

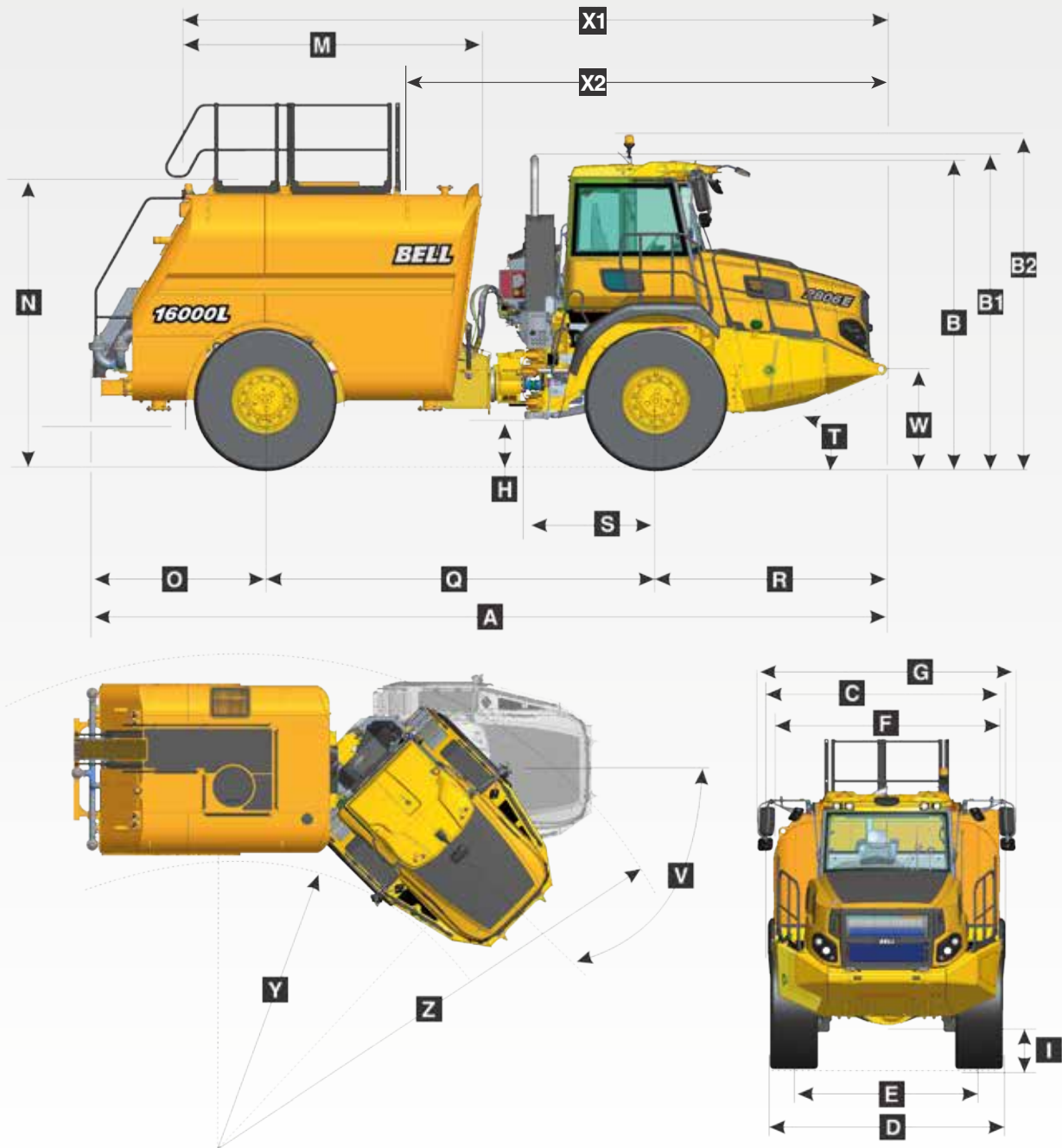
2806E 4x4 16 000 L Articulated Water Tanker

| | | | |
|--|--|--|---|
| ENGINE | Torque Control Hydrodynamic with lock-up in all gears. | Optional automatic, adjustable, integral, hydrodynamic transmission retarder. Output shaft speed dependant. | PNEUMATIC SYSTEM Air drier with heater and integral unloader valve, serving park brake and auxiliary functions. |
| Manufacturer Mercedes Benz | TRANSFER BOX | Maximum Retardation 165 kW (221 hp) Standard continuous 539 kW (723 hp) with Maximum retarder option | System Pressure 810 kPa (117 psi) |
| Model OM906LA | Manufacturer Kessler | WHEELS | ELECTRICAL SYSTEM |
| Configuration Inline 6, turbocharged and intercooled. | Series W1400 | Standard Tyre: Size 23.5 X 25 SRG | Voltage 24 V |
| Gross Power 205 kW (275 hp) @ 2 200 rpm | Layout Remote mounted | Standard Tyre: Type Radial Earthmover | Battery Type Two AGM (Absorption Glass Mat) type |
| Net Power 198 kW (265 hp) @ 2 200 rpm | Gear Layout Three in-line helical gears | FRONT SUSPENSION | Battery Capacity 2 X 75 Ah |
| Gross Torque 1 100 Nm (811 lbft) @ 1 200 -1 600 rpm | Output Differential Permanent interaxle differential lock | Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts. | Alternator Rating 28 V 80 A |
| Displacement 6,37 litres (389 cu.in) | AXLES High torque, low speed suitable for dual wheels. | HYDRAULIC SYSTEM | VEHICLE SPEEDS |
| Auxiliary Brake Exhaust Valve Brake Engine Valve Brake | Manufacturer Bell | 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. | 1st 8 km/h 5 mph 2nd 15 km/h 9 mph 3rd 20 km/h 12 mph 4th 28 km/h 17 mph 5th 37 km/h 23 mph 6th 43 km/h 27 mph R 6 km/h 3 mph |
| Fuel Tank Capacity 379 litres (100 US gal) | Model 15T | Pump Type Variable displacement load sensing piston | WATER TANK Tank capacity 16 000 Litres |
| Certification OM906LA meets EU Stage II/EPA Tier 2 emissions regulations. | Differential High input limited slip differential with spiral bevel gears. | Flow 165 l/min (44 gal/min) | WATER TANKER PLUMBING Centrifugal water pump |
| TRANSMISSION | Final Drive Outboard heavy duty planetary on all axles | Pressure 28 Mpa (4 061 psi) | Rate of Flow 1 800 L/min |
| Manufacturer Allison | BRAKING SYSTEM | Filter 5 microns | Head 50 m |
| Model 3500PR ORS | Service Brake Dual circuit, full hydraulic actuation Wet disc brakes. | STEERING SYSTEM | CAB ROPS/FOPS certified 74 dBA internal sound level measured |
| Configuration Fully automatic planetary transmission with optional retarder. | Maximum Brake Force: 132 kN (29 675 lbf) with standard tyres. | Double-acting cylinders with ground driven emergency steering pump | |
| Layout Engine mounted | Park & Emergency Spring applied air released, driveline mounted disc | Lock to lock turns 4,1 | |
| Gear layout Constant meshing planetary gears, clutch operated. | Maximum Brake Force: 242 kN (54 400 lbf) | Steering Angle 45° | |
| Gears 6 Forward, 1 Reverse | Auxiliary Brake Automatic exhaust valve brake and engine valve brake. | | |
| Clutch Type Hydraulically operated multi-disc | | | |
| Control Type Electronic | | | |

Load Capacity & Ground Pressure

| OPERATING WEIGHTS | | GROUND PRESSURE | | LOAD CAPACITY | |
|-------------------|-----------------|--------------------|-----------|---------------|----------------------------------|
| UNLADEN | kg (lb) | LADEN (No sinkage) | | Rated Payload | 16 000 litres (4 200 gallons) |
| Front | 10 163 (22 405) | | kPa (Psi) | | |
| Rear | 9 009 (19 861) | Front | 255 (36) | | |
| Total | 19 172 (42 267) | Rear | 445 (64) | | |
| | | | | | |
| | | | | | |
| LADEN | kg (lb) | | | | |
| Front | 12 635 (27 855) | | | | |
| Rear | 17 075 (37 644) | | | | |
| Total | 35 148 (77 488) | | | | |

Dimensions

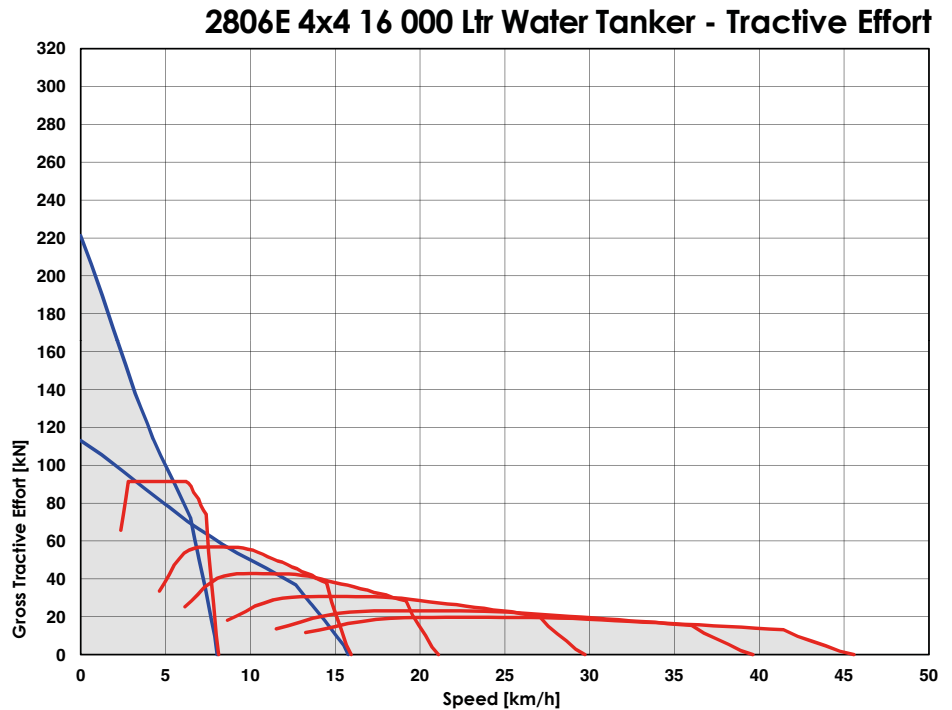
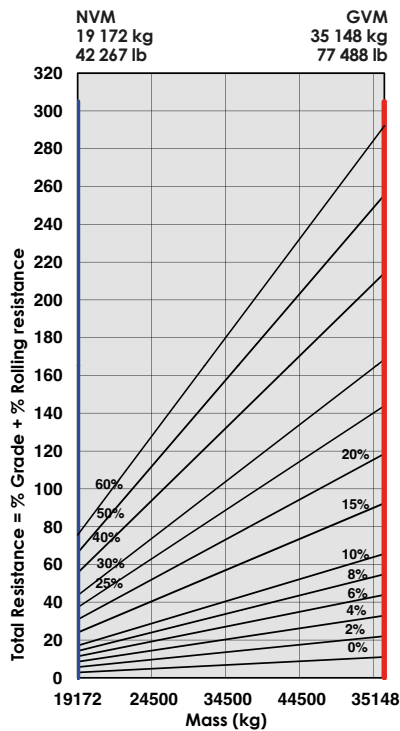


Machine Dimensions

| | | | | | | | |
|----|---|----------|----------------|----|--|----------|-----------------|
| A | Length - Transport Position | 8 946 mm | (29 ft. 4 in.) | N | Maximum Tank Height | 3 074 mm | (10 ft. 1 in.) |
| B | Height - Transport Position | 3 436 mm | (11 ft. 3 in.) | O | Rear Axle Centre to Bowser / Tank Rear | 1 950 mm | (6 ft. 5 in.) |
| B1 | Height-Rotating Beacon | 3 548 mm | (11 ft. 8 in.) | Q | Mid Axle Centre to Front Axle Centre | 4 395 mm | (14 ft. 5 in.) |
| B2 | Height-Exhaust | 3 517 mm | (11 ft. 6 in.) | R | Front Axle Centre to Machine Front | 2 601 mm | (8 ft. 6 in.) |
| C | Width over Mudguards | 2 984 mm | (9 ft. 9 in.) | S | Front Axle Centre to Artic Centre | 1 363 mm | (4 ft. 5 in.) |
| D | Width over Tyres-23.5R25 | 2 926 mm | (9 ft. 7 in.) | T | Approach Angle | 26° | |
| E | Tyre Track Width-23.5R25 | 2 325 mm | (7 ft. 8 in.) | V | Maximum Articulation Angle | 45° | |
| F | Width over Tank / Bowser | 2 840 mm | (9 ft. 4 in.) | W | Front Tie Down Height | 1 092 mm | (3 ft. 7 in.) |
| G | Width over Mirrors - Operating Position | 3 260 mm | (10 ft. 8 in.) | X1 | Tank Lifting Centres | 6 996 mm | (22 ft. 11 in.) |
| H | Ground Clearance - Artic | 563 mm | (22.17 in.) | X2 | Machine Lifting Centres | 4 853 mm | (15 ft. 11 in.) |
| I | Ground Clearance - Front Axle | 470 mm | (18.5 in.) | Y | Inner Turning Circle Radius - 23.5R25 | 3 475 mm | (11 ft. 5 in.) |
| K | Ground Clearance - Under Run Bar | N/A | | Z | Outer Turning Circle Radius - 23.5R25 | 7 159 mm | (23 ft. 6 in.) |
| M | Tank / Bowser Length | 3 368 mm | (11 ft. 1 in.) | | | | |

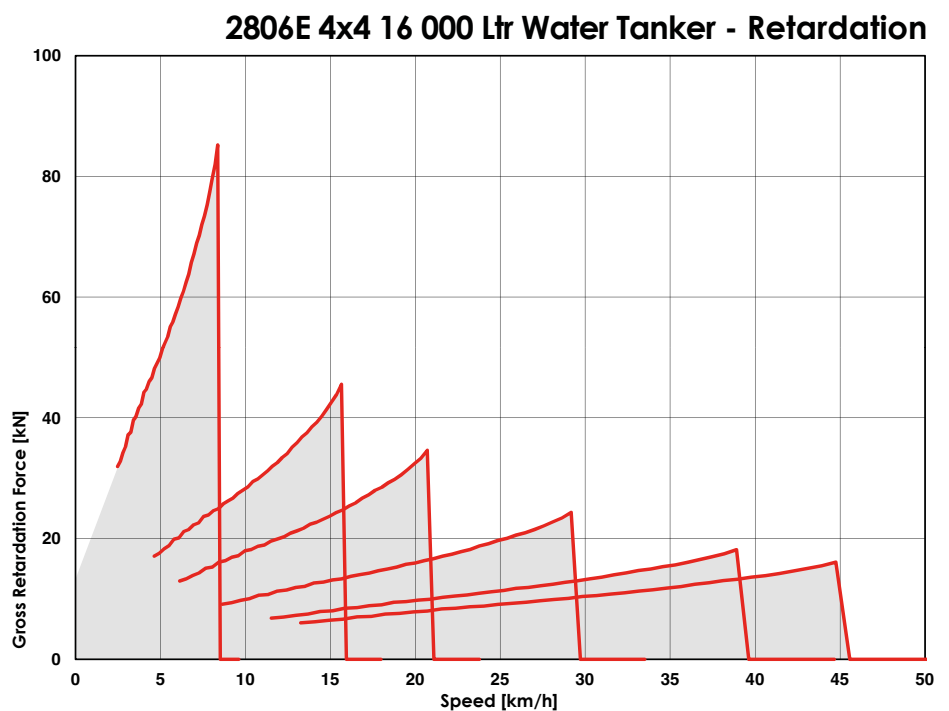
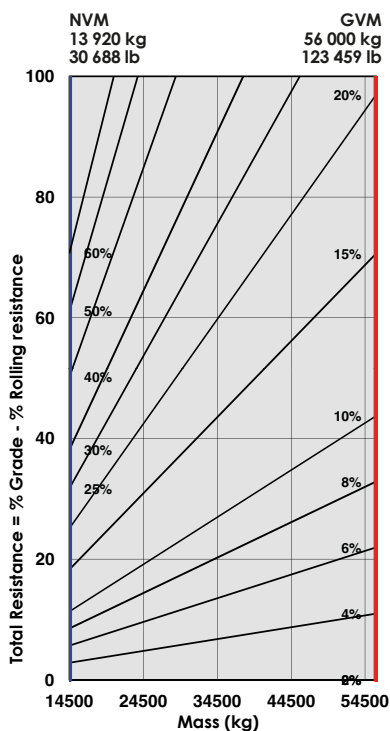
Gradeability/Rimpull

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

