

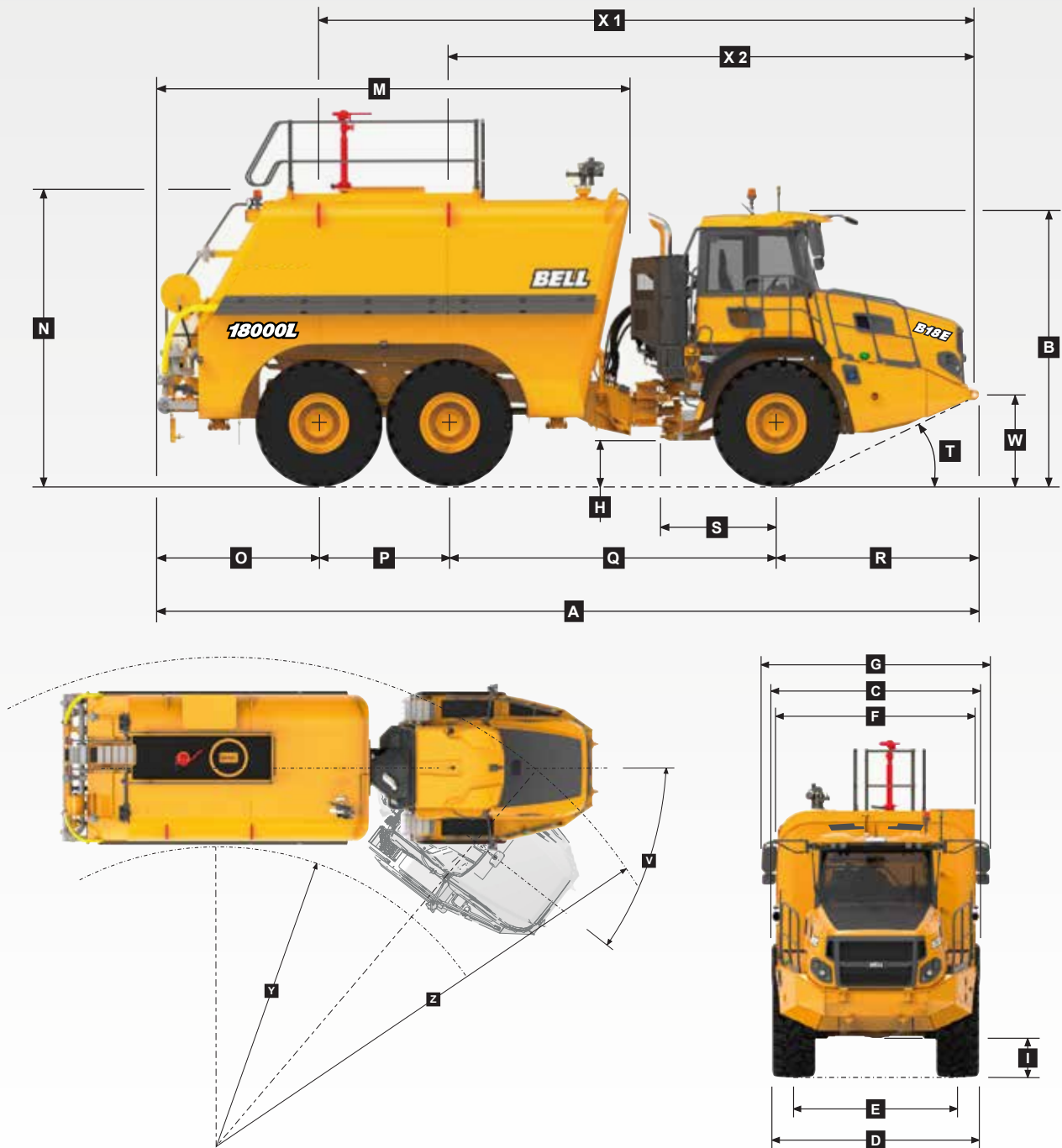
B18E 6x4 18 000 L Articulated Water Tanker

<p>ENGINE</p> <p>Manufacturer Mercedes Benz</p> <p>Model OM924LA</p> <p>Configuration Inline 4, turbocharged and intercooled.</p> <p>Net Power 163 kW (219 hp) @ 2 200 rpm in accordance with UN ECE R120</p> <p>Gross Torque 810 Nm (597 lbft) @ 1 200 -1 600 rpm</p> <p>Displacement 4,80 litres (293 cu.in)</p> <p>Auxiliary Brake Exhaust Valve Brake Engine Valve Brake</p> <p>Fuel Tank Capacity 195 litres (53 US gal)</p> <p>Certification OM924LA meets Euro III emissions regulations</p>	<p>TRANSFER CASE</p> <p>Manufacturer Kessler</p> <p>Series W1400</p> <p>Layout Remote mounted</p> <p>Gear Layout Three in-line helical gears</p> <p>Output Differential Interaxle 33/67 proportional differential. Automatic inter-axle differential lock.</p>	<p>99kW (133 hp) Maximum non-retarder. 505kW (677 hp) Maximum retarder.</p>	<p>RAISE TIME 10 s</p> <p>Lowering Time 5,5 s</p> <p>Tipping Angle 70° standard, or any lower angle programmable</p>																					
<p>TRANSMISSION</p> <p>Manufacturer Allison</p> <p>Model Standard Non Retarder: 3000P ORS Optional Retarder: 3000PR ORS</p> <p>Configuration Fully automatic planetary transmission with integral retarder.</p> <p>Layout Engine mounted</p> <p>Gear layout Constant meshing planetary gears, clutch operated</p> <p>Gears 6 Forward, 1 Reverse</p> <p>Clutch Type Hydraulically operated multidisc</p> <p>Control Type Electronic</p> <p>Torque Control Hydrodynamic with lock-up in all gears</p>	<p>AXLES</p> <p>Manufacturer Bell</p> <p>Model 15T</p> <p>Differential High input limited slip differential with spiral bevel gears.</p> <p>Final Drive Outboard heavy duty planetary on all axles</p>	<p>WHEELS</p> <p>Type Radial Earthmover</p> <p>Tyre 20.5 R 25</p>	<p>PNEUMATIC SYSTEM Air drier with heater and integral unloader valve, serving park brake and auxiliary functions.</p> <p>System Pressure 810 kPa (117 psi)</p>																					
<p>BRAKING SYSTEM</p> <p>Service Brake Dual circuit, full hydraulic actuation dry disc brakes with 8 calipers (4F, 2M, 2R).</p> <p>Maximum brake force: 244 kN (54 720 lbf)</p> <p>Park & Emergency Spring applied, air released driveline mounted disc.</p> <p>Maximum brake force: 182 kN (40 802 lbf)</p> <p>Auxiliary Brake Automatic exhaust valve brake and engine valve brake. Optional automatic, adjustable, integral, hydrodynamic transmission retarder. Output shaft speed dependant.</p> <p>Total Retardation Power 99kW (133 hp) Continuous non-retarder. 144kW (193 hp) Continuous retarder.</p>	<p>FRONT SUSPENSION Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts.</p> <p>REAR SUSPENSION Pivoting walking beams with laminated rubber suspension blocks</p> <p>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.</p> <p>Pump Type Variable displacement load sensing piston</p> <p>Flow 155 l/min (41,5 gal/min)</p> <p>Pressure 27 MPa (3 915 psi)</p> <p>Filter 5 microns</p>	<p>STEERING SYSTEM Double-acting cylinders with ground driven emergency steering pump.</p> <p>Lock to lock turns 4,32</p> <p>Steering Angle 45°</p> <p>DUMPING SYSTEM Two double-acting, single stage, dump cylinders</p>	<p>ELECTRICAL SYSTEM</p> <p>Voltage 24 V</p> <p>Battery Type Two AGM (Absorption Glass Mat) type</p> <p>Battery Capacity 2 X 75 Ah</p> <p>Alternator Rating 28 V 80 A</p>																					
			<p>VEHICLE SPEEDS</p> <table border="1"> <tr><td>1st</td><td>11 km/h</td><td>7 mph</td></tr> <tr><td>2nd</td><td>20 km/h</td><td>12 mph</td></tr> <tr><td>3rd</td><td>27 km/h</td><td>17 mph</td></tr> <tr><td>4th</td><td>38 km/h</td><td>24 mph</td></tr> <tr><td>5th</td><td>50 km/h</td><td>31 mph</td></tr> <tr><td>6th</td><td>50 km/h</td><td>31 mph</td></tr> <tr><td>R</td><td>7 km/h</td><td>4 mph</td></tr> </table>	1st	11 km/h	7 mph	2nd	20 km/h	12 mph	3rd	27 km/h	17 mph	4th	38 km/h	24 mph	5th	50 km/h	31 mph	6th	50 km/h	31 mph	R	7 km/h	4 mph
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			<p>WATER TANK</p> <p>Tank capacity 18 000 Litres</p>																					
			<p>WATER TANKER PLUMBING</p> <p>Centrifugal water pump</p> <p>Rate of Flow Standard: 1 800 L/min with 50 m head Option: 5 400 L/min with 70 m head</p>																					
			<p>CAB</p> <p>ROPS/FOPS certified 71 dBA internal sound level measured according to ISO 6396.</p>																					

Load Capacity & Ground Pressure

OPERATING WEIGHTS		GROUND PRESSURE		LOAD CAPACITY	
UNLADEN - Tare**		LADEN (No sinkage/Total Contact Area Method)		Rated Payload	18 000 litres (4 700 gallons)
	kg (lb)	20.5 R 25	kPa (Psi)		
Total	19 651 (43 323)	Front	236 (34,2)		
		Middle	310 (45)		
		Rear	310 (43)		
LADEN					
	kg (lb)				
Front	8 613 (18 988)				
Middle	14 453 (31 863)				
Rear	14 130 (31 151)				
Total	37 195 (82 001)				

Dimensions

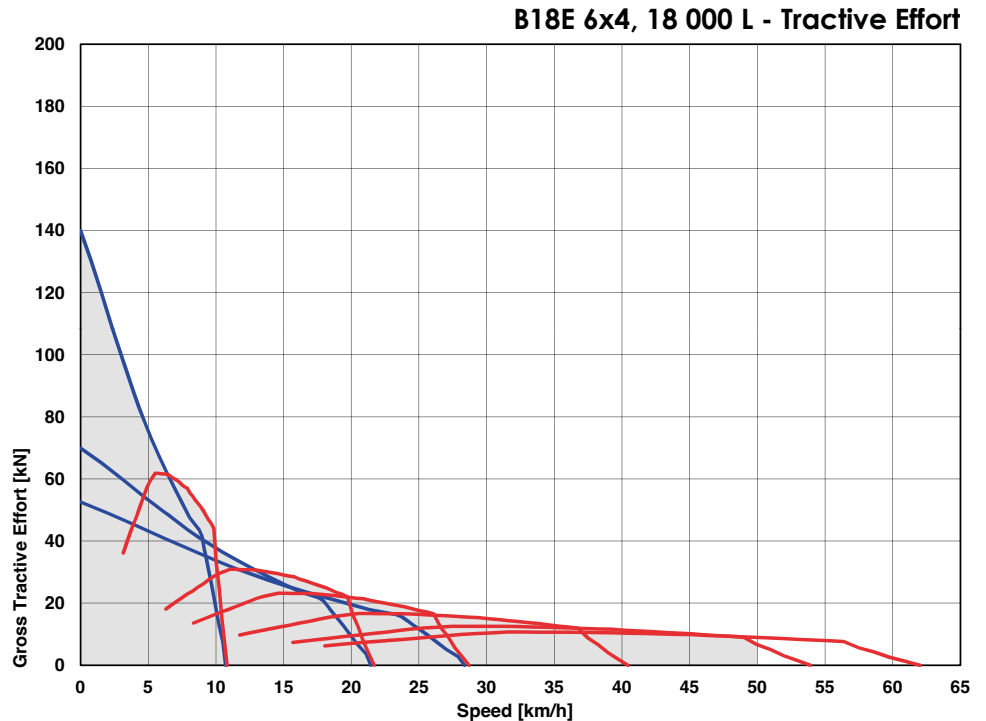
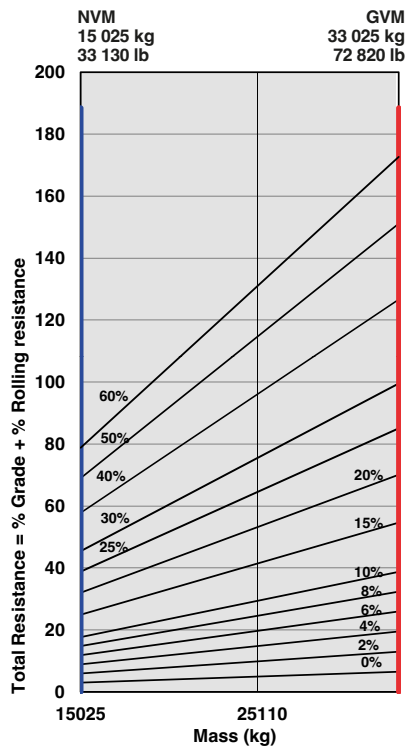


Machine Dimensions

A	Length - Transport Position	9 932 mm	(29 ft. 4 in.)	O	Rear Axle Centre to Bowser / Tank Rear	2 108 mm	(6 ft. 5 in.)
B	Height - Transport Position	3 454 mm	(11 ft. 3 in.)	P	Mid Axle to Rear Axle Centre	1 600 mm	(5 ft. 3 in.)
C	Width over Mudguards	2 568 mm	(9 ft. 9 in.)	Q	Mid Axle Centre to Front Axle Centre	3 865 mm	(14 ft. 5 in.)
D	Width over Tyres-23.5R25	2 550 mm	(9 ft. 7 in.)	R	Front Axle Centre to Machine Front	2 357 mm	(8 ft. 6 in.)
E	Tyre Track Width-23.5R25	2 022 mm	(7 ft. 8 in.)	S	Front Axle Centre to Artic Centre	1 361 mm	(4 ft. 5 in.)
F	Width over Tank / Bowser	2 491 mm	(9 ft. 4 in.)	T	Approach Angle	26°	
F	Width over Tank / Bowser (with hose)	2 570 mm	(10 ft. 8 in.)	V	Maximum Articulation Angle	45°	
G	Width over Mirrors - Operating Position	3 260 mm	(10 ft. 8 in.)	W	Front Tie Down Height	1 028 mm	(3 ft. 7 in.)
H	Ground Clearance - Artic	479 mm	(22.17 in.)	X1	Tank Lifting Centres	7 833 mm	(22 ft. 11 in.)
I	Ground Clearance - Front Axle	444 mm	(18.5 in.)	X2	Machine Lifting Centres	6 207 mm	(15 ft. 11 in.)
M	Tank / Bowser Length	5 624 mm	(11 ft. 1 in.)	Y	Inner Turning Circle Radius - 23.5R25	3 954 mm	(11 ft. 5 in.)
N	Maximum Tank Height	3 343 mm	(10 ft. 1 in.)	Z	Outer Turning Circle Radius - 23.5R25	7 309 mm	(23 ft. 6 in.)

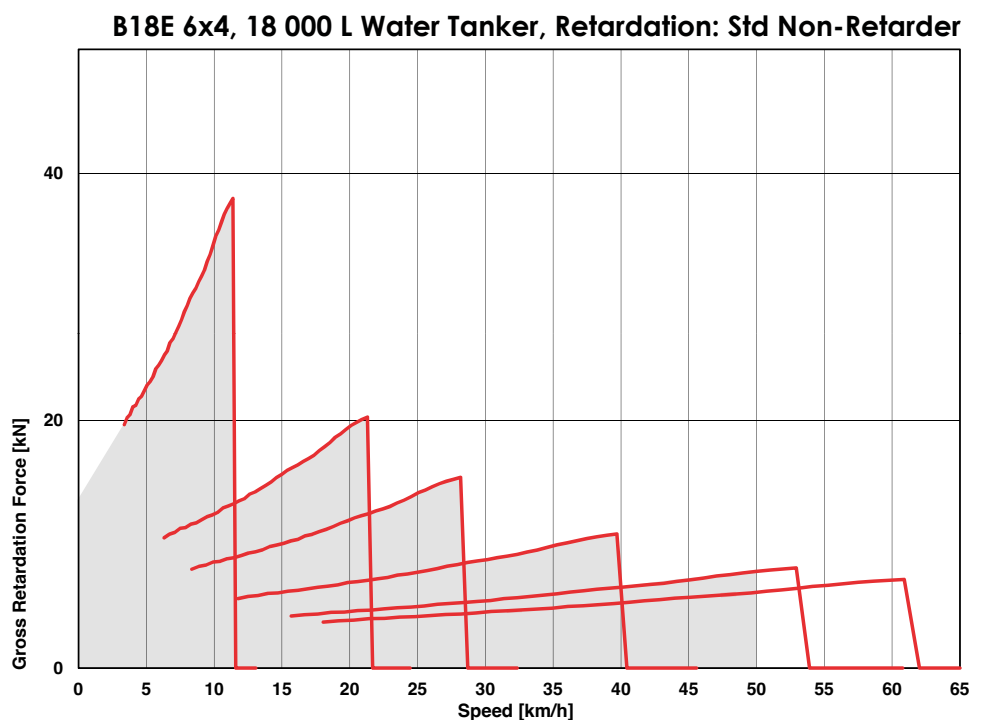
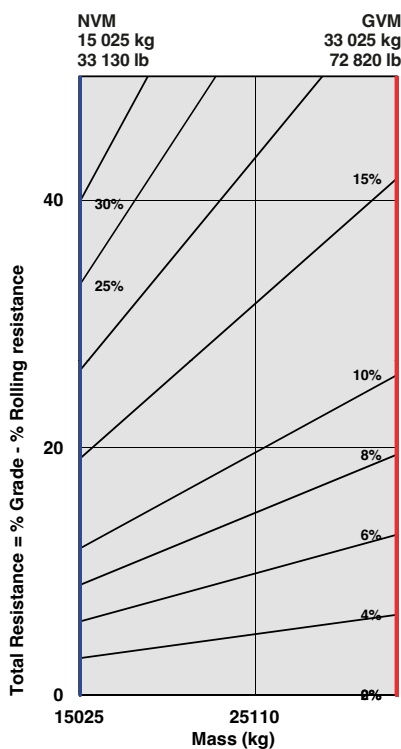
Gradeability/Rimpull

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.





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



16 000 L	18 000 L	23 000 L	27 000 L	35 000 L	38 000 L	45 000 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
▲	▲	▲	▲	●	●	●	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
							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 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
●	●	●	●	●	●	●	20.5 R 25 Radial earthmover tyres
▲	●	●	●	●	●	●	23.5 R 25 tyres
●	●	●	●	●	●	●	620/75 R26 tyres
●	●	●	●	●	●	▲	29.5 R 25 Radial Earthmover tyres
●	●	●	●	●	▲	●	875/65 R 29 Radial Earthmover 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.