

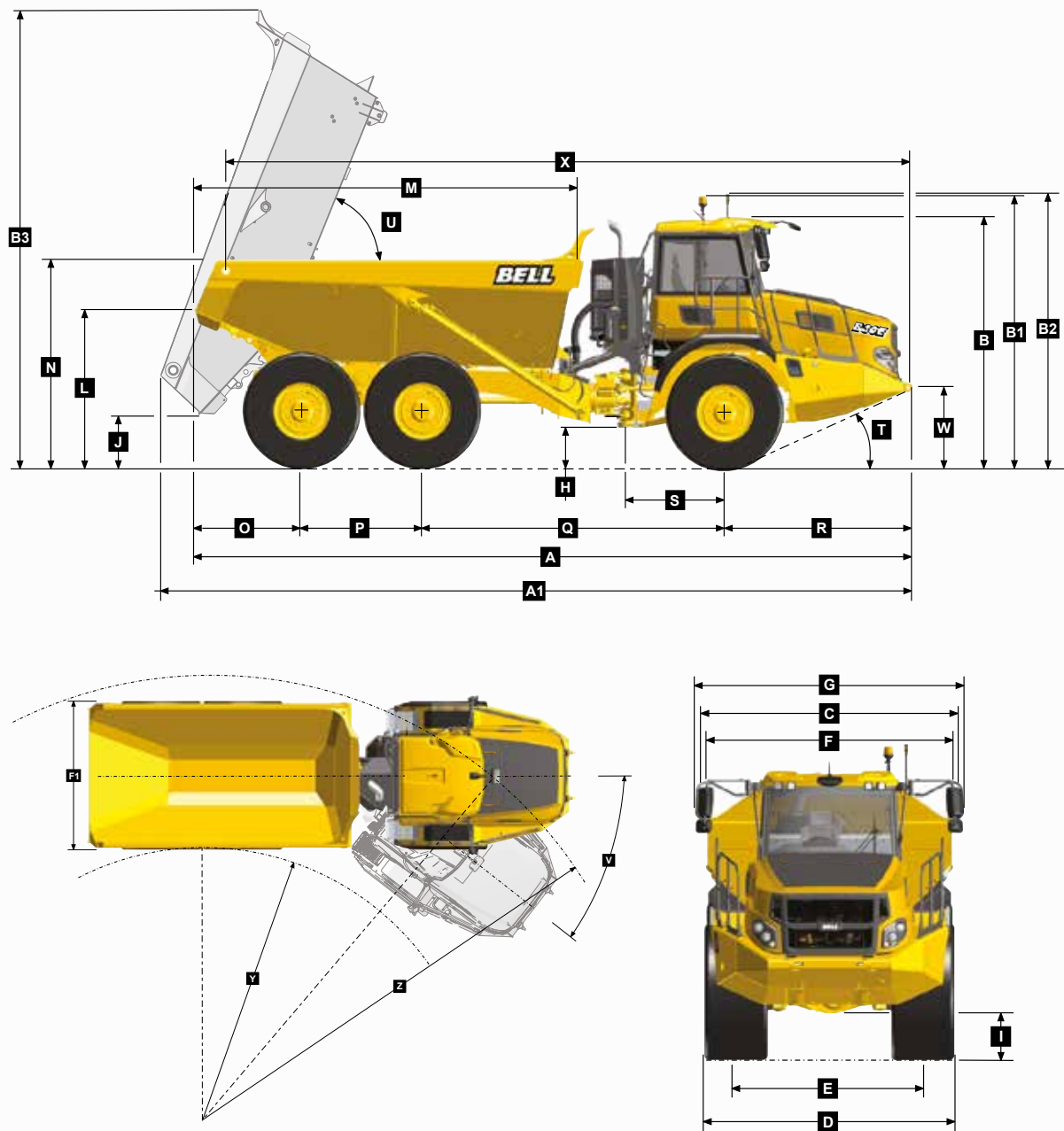
B30E Articulated Dump Truck

ENGINE	TRANSFER CASE	WHEELS	DUMPING SYSTEM
Manufacturer Mercedes Benz	Manufacturer Kessler	Type Radial Earthmover	Two double-acting, single stage, dump cylinders
Model OM926LA	Series W1400	Tyre 23.5 R 25 (750/65 R 25 Optional)	Raise Time 12 s
Configuration Inline 6, turbocharged and intercooled.	Layout Remote mounted	FRONT SUSPENSION Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts. Optional active dual springrate Comfort Ride suspension available, including height control.	Lowering Time 10 s
Maximum Net Power 240 kW (322 hp) @ 2 200 rpm in accordance with UN ECE R120	Gear Layout Three in-line helical gears		Tipping Angle 70° standard, or any lower angle programmable
Gross Torque 1 300 Nm (959 lbft) @ 1 200 -1 600 rpm	Output Differential Interaxle 33/67 proportional differential. Automatic inter-axle differential lock.	REAR SUSPENSION Pivoting walking beams with laminated rubber suspension blocks. Optional passive dual-springrate Comfort Ride walkingbeam available.	PNEUMATIC SYSTEM Air drier with heater and integral unloader valve, serving park brake and auxiliary functions.
Displacement 7,2 litres (439 cu.in)	AXLES Manufacturer Bell		System Pressure 8,1 Bar (117 psi)
Auxiliary Brake Exhaust Valve Brake Engine Valve Brake	Model 18T	HYDRAULIC SYSTEM 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.	ELECTRICAL SYSTEM Voltage 24 V
Fuel Tank Capacity 379 litres (100 US gal)	Differential High input limited slip differential with spiral bevel gears.		Battery Type Two AGM (Absorption Glass Mat) type
Certification OM926LA meets EU Stage II / EPA Tier 2 emissions regulations	Final Drive Outboard heavy duty planetary on all axles		Battery Capacity 2 X 75 Ah
TRANSMISSION	BRAKING SYSTEM	Pump Type	Alternator Rating
Manufacturer Allison	Service Brake Dual circuit, full hydraulic actuation wet disc brakes on front and middle axles. Wet brake oil is circulated through a filtration and cooling system.	Variable displacement load sensing piston.	28 V 80 A
Model 3400P ORS	Maximum brake force: 174 kN (39 116 lbf)	Flow 202 L/min (53 gal/min)	VEHICLE SPEEDS
Configuration Fully automatic planetary transmission with integral retarder		Pressure 310 Bar (4 500 psi)	1st 8 km/h 5 mph
Layout Engine mounted	Park & Emergency Spring applied, air released driveline mounted disc.	Filter 5 microns	2nd 14 km/h 9 mph
Gear layout Constant meshing planetary gears, clutch operated	Maximum brake force: 251 kN (56 400 lbf)	STEERING SYSTEM Double acting cylinders, with ground-driven emergency steering pump.	3rd 20 km/h 12 mph
Gears 6 Forward, 1 Reverse	Auxiliary Brake Automatic engine valve brake. Automatic retardation through electronic activation of wet brake system.	Lock to lock turns 4,1	4th 29 km/h 18 mph
Clutch Type Hydraulically operated multi-disc	Total Retardation Power 265 kW (355 hp) Continuous 494 kW (662 hp) Maximum	Steering Angle 45°	5th 43 km/h 26 mph
Control Type Electronic			6th 50 km/h 31 mph
Torque Control Hydrodynamic with lock-up in all gears.			R 8 km/h 5 mph
			CAB ROPS/FOPS certified 74 dBA internal sound pressure measured according to ISO 6396.

Load Capacity & Ground Pressure

*OPERATING WEIGHTS		GROUND PRESSURE				LOAD CAPACITY		OPTION WEIGHTS	
UNLADEN	kg (lb)	LADEN				BODY	m³ (yd³)		kg (lb)
Front	11 147 (24 575)	No sinkage/Total Contact Area (as recommended by tyre manufacturer)	Calculation method used by competition	23.5 R 25	kPa (Psi)	Struck Capacity	13,5 (17,6)	Bin liner	853 (1 881)
Middle	5 232 (11 535)					SAE 2:1 Capacity	17,5 (22,9)	Tailgate	785 (1 731)
Rear	4 776 (10 529)	23.5 R 25		23.5 R 25	kPa (Psi)	SAE 1:1 Capacity	21 (27,5)	Wheelset 750/65R25	
Total	21 155 (46 639)	Front	298 (43,2)	Front	134 (19,4)	SAE 2:1 Capacity	18 (23,5)	(per vehicle) Add	642 (1 415)
		Mid/Rear	405 (58,7)	Mid/Rear	169 (24,5)	with tailgate			
LADEN	kg (lb)							EXTRA WHEELSET	
Front	14 517 (32 005)	750/65 R 25		750/65 R 25		Rated Payload	28 000 kg	23.5 R 25	
Middle	17 547 (38 685)	Front	240 (34,8)	Front	111 (16,1)		(61 740 lbs)	(per vehicle) Add	544 (1 199)
Rear	17 091 (37 679)	Mid/Rear	310 (45)	Mid/Rear	143 (20,7)			750/65R25	
Total	49 155 (108 368)							(per vehicle) Add	656 (1 446)

Dimensions

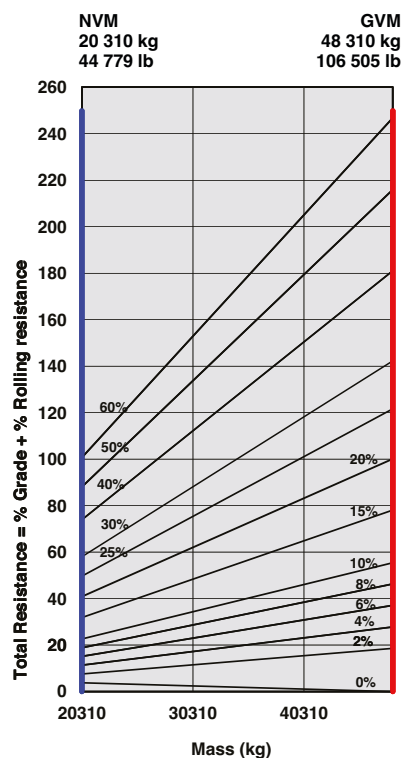
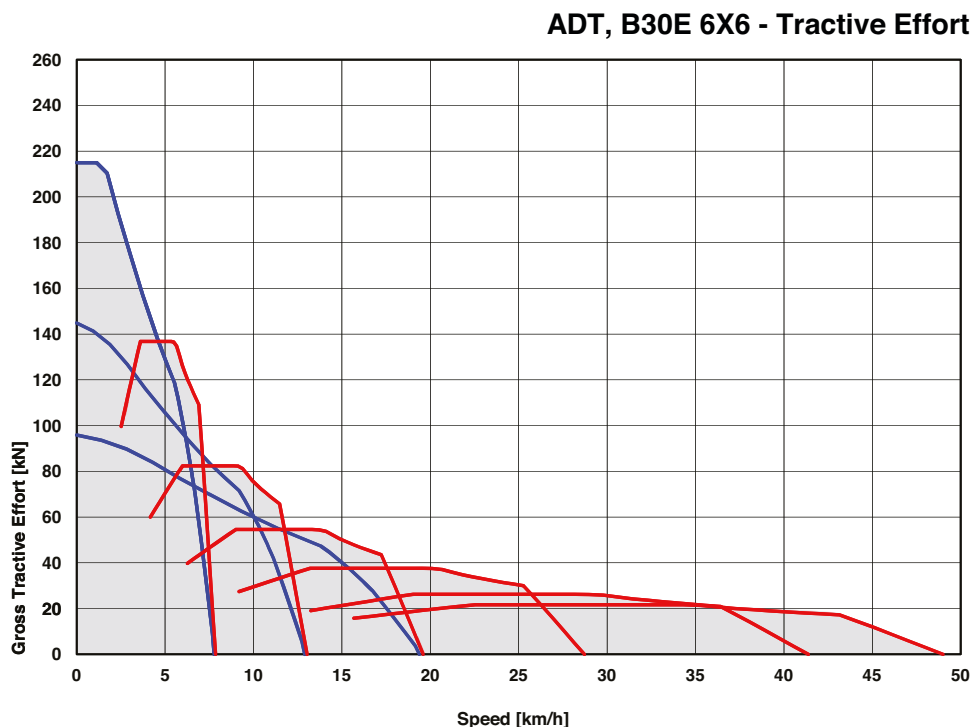


Machine Dimensions

A	Length - Transport Position w/o Tailgate	9 953 mm (32 ft. 7 in.)	J	Ground Clearance - Bin Fully Tipped	675 mm (26.57 in.)
A	Length - Transport Position with Tailgate	9 976 mm (32 ft. 9 in.)	L	Bin Lip Height - Transport Position	2 176 mm (7 ft. 1 in.)
A1	Length - Bin Fully Tipped	10 395 mm (34 ft. 1 in.)	M	Bin Length	5 294 mm (17 ft. 4 in.)
B	Height - Transport Position S5	3 426 mm (11 ft. 2 in.)	N	Load over Height	2 864 mm (9 ft. 4 in.)
B	Height - Transport Position S2	3 500 mm (11 ft. 6 in.)	O	Rear Axle Centre to Bin Rear	1 500 mm (4 ft. 11 in.)
B1	Height - Rotating Beacon	3 723 mm (12 ft. 3 in.)	P	Mid Axle Centre to Rear Axle Centre	1 670 mm (5 ft. 5 in.)
B2	Height - Load Light	3 748 mm (12 ft. 4 in.)	Q	Mid Axle Centre to Front Axle Centre	4 181 mm (13 ft. 8 in.)
B3	Bin Height - Fully Tipped	6 311 mm (20 ft. 8 in.)	R	Front Axle Centre to Machine Front	2 602 mm (8 ft. 6 in.)
C	Width over Mudguards	2 985 mm (9 ft. 9 in.)	S	Front Axle Centre to Artic Centre	1 362 mm (4 ft. 5 in.)
D	Width over Tyres - 23.5R25	2 940 mm (9 ft. 7 in.)	T	Approach Angle	25°
D1	Width over Tyres - 750/65 R25	2 998 mm (9 ft. 10 in.)	U	Maximum Bin Tip Angle	70°
E	Tyre Track Width - 23.5R25	2 356 mm (7 ft. 8 in.)	V	Maximum Articulation Angle	45°
E1	Tyre Track Width - 750/65 R25	2 260 mm (7 ft. 4 in.)	W	Front Tie Down Height	1 075 mm (3 ft. 6 in.)
F	Width over Bin	2 968 mm (9 ft. 8 in.)	X	Machine Lifting Centres	9 443 mm (30 ft. 11 in.)
F1	Width over Tailgate	3 268 mm (10 ft. 8 in.)	Y	Inner Turning Circle Radius - 23.5R25	4 110 mm (13 ft. 5 in.)
G	Width over Mirrors - Operating Position	3 260 mm (10 ft. 8 in.)	Y1	Inner Turning Circle Radius - 750/65 R25	4 081 mm (13 ft. 4 in.)
H	Ground Clearance - Artic	537 mm (21.14 in.)	Z	Outer Turning Circle Radius - 23.5R25	8 000 mm (26 ft. 2 in.)
I	Ground Clearance - Front Axle	488 mm (19.21 in.)	Z1	Outer Turning Circle Radius - 750/65 R25	8 029 mm (26 ft. 4 in.)

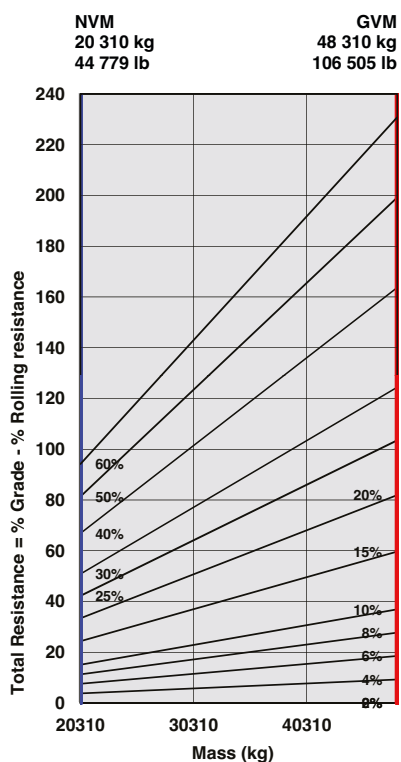
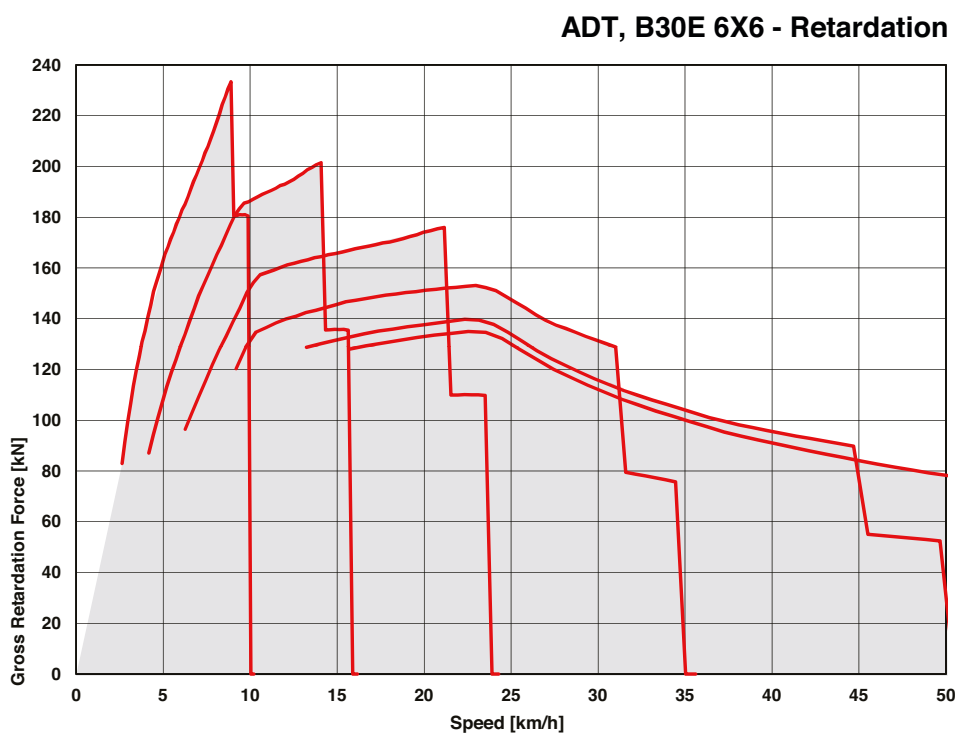
Gradeability/Rimpull

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.



B18E	B25E (6x4)	B25E	B30E			B18E	B25E (6x4)	B25E	B30E		
				ENGINE						CAB (continued)	
●	●	●	●	Engine valve brake and exhaust brake		●	▲	▲	▲	High visibility mirrors	
●	●	●	●	Dual element air cleaner with dust ejector valve		●	●	●	●	12-volt power outlet	
●	●	●	●	Precleaner with automatic dust scavenging		▲	▲	▲	▲	Cup holder	
●	●	●	●	Water separator		●	●	●	●	Electric adjustable and heated mirrors	
●	●	●	●	Serpentine drive belt with automatic tensioner		●	●	●	●	Cooled/heated lunch box	
				COOLING						Backlit sealed switch module functions with:	
●	●	●	●	Crankshaft mounted electronically controlled viscous fan drive						Wiper control / Lights / Heated mirrors /	
●	●	●	●	Fan guard						Retarding aggressiveness / Transfer case	
				PNEUMATIC SYSTEM						differential lock / Transmission gear hold /	
●	●	●	●	Engine-mounted compressor		●	●	●	●	Dump-body tip limit / Automatic dump-	
●	●	●	●	Air drier with heater						body tip settings / Airconditioner/Heater	
●	●	●	●	Integral unloader valve						controls / Preselected Speed Control	
				ELECTRICAL SYSTEM						Deluxe 10" colour LCD:	
●	●	●	●	Battery disconnect						Speedometer / Fuel gauge /	
●	●	●	●	Drive lights						Transmission oil temperature gauge /	
●	●	●	●	Air horn						Engine coolant temperature gauge /	
●	●	●	●	Reverse alarm						LED function/warning indicators and	
▲	▲	▲	▲	White noise reverse alarm						audible alarm / Transmission gear selection /	
●	●	●	●	Rotating beacon						Tachometer / Battery voltage / Hour meter /	
●	●	●	●	Pitch Roll sensor						Odometer / Fuel consumption / Tip counter /	
▲	▲	▲	▲	LED Artic reverse light						Trip timer / Trip distance / Metric/English units /	
▲	▲	▲	▲	Halogen Artic reverse light						Service codes/diagnostics	
●	●	●	●	LED reverse light						DUMP BODY	
				STEERING SYSTEM		●	●	●	●	Partial up dump-body mechanical	
▲	▲	▲	▲	Bi-directional ground driven secondary steering pump		▲	▲	●	●	Fully up dump-body mechanical lock	
●	●	●	●	Ground-driven secondary steering pump		▲	▲	▲	▲	Body liner	
				CAB		▲		▲	▲	Tailgate	
●	●	●	●	ROPS/FOPS certification				▲	▲	Body heater	
●	●	●	●	Tilt cab						Less dump body and cylinders	
●	●	●	●	Gas strut-supported door		▲	▲	▲	▲	Greedy boards (200 mm)	
●	●	●	●	I-Tip programmable dump-body tip settings						Triangular bin caps	
●	●	●	●	HVAC Climate control system						OTHER	
●	●	●	●	AM/FM radio with Aux + USB		●	●	●	●	Automatic Traction Control (ATC)	
●	●	●	●	Rear window guard		●		●	●	20.5R25 Radial earthmover tyres	
●	●	●	●	Wiper/washer with intermittent control		▲	▲	▲	▲	23.5R25 Radial earthmover tyres	
▲	▲	▲	▲	Extra wide wiper system						750/65R25 Radial earthmover tyres	
●	●	●	●	Tilt and telescoping steering wheel						Remote grease banks	
●	●	●	●	Centre-mount air-suspension seat		▲	▲	▲	▲	Automatic greasing	
●	●	●	●	Retractable 3-point seat belt		●	●	●	●	Onboard weighing	
●	●	●	●	Foldaway trainer seat with retractable seat belt		▲	▲	▲	▲	Load lights: stack	
▲	▲	▲	▲	Rotating beacon: seat belt installation						Comfort ride suspension (Front)	
●	●	●	●	Halogen work lights		▲	▲	▲	▲	Comfort ride suspension (Rear)	
▲	▲	▲	▲	LED work lights						Reverse camera	
▲	▲	▲	▲	Remote engine and machine isolation		●	●	●	●	HSE hand rails	
●	●	●	●	Remote battery jump start		▲	▲	▲	▲	Cab peak	
						▲	▲	▲	▲	High pressure hydraulic filter	
						●	●	●	●	Fuel heater	
										Belly cover	
						▲	▲	▲	▲	Cross member cover	
						▲	▲	▲	▲	Remote transmission filters	
						▲	▲	▲	▲	Window smash button	
						●	●	●	●	Electronic bonnet opening	
						▲	▲	▲	▲	Engine oil quick drain connector	

*PDS Hardware option