

BELL



Gross Power: 170 kW (228 hp) Gross Torque: 810 Nm (597 lbft) Rated Payload: 18 000 kg (35 683 lbs)



BISD

BEBB Sx6 Mik VII

ENGINE Configuration	Mercedes Benz OM906LA I-6 with exhaust brake and Engine Valve Brake (EVB)	AL ST
Aspiration Cooling system	Turbocharged and intercooled Single pass radiator & charge	1
cooling system	air cooler	
Gross power	170 kW (228 hp) @ 2,200 rpm	
Net Power	SAE J1349 165 kW (221hp) @ 2,200 rpm	13
Gross torque	810 Nm (597 lbft) @	1
	1,050 -1,850 rpm SAE J1349	120
Net torque	780 Nm (575 lbft) @ 1,050 -1,850 rpm	
Displacement	6,37 litres (389 cu.in)	
Fuel tank capacity	200 I (58 US gal)	
TRANSMISSION	Allison 3000 ORS (with	
	optional retarder)	1
Layout	Engine mounted box with rear	
Gear layout	output Constant meshing planetary	
	gears	
Clutch type	Hydraulically operated	
Torque converter lavout	multidisc Hydrodynamic, with lock-up	1
	in all gears	SUSP
TRANSFER BOX	VGR 13 100	SYST Front:
Output differential	Interaxle 50/50 (6x4) [66/33 (6x6 mode)] proportional differential, pneumatically lockable whilst stationary or on the move.	Rear: T
AXLES	Bell 14T	
Differential type	Spiral bevel type with Limited	
Final drive type	Outboard heavy duty	
Hausing tree	planetary Steel fabricated	
Housing type	Steel labricated	SYST
BRAKING SYSTEM Service Brake	Dual circuit, full hydraulic	
JERVICE DRAKE	actuation caliper brakes on all	
Maximum brake force	wheels 164 kN (36,900 lbf)	Flow
PARK & EMERGENCY	Spring applied, air released	Pressu
	driveline mounted disc.	Filter
Maximum brake force AUXILLIARY BRAKE	396 kN (89,000 lbf) Automatic exhaust brake and	PNEL
	Engine Valve Brake (EVB)	SYST
Maximum retardation	442 kW (593 hp)	
WHEELS		System
Tyre: Size	20,5R25	DUMP
Type Maximum ground	Radial Earthmover	DUMP
pressure (laden)	134 kPa (19 psi)	Power Tipping
		hhui



in all gears	SUSPENSION		ELECTRICAL SYSTEM		
VGR 13 100 Interaxle 50/50 (6x4) [66/33 (6x6 mode)] proportional differential, pneumatically lockable whilst stationary or on the move. Bell 14T Spiral bevel type with Limited Slip Outboard heavy duty	SYSTEM Front: Type Rear: Type	Semi-independent leading arm type linkages supported by nitrogen/oil struts Pivoting walking beams equalize the load on each axle with laminated suspension blocks. Each axle is coupled to the chassis by a system of four rubber- bushed links for ideal vertical movement.	Voltage Battery Type Battery capacity Alternator rating	permane 2 x 105 Å batteries 28 V 80 Å Hydrosta by two di cylinders	
planetary Steel fabricated	HYDRAULIC SYSTEM	Variable displacement with load sensing system. A	Angle Lock to lock turns	+- 45 de(4,1	
Dual circuit, full hydraulic actuation caliper brakes on all wheels 164 kN (36,900 lbf) Spring applied, air released driveline mounted disc.	Flow Pressure Filter	ground-driven, load sensing emergency steering pump is integrated into the main system 184 //min (48.6 US gal/min) 25 MPa (3,915 psi) 10 micron	VEHICLE SPEEDS 1st 2nd 3rd 4th 5th 6th	km/h 8 13 22 31 45 50	mph 5 8 13.7 19.3 28 31
396 kN (89,000 lbf) Automatic exhaust brake and Engine Valve Brake (EVB) 442 kW (593 hp)	PNEUMATIC SYSTEM	Air drier with heater and integral unloader valve, serving park brake and auxiliary functions	R	9	5.6
20,5R25 Radial Earthmover	System pressure DUMPING SYSTEM	850 kPa (123 psi)			
134 kPa (19 psi)	Power down time Tipping angle	12 s 6 s 70°			



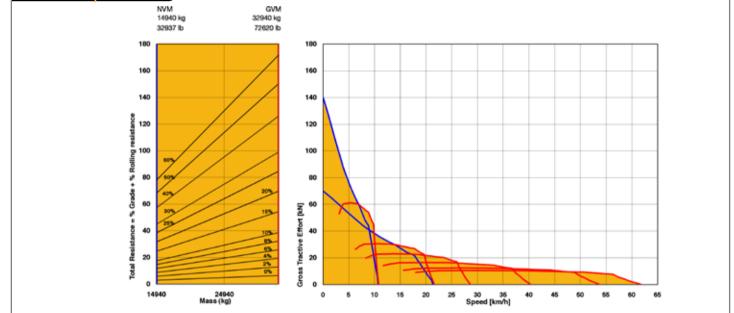
BIBD^{6x4} ARTICULATED 6x6 DUMP TRUCK

LOAD CAPACITY & GROUND PRESSURE

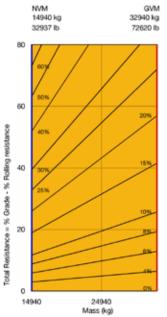
WEIGHTS		GROUND PRESSURE				OPTION WEIGHTS	
UNLADEN	kg	LADEN (6x4)	kPa	BODY	m³		kg
Front	7,584	Front	211	Struck Capacity	8,5	Bin liner	242
Middle	3,094	Middle	293	SAE 2:1 Capacity	11	Tailgate	-
Rear	2,833	Rear	291	SAE 1:1 Capacity	13,6	Extra wheelset	361
Total	13,511			SAE 2:1 Capacity			
LADEN		LADEN (6x6)		with Autogate	N/A		
Front	8,199	Front	211				
Middle	11,788	Middle	293	Rated Payload	18 000 kg	1	
Rear	11,524	Rear	293			1	
Total	31,511						

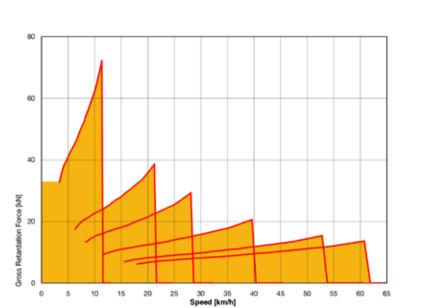
* Additional 230 kg for 6x6 option

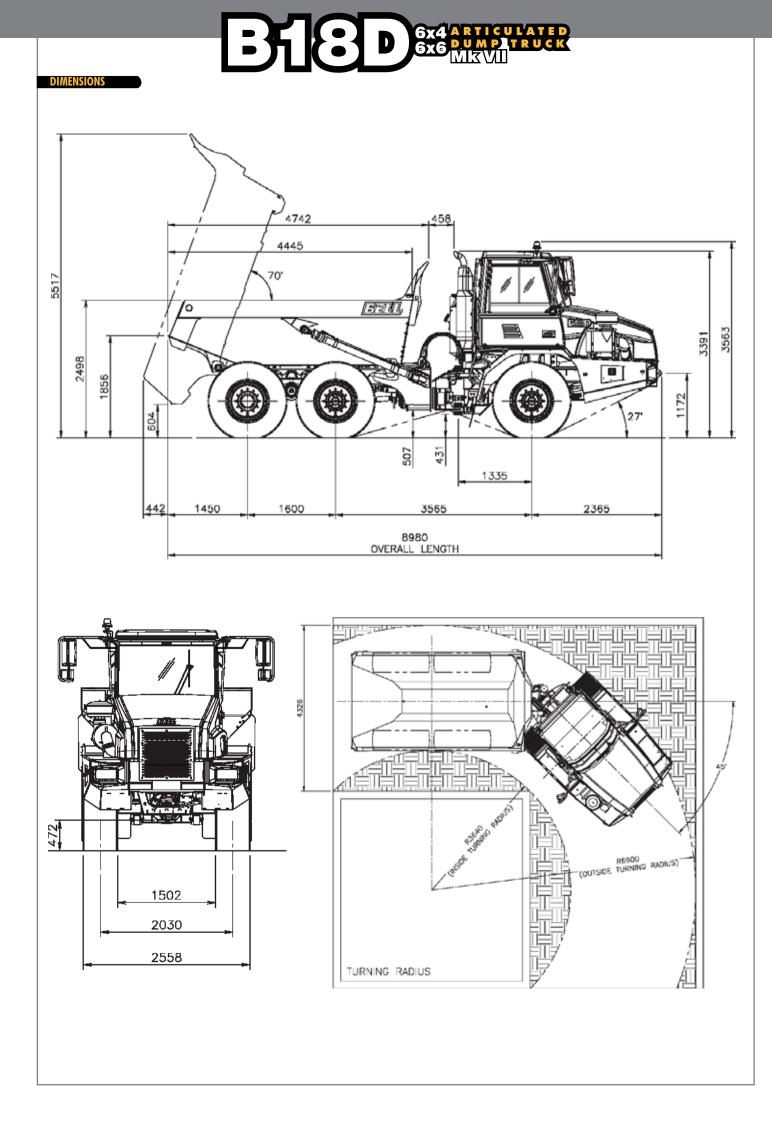
GRADEABILITY/RIMPULL











BIBD^{6x4} ARTICULATED 6x6 DUMPITRUCK

AVAILABLE EQUIPME			
Cab	 ROPS/FOPS certification Protective rear window guard Tilt cab for service access Gas strut supported door Tinted safety glass Sliding windows Rear view mirrors - regular and wide angle Sun visor Wiper/washer with intermittent control Tilt and telescoping steering wheel 	Gauges	 Engine coolant temperature Engine oil pressure Transmission oil temperature Fuel Tachometer Battery voltage Hourmeter Odometer System air pressure
	 Adjustable, air suspension seat with retractable seat belt Fold-away trainer seat with retractable seat belt HVAC climate control system with filtered and ducted air 	Vehide	 Ground driven emergency steering Bin safety prop Articulation lock Integral transmission output retarder with 6 settings (optional)
	 Rotating beacon 12 V power outlet/12 V cigarette lighter Ash tray Drinks holder Cooled/heated lunch box I-Tip programmable bin tip Sound insulated to 76 dB(A) to ISO 6396 Radio/CD/Tape Memory Module Air horn 	Other	 (Factory or field installed) On Board Weigh System (OBW) Electrically adjustable rearview mirrors - one per side Groeneveld auto greasing system Retractable sun visor Exhaust body heating Autogate Body liners Fleetmatic Satellite Monitoring System Driver ID and immobiliser
MDU Features	 Operator / Site selected speed control Tipping counter Trip timer Trip distance Transmission gear selection Fuel Consumption Diagnostics Intermittent wiper timing control Speedo calibration for alternative tyre sizes Metric /Imperial unit selection Warning lights with audible buzzer 		 Forward working lights Forward working lights Artic reverse light Fuel heater External windshield visor Headlight protection grills Rear window wiper Antenna mounting bracket System for reverse camera Wiggins quick fuelling system Tyre pressure monitoring
		*standard specif	fication for machines may vary according to region





• The exclusive onboard weighing option presents the operator with real time information on the payload while the machine is being loaded. A 'limp home' mode can also be activated if the machine is significantly over-loaded.

• The incorporation of a Pitch and Roll sensor in the vehicle allows the bin to not be operated if the truck is in an unsafe position.



 The park brake automatically applies when neutral is selected and it is not possible to engage neutral at speed. Tourque dependent park brake release (hill assist) ensures no roll back on slopes.



• Full hand-rails can be installed to provide even more safety when performing engine checks.



• Keyless start, driver identity, and access codes ensures no unauthorized operation of your equipment.



• Both operator or site selectable maximum speed control allows the vehicle to automatically deaccelerate and apply the retarder to prevent onsite speeding.



• Reverse cameras are available for factory or on site fitment ensuring full view when reversing.



 Optional Tyre pressure - monitoring System ensures that the operator has real time information on all tyres pressure and temperature conditions.



 The best in class retarder and engine braking automatically applies when the operator lifts his foot off the accelerator. Retarder aggressiveness can be simply adjusted on the sealed switch module ensuring maximum descent control for all conditions.

• All trucks can be set up to automatically sound the horn when starting or switching between forward and reverse.

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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.