

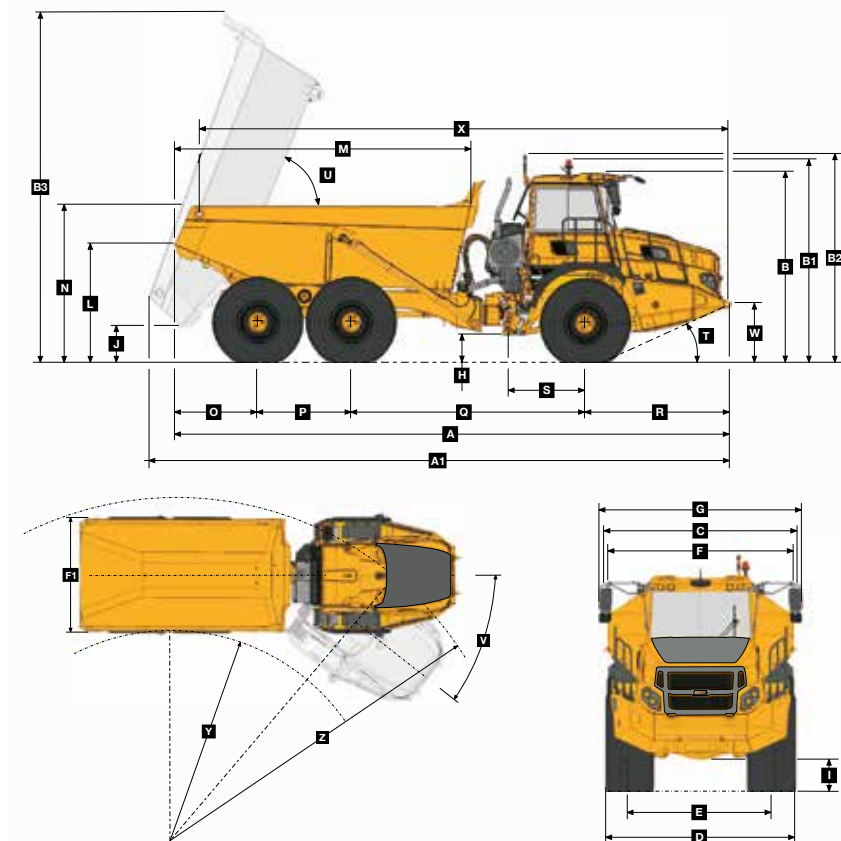
Technical Data - B30E

ENGINE Manufacturer Mercedes Benz Model OM936LA Configuration Inline 6, turbocharged and intercooled. Gross Power 246 kW (329 hp) @ 2 200 rpm Net Power 236 kW (316 hp) @ 2 200 rpm Gross Torque 1 300 Nm (958 lbf) @ 1 150 -1 800 rpm Displacement 7,7 litres (469 cu.in) Auxiliary Brake Engine Valve Brake Fuel Tank Capacity 302 litres (79.78 US gal) AdBlue® Tank Capacity 31 l (8.2 US gal) Certification OM936LA meets EU Stage IV / EPA Tier 4 Final emissions regulations.	TRANSFER CASE Manufacturer Kessler Series W1400 Layout Remote mounted Gear Layout Three in-line helical gears Output Differential Interaxle 33/67 proportional differential. Automatic inter-axle differential lock.	WHEELS Type Radial Earthmover Tyre 23.5 R 25 (750/65 R 25 optional) FRONT SUSPENSION Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts. REAR SUSPENSION Pivoting walking beams with laminated rubber suspension blocks. 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. Pump Type Variable displacement load sensing piston Flow 165 l/min (44 gal/min) Pressure 28 MPa (4 061 psi) Filter 5 microns STEERING SYSTEM Double acting cylinders, with ground-driven emergency steering pump. Lock to lock turns 4,1 Steering Angle 45° DUMPING SYSTEM Two double-acting, single stage, dump cylinders. Raise Time 14,5 s Lowering Time 7,5 s Tipping Angle 70° standard, or any lower angle programmable	PNEUMATIC SYSTEM Air drier with heater and integral unloader valve, serving park brake and auxiliary functions. System Pressure 810 kPa (117 psi) ELECTRICAL SYSTEM Voltage 24 V Battery Type Two AGM (Absorption Glass Mat) type. Battery Capacity 2 X 75 Ah Alternator Rating 28V 80A VEHICLE SPEEDS <table><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> CAB ROPS/FOPS certified 74 dBA internal sound level measured according to ISO 6396.	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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TRANSMISSION Manufacturer Allison Model 3500PR ORS Configuration Fully automatic planetary transmission with integral retarder. Layout Engine mounted Gear Layout Constant meshing planetary gears, clutch operated Gears 6 Forward, 1 Reverse Clutch Type Hydraulically operated multi-disc Control Type Electronic Torque Control Hydrodynamic with lock-up in all gears.	BRAKING SYSTEM Service Brake Dual circuit, full hydraulic actuation wet disc brakes on front, middle and rear axles. Maximum brake force: 233 kN (52 380 lbf) Park & Emergency Spring applied, air released driveline mounted disc. Maximum brake force: 214 kN (48 200 lbf) Auxiliary Brake Automatic engine valve brake. Automatic, adjustable, integral, hydrodynamic transmission retarder. Output shaft speed dependant. Total Retardation Power Continuous: 318 kW (426 hp) Maximum: 588 kW (788 hp)																							

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	10 130 (22 330)	23.5 R 25	kPa (Psi)	23.5 R 25	kPa (Psi)	Struck Capacity	14 (18,3)	Bin liner	1 182 (2 606)
Middle	5 025 (11 080)	Front	282 (41)	Front	246 (36)	SAE 2:1 Capacity	17,5 (22,9)	Tailgate	825 (1 818)
Rear	4 985 (10 990)	Middle	380 (55)	Middle	317 (46)	SAE 1:1 Capacity	21 (27,5)	Extra wheelset	
Total	20 140 (44 400)	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	17 340 (38 230)	Front	235 (34)	Front	213 (31)	Rated Payload	28 000 kg		
Rear	17 300 (38 140)	Middle	310 (45)	Middle	274 (40)		(61 729 lbs)		
Total	48 140 (106 130)	Rear	310 (45)	Rear	274 (40)				

Dimensions

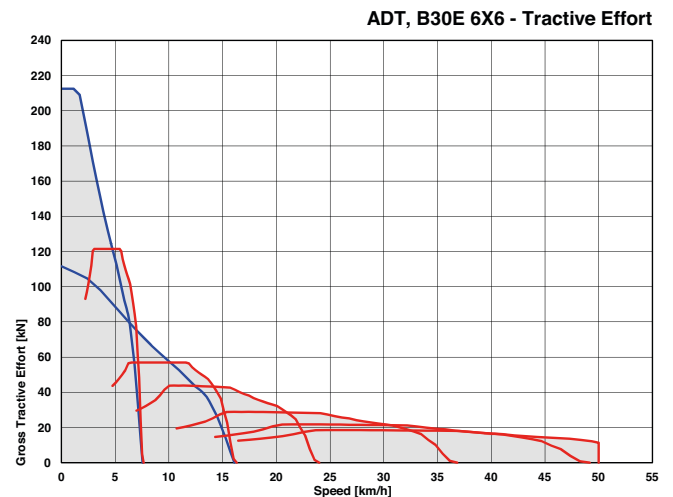
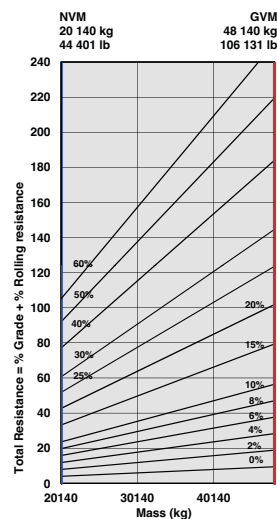


Machine Dimensions

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

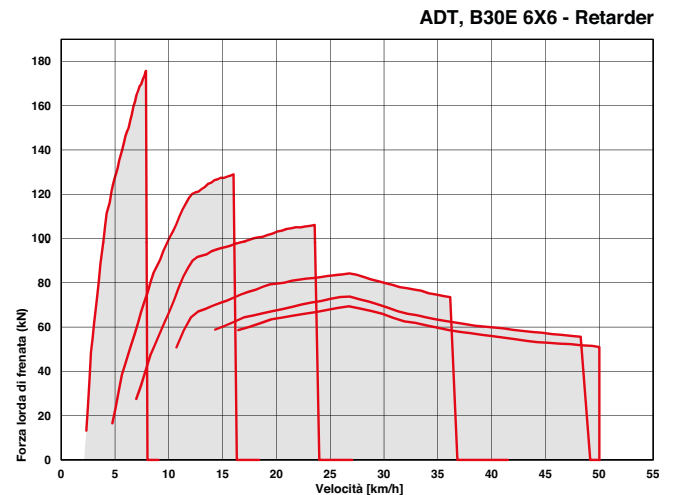
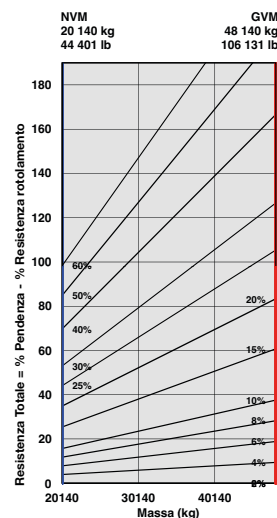
1. Determine tractive resistance by finding intersection of vehicle mass line and grade line.
NOTE: 2% typical rolling resistance is already assumed in chart and grade line.
2. From this intersection, move straight right across charts until line intersects rimpull curve.
3. Read down from this point to determine maximum speed attained at that tractive resistance.



ADT, B30E 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, B30E 6X6 - Retarder