

B25E

6X4 SUPERTRUCK

Articulated Dump Truck



- Gross Power: 205 kW (275 hp)
- Gross Torque: 1 100 Nm (811 lbft)
- Rated Payload: 24 000 kg (52 911 lbs)

BELL

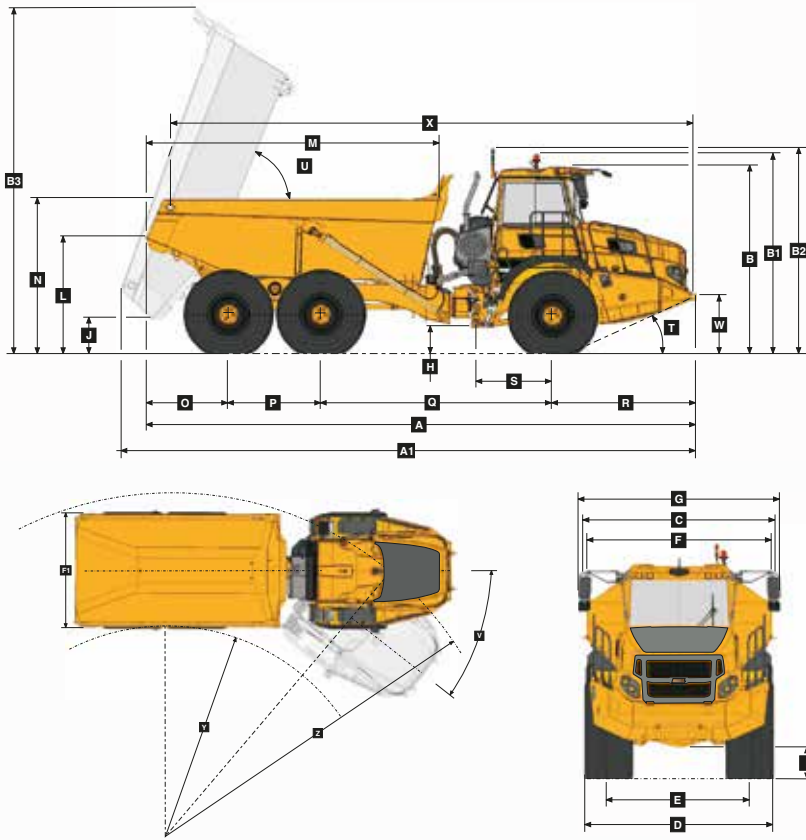
Technical Data - B25E 6x4 Supertruck

<p>ENGINE</p> <p>Manufacturer Mercedes Benz</p> <p>Model OM906LA</p> <p>Configuration Inline 6, turbocharged and intercooled.</p> <p>Gross Power 205 kW (275 hp) @ 2 200 rpm</p> <p>Net Power 198 kW (265 hp) @ 2 200 rpm</p> <p>Gross Torque 1 100 Nm (811 lbf) @ 1 200 -1 600 rpm</p> <p>Displacement 6,37 litres (389 cu.in)</p> <p>Auxiliary Brake Exhaust Valve Brake Engine Valve Brake</p> <p>Fuel Tank Capacity 379 litres (100 US gal)</p> <p>Certification OM906LA meets EU Stage II / EPA Tier 2 emissions regulations</p>	<p>TRANSFER CASE</p> <p>Manufacturer Bell VGR</p> <p>Model 8100</p> <p>Layout Remote mounted</p> <p>Gear Layout Three in-line helical gears</p> <p>Output Differential Interaxle 33/67 proportional differential. Automatic inter-axle differential lock.</p>	<p>WHEELS</p> <p>Type Radial Earthmover</p> <p>Tyre 20.5 R 25</p>	<p>PNEUMATIC SYSTEM</p> <p>Air drier with heater and integral unloader valve, serving park brake and auxiliary functions.</p> <p>System Pressure 810 kPa (117 psi)</p>																					
<p>TRANSMISSION</p> <p>Manufacturer Allison</p> <p>Model 3500PR ORS</p> <p>Configuration Fully automatic planetary transmission with integral retarder.</p> <p>Layout Engine mounted</p> <p>Gear layout Constant meshing planetary gears, clutch operated</p> <p>Gears 6 Forward, 1 Reverse</p> <p>Clutch Type Hydraulically operated multi-disc</p> <p>Control Type Electronic</p> <p>Torque Control Hydrodynamic with lock-up in all gears</p>	<p>AXLES</p> <p>Manufacturer Bell</p> <p>Model 15T</p> <p>Differential High input limited slip differential with spiral bevel gears</p> <p>Final Drive Outboard heavy duty planetary on all axles</p>	<p>FRONT SUSPENSION</p> <p>Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts.</p> <p>REAR SUSPENSION</p> <p>Pivoting walking beams with laminated rubber suspension blocks</p> <p>HYDRAULIC SYSTEM</p> <p>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.</p> <p>Pump Type Variable displacement load sensing piston</p> <p>Flow 165 l/min (44 gal/min)</p> <p>Pressure 28 Mpa (4 061 psi)</p> <p>Filter 5 microns</p> <p>STEERING SYSTEM</p> <p>Double acting cylinders, with ground-driven emergency steering pump</p> <p>Lock to lock turns 4.1</p> <p>Steering Angle 45°</p> <p>DUMPING SYSTEM</p> <p>Two double-acting, single stage, dump cylinders</p> <p>Raise Time 14,5 s</p> <p>Lowering Time 7,5 s</p> <p>Tipping Angle 70° standard, or any lower angle programmable</p>	<p>ELECTRICAL SYSTEM</p> <p>Voltage 24 V</p> <p>Battery Type Two AGM (Absorption Glass Mat) type</p> <p>Battery Capacity 2 X 75 Ah</p> <p>Alternator Rating 28 V 80 A</p> <p>VEHICLE SPEEDS</p> <table border="1"> <tbody> <tr> <td>1st</td> <td>9 km/h</td> <td>6 mph</td> </tr> <tr> <td>2nd</td> <td>18 km/h</td> <td>11 mph</td> </tr> <tr> <td>3rd</td> <td>27 km/h</td> <td>17 mph</td> </tr> <tr> <td>4th</td> <td>41 km/h</td> <td>25 mph</td> </tr> <tr> <td>5th</td> <td>50 km/h</td> <td>31 mph</td> </tr> <tr> <td>6th</td> <td>50 km/h</td> <td>31 mph</td> </tr> <tr> <td>R</td> <td>8 km/h</td> <td>5 mph</td> </tr> </tbody> </table> <p>CAB</p> <p>ROPS/FOPS certified 74 dBA internal sound level measured according to ISO 6396.</p>	1st	9 km/h	6 mph	2nd	18 km/h	11 mph	3rd	27 km/h	17 mph	4th	41 km/h	25 mph	5th	50 km/h	31 mph	6th	50 km/h	31 mph	R	8 km/h	5 mph
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Load Capacity & Ground Pressure

OPERATING WEIGHTS		GROUND PRESSURE		LOAD CAPACITY		OPTION WEIGHTS	
UNLADEN	kg (lb)	LADEN (No sinkage - Total Contact Area)		BODY	m ³ (yd ³)		kg (lb)
Front	9 640 (21 253)	20.5 R 25	kPa (Psi)	Struck Capacity	12 (15,7)	Extra wheelset	370 (816)
Middle	4 190 (9 237)	Front	305 (44)	SAE 2:1 Capacity	15 (19,5)		
Rear	3 930 (8 664)	Middle	355 (51)	SAE 1:1 Capacity	18 (23,5)		
Total	17 760 (39 154)	Rear	355 (51)	SAE 2:1 Capacity with Autogate	15,5 (20,3)		
LADEN		LADEN (15% sinkage)					
Front	12 370 (27 271)	Front	258 (37)	Rated Payload	24 000 kg		
Middle	14 760 (32 540)	Middle	301 (44)		(52 911 lbs)		
Rear	14 630 (32 254)	Rear	301 (44)				
Total	41 760 (92 065)						

Dimensions

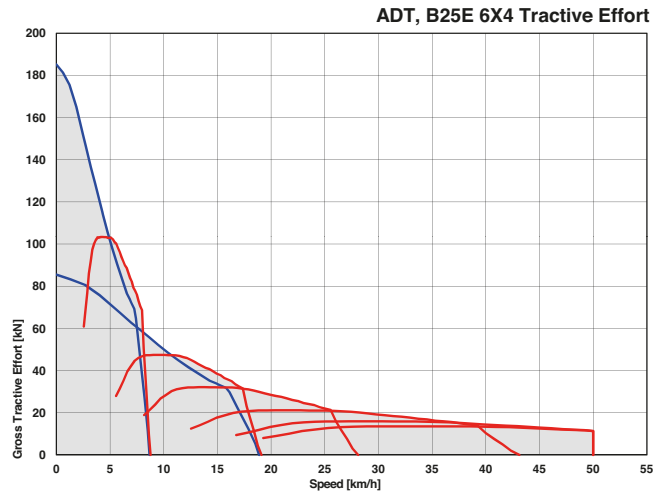
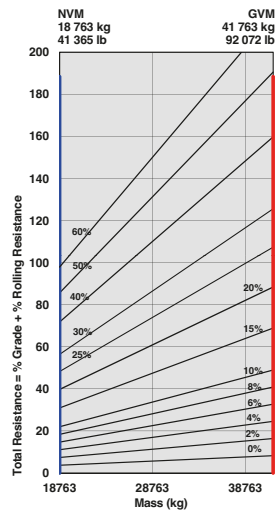


Machine Dimensions

A	Length - Transport Position	9953 mm
A1	Length - Bin Fully Tipped	10311 mm
B	Height - Transport Position	3373 mm
B1	Height - Rotating Beacon	3598 mm
B2	Height - Load Light	3693 mm
B3	Bin Height - Fully Tipped	6198 mm
C	Width over Mudguards	2985 mm
D	Width over Tyres - 20.5R25	2850 mm
E	Tyre Track Width - 20.5R25	2322 mm
F	Width over Bin	2700 mm
F1	Width over Tailgate	2998 mm
G	Width over Mirrors - Operating Position	3260 mm
H	Ground Clearance - Artic	490 mm
I	Ground Clearance - Front Axle	435 mm
J	Ground Clearance - Bin Fully Tipped	615 mm
K	Ground Clearance - Under Run Bar	N/A
L	Bin Lip Height - Transport Position	2116 mm
M	Bin Length	5272 mm
N	Load over Height	2703 mm
O	Rear Axle Centre to Bin Rear	1500 mm
P	Mid Axle Centre to Rear Axle Centre	1670 mm
Q	Mid Axle Centre to Front Axle Centre	4181 mm
R	Front Axle Centre to Machine Front	2602 mm
S	Front Axle Centre to Artic Centre	1362 mm
T	Approach Angle	24 °
U	Maximum Bin Tip Angle	70 °
V	Maximum Articulation Angle	45 °
W	Front Tie Down Height	1024 mm
X	Machine Lifting Centres	9477 mm
Y	Inner Turning Circle Radius - 20.5R25	4155 mm
Z	Outer Turning Circle Radius - 20.5R25	7955 mm

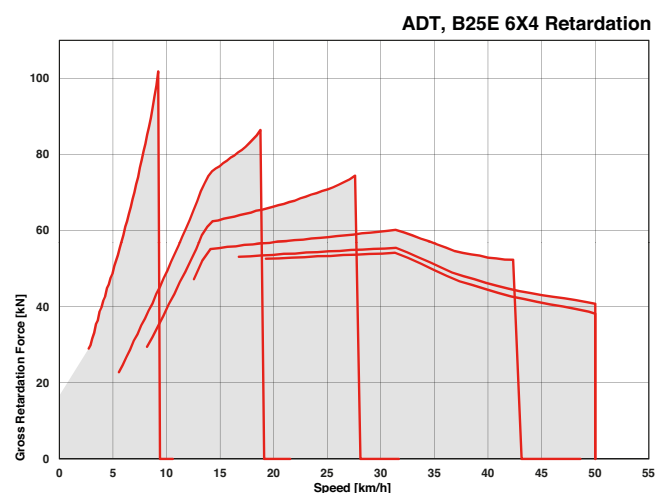
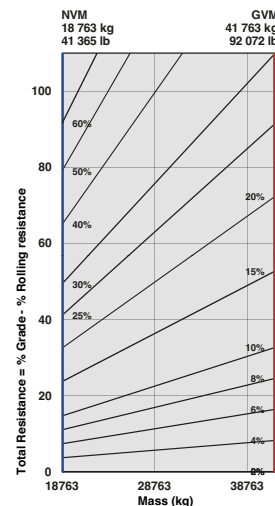
Grade Ability/Rimpull

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 left 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 left 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.



Features and Options

B25E

● STANDARD ▲ OPTION

ENGINE

- Engine valve brake and exhaust brake
- Dual element air cleaner with dust ejector valve
- Precleaner with automatic dust scavenging
- Water separator
- Serpentine drive belt with automatic tensioner

COOLING

- Crankshaft mounted electronically controlled viscous fan drive
- Fan guard

PNEUMATIC SYSTEM

- Engine-mounted compressor
- Air drier with heater
- Integral unloader valve

ELECTRICAL SYSTEM

- Battery disconnect
- Drive lights
- ▲ Deluxe work lights
- Air Horn
- Reverse alarm
- Rotating beacon
- Pitch Roll sensor
- ▲ Artic reverse light

STEERING SYSTEM

- Ground-driven secondary steering pump
- ▲ Bi-directional ground driven secondary steering pump

CAB

Standard Cab

- ROPS/FOPS certification
- Tilt cab
- Gas strut-supported door
- I-Tip programmable dump-body tip settings
- HVAC Climate control system
- Rear window guard
- Wiper/washer with intermittent control
- Tilt and telescoping steering wheel
- Centre-mount air-suspension seat
- Retractable 3-point seat belt
- Foldaway trainer seat with retractable seat belt
- 12-volt power outlet
- Cup holder
- Cooled/heated lunch box
- Backlit sealed switch module functions with:
Wiper control / Lights / Heated mirrors /
Retarding aggressiveness / Transfer case
differential lock / Transmission gear hold /
Dump-body tip limit / Automatic dump-body
tip settings / Airconditioner/ Heater controls /
Preselected Speed Control

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● STANDARD ▲ OPTION

Standard Cab (continued)

- Deluxe 10" colour LCD:
Speedometer / Fuel gauge /
Transmission oil temperature gauge /
Engine coolant temperature gauge /
LED function/warning indicators and audible
alarm / Transmission gear selection /
Tachometer / Battery voltage / Hour meter /
Odometer / Fuel consumption / Tip counter /
Trip timer / Trip distance / Metric/English units /
Service codes/diagnostics

▲ Deluxe Cab

- AM/FM radio/CD player
- Forward work lights
- Electric adjustable and heated mirrors
- Extra wide wiper system

Cab Extras

- ▲ LED work lights
- ▲ Rotating beacon: seat belt installation
- ▲ Remote engine and machine isolation
- ▲ Remote battery jump start
- ▲ High visibility mirrors

DUMP BODY

- Partial up dump-body mechanical lock
- ▲ Fully up dump-body mechanical lock
- ▲ Less dump body and cylinders

OTHER

- Automatic Traction Control (ATC)
- 20.5R25 Radial earthmover tyres
- Remote grease banks
- ▲ Automatic greasing
- Onboard weighing
- ▲ Load lights: stack
- ▲ Comfort ride suspension (Front)
- ▲ Comfort ride suspension (Rear)
- ▲ Reverse camera
- ▲ Hand rails
- Cab peak
- ▲ Fuel heater
- Belly cover
- ▲ Cross member cover
- ▲ Remote transmission filters
- ▲ Window smash button

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

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