

## ENGINE

**Manufacturer**  
Mercedes Benz

**Model**  
OM926LA

**Configuration**  
Inline 6, turbocharged and intercooled.

**Gross Power**  
240 kW (322 hp) @ 2 200 rpm

**Net Power**  
232 kW (311 hp) @ 2 200 rpm

**Gross Torque**  
1 300 Nm (959 lbf) @ 1 200 -1 600 rpm

**Displacement**  
7,2 litres (439 cu.in)

**Auxiliary Brake**  
Exhaust Valve Brake  
Engine Valve Brake

**Fuel Tank Capacity**  
379 litres (100 US gal)

**Certification**  
OM926LA meets EU Stage II/EPA Tier 2 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.

## AXLES

**Manufacturer**  
Bell

**Model**  
18T

**Differential**  
High input limited slip differential with spiral bevel gears.

**Final Drive**  
Outboard heavy duty planetary on all axles

## TRANSMISSION

**Manufacturer**  
Allison

**Model**  
3400 ORS

**Configuration**  
Fully automatic planetary transmission

**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 and middle axles. Wet brake oil is circulated through a filtration and cooling system.

**Maximum brake force:**  
178 kN (40 000 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 retardation through electronic activation of wet brake system.

**Total Retardation Power**  
335 kW (449 hp) Continuous  
494 kW (662 hp) Maximum

## WHEELS

**Type**  
Radial Earthmover

**Tyre**  
23.5 R 25

## 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**  
28 V 80 A

## VEHICLE SPEEDS

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

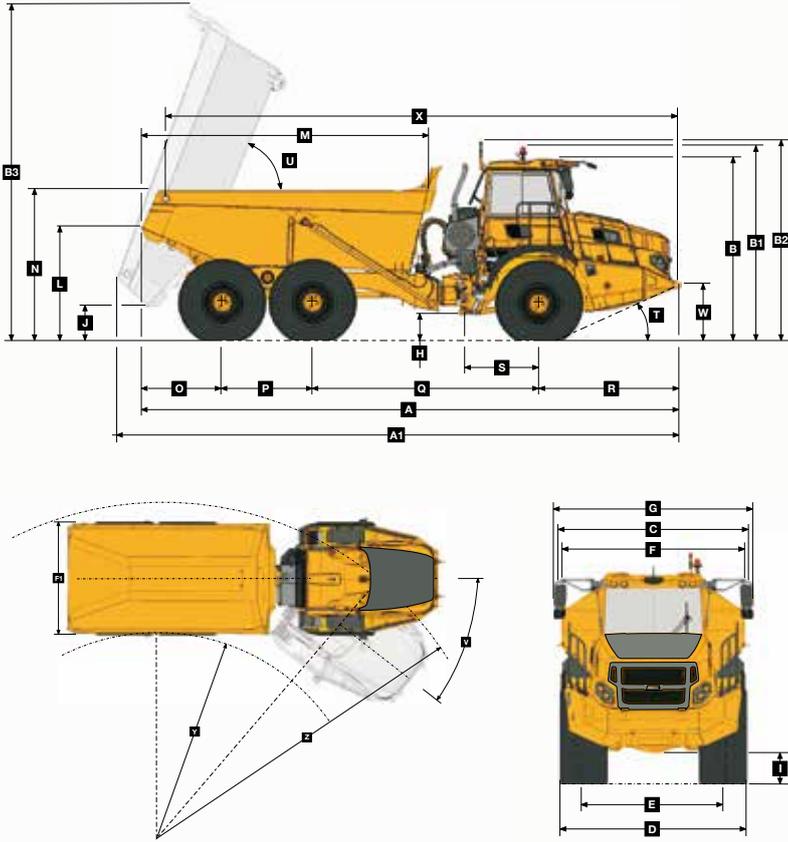
## CAB

ROPS/FOPS certified 72 dBA internal sound level measured according to ISO 6396.

# Load Capacity & Ground Pressure

OPERATING WEIGHTS		GROUND PRESSURE				LOAD CAPACITY		OPTION WEIGHTS	
UNLADEN	kg (lb)	LADEN-No sinkage		LADEN-15% sinkage		BODY	m <sup>3</sup> (yd <sup>3</sup> )		kg (lb)
			kPa (Psi)		kPa (Psi)				
Front	10 472 (23 087)	23.5R25		23.5R25		Struck Capacity	14 (18,3)	Bin liner	1 182 (2 606)
Middle	4 990 (11 001)	Front	280 (41)	Front	240 (35)	SAE 2:1 Capacity	17,5 (22,9)	Tailgate	825 (1 819)
Rear	4 530 (10 444)	Middle	378 (55)	Middle	314 (46)	SAE 1:1 Capacity	21 (27,5)	Extra wheelset	565 (1 246)
Total	19 990 (44 070)	Rear	378 (55)	Rear	314 (46)	SAE 2:1 Capacity with tailgate	18 (23,5)		
<b>LADEN</b>									
Front	13 120 (28 925)								
Middle	17 495 (38 570)					Rated Payload	28 000 kg (61 729 lbs)		
Rear	17 375 (38 305)								
Total	47 990 (105 800)								

# Dimensions

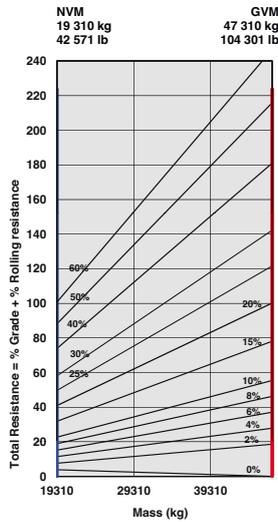


## Machine Dimensions

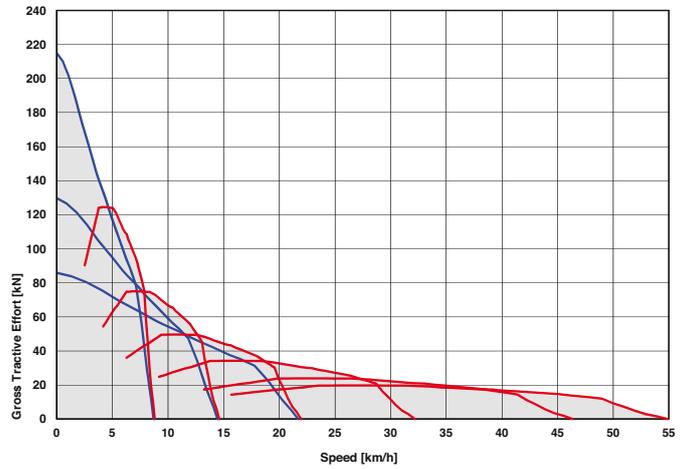
A	Length - Transport Position	9953 mm (32 ft. 7 in.)
A1	Length - Bin Fully Tipped	10395 mm (34 ft. 1 in.)
B	Height - Transport Position	3426 mm (11 ft. 2 in.)
B1	Height - Rotating Beacon	3661 mm (12 ft.)
B2	Height - Load Light	3747 mm (12 ft. 3 in.)
B3	Bin Height - Fully Tipped	6307 mm (20 ft. 8 in.)
C	Width over Mudguards	2985 mm (9 ft. 9 in.)
D	Width over Tyres - 23.5R25	2940 mm (9 ft. 7 in.)
D1	Width over Tyres - 750/65 R25	2998 mm (9 ft. 10 in.)
E	Tyre Track Width - 23.5R25	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 - 23.5R25	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 - 23.5R25	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.

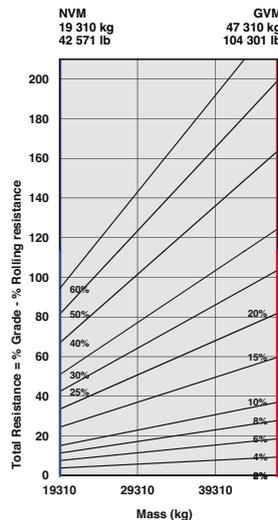


ADT, B30E 6X6 - Tractive Effort

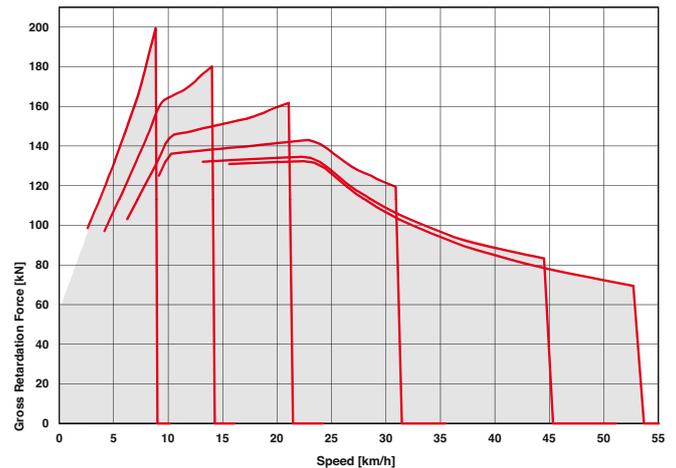


# Retardation

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 - Retardation



# Features and Options

B18E	B20E	B25E (6x4)	B25E	B30E	● STANDARD ▲ OPTION
●	●	●	●	●	<b>ENGINE</b>
●	●	●	●	●	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
●	●	●	●	●	<b>COOLING</b>
●	●	●	●	●	Crankshaft mounted electronically controlled viscous fan drive
●	●	●	●	●	Fan guard
●	●	●	●	●	<b>PNEUMATIC SYSTEM</b>
●	●	●	●	●	Engine-mounted compressor
●	●	●	●	●	Air drier with heater
●	●	●	●	●	Integral unloader valve
●	●	●	●	●	<b>ELECTRICAL SYSTEM</b>
●	●	●	●	●	Battery disconnect
●	●	●	●	●	Drive lights
●	●	●	●	●	Air horn
●	●	●	●	●	Reverse alarm
▲	▲	▲	▲	▲	White noise reverse alarm
●	●	●	●	●	Rotating beacon
●	●	●	●	●	Pitch Roll sensor
▲	▲	▲	▲	▲	LED Artic reverse light
▲	▲	▲	▲	▲	Halogen Artic reverse light
●	●	●	●	●	LED reverse light
▲	▲	▲	▲	▲	<b>STEERING SYSTEM</b>
●	●	●	●	●	Bi-directional ground driven secondary steering pump
●	●	●	●	●	Ground-driven secondary steering pump
●	●	●	●	●	<b>CAB</b>
●	●	●	●	●	ROPS/FOPS certification
●	●	●	●	●	Tilt cab
●	●	●	●	●	Gas strut-supported door
●	●	●	●	●	I-Tip programmable dump-body tip settings
●	●	●	●	●	HVAC Climate control system
▲	▲	▲	▲	▲	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
●	●	▲	▲	▲	High visibility mirrors
●	●	●	●	●	12-volt power outlet
●	●	●	●	●	Cup holder
▲	▲	▲	▲	▲	Electric adjustable and heated mirrors
●	●	●	●	●	Cooled/heated lunch box

B18E	B20E	B25E (6x4)	B25E	B30E	● STANDARD ▲ OPTION
●	●	●	●	●	<b>CAB (continued)</b>
●	●	●	●	●	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
●	●	●	●	●	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
●	●	●	●	●	<b>DUMP BODY</b>
●	●	●	●	●	Partial up dump-body mechanical lock
▲	▲	▲	●	●	Fully up dump-body mechanical lock
▲	▲	▲	▲	▲	Body liner
●	●	●	▲	▲	Tailgate
▲	▲	▲	▲	▲	Body heater
●	●	●	●	●	Less dump body and cylinders
●	●	●	●	●	<b>OTHER</b>
●	●	●	●	●	Automatic Traction Control (ATC)
●	●	●	●	●	20.5R25 Radial earthmover tyres
●	●	●	●	●	23.5R25 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
▲	▲	▲	▲	▲	High pressure hydraulic filter
▲	▲	▲	▲	▲	Fuel heater
●	●	●	●	●	Belly cover
▲	▲	▲	▲	▲	Cross member cover
▲	▲	▲	▲	▲	Remote transmission filters
▲	▲	▲	▲	▲	Window smash button
●	●	●	●	●	Electronic bonnet opening





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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