

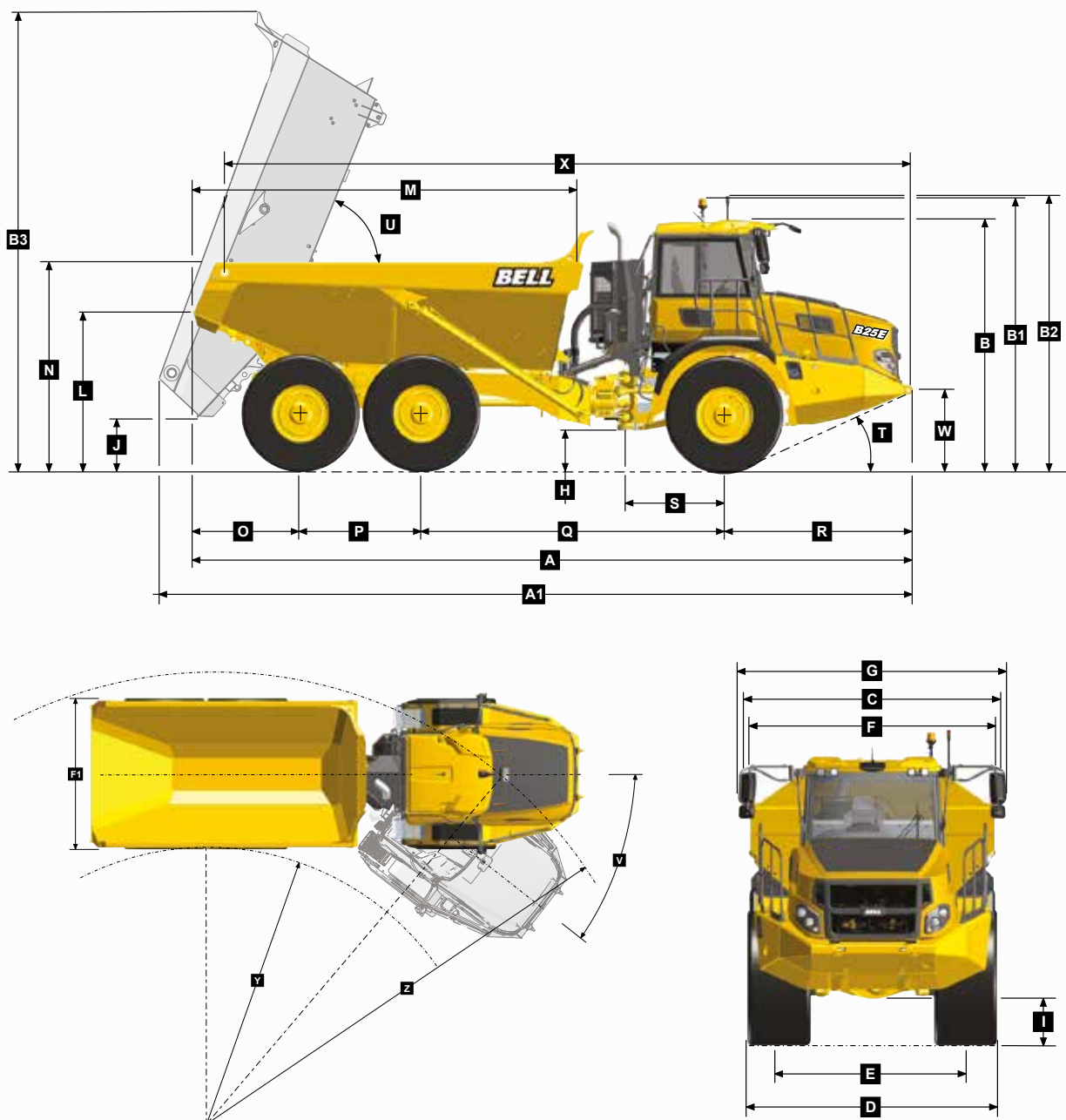
B25E Articulated Dump Truck

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 205 kW (275 hp) @ 2 200 rpm in accordance with UN ECE R120		Gear Layout Three in-line helical gears		REAR SUSPENSION Pivoting walking beams with laminated rubber suspension blocks. Optional passive dual-springrate Comfort Ride walkingbeam available.		Tipping Angle 70° standard, or any lower angle programmable	
Gross Torque 1 100 Nm (811 lbft) @ 1 200 -1 600 rpm		Output Differential Interaxle 33/67 proportional differential. Automatic inter-axle differential lock.				PNEUMATIC SYSTEM Air drier with heater and integral unloader valve, serving park brake and auxiliary functions.	
Displacement 6,37 litres (389 cu.in)		AXLES Manufacturer Bell		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.		System Pressure 8,1 Bar (117 psi)	
Auxiliary Brake Exhaust Valve Brake Engine Valve Brake		Model 15T				ELECTRICAL SYSTEM Voltage 24 V	
Fuel Tank Capacity 379 litres (100 US gal)		Differential High input limited slip differential with spiral bevel gears.		VEHICLE SPEEDS		Battery Type Two AGM (Absorption Glass Mat) type	
Certification OM906LA 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 Manufacturer Allison		BRAKING SYSTEM Service Brake Dual circuit, full hydraulic actuation dry disc brakes with 8 calipers.		Pump Type Variable displacement load sensing piston		Alternator Rating 28 V 80 A	
Model 3500PR ORS		Maximum brake force: 160,5 kN (36 081 lbf)		Flow 202 L/min (53 gal/min)		1st 7 km/h 4 mph	
Configuration Fully automatic planetary transmission with integral retarder.		Park & Emergency Spring applied, air released driveline mounted disc.		Pressure 310 Bar (4 500 psi)		2nd 15 km/h 9 mph	
Layout Engine mounted		Maximum brake force: 195 kN (43 900 lbf)		Filter 5 microns		3rd 23 km/h 14 mph	
Gear layout Constant meshing planetary gears, clutch operated		Auxiliary Brake Automatic exhaust valve brake and engine valve brake. Automatic, adjustable, integral, hydrodynamic transmission retarder. Output shaft speed dependant.		STEERING SYSTEM Double acting cylinders, with ground-driven emergency steering pump.		4th 35 km/h 22 mph	
Gears 6 Forward, 1 Reverse		Total Retardation Power 250kW (335 hp) Continuous 539 kW (723 hp) Maximum		Lock to lock turns 4,1		5th 47 km/h 29 mph	
Clutch Type Hydraulically operated multi-disc				Steering Angle 45°		6th 50 km/h 31 mph	
Control Type Electronic						R 7 km/h 4 mph	
Torque Control Hydrodynamic with lock-up in all gears						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	9 832 (21 676)	No sinkage/Total Contact Area (as recommended by tyre manufacturer)		Calculation method used by competition		Struck Capacity	11,5 (15)	Bin liner	751 (1 656)
Middle	4 697 (10 335)					SAE 2:1 Capacity	15 (19,5)	Tailgate	735 (1 621)
Rear	4 657 (10 267)					23.5 R 25	kPa (Psi)	23.5 R 25	kPa (Psi)
Total	19 186 (42 298)	Front	267 (38,7)	Front	131 (19)	SAE 2:1 Capacity	15 (19,6)	(per vehicle) Add	642 (1 415)
		Mid/Rear	357 (51,8)	Mid/Rear	155 (22,5)	with tailgate			
LADEN	kg (lb)							EXTRA WHEELSET	
Front	12 572 (27 716)	750/65 R 25		750/65 R 25		Rated Payload	24 000 kg	23.5 R 25	
Middle	15 327 (33 790)	Front	229 (33,2)	Front	106 (15,4)		(52 911 lbs)	(per vehicle) Add	544 (1 199)
Rear	15 287 (33 702)	Mid/Rear	270 (39,1)	Mid/Rear	128 (18,6)			750/65R25	
Total	43 186 (95 209)							(per vehicle) Add	656 (1 446)

Dimensions

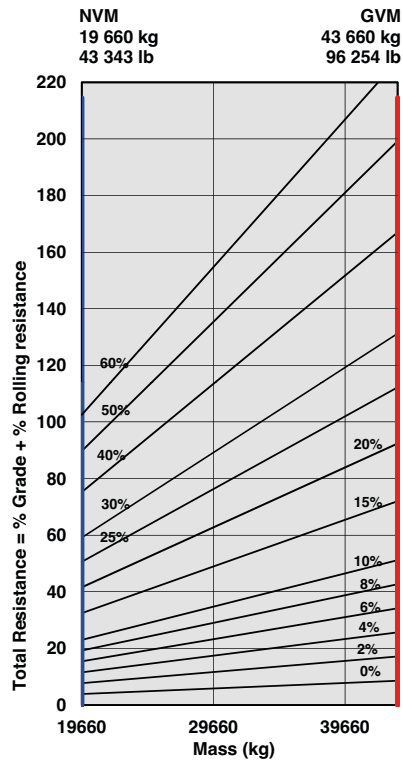


Machine Dimensions

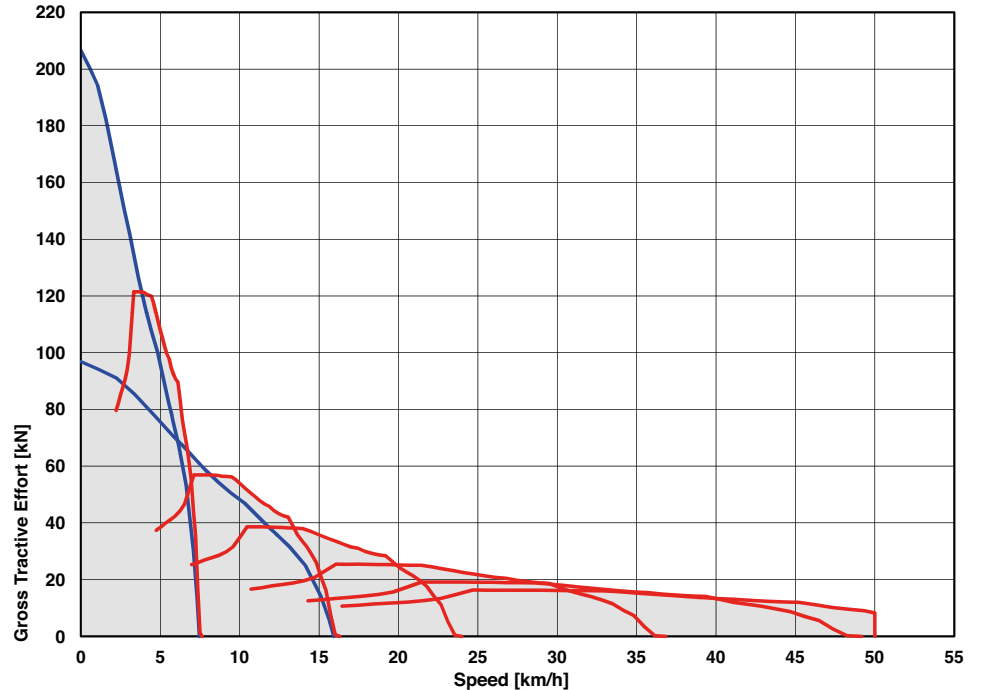
A	Length - Transport Position w/o Tailgate	9 953 mm (32 ft. 7 in.)	L	Bin Lip Height - Transport Position	2 176 mm (7 ft. 1 in.)
A	Length - Transport Position with Tailgate	10 035 mm (32 ft. 11 in.)	M	Bin Length	5 272 mm (17 ft. 3 in.)
A1	Length - Bin Fully Tipped	10 311 mm (33 ft. 9 in.)	N	Load over Height	2 755 mm (9 ft.)
B	Height - Transport Position S5	3 426 mm (11 ft. 2 in.)	O	Rear Axle Centre to Bin Rear	1 500 mm (4 ft. 11 in.)
B	Height - Transport Position S2	3 500 mm (11 ft. 6 in.)	P	Mid Axle Centre to Rear Axle Centre	1 670 mm (5 ft. 5 in.)
B1	Height - Rotating Beacon	3 723 mm (12 ft. 3 in.)	Q	Mid Axle Centre to Front Axle Centre	4 181 mm (13 ft. 8 in.)
B2	Height - Load Light	3 748 mm (12 ft. 4 in.)	R	Front Axle Centre to Machine Front	2 602 mm (8 ft. 6 in.)
B3	Bin Height - Fully Tipped	6 258 mm (20 ft. 6 in.)	S	Front Axle Centre to Artic Centre	1 362 mm (4 ft. 5 in.)
C	Width over Mudguards	2 985 mm (9 ft. 9 in.)	T	Approach Angle	25°
D	Width over Tyres - 23.5R25	2 940 mm (9 ft. 7 in.)	U	Maximum Bin Tip Angle	70°
F	Width over Bin	2 700 mm (8 ft. 10 in.)	V	Maximum Articulation Angle	45°
F1	Width over Tailgate	2 998 mm (9 ft. 10 in.)	W	Front Tie Down Height	1 075 mm (3 ft. 6 in.)
G	Width over Mirrors - Operating Position	3 260 mm (10 ft. 8 in.)	X	Machine Lifting Centres	9 477 mm (31 ft. 1 in.)
H	Ground Clearance - Artic	537 mm (21.14 in.)	Y	Inner Turning Circle Radius - 23.5R25	4 110 mm (13 ft. 5 in.)
I	Ground Clearance - Front Axle	488 mm (19.21 in.)	Z	Outer Turning Circle Radius - 23.5R25	8 000 mm (26 ft. 2 in.)
J	Ground Clearance - Bin Fully Tipped	675 mm (26.57 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.

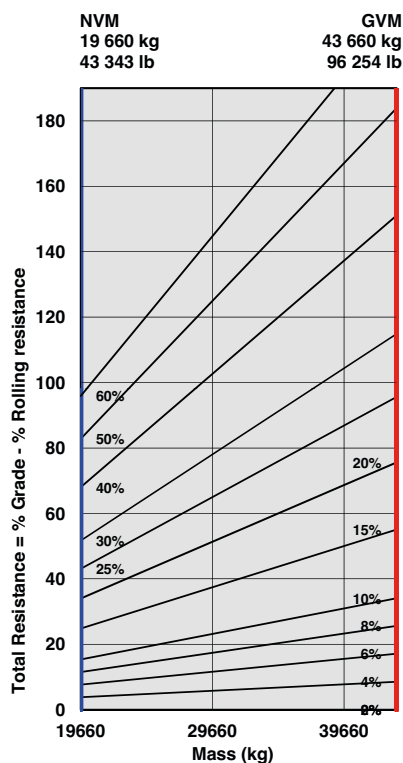


ADT, B25E 6X6 - Tractive Effort

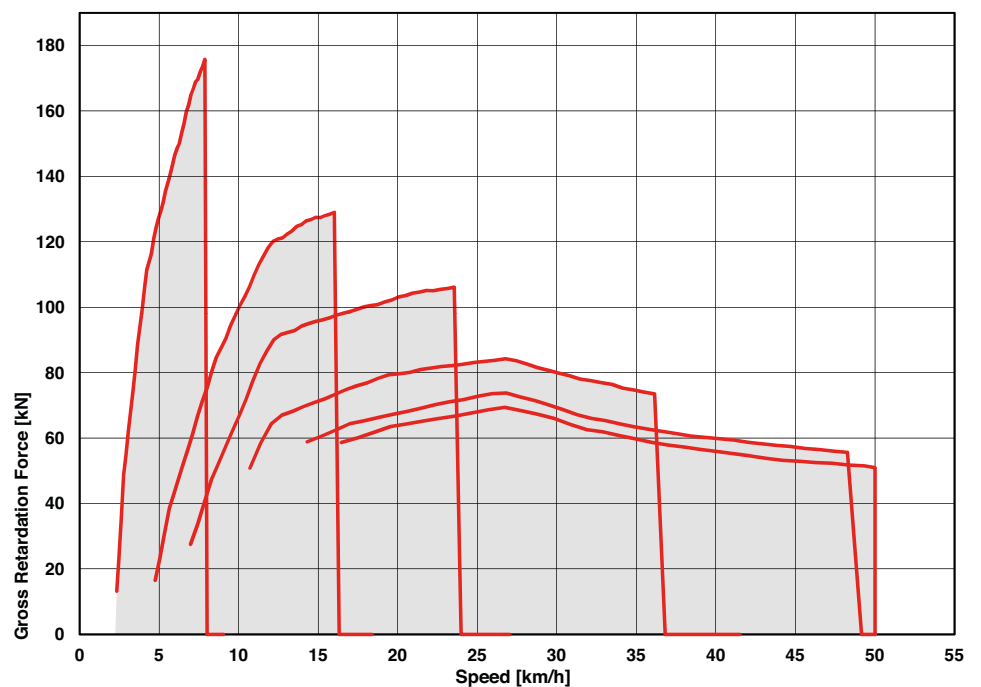


Retardation

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.



ADT, B25E 6X6 - Retardation



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							
				STEERING SYSTEM						DUMP BODY	
▲	▲	▲	▲	Bi-directional ground driven secondary steering pump		●	●	●	●	Partial up dump-body mechanical	
●	●	●	●	Ground-driven secondary steering pump		▲	▲	●	●	Fully up dump-body mechanical lock	
				CAB		▲	▲	▲	▲	Body liner	
●	●	●	●	ROPS/FOPS certification		▲		▲	▲	Tailgate	
●	●	●	●	Tilt cab				▲	▲	Body heater	
●	●	●	●	Gas strut-supported door				▲	▲	Less dump body and cylinders	
●	●	●	●	I-Tip programmable dump-body tip settings		▲	▲	▲	▲	Greedy boards (200 mm)	
●	●	●	●	HVAC Climate control system				▲	▲	Triangular bin caps	
●	●	●	●	AM/FM radio with Aux + USB							
●	●	●	●	Rear window guard							
●	●	●	●	Wiper/washer with intermittent control							
▲	▲	▲	▲	Extra wide wiper system							
●	●	●	●	Tilt and telescoping steering wheel							
●	●	●	●	Centre-mount air-suspension seat							
●	●	●	●	Retractable 3-point seat belt							
●	●	●	●	Foldaway trainer seat with retractable seat belt							
▲	▲	▲	▲	Rotating beacon: seat belt installation							
●	●	●	●	Halogen work lights							
▲	▲	▲	▲	LED work lights							
▲	▲	▲	▲	Remote engine and machine isolation							
●	●	●	●	Remote battery jump start							
										OTHER	
						●	●	●	●	Automatic Traction Control (ATC)	
						●	●			20.5R25 Radial earthmover tyres	
								●	●	23.5R25 Radial earthmover tyres	
								▲	▲	750/65R25 Radial earthmover tyres	
						●	●	●	●	Remote grease banks	
						▲	▲	▲	▲	Automatic greasing	
						●	●	●	●	Onboard weighing	
						▲	▲	▲	▲	Load lights: stack	
								▲	▲	Comfort ride suspension (Front)	
								▲	▲	Comfort ride suspension (Rear)	
						▲	▲	▲	▲	Reverse camera	
								▲	▲	HSE hand rails	
						●	●	●	●	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