

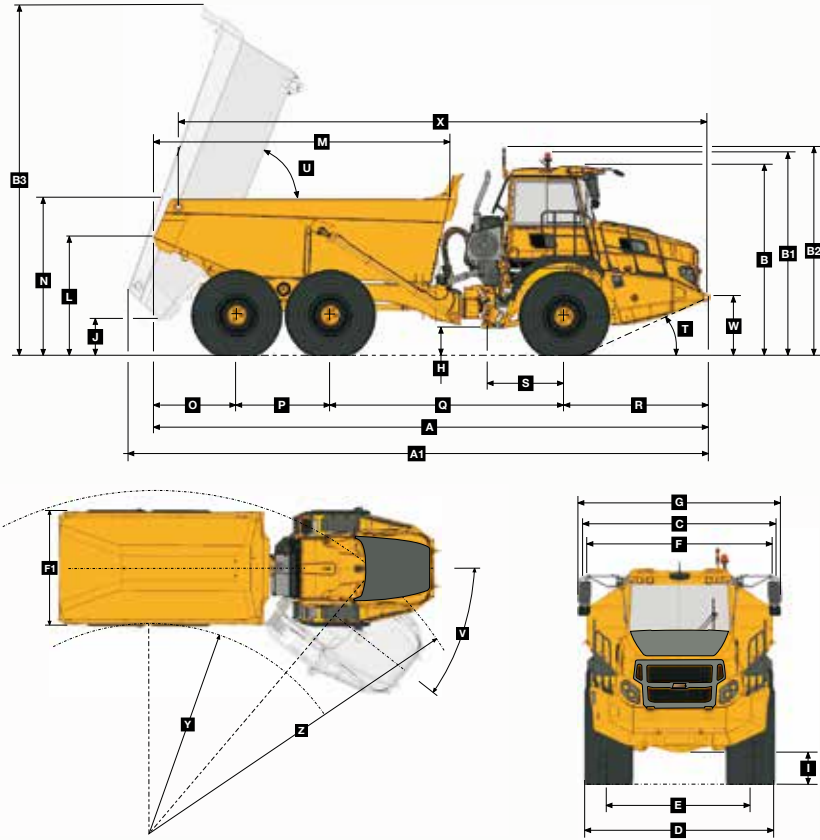
Technical Data - B30E

<p>ENGINE</p> <p>Manufacturer Mercedes Benz</p> <p>Model OM936LA</p> <p>Configuration Inline 6, turbocharged and intercooled.</p> <p>Gross Power 260 kW (348 hp) @ 2 200 rpm</p> <p>Net Power 250 kW (335 hp) @ 2 200 rpm</p> <p>Gross Torque 1 450 Nm (1 069 lbf) @ 1 150 - 1 800 rpm</p> <p>Displacement 7,7 litres (469 cu.in)</p> <p>Auxiliary Brake Engine Valve Brake</p> <p>Fuel Tank Capacity 302 litres (79.78 US gal)</p> <p>AdBlue® Tank Capacity 31 l (8.2 US gal)</p> <p>Certification OM936LA meets EU Stage V emissions regulations.</p>	<p>Torque Control Hydrodynamic with lock-up in all gears.</p> <p>TRANSFER CASE</p> <p>Manufacturer Kessler</p> <p>Series W1400</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>AXLES</p> <p>Manufacturer Bell</p> <p>Model 18T</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>BRAKING SYSTEM</p> <p>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.</p> <p>Maximum brake force: 178 kN (40 000 lbf)</p> <p>Park & Emergency Spring applied, air released driveline mounted disc.</p> <p>Maximum brake force: 214 kN (48 200 lbf)</p> <p>Auxiliary Brake Automatic engine valve brake. Automatic retardation through electronic activation of wet brake system.</p>	<p>Total Retardation Power 335kW (449 hp) Continuous 494kW (662 hp) Maximum</p> <p>WHEELS</p> <p>Type Radial Earthmover</p> <p>Tyre 23.5 R 25 (750/65 R 25 optional)</p> <p>FRONT SUSPENSION Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts.</p> <p>REAR SUSPENSION Pivoting walking beams with laminated rubber suspension blocks.</p> <p>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.</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 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 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>PNEUMATIC SYSTEM Air drier with heater and integral unloader valve, serving park brake and auxiliary functions.</p> <p>System Pressure 810 kPa (117 psi)</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 28V 80A</p> <p>VEHICLE SPEEDS</p> <table border="0"> <tr><td>1st</td><td>7 km/h</td><td>4 mph</td></tr> <tr><td>2nd</td><td>15 km/h</td><td>9 mph</td></tr> <tr><td>3rd</td><td>23 km/h</td><td>14 mph</td></tr> <tr><td>4th</td><td>35 km/h</td><td>22 mph</td></tr> <tr><td>5th</td><td>47 km/h</td><td>29 mph</td></tr> <tr><td>6th</td><td>50 km/h</td><td>31 mph</td></tr> <tr><td>R</td><td>7 km/h</td><td>4 mph</td></tr> </table> <p>CAB ROPS/FOPS certified 72 dBA internal sound level measured according to ISO 6396.</p>	1st	7 km/h	4 mph	2nd	15 km/h	9 mph	3rd	23 km/h	14 mph	4th	35 km/h	22 mph	5th	47 km/h	29 mph	6th	50 km/h	31 mph	R	7 km/h	4 mph
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Load Capacity & Ground Pressure

OPERATING WEIGHTS		GROUND PRESSURE				LOAD CAPACITY		OPTION WEIGHTS	
UNLADEN	kg (lb)	LADEN-No sinkage		LADEN-15% sinkage		BODY	m³ (yd³)		kg (lb)
Front	10 790 (23 788)	23.5 R 25	kPa (Psi)	23.5 R 25	kPa (Psi)	Struck Capacity	14 (18,3)	Bin liner	1 182 (2 606)
Middle	4 990 (11 001)	Front	282 (41)	Front	246 (36)	SAE 2:1 Capacity	17,5 (22,9)	Tailgate	825 (1 818)
Rear	4 530 (9 987)	Middle	380 (55)	Middle	317 (46)	SAE 1:1 Capacity	21 (27,5)	Extra wheelset	
Total	20 310 (44 779)	Rear	380 (55)	Rear	317 (46)	SAE 2:1 Capacity		(23.5 R 25)	565 (1 246)
LADEN						with Tailgate	18 (23,5)	Extra wheelset	
Front	13 500 (29 760)	750/65 R 25	kPa (Psi)	750/65 R 25	kPa (Psi)			(750/65 R 25)	738 (1 627)
Middle	17 405 (38 371)	Front	235 (34)	Front	213 (31)	Rated Payload	28 000 kg		
Rear	17 365 (38 283)	Middle	310 (45)	Middle	274 (40)		(61 729 lbs)		
Total	48 310 (106 505)	Rear	310 (45)	Rear	274 (40)				

Dimensions

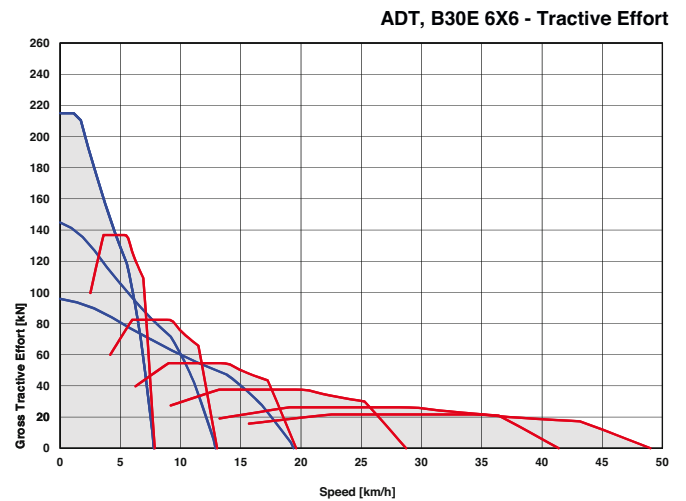
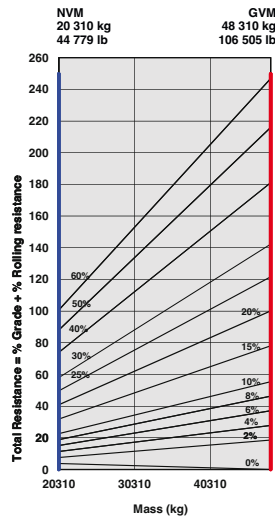


Machine Dimensions

A	Length - Transport Position	9953 mm (32 ft. 7 in.)
A1	Length - Bin Fully Tipped	10395 mm (34 ft. 1 in.)
B	Height - Transport Position	3426 mm (11 ft. 2 in.)
B1	Height - Rotating Beacon	3661 mm (12 ft.)
B2	Height - Load Light	3747 mm (12 ft. 3 in.)
B3	Bin Height - Fully Tipped	6307 mm (20 ft. 8 in.)
C	Width over Mudguards	2985 mm (9 ft. 9 in.)
D	Width over Tyres - 23.5 R25	2940 mm (9 ft. 7 in.)
D1	Width over Tyres - 750/65 R25	2998 mm (9 ft. 10 in.)
E	Tyre Track Width - 23.5 R25	2356 mm (7 ft. 8 in.)
E1	Tyre Track Width - 750/65 R25	2260 mm (7 ft. 4 in.)
F	Width over Bin	2968 mm (9 ft. 8 in.)
F1	Width over Tailgate	3268 mm (10 ft. 8 in.)
G	Width over Mirrors - Operating Position	3260 mm (10 ft. 8 in.)
H	Ground Clearance - Artic	537 mm (21.14 in.)
I	Ground Clearance - Front Axle	488 mm (19.21 in.)
J	Ground Clearance - Bin Fully Tipped	670 mm (26.38 in.)
K	Ground Clearance - Under Run Bar	N/A
L	Bin Lip Height - Transport Position	2176 mm (7 ft. 1 in.)
M	Bin Length	5294 mm (17 ft. 4 in.)
N	Load over Height	2864 mm (9 ft. 4 in.)
O	Rear Axle Centre to Bin Rear	1500 mm (4 ft. 11 in.)
P	Mid Axle Centre to Rear Axle Centre	1670 mm (5 ft. 5 in.)
Q	Mid Axle Centre to Front Axle Centre	4181 mm (13 ft. 8 in.)
R	Front Axle Centre to Machine Front	2602 mm (8 ft. 6 in.)
S	Front Axle Centre to Artic Centre	1362 mm (4 ft. 5 in.)
T	Approach Angle	25°
U	Maximum Bin Tip Angle	70°
V	Maximum Articulation Angle	45°
W	Front Tie Down Height	1075 mm (3 ft. 6 in.)
X	Machine Lifting Centres	9443 mm (30 ft. 11 in.)
Y	Inner Turning Circle Radius - 23.5 R25	4110 mm (13 ft. 5 in.)
Y1	Inner Turning Circle Radius - 750/65 R25	4081 mm (13 ft. 4 in.)
Z	Outer Turning Circle Radius - 23.5 R25	8000 mm (26 ft. 2 in.)
Z1	Outer Turning Circle Radius - 750/65 R25	8029 mm (26 ft. 4 in.)

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 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.

