

# B25L 4x4 LOW PROFILE ARTICULATED DUMP TRUCK



Gross Power: 205 kW (275 hp)  
Gross Torque: 1 100 Nm (810 lbft)  
Rated Payload: 23 000 kg (50 600 lbs)

**BELL**

# B25L4x4 LOW PROFILE ARTICULATED DUMP TRUCK

## ENGINE

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

## TRANSMISSION

Layout	ZF 6WG 210
Gear layout	Countershaft design with integral drop box
Clutch type	Constant mesh
Control type	Hydraulically operated, multiple disc
Torque converter layout	Shift modulated, electronic over hydraulic
Interaxle diff lock	Integral with transmission, with lockup in all gears
Vehicle Speeds	Yes (33/67 proportional differential with option to lock it 50/50)
Forward:	1st 5 km/h (3.1 mph)
	2nd 8 km/h (5.0 mph)
	3rd 13 km/h (8.1 mph)
	4th 20 km/h (12.4 mph)
Reverse:	1st 5 km/h 3.1 mph

## AXLES

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

## BRAKING SYSTEM

Brake type	SAHR Brakes
Brake application	17 inch SAHR brakes all round
EMERGENCY BRAKE	Spring applied, pressure released
Application	<ul style="list-style-type: none"> <li>• Manual not electrical</li> <li>• Neutral</li> <li>• Engine switch off</li> <li>• Low transmission oil pressure</li> </ul>

## WHEELS

FRONT size	20.5 x 25 16 Ply L5
REAR size	18.00 x 25 32 Ply E4
Max ground pressure	363 kPa

## HYDRAULIC SYSTEM

Pump type	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.
Application	Axial piston variable displacement load sensing
Flow:	Steering, bin tipping and hydraulic brake charging
Pressure:	156 l/min (41 US gpm)
Hydraulic tank capacity	250 kPa (36.26 psi)
	85 litre

## PNEUMATIC SYSTEM

System pressure	Air drier with heater and integral unloader valve, serving auxiliary functions
	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

Angle	Hydromechanically articulated with two double acting hydraulic cylinders ±40°
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## BODY

Capacity	Struck: 9 m <sup>3</sup> (12.2 yd <sup>3</sup> )
	Heaped: (SAE 2:1) 12 m <sup>3</sup> (15.7 yd <sup>3</sup> )
Rated payload	23 000 kg (50 600 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:	8 000 kg (17 636 lbs)
	Total:	18 520 kg (41 711 lbs)
Laden	Front:	14 436 kg (31 826 lbs)
	Rear:	27 484 kg (60 592 lbs)
	Total:	41 920 kg (92 418 lbs)

## STANDARD EQUIPMENT

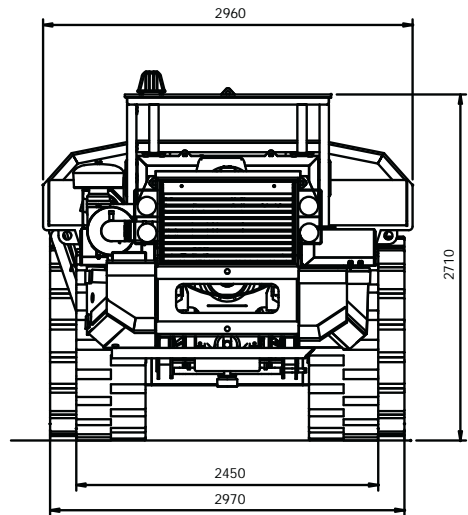
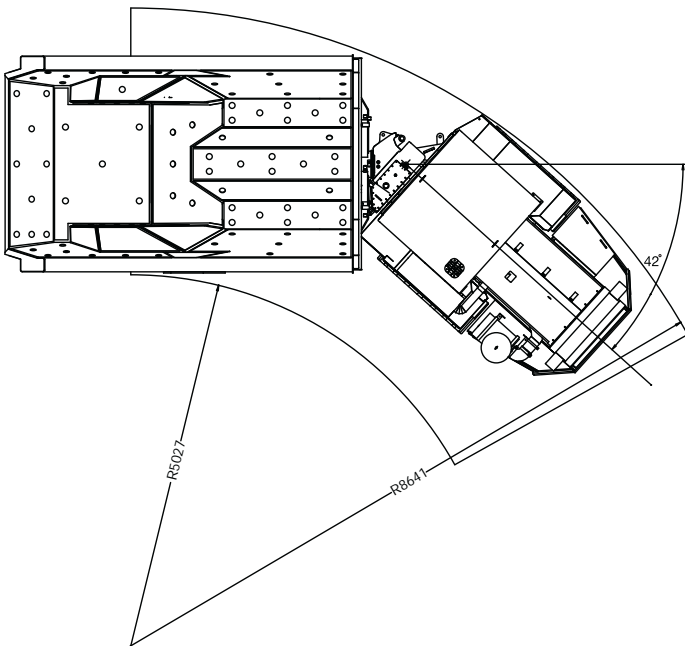
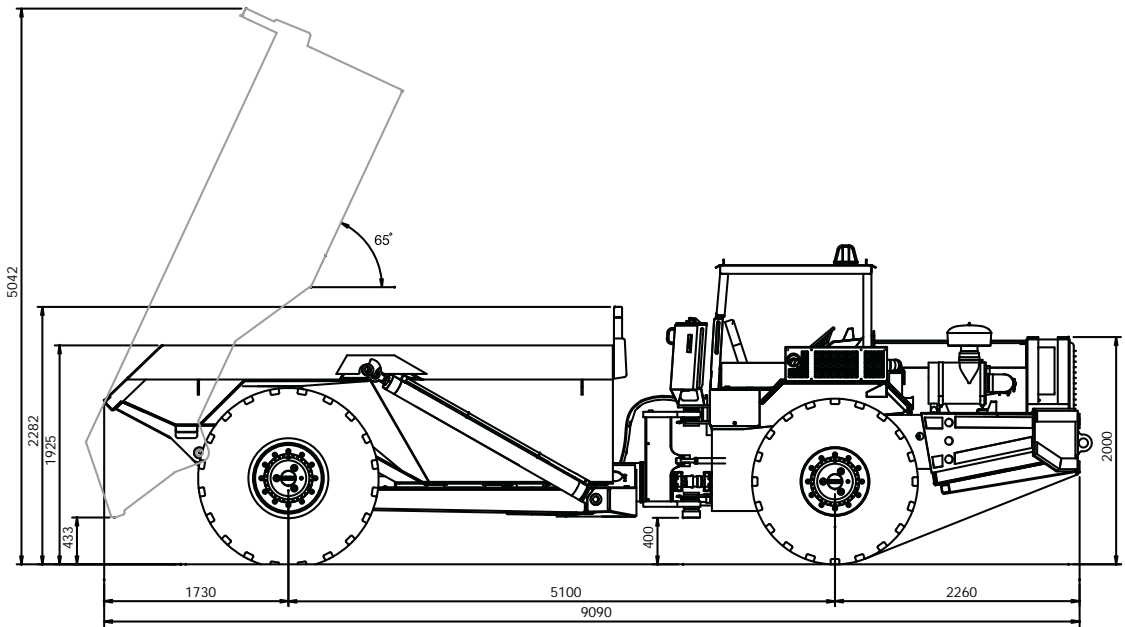
Cab	<ul style="list-style-type: none"> <li>• High visibility cab</li> <li>• Suspension seat with retractable seatbelt</li> <li>• Rotating Beacon</li> </ul>
Gauges	<ul style="list-style-type: none"> <li>• Air pressure</li> <li>• Engine temp</li> <li>• Engine oil pressure</li> <li>• Hourmeter</li> <li>• Tachometer</li> <li>• Transmission oil temp</li> <li>• Brake pressure</li> <li>• Accumulator pressure</li> </ul>
Lighting	<ul style="list-style-type: none"> <li>• 4 forward facing worklights</li> <li>• 2 rear facing worklights</li> <li>• 2 rear facing LED brake lights</li> <li>• On/off switch on dash</li> </ul>
General	<ul style="list-style-type: none"> <li>• Bin liners</li> <li>• SAHR Brakes</li> <li>• 2 electrical hooters</li> <li>• Isolator with removable key</li> <li>• Wheel spanner set</li> <li>• EVB</li> <li>• Exhaust Brake</li> <li>• Belly plate</li> <li>• Exhaust purifier</li> <li>• Exhaust silencer</li> <li>• Non slip pads on all walk ways</li> <li>• Centre mount, forward facing cab</li> <li>• Engine protection</li> <li>• Engine over-rev protection</li> </ul>

## OPTIONAL EQUIPMENT

Gear selection options	<ul style="list-style-type: none"> <li>• Bin 9.4 m<sup>3</sup></li> <li>• Interaxle permanently locked</li> <li>• Flashing beacon</li> <li>• Centre mount, side facing cab</li> <li>• Suspension seat</li> <li>• Speedometer</li> <li>• Voltmeter</li> <li>• Onboard weighing system</li> <li>• Central greasing system</li> <li>• Fire suppression</li> <li>• Adjustable canopy</li> <li>4 x fwd; 1 x rev</li> <li>3 x fwd; 1 x rev</li> </ul>
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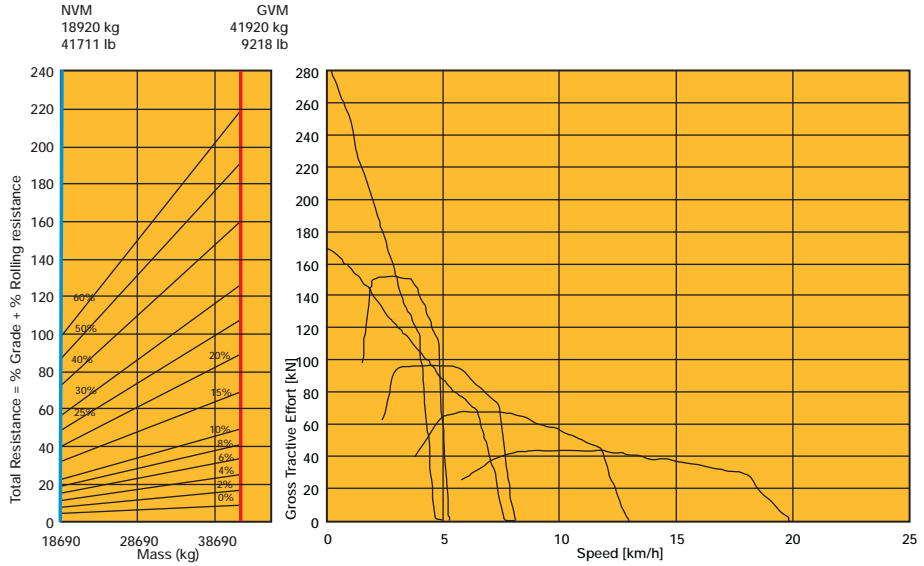
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## LINE DRAWINGS



# B25L<sup>4x4</sup> LOW PROFILE ARTICULATED DUMP TRUCK

## GRADEABILITY/RIMPULL



## What makes the B25L a great performer...

- With a highly efficient power and drivetrain combined with low rolling resistance, the Bell B25L delivers superior fuel efficiency
- High performance engine with increased power and torque and long service intervals
- Powerful hydraulic transmission retarder drastically cuts break use, extending pad life up to a factor of five
- 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**

**BELL**