

B30L 4x4 LOW PROFILE ARTICULATED DUMP TRUCK



Gross Power: 205 kW (275 hp)
Gross Torque: 1 100 Nm (850 lbft)
Rated Payload: 27 000 kg (59 524 lbs)

BELL

B30L4x4 LOW PROFILE ARTICULATED DUMP TRUCK

ENGINE	Mercedes Benz OM906LA
Configuration	I-6 with exhaust brake and engine valve brake (EVB)
Aspiration	Turbocharged and intercooled
Cooling system	Single pass radiator & charge air cooler
Gross Power	205 kW (275 hp) @ 2 200 rpm
Net Power	198 kW (266 hp) @ 2 200 rpm
Gross Torque	1 100 Nm (810 lbf) @ 1 250 - 1 500 rpm
Net Torque	1 070 Nm (788 lbf) @ 1 200 - 1 600 rpm
Displacement	6.37 litres (389 cu.in)
Fuel tank capacity	220 l (58.1 US gal)

TRANSMISSION	ZF 6WG 210
Layout	Countershaft design with integral drop box
Gear layout	Constant mesh
Clutch type	Hydraulically operated, multiple disc
Control type	Shift modulated, electronic over hydraulic
Torque converter layout	Integral with transmission, with lockup in all gears
Interaxle diff lock	Yes (33/67 proportional differential with option to lock it 50/50)
Vehicle Speeds	
Forward:	1st 5 km/h (3.11 mph) 2nd 8 km/h (4.97 mph) 3rd 13 km/h (8.08 mph) 4th 20 km/h (12.43 mph)
Reverse:	1st 5 km/h (3.11 mph)

AXLES	Bell
Differential type	Spiral bevel gear
Final drive type	Outboard heavy duty planetary reduction hubs
Housing type	Steel fabricated

BRAKING SYSTEM	SAHR Brakes
Brake type	17 inch SAHR brakes all round
Brake application	Spring applied, pressure released
EMERGENCY BRAKE Application	• Manual not electrical • Neutral • Engine switch off • Low transmission oil pressure

WHEELS	
FRONT: size	20.5 x 25 Radial
REAR: size	18.00 x 25 Radial
Max ground pressure	363 kPa

HYDRAULIC SYSTEM	Load-sensing with priority for brakes and steering. A ground driven, load sensing emergency steering pump is fitted as standard. Central manifold block for easy trouble shooting.
Pump type	Axial piston variable displacement load sensing
Application	Steering, bin tipping and hydraulic brake charging
Flow:	156 l/min (41 US gpm)
Pressure:	250 kPa (36.26 psi)
Hydraulic tank capacity	85 litre

PNEUMATIC SYSTEM	Air drier with heater and integral unloader valve, serving auxiliary functions
System pressure	810 kPa (117 psi)

ELECTRICAL SYSTEM	
Voltage	24 V
Battery type	2 maintenance free permanently sealed
Battery capacity	2 x 105 Ah
Alternator rating	28 V 80 A

STEERING SYSTEM	Hydromechanically articulated with two double acting hydraulic cylinders
Angle	±40°

BODY	
Capacity	Struck: 12 m ³ (15.7 yd ³) Heaped: (SAE 2:1) 14.5 m ³ (19 yd ³)
Rated payload	27 000 kg (59 524 lbs)
Power down time	10 seconds
Raise time	15 seconds
Tipping angle	65 degrees

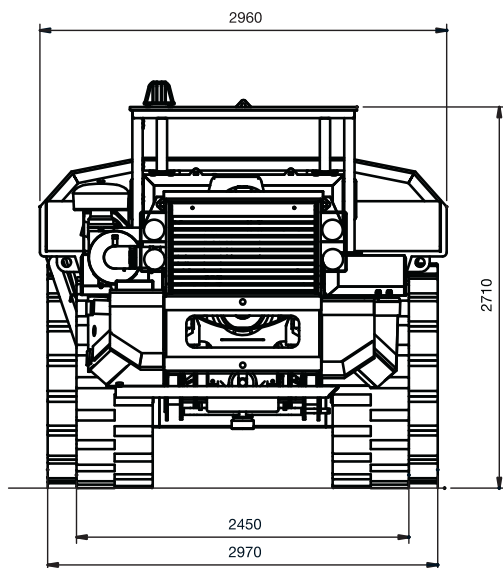
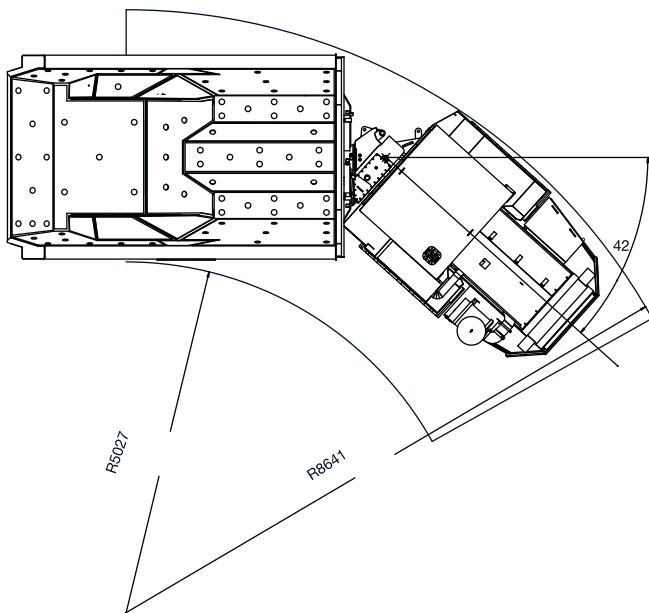
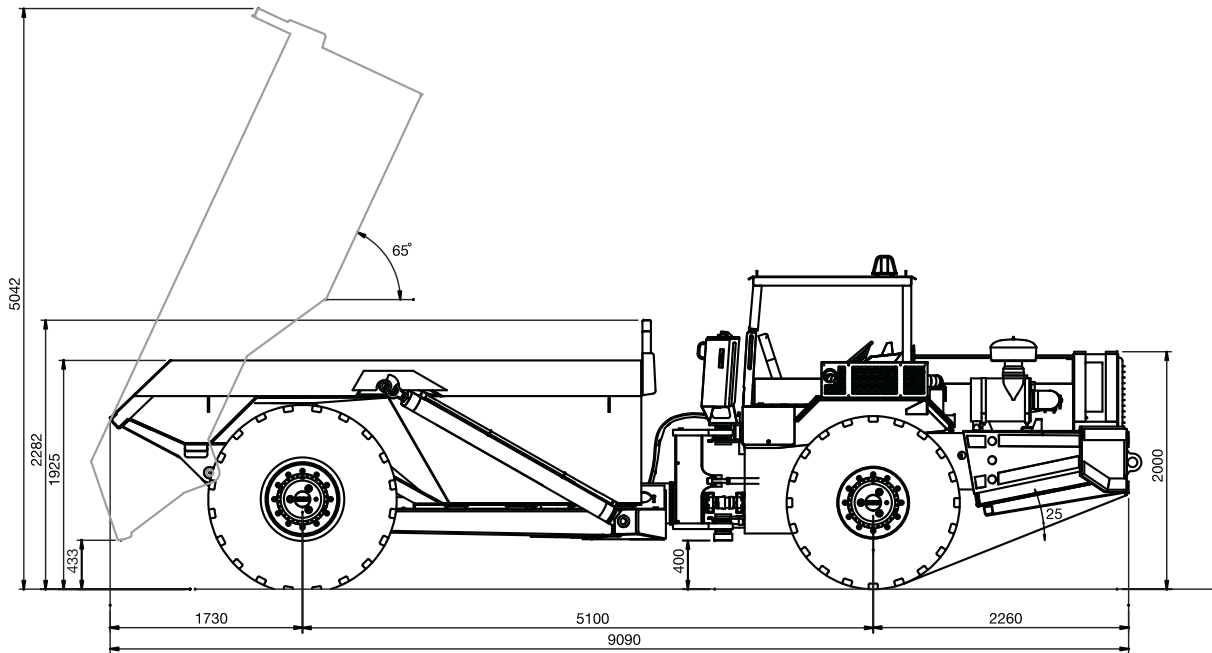
OPERATING WEIGHTS	
Empty	
Front:	10 920 kg (24 074 lbs)
Rear:	8 600 kg (18 959.73 lbs)
Total:	19 520 kg (43 034 lbs)
Laden	
Front:	16 020 kg (35 318 lbs)
Rear:	30 500 kg (67 241 lbs)
Total:	46 520 kg (102 559 lbs)

STANDARD EQUIPMENT	
Cab	• High visibility cab • Suspension seat with retractable seatbelt • Rotating Beacon
Gauges	• Air pressure • Engine temp • Engine oil pressure • Hourmeter • Tachometer • Transmission oil temp • Brake pressure • Accumulator pressure
Lighting	• 4 forward facing worklights • 2 rear facing worklights • 2 rear facing LED brake lights • On/off switch on dash
General	• Bin liners • SAHR Brakes • 2 electrical hooters • Isolator with removable key • Wheel spanner set • EVB • Exhaust Brake • Belly plate • Exhaust purifier • Exhaust silencer • Non slip pads on all walk ways • Centre mount, forward facing cab • Engine protection • Engine over-rev protection

OPTIONAL EQUIPMENT	• Bin 9.4 m ³ • Interaxle permanently locked • Flashing beacon • Centre mount, side facing cab • Suspension seat • Speedometer • Voltmeter • Onboard weighing system • Central greasing system • Fire suppression • Adjustable canopy
Gear selection options	4 x fwd; 1 x rev 3 x fwd; 1 x rev

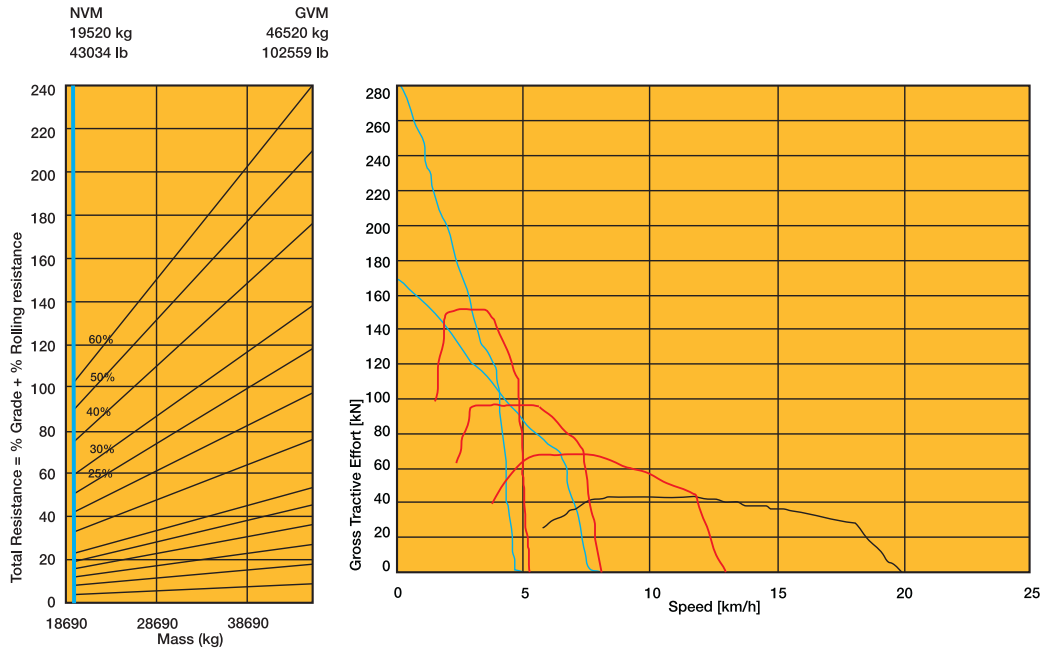
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LINE DRAWINGS



B30L^{4x4} LOW PROFILE ARTICULATED DUMP TRUCK

GRADEABILITY/RIMPULL



What makes the B30L a great performer...

- With a highly efficient power and drivetrain combined with low rolling resistance, the Bell B30L delivers superior fuel efficiency
- High performance engine with increased power and torque and long service intervals
- Fewer scheduled service requirements

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All dimensions are shown in millimetres, unless otherwise stated between brackets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. Photographs featured in this brochure may include optional equipment.

Strong Reliable Machines
Strong Reliable Support