

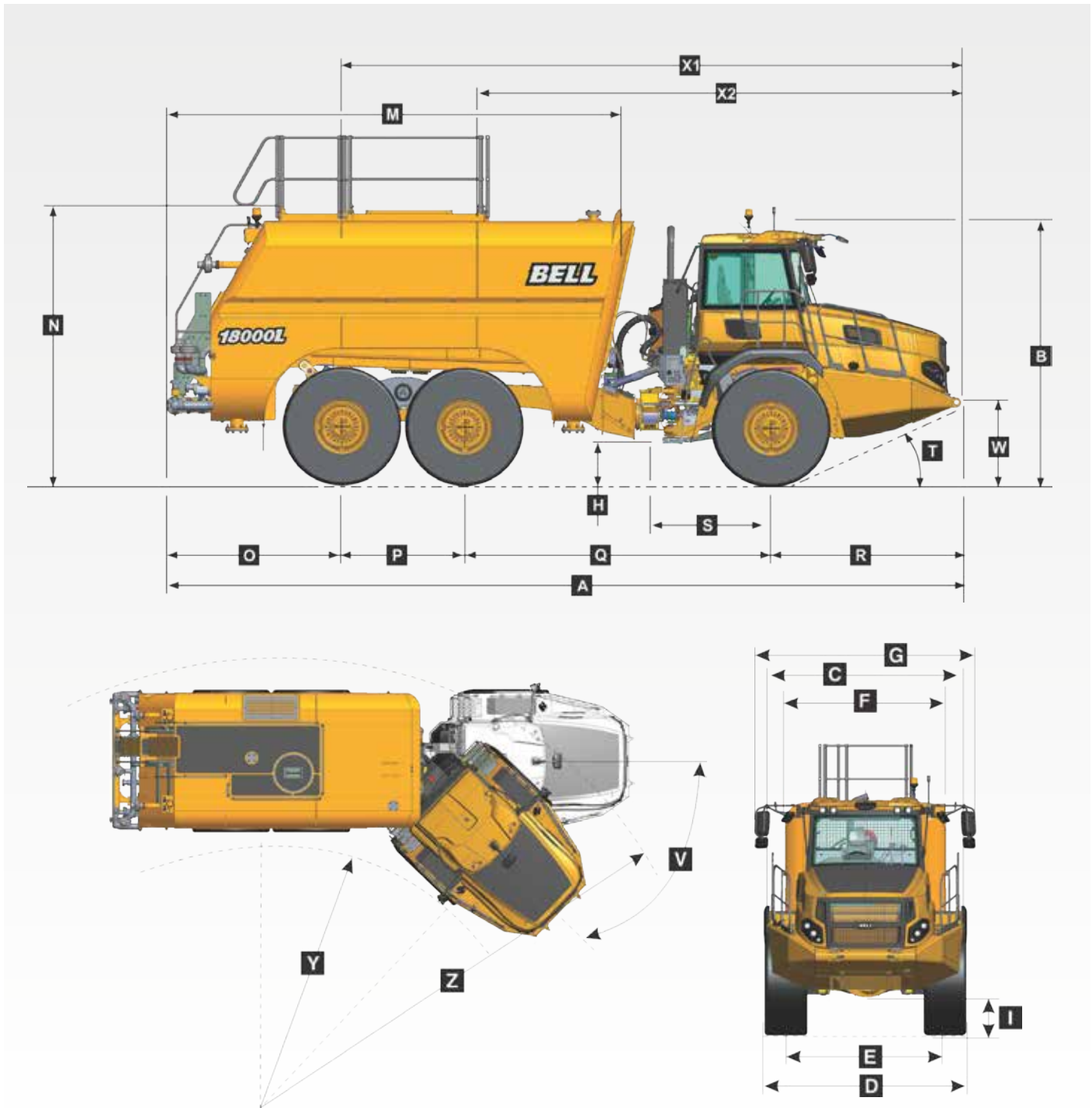
B18E 6x4 18 000 L Articulated Water Tanker

<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</p> <p>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</p> <p>Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts.</p>	<p>REAR SUSPENSION</p> <p>Pivoting walking beams with laminated rubber suspension blocks</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>STEERING SYSTEM</p> <p>Double-acting cylinders with ground driven emergency steering pump.</p> <p>Lock to lock turns 4,32</p> <p>Steering Angle 45°</p>	<p>HYDRAULIC SYSTEM</p> <p>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>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	<p>WATER TANK</p> <p>Tank capacity 18 000 Litres</p>
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<p>DUMPING SYSTEM</p> <p>Two double-acting, single stage, dump cylinders</p>	<p>WATER TANKER PLUMBING</p> <p>Centrifugal water pump</p> <p>Rate of Flow 1 800 L/min</p> <p>Head 50 m</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**	kg (lb)	LADEN (No sinkage)			
Front	7 955 (17 541)	20.5 R 25	kPa (Psi)	Rated Payload	18 000 litres (4 700 gallons)
Middle	3 740 (8 247)	Front	223 (32)		
Rear	3 330 (7 343)	Middle	299 (43)		
Total	15 025 (33 130)	Rear	299 (43)		
LADEN					
Front	9 840 (21 693)				
Middle	11 730 (25 860)				
Rear	11 540 (25 441)				
Total	33 110 (72 995)				

Dimensions

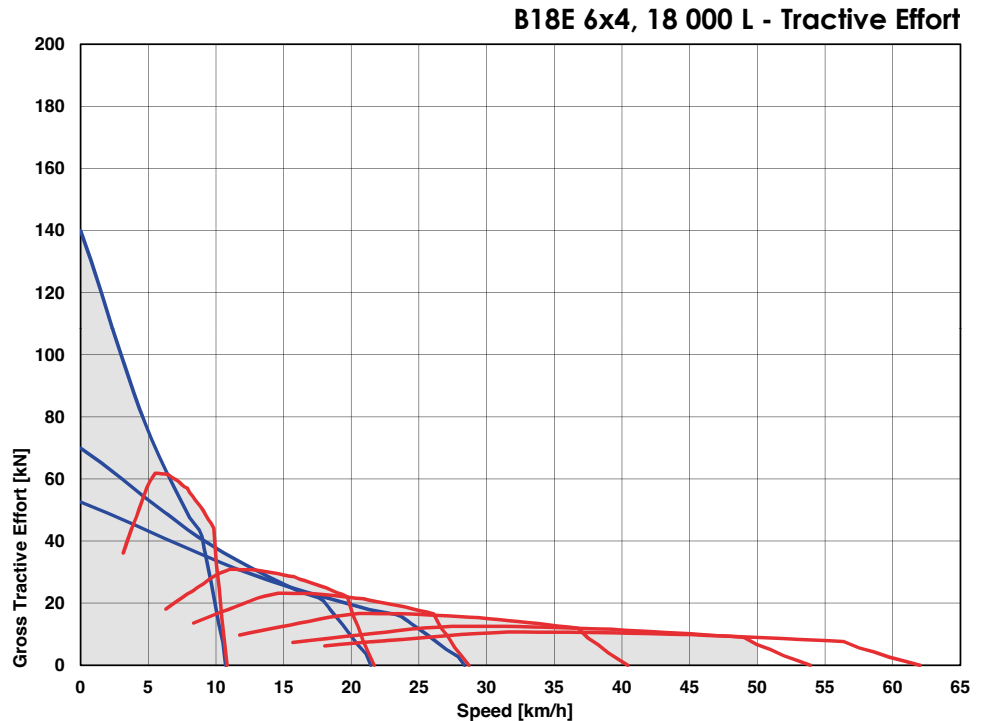
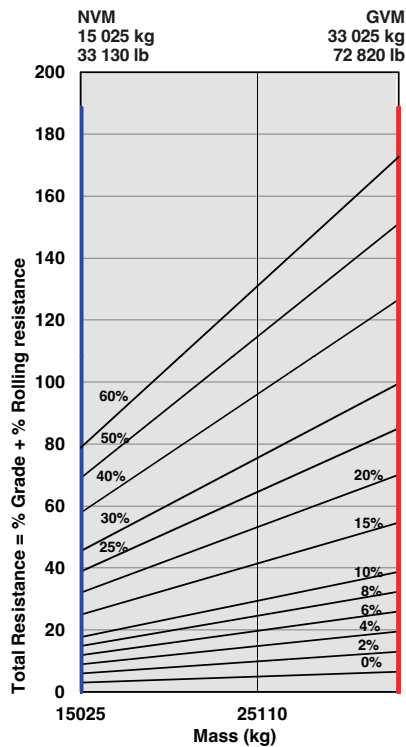


Machine Dimensions

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.

