Machine Front	3 255 mm	(10 ft. 8 in.)
D	Tyre Track Width - 29.5R25	3 487 mm	(11 ft. 5 in.)	S	Front Axle Centre to Artic Centre	1 558 mm	(5 ft. 1 in.)
E	Tyre Track Width - 875/65 R29	2 773 mm	(9 ft. 1 in.)	T	Approach Angle	24°	
E	Tyre Track Width - 29.5R25	2 725 mm	(8 ft. 11 in.)	V	Maximum Articulation Angle	42°	
F	Width over Tank / Bowser	3 379 mm	(11 ft. 1 in.)	W	Front Tie Down Height	1 265 mm	(4 ft. 2 in.)
F	Width over Tank / Bowser (with hose)	3 529 mm	(11 ft. 5 in.)	X1	Tank Lifting Centres	10 023 mm	(32 ft. 10 in.)
G	Width over Mirrors - Operating Position	3 614 mm	(11 ft. 10 in.)	X2	Front Lifting Centres to Tank Lifting Centre	7 173 mm	(23 ft. 6 in.)
H	Ground Clearance - Artic	545 mm	(1 ft. 9 in.)	Y	Inner Turning Circle Radius - 875/65 R29	4 782 mm	(15 ft. 8 in.)
I	Ground Clearance - Front Axle	545 mm	(1 ft. 9 in.)	Y	Inner Turning Circle Radius - 29.5R25	4 866 mm	(15 ft. 12 in.)
M	Tank / Bowser Length	6 797 mm	(22 ft. 4 in.)	Z	Outer Turning Circle Radius - 875/65 R29	9 320 mm	(30 ft. 7 in.)
N	Maximum Tank Height	4 002 mm	(13 ft. 2 in.)	Z	Outer Turning Circle Radius - 29.5R25	9 235 mm	(30 ft. 4 in.)

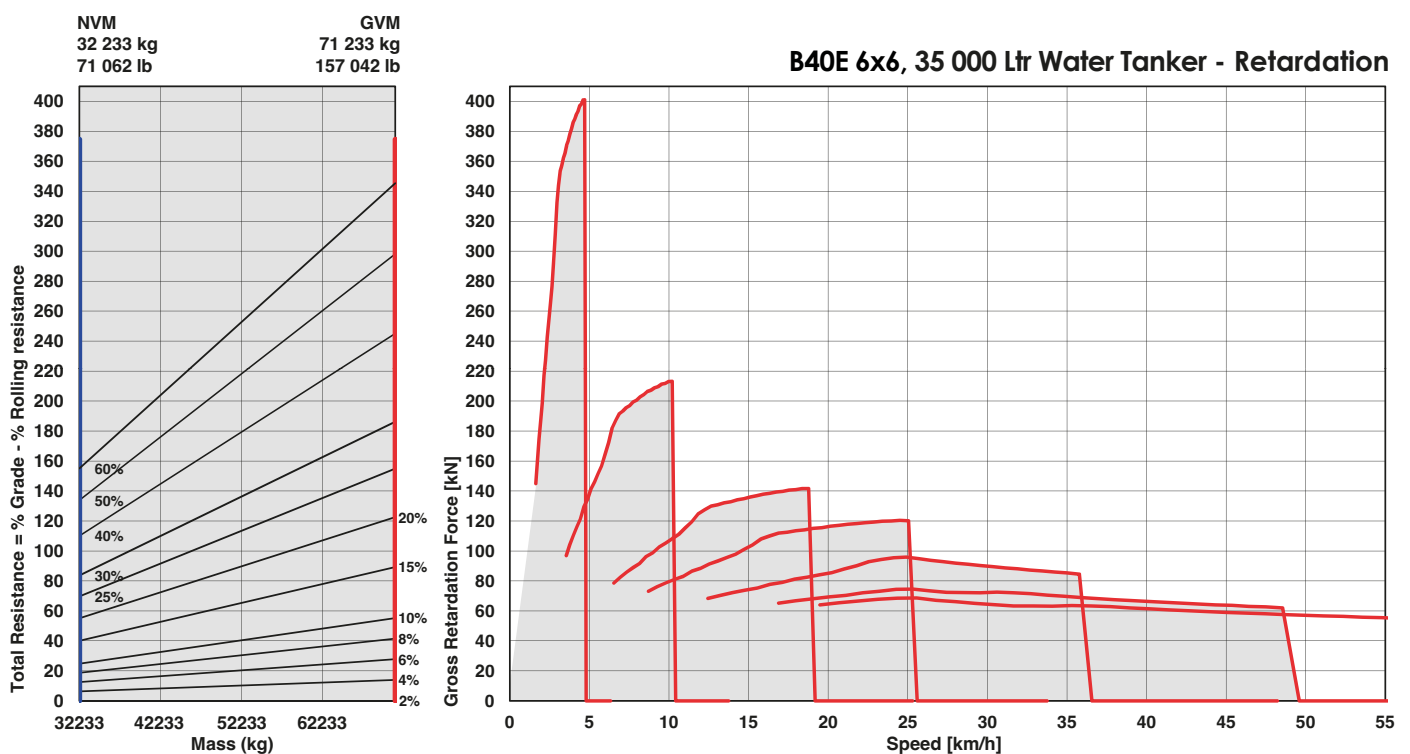
Gradeability/Rimpull

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.



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.



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

