

E-series

Water Tankers

B18E | B25E | B30E | B40E | B45E | B50E (6x6)



BELL

Technical Data - B18E

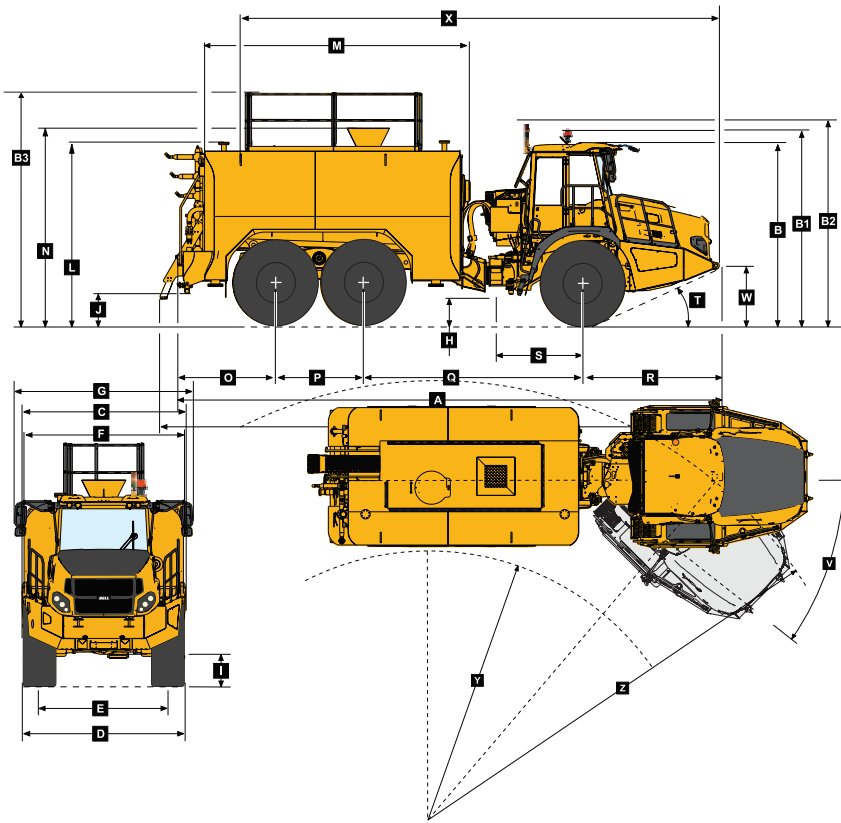
<p>ENGINE</p> <p>Manufacturer Mercedes Benz</p> <p>Model OM924LA</p> <p>Configuration Inline 4, turbocharged and intercooled.</p> <p>Gross Power 160 kW (214 hp) @ 2 200 rpm</p> <p>Net Power 152 kW (204 hp) @ 2 200 rpm</p> <p>Gross Torque 810 Nm (597 lbf) @ 1 200 -1 600 rpm</p> <p>Displacement 4,80 litres (293 cu.in)</p> <p>Auxiliary Brake Exhaust Valve Brake Engine Valve Brake</p> <p>Fuel Tank Capacity 200 litres (53 US gal)</p> <p>Certification OM924LA meets Euro III emissions regulations</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>99 kW (133 hp) Maximum non-retarder.</p> <p>505 kW (677 hp) Maximum retarder.</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 Standard Non Retarder: 3000P ORS Optional Retarder: 3000PR 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 multidisc</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>WHEELS</p> <p>Type Radial Earthmover</p> <p>Tyre 20.5 R 25</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>BRAKING SYSTEM</p> <p>Service Brake Dual circuit, full hydraulic actuation dry disc brakes with 8 calipers (4F, 2M, 2R).</p> <p>Maximum brake force: 244 kN (54 720 lbf)</p> <p>Park & Emergency Spring applied, air released driveline mounted disc.</p> <p>Maximum brake force: 182 kN (40 802 lbf)</p> <p>Auxiliary Brake Automatic exhaust valve brake and engine valve brake. Optional automatic, adjustable, integral, hydrodynamic transmission retarder. Output shaft speed dependant.</p> <p>Total Retardation Power 99 kW (133 hp) Continuous non-retarder. 144 kW (193 hp) Continuous retarder.</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>VEHICLE SPEEDS</p> <table border="1"> <tbody> <tr> <td>1st</td> <td>11 km/h</td> <td>7 mph</td> </tr> <tr> <td>2nd</td> <td>20 km/h</td> <td>12 mph</td> </tr> <tr> <td>3rd</td> <td>27 km/h</td> <td>17 mph</td> </tr> <tr> <td>4th</td> <td>38 km/h</td> <td>24 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>7 km/h</td> <td>4 mph</td> </tr> </tbody> </table>	1st	11 km/h	7 mph	2nd	20 km/h	12 mph	3rd	27 km/h	17 mph	4th	38 km/h	24 mph	5th	50 km/h	31 mph	6th	50 km/h	31 mph	R	7 km/h	4 mph
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R	7 km/h	4 mph																						
		<p>HYDRAULIC SYSTEM</p> <p>Full load sensing system serving the steering, water pump 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 155 l/min (41,5 gal/min)</p> <p>Pressure 27 MPa (3 915 psi)</p> <p>Filter 5 microns</p>	<p>CAB</p> <p>ROPS/FOPS certified 74 dBA internal sound level measured according to ISO 6396.</p>																					
		<p>STEERING SYSTEM</p> <p>Double-acting cylinders with ground driven emergency steering pump.</p> <p>Lock to lock turns 4,32</p> <p>Steering Angle 45°</p>	<p>STANDARD EQUIPMENT</p> <ul style="list-style-type: none"> • Dribble bar • Spray valves (manual activation) • Fold down top rails • Suction pipe for filling from dam • Step ladder access • Inspection access 																					
		<p>WATER TANKER PLUMBING</p> <p>Centrifugal water pump</p> <p>Rate of Flow 1 800 l/min</p> <p>Head 50 m head</p>	<p>OPTIONAL EXTRAS</p> <ul style="list-style-type: none"> • Manual water cannon • Remote control water cannon • Remote control spray nozzles • Pressurised dribble bar system • Firefighting option • Hose reel option 																					

Load Capacity & Ground Pressure

OPERATING WEIGHTS				GROUND PRESSURE		LOAD CAPACITY	
UNLADEN*		LADEN*		LADEN (No sinkage)		Rated Payload	18 000 litres (5 000 gallons)
	Tare kg (lb)**		ISO 6016 kg (lb)***	20.5 R 25	kPa (Psi)		
Front	7 770 (17 130)	Front	9 840 (21 693)	Front	223 (32)		
Middle	3 760 (8 289)	Middle	11 730 (25 860)	Middle	299 (43)		
Rear	3 350 (7 385)	Rear	11 540 (25 441)	Rear	299 (43)		
Total	14 870 (32 783)	Total	33 110 (72 995)				
	ISO 6016 kg (lb)***			LADEN (15% sinkage)			
Front	8 040 (17 725)			20.5 R 25	kPa (Psi)		
Middle	3 740 (8 245)			Front	204 (30)		
Rear	3 330 (7 341)			Middle	246 (36)		
Total	15 110 (33 312)			Rear	246 (36)		

* Note that the axle loading quoted is for the lightest configuration of machine. Addition of options will add to this mass. ** No fuel, no operator. *** Full fuel and operator

Dimensions

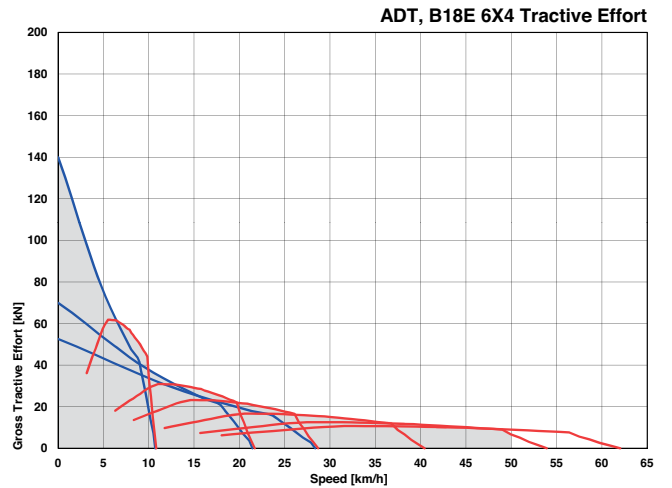
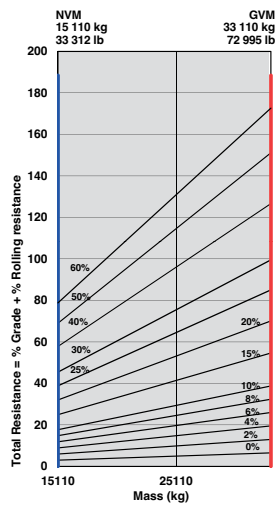


Machine Dimensions

A	Length - Transport Position	9 725 mm
A1	Length - Rear Step	10 046 mm
B	Height - Transport Position	3 454 mm
B1	Height - Rotating Beacon	3 595 mm
B2	Height - Load Light	3 689 mm
B3	Tank Guardrail Height - Operating Position	4 180 mm
C	Width Over Mudguards	2 568 mm
D	Width over Tyres	2 550 mm
E	Tyre Track Width	2 022 mm
F	Width Over Tank	2 545 mm
G	Width Over Mirrors - Operating Position	3 260 mm
H	Ground Clearance - Artic	479 mm
I	Ground Clearance - Front Axle	444 mm
J	Ground Clearance - Tank	705 mm
K	Ground Clearance - Dribble Bar	570 mm
L	Tank Height	3 340 mm
M	Tank Length	5 000 mm
N	Funnel Loading Height	3 555 mm
O	Rear Axle Center to Tank Rear	1 902 mm
P	Mid Axle Center to Rear Axle Center	1 600 mm
Q	Mid Axle Center to Front Axle Center	3 865 mm
R	Front Axle Center to Machine Front	2 357 mm
S	Front Axle Center to Artic Center	1 361 mm
T	Approach Angle	26°
V	Maximum Articulation Angle	45°
W	Front Tie Down Height	1 028 mm
X	Machine Lifting Centers	8 580 mm
Y	Inner Turning Circle	3 954 mm
Z	Outer Turing Circle	7 309 mm

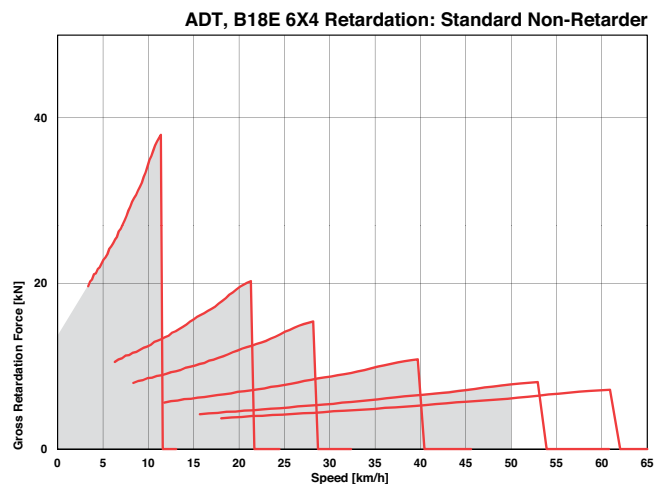
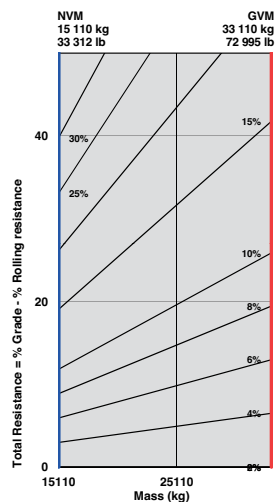
Grade Ability/Rimpull

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 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.



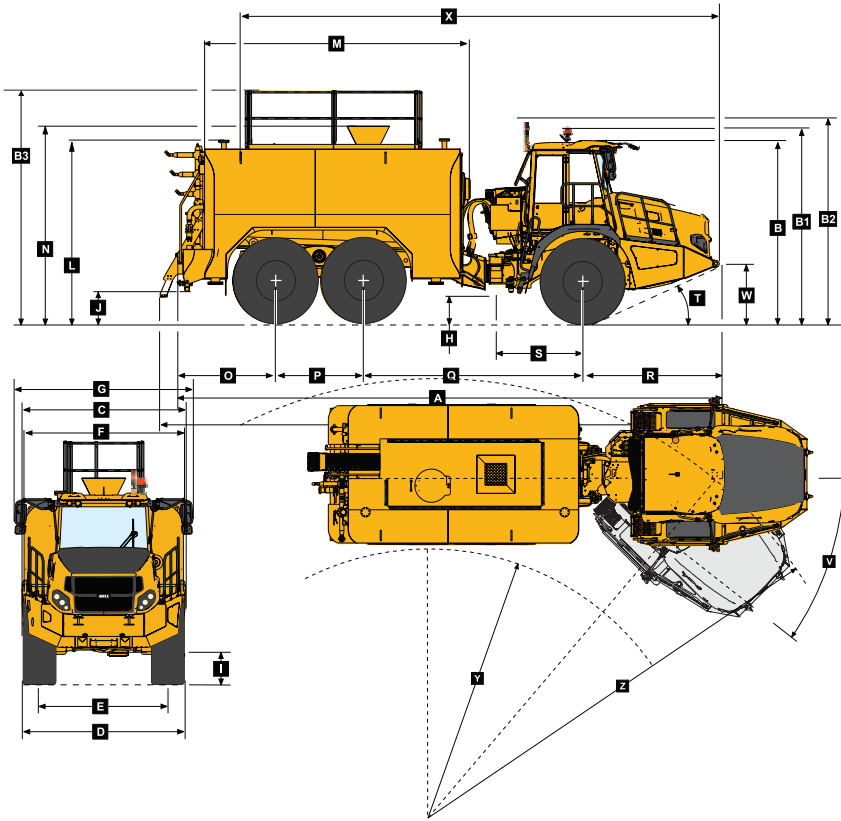
Technical Data - B25E

<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 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>WHEELS</p> <p>Type Radial Earthmover</p> <p>Tyre 23.5 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 3200P 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 steering, water pump 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>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>BRAKING SYSTEM</p> <p>Service Brake Dual circuit, full hydraulic actuation dry disc brakes with 8 calipers (4F, 2M, 2R).</p> <p>Maximum brake force: 184 kN (41 400 lbf)</p> <p>Park & Emergency Spring applied, air released driveline mounted disc.</p> <p>Maximum brake force: 195 kN (43 900 lbf)</p> <p>Auxiliary Brake Automatic exhaust valve brake and engine valve brake. Automatic, adjustable, integral, hydrodynamic transmission retarder. Output shaft speed dependant.</p> <p>Total Retardation Power 250kW (335 hp) Continuous 539 kW (723 hp) Maximum</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>VEHICLE SPEEDS</p> <table border="1"> <tbody> <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> </tbody> </table>	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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		<p>WATER TANKER PLUMBING</p> <p>Centrifugal water pump</p> <p>Rate of Flow 1 800 l/min</p> <p>Head 50 m head</p>	<p>CAB</p> <p>ROPS/FOPS certified 74 dBA internal sound level measured according to ISO 6396.</p>																					
			<p>STANDARD EQUIPMENT</p> <ul style="list-style-type: none"> • Dribble bar • Spray valves (manual activation) • Fold down top rails • Suction pipe for filling from dam • Step ladder access • Inspection access 																					
			<p>OPTIONAL EXTRAS</p> <ul style="list-style-type: none"> • Manual water cannon • Remote control water cannon • Remote control spray nozzles • Pressurised dribble bar system • Firefighting option • Hose reel option 																					

Load Capacity & Ground Pressure

OPERATING WEIGHTS		GROUND PRESSURE		LOAD CAPACITY	
UNLADEN		LADEN (No sinkage)			
	kg (lb)	23.5 R 25	kPa (Psi)		
Front	9 740 (21 473)	Front	244 (35)	Rated Payload	23 000 litres (6 000 gallons)
Middle	4 605 (10 152)	Middle	336 (49)		
Rear	4 565 (10 064)	Rear	336 (49)		
Total	18 910 (41 689)				
LADEN		LADEN (15% sinkage)			
	kg (lb)	23.5 R 25	kPa (Psi)		
Front	12 480 (27 514)	Front	225 (33)		
Middle	15 235 (33 587)	Middle	279 (41)		
Rear	15 195 (33 499)	Rear	279 (41)		
Total	42 910 (94 600)				

Dimensions

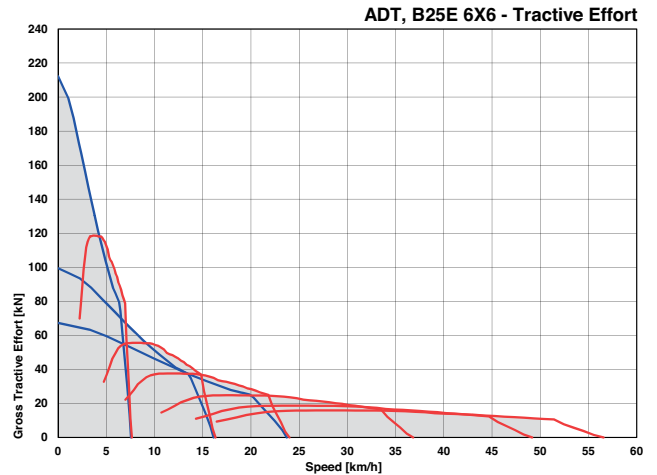
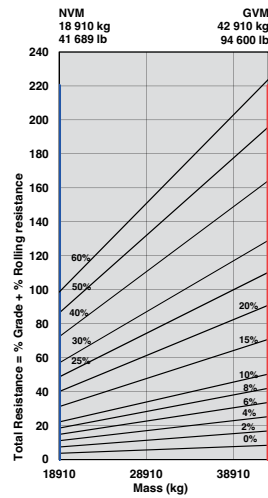


Machine Dimensions

A	Length - Transport Position	10 210 mm
A1	Length - Rear Step	10 530 mm
B	Height - Transport Position	3 426 mm
B1	Height - Rotating Beacon	3 661 mm
B2	Height - Load Light	3 747 mm
B3	Tank Guardrail Height - Operating Position	4 350 mm
C	Width Over Mudguards	2 985 mm
D	Width over Tyres	2 940 mm
E	Tyre Track Width	2 356 mm
F	Width Over Tank	2 940 mm
G	Width Over Mirrors - Operating Position	3 260 mm
H	Ground Clearance - Artic	537 mm
I	Ground Clearance - Front Axle	488 mm
J	Ground Clearance - Tank	650 mm
K	Ground Clearance - Dribble Bar	520 mm
L	Tank Height	3 400 mm
M	Tank Length	5 270 mm
N	Funnel Loading Height	3 670 mm
O	Rear Axle Center to Tank Rear	1 755 mm
P	Mid Axle Center to Rear Axle Center	1 670 mm
Q	Mid Axle Center to Front Axle Center	4 181 mm
R	Front Axle Center to Machine Front	2 602 mm
S	Front Axle Center to Artic Center	1 362 mm
T	Approach Angle	25°
V	Maximum Articulation Angle	45°
W	Front Tie Down Height	1 075 mm
X	Machine Lifting Centers	9 060 mm
Y	Inner Turning Circle	4 110 mm
Z	Outer Turing Circle	8 000 mm

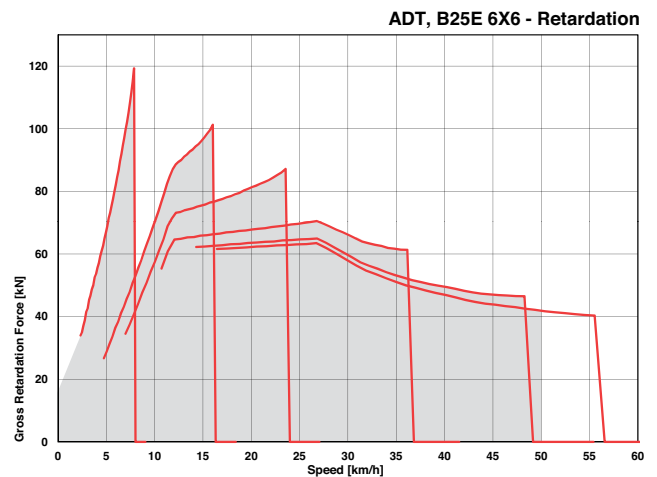
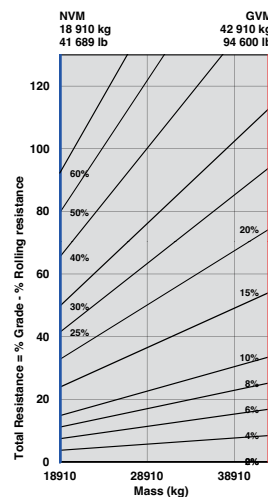
Grade Ability/Rimpull

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 right across charts until line intersects rimpull curve.
3. Read down from this point to determine maximum speed attained at that tractive resistance.



Retardation

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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.



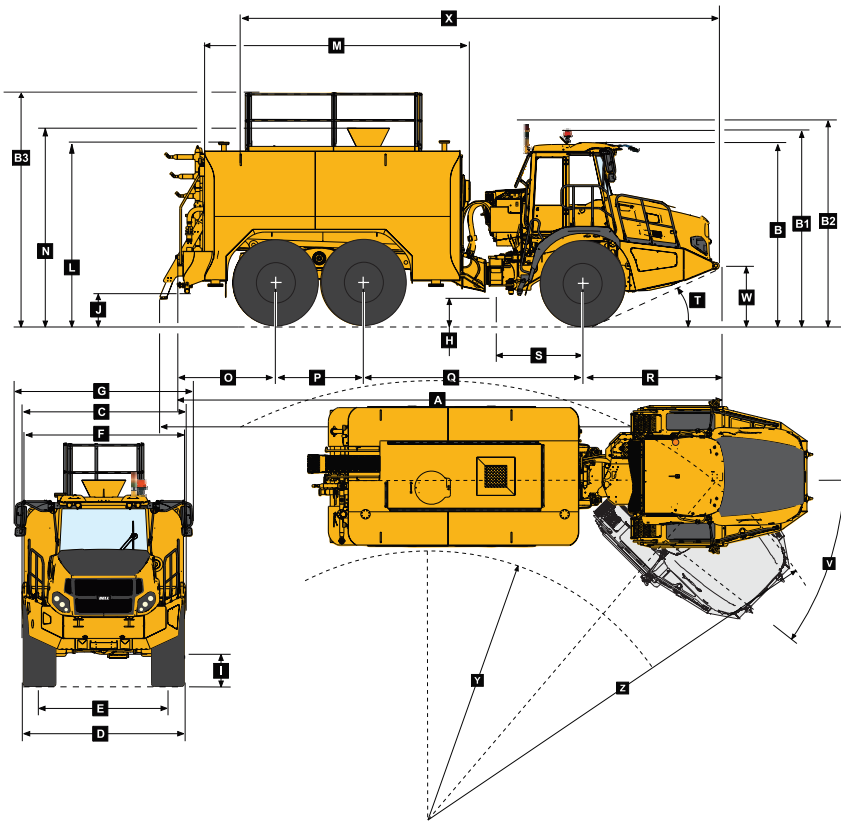
Technical Data - B30E

<p>ENGINE</p> <p>Manufacturer Mercedes Benz</p> <p>Model OM926LA</p> <p>Configuration Inline 6, turbocharged and intercooled.</p> <p>Gross Power 240 kW (322 hp) @ 2 200 rpm</p> <p>Net Power 232 kW (311 hp) @ 2 200 rpm</p> <p>Gross Torque 1 300 Nm (959 lbf) @ 1 200 -1 600 rpm</p> <p>Displacement 7,2 litres (439 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 OM926LA meets EU Stage II/EPA Tier 2 emissions regulations.</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>WHEELS</p> <p>Type Radial Earthmover</p> <p>Tyre 23.5 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 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>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>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>																					
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		<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>CAB</p> <p>ROPS/FOPS certified 74 dBA internal sound level measured according to ISO 6396.</p>																					
		<p>WATER TANKER PLUMBING</p> <p>Centrifugal water pump</p> <p>Rate of Flow 1 800 l/min</p> <p>Head 50 m</p>	<p>STANDARD EQUIPMENT</p> <ul style="list-style-type: none"> • Dribble bar • Spray valves (manual activation) • Fold down top rails • Suction pipe for filling from dam • Step ladder access • Inspection access 																					
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Load Capacity & Ground Pressure

OPERATING WEIGHTS		GROUND PRESSURE		LOAD CAPACITY	
UNLADEN		LADEN (No sinkage)			
	kg (lb)	23.5 R 25	kPa (Psi)		
Front	9 750 (21 495)	Front	280 (41)	Rated Payload	27 000 litres (7 000 gallons)
Middle	4 800 (10 582)	Middle	378 (55)		
Rear	4 760 (10 494)	Rear	378 (55)		
Total	19 310 (42 571)				
LADEN		LADEN (15% sinkage)			
	kg (lb)	23.5 R 25	kPa (Psi)		
Front	13 120 (28 925)	Front	240 (35)		
Middle	17 115 (37 732)	Middle	314 (46)		
Rear	17 075 (37 644)	Rear	314 (46)		
Total	47 310 (104 301)				

Dimensions

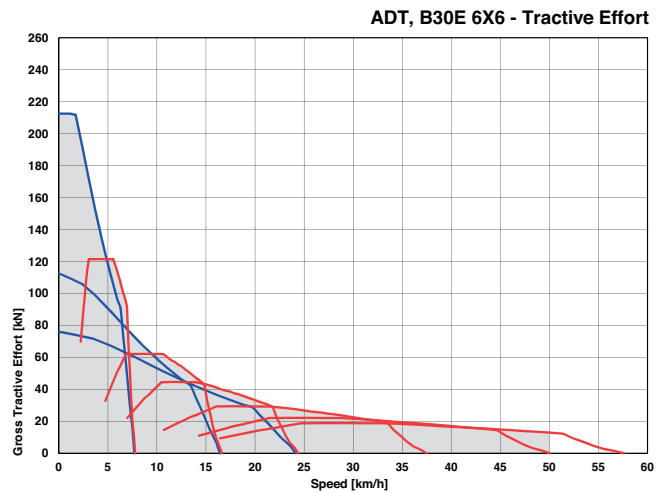
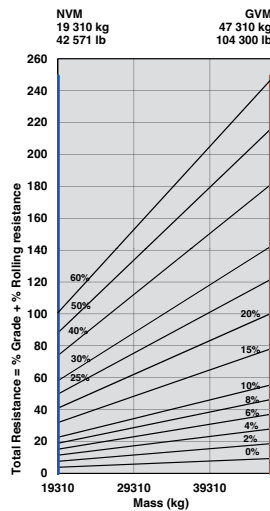


Machine Dimensions

A	Length - Transport Position	10 380 mm
A1	Length - Rear Step	10 590 mm
B	Height - Transport Position	3 426 mm
B1	Height - Rotating Beacon	3 661 mm
B2	Height - Load Light	3 747 mm
B3	Tank Guardrail Height - Operating Position	4 570 mm
C	Width Over Mudguards	2 985 mm
D	Width over Tyres	2 940 mm
E	Tyre Track Width	2 356 mm
F	Width Over Tank	2 940 mm
G	Width Over Mirrors - Operating Position	3 260 mm
H	Ground Clearance - Artic	537 mm
I	Ground Clearance - Front Axle	488 mm
J	Ground Clearance - Tank	600 mm
K	Ground Clearance - Dribble Bar	600 mm
L	Tank Height	3 670 mm
M	Tank Length	5 280 mm
N	Funnel Loading Height	3 940 mm
O	Rear Axle Center to Tank Rear	1 755 mm
P	Mid Axle Center to Rear Axle Center	1 670 mm
Q	Mid Axle Center to Front Axle Center	4 181 mm
R	Front Axle Center to Machine Front	2 602 mm
S	Front Axle Center to Artic Center	1 362 mm
T	Approach Angle	25°
V	Maximum Articulation Angle	45°
W	Front Tie Down Height	1 075 mm
X	Machine Lifting Centers	9 060 mm
Y	Inner Turning Circle	4 110 mm
Z	Outer Turing Circle	8 000 mm

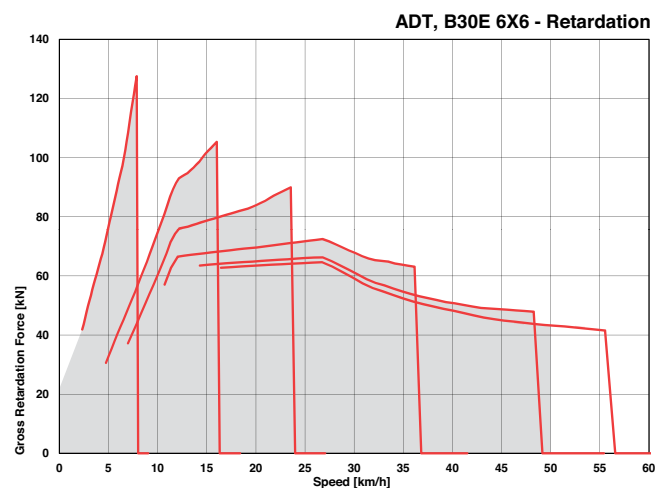
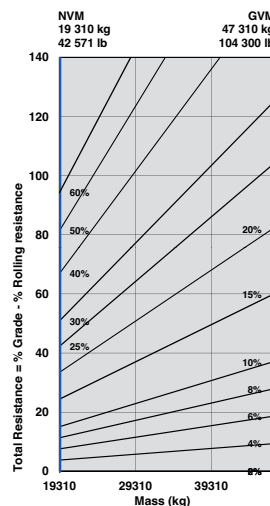
Grade Ability/Rimpull

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 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.



Technical Data - B40E

ENGINE

Manufacturer
Mercedes Benz (MTU)

Model
OM471LA (MTU 6R 1300)

Configuration
Inline 6, turbocharged and intercooled.

Gross Power
380 kW (510 hp) @ 1 700 rpm

Net Power
359 kW (481 hp) @ 1 700 rpm

Gross Torque
2 380 Nm (1 755 lbf) @ 1 300 rpm

Displacement
12,8 litres (781 cu.in)

Auxiliary Brake
Exhaust Valve Brake

Fuel Tank Capacity
533 litres (140.8 US gal)

Certification
OM471LA (MTU 6R 1300) is EU Stage IIIA / EPA Tier 3 emission level equivalent.

TRANSMISSION

Manufacturer
Allison

Model
4700 ORS

Configuration
Fully automatic planetary transmission.

Layout
Engine mounted

Gear Layout
Constant meshing planetary gears, clutch operated

Gears
7 Forward, 1 Reverse

Clutch Type
Hydraulically operated multi-disc

Control Type
Electronic

Torque Control
Hydrodynamic with lock-up in all gears.

TRANSFER CASE

Manufacturer
Kessler

Series
W 2400

Layout
Remote mounted

Gear Layout
Three in-line helical gears

Output Differential
Interaxle 29/71 proportional differential. Automatic inter-axle differential lock.

AXLES

Manufacturer
Bell

Model
30T

Differential
High input controlled traction differential with spiral bevel gears

Final Drive
Outboard heavy duty planetary on all axles.

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:
305 kN (68 567 lbf)

Park & Emergency
Spring applied, air released driveline mounted disc.

Maximum brake force:
218 kN (49 008 lbf)

Auxiliary Brake
Automatic engine valve brake. Automatic retardation through electronic activation of wet brake system.

Total Retardation Power
Continuous: 442 kW (593 hp)
Maximum: 854 kW (1 145 hp)

WHEELS

Type
Radial Earthmover

Tyre
29.5 R 25 (875/65 R 29 optional)

FRONT SUSPENSION

Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts.

Option: Electronically controlled adaptive suspension with ride height adjustment.

REAR SUSPENSION

Pivoting walking beams with laminated rubber suspension blocks.

Option: Comfort Ride suspension walking beams, with two-stage sandwich block.

HYDRAULIC SYSTEM

Full load sensing system serving the steering, water pump 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
330 L/min (87 gal/min)

Pressure
315 bar (4 569 psi)

Filter
5 microns

STEERING SYSTEM

Double acting cylinders, with ground-driven emergency steering pump.

Lock to lock turns
5

Steering Angle
42°

WATER TANKER PLUMBING

Centrifugal water pump

Rate of Flow
1 800 l/min

Head
50 m

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

MAX.VEHICLE SPEED

1st	4 km/h	2,5 mph
2nd	9 km/h	6 mph
3rd	17 km/h	11 mph
4th	23 km/h	14 mph
5th	33 km/h	21 mph
6th	44 km/h	27,3 mph
7th	51 km/h	32 mph
R	7 km/h	4 mph

CAB

ROPS/FOPS certified 74 dBA internal sound level measured according to ISO 6396.

STANDARD EQUIPMENT

- Dribble bar
- Spray valves (manual activation)
- Fold down top rails
- Suction pipe for filling from dam
- Step ladder access
- Inspection access

OPTIONAL EXTRAS

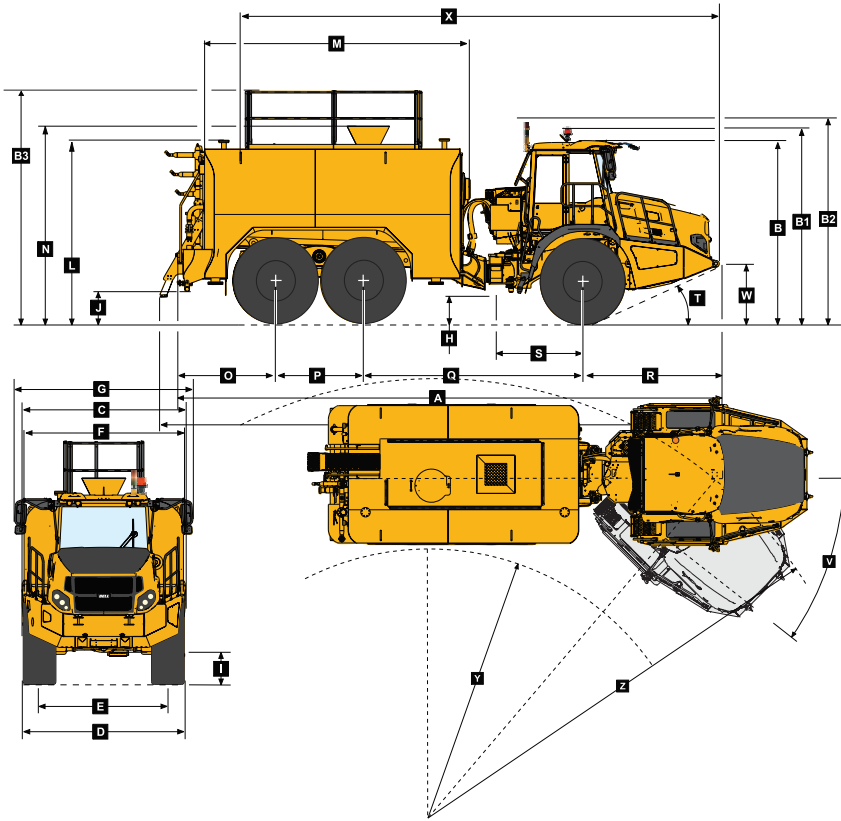
- Manual water cannon
- Remote control water cannon
- Remote control spray nozzles
- Pressurised dribble bar system
- Firefighting option
- Hose reel option

Load Capacity & Ground Pressure

OPERATING WEIGHTS		GROUND PRESSURE		LOAD CAPACITY	
UNLADEN		LADEN (No sinkage/Total Contact Area Method)			
	kg (lb)	29.5 R 25	kPa (Psi)		
Front	16 972 (37 417)	Front	310 (45)	Rated Payload	35 000 litres (9 000 gallons)
Middle	7 737 (17 057)	Middle	341 (50)		
Rear	7 524 (16 588)	Rear	341 (50)		
Total	32 233 (71 062)				
LADEN					
	kg (lb)	875/65 R29	kPa (Psi)		
Front	21 847 (48 164)	Front	293 (43)		
Middle	24 800 (54 675)	Middle	329 (48)		
Rear	24 586 (54 203)	Rear	329 (48)		
Total	71 233 (157 042)				

* 29.5R25 Groundpressures calculated with Michelin XADN+ Tyre. 875/65R29 Groundpressures calculated with Michelin XAD65-1 Tyre.

Dimensions

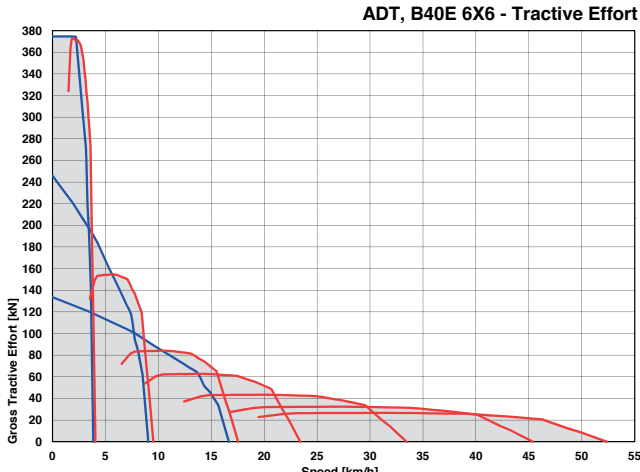
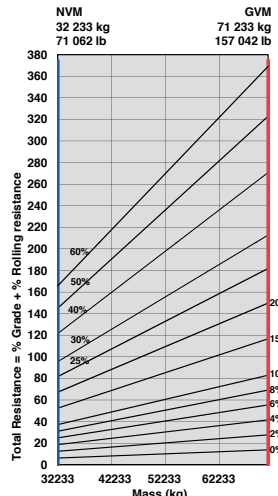


Machine Dimensions

A	Length - Transport Position	11 790 mm
A1	Length - Rear Step	12 000 mm
B	Height - Transport Position	3 804 mm
B1	Height - Rotating Beacon	4 040 mm
B2	Height - Load Light	4 129 mm
B3	Tank Guardrail Height - Operating Position	4 770 mm
C	Width Over Mudguards	3 495 mm
D	Width over Tyres	3 487 mm
E	Tyre Track Width	2 725 mm
F	Width Over Tank	3 500 mm
G	Width Over Mirrors - Operating Position	3 614 mm
H	Ground Clearance - Artic	545 mm
I	Ground Clearance - Front Axle	545 mm
J	Ground Clearance - Tank	760 mm
K	Ground Clearance - Dribble Bar	760 mm
L	Tank Height	3 880 mm
M	Tank Length	6 420 mm
N	Funnel Loading Height	4 090 mm
O	Rear Axle Center to Tank Rear	2 140 mm
P	Mid Axle Center to Rear Axle Center	1 950 mm
Q	Mid Axle Center to Front Axle Center	4 438 mm
R	Front Axle Center to Machine Front	3 255 mm
S	Front Axle Center to Artic Center	1 558 mm
T	Approach Angle	24°
V	Maximum Articulation Angle	42°
W	Front Tie Down Height	1 265 mm
X	Machine Lifting Centers	10 065 mm
Y	Inner Turning Circle	4 866 mm
Z	Outer Turing Circle	9 235 mm

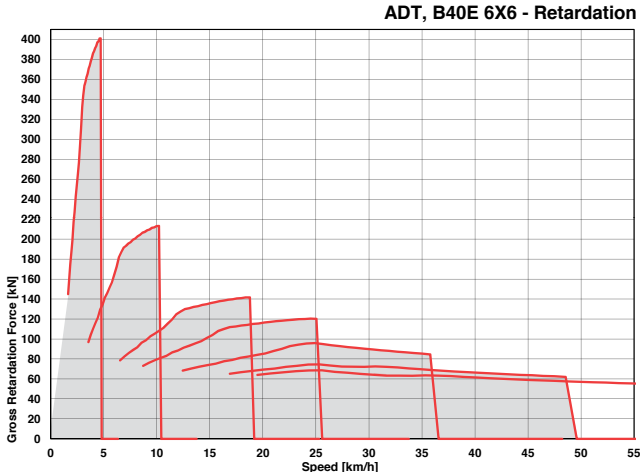
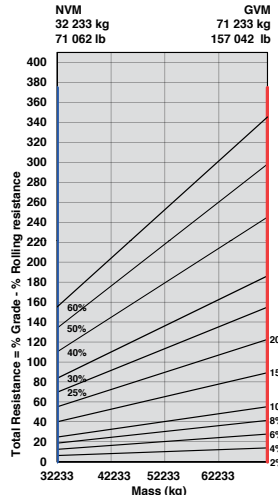
Grade Ability/Rimpull

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 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 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 the curve.
3. Read down from this point to determine maximum speed.



Technical Data - B45E

ENGINE

Manufacturer
Mercedes Benz (MTU)

Model
OM471LA (MTU 6R 1300)

Configuration
Inline 6, turbocharged and intercooled.

Gross Power
390 kW (523 hp) @ 1 700 rpm

Net Power
369 kW (495 hp) @ 1 700 rpm

Gross Torque
2 460 Nm (1 814 lbf) @ 1 300 rpm

Displacement
12,8 litres (781 cu.in)

Auxiliary Brake
Engine Valve Brake

Fuel Tank Capacity
533 litres (140.8 US gal)

Certification
OM471LA (MTU 6R 1300) is EU Stage IIIA / EPA Tier 3 emission level equivalent.

TRANSMISSION

Manufacturer
Allison

Model
4700 ORS

Configuration
Fully automatic planetary transmission.

Layout
Engine mounted

Gear Layout
Constant meshing planetary gears, clutch operated

Gears
7 Forward, 1 Reverse

Clutch Type
Hydraulically operated multi-disc

Control Type
Electronic

Torque Control
Hydrodynamic with lock-up in all gears.

TRANSFER CASE

Manufacturer
Kessler

Series
W 2400

Layout
Remote mounted

Gear Layout
Three in-line helical gears

Output Differential
Interaxle 29/71 proportional differential. Automatic inter-axle differential lock.

AXLES

Manufacturer
Bell

Model
30T

Differential
High input controlled traction differential with spiral bevel gears

Final Drive
Outboard heavy duty planetary on all axles.

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:
330 kN (74 187 lbf)

Park & Emergency
Spring applied, air released driveline mounted disc.

Maximum brake force:
218 kN (49 008 lbf)

Auxiliary Brake
Automatic engine valve brake. Automatic retardation through electronic activation of wet brake system.

Total Retardation Power
Continuous: 442 kW (593 hp)
Maximum: 854 kW (1 145 hp)

WHEELS

Type
Radial Earthmover

Tyre
29.5 R 25 (875/65 R 29 optional)

FRONT SUSPENSION

Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts.

Option: Electronically controlled adaptive suspension with ride height adjustment.

REAR SUSPENSION

Pivoting walking beams with laminated rubber suspension blocks.

Option: Comfort Ride suspension walking beams, with two-stage sandwich block.

HYDRAULIC SYSTEM

Full load sensing system serving the steering, water pump 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
330 L/min (87 gal/min)

Pressure
315 bar (4 569 psi)

Filter
5 microns

STEERING SYSTEM

Double acting cylinders, with ground-driven emergency steering pump.

Lock to lock turns
5

Steering Angle
42°

WATER TANKER PLUMBING

Centrifugal water pump

Rate of Flow
1 800 l/min

Head
50 m

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

MAX.VEHICLE SPEED

1st	4 km/h	2,5 mph
2nd	9 km/h	6 mph
3rd	17 km/h	11 mph
4th	23 km/h	14 mph
5th	33 km/h	21 mph
6th	44 km/h	27,3 mph
7th	51 km/h	32 mph
R	7 km/h	4 mph

CAB

ROPS/FOPS certified 74 dBA internal sound level measured according to ISO 6396.

STANDARD EQUIPMENT

- Dribble bar
- Spray valves (manual activation)
- Fold down top rails
- Suction pipe for filling from dam
- Step ladder access
- Inspection access

OPTIONAL EXTRAS

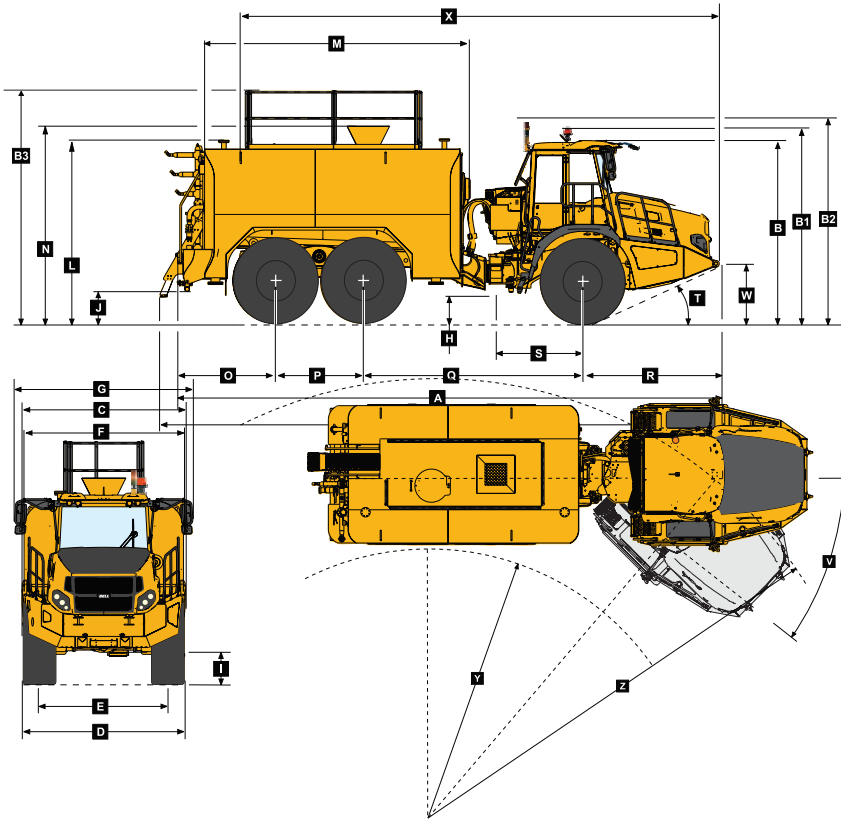
- Manual water cannon
- Remote control water cannon
- Remote control spray nozzles
- Pressurised dribble bar system
- Firefighting option
- Hose reel option

Load Capacity & Ground Pressure

OPERATING WEIGHTS		GROUND PRESSURE		LOAD CAPACITY	
UNLADEN		LADEN (No sinkage/Total Contact Area Method)			
	kg (lb)	29.5 R 25	kPa (Psi)		
Front	16 984 (37 443)	Front	321 (47)	Rated Payload	35 000 litres (9 080 gallons)
Middle	7 778 (17 148)	Middle	370 (54)		
Rear	7 564 (16 676)	Rear	370 (54)		
Total	32 326 (71 267)				
LADEN					
	kg (lb)	875/65 R29	kPa (Psi)		
Front	22 109 (48 742)	Front	294 (43)		
Middle	25 715 (56 692)	Middle	331 (48)		
Rear	25 502 (56 222)	Rear	331 (48)		
Total	73 326 (161 656)				

* 29.5R25 Groundpressures calculated with Michelin XADN+ Tyre. 875/65R29 Groundpressures calculated with Michelin XAD65-1 Tyre.

Dimensions

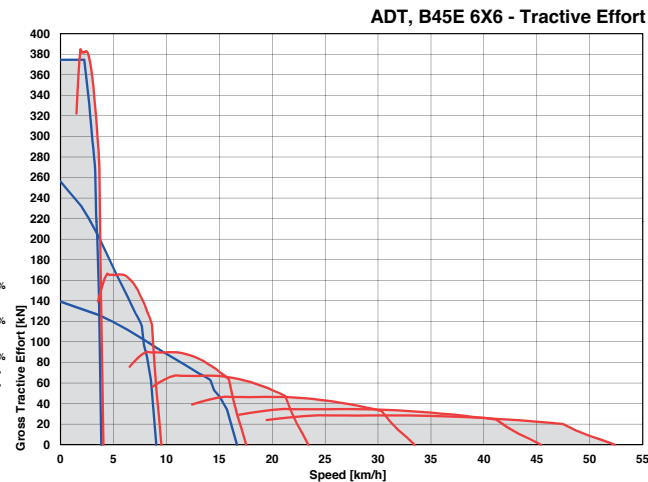
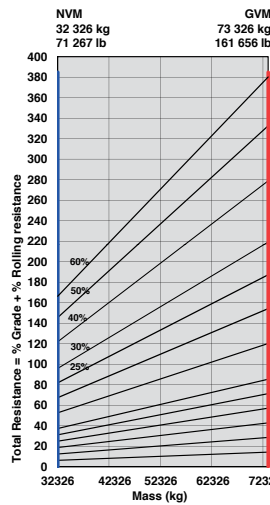


Machine Dimensions

A	Length - Transport Position	11 790 mm
A1	Length - Rear Step	12 000 mm
B	Height - Transport Position	3 804 mm
B1	Height - Rotating Beacon	4 040 mm
B2	Height - Load Light	4 129 mm
B3	Tank Guardrail Height - Operating Position	4 770 mm
C	Width Over Mudguards	3 495 mm
D	Width over Tyres	3 487 mm
E	Tyre Track Width	2 725 mm
F	Width Over Tank	3 500 mm
G	Width Over Mirrors - Operating Position	3 614 mm
H	Ground Clearance - Artic	545 mm
I	Ground Clearance - Front Axle	545 mm
J	Ground Clearance - Tank	760 mm
K	Ground Clearance - Dribble Bar	760 mm
L	Tank Height	3 880 mm
M	Tank Length	6 420 mm
N	Funnel Loading Height	4 090 mm
O	Rear Axle Center to Tank Rear	2 140 mm
P	Mid Axle Center to Rear Axle Center	1 950 mm
Q	Mid Axle Center to Front Axle Center	4 438 mm
R	Front Axle Center to Machine Front	3 255 mm
S	Front Axle Center to Artic Center	1 558 mm
T	Approach Angle	24°
V	Maximum Articulation Angle	42°
W	Front Tie Down Height	1 265 mm
X	Machine Lifting Centers	10 065 mm
Y	Inner Turning Circle	4 866 mm
Z	Outer Turing Circle	9 235 mm

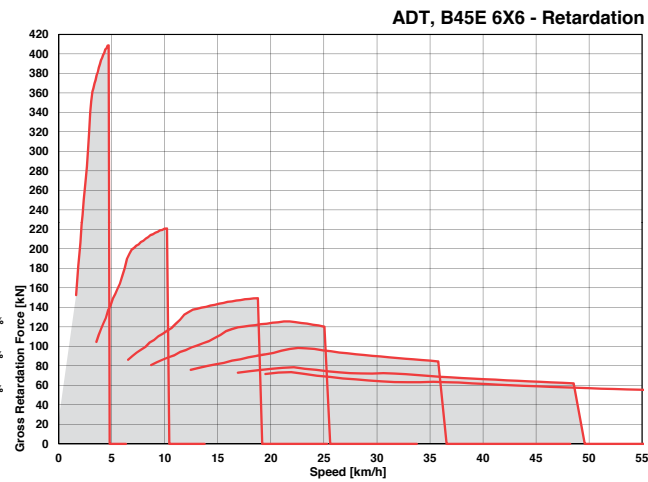
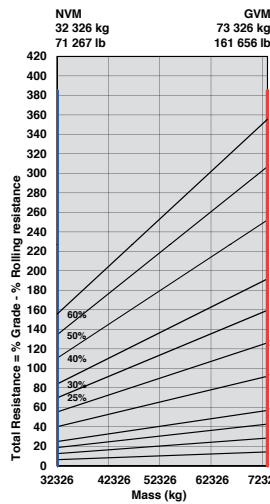
Grade Ability/Rimpull

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 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 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 the curve.
3. Read down from this point to determine maximum speed.



Technical Data - B50E

ENGINE

Manufacturer
Mercedes Benz (MTU)

Model
OM473LA (MTU 6R 1500)

Configuration
Inline 6, turbocharged and intercooled.

Gross Power
405 kW (577 hp) @ 1 700 rpm

Net Power
405 kW (543 hp) @ 1 700 rpm

Gross Torque
2 750 Nm (2 028 lbf) @ 1 300 rpm

Displacement
15,6 litres (952 cu.in)

Auxiliary Brake
Engine Valve Brake

Fuel Tank Capacity
588 litres (155 US gal)

Certification
OM473LA (MTU 6R 1500) is EU Stage IIIA / EPA Tier 3 emission level equivalent.

TRANSMISSION

Manufacturer
Allison

Model
4800 ORS

Configuration
Fully automatic planetary transmission.

Layout
Engine mounted

Gear Layout
Constant meshing planetary gears, clutch operated

Gears
7 Forward, 1 Reverse

Clutch Type
Hydraulically operated multi-disc

Control Type
Electronic

Torque Control
Hydrodynamic with lock-up in all gears.

TRANSFER CASE

Manufacturer
Kessler

Series
W 2400

Layout
Remote mounted

Gear Layout
Three in-line helical gears

Output Differential
Interaxle 29/71 proportional differential. Automatic inter-axle differential lock.

AXLES

Manufacturer
Bell

Model
30T

Differential
High input controlled traction differential with spiral bevel gears

Final Drive
Outboard heavy duty planetary on all axles.

BRAKING SYSTEM

Service Brake
Dual circuit, full hydraulic actuation wet disc brakes on front, middle and rear axles. Wet brake oil is circulated through a filtration and cooling system.

Maximum brake force:
458 kN (102 962 lbf)

Park & Emergency
Spring applied, air released driveline mounted disc.

Maximum brake force:
215,5 kN (48 446 lbf)

Auxiliary Brake
Automatic engine valve brake. Automatic retardation through electronic activation of wet brake system.

Total Retardation Power
Continuous: 546 kW (732 hp)
Maximum: 963 kW (1 291 hp)

WHEELS

Type
Radial Earthmover

Tyre
875/65 R 29 (29.5 R 25 optional)

FRONT SUSPENSION

Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts. Suspension is electronically controlled adaptive suspension with ride height adjustment.

REAR SUSPENSION

Pivoting walking beams with laminated rubber suspension blocks.

Option: Comfort Ride suspension walking beams, with two-stage sandwich block.

HYDRAULIC SYSTEM

Full load sensing system serving the steering, water pump, suspension 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
330 L/min (87 gal/min)

Pressure
315 bar (4 569 psi)

Filter
5 microns

STEERING SYSTEM

Double acting cylinders, with ground-driven emergency steering pump.

Lock to lock turns
4,9

Steering Angle
42°

WATER TANKER PLUMBING

Centrifugal water pump

Rate of Flow
1 800 l/min

Head
50 m

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

MAX.VEHICLE SPEED

1st	4 km/h	2,5 mph
2nd	9 km/h	6 mph
3rd	17 km/h	11 mph
4th	23 km/h	14 mph
5th	33 km/h	21 mph
6th	44 km/h	27,3 mph
7th	51 km/h	32 mph
R	7 km/h	4 mph

CAB

ROPS/FOPS certified 74 dBA internal sound level measured according to ISO 6396.

STANDARD EQUIPMENT

- Dribble bar
- Spray valves (manual activation)
- Fold down top rails
- Suction pipe for filling from dam
- Step ladder access
- Inspection access

OPTIONAL EXTRAS

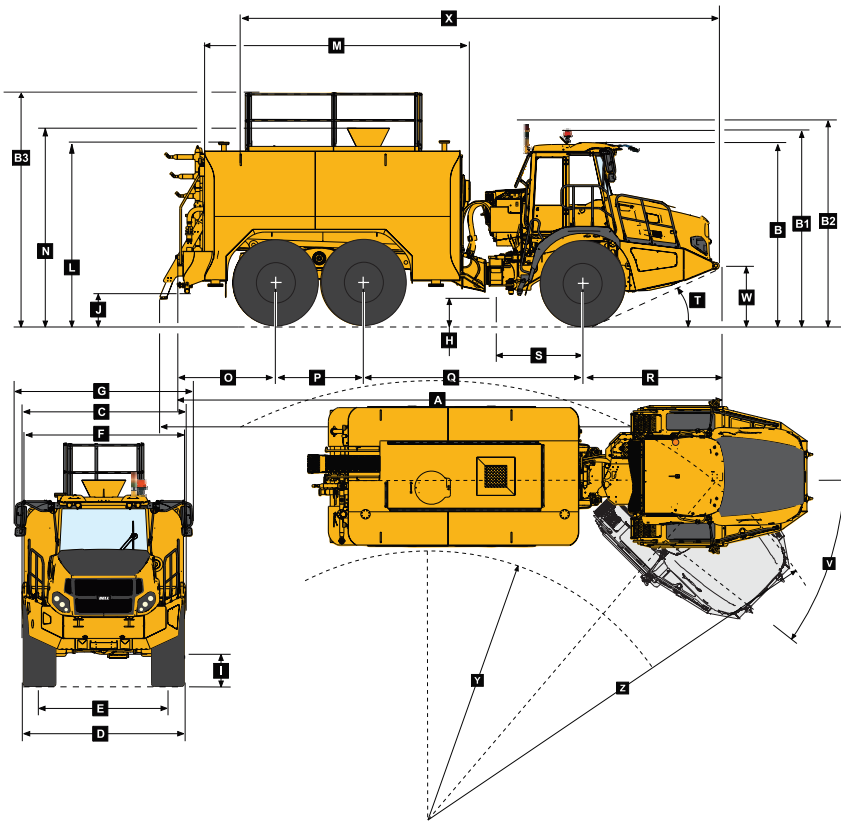
- Manual water cannon
- Remote control water cannon
- Remote control spray nozzles
- Pressurised dribble bar system
- Firefighting option
- Hose reel option

Load Capacity & Ground Pressure

OPERATING WEIGHTS		GROUND PRESSURE		LOAD CAPACITY	
UNLADEN		LADEN (No sinkage/Total Contact Area Method)			
	kg (lb)	875/65 R29	kPa (Psi)		
Front	18 484 (40 750)	Front	296 (43)	Rated Payload	43 000 litres (11 000 gallons)
Middle	8 648 (19 066)	Middle	366 (53)		
Rear	8 543 (18 834)	Rear	366 (53)		
Total	35 675 (78 650)				
LADEN					
	kg (lb)	29.5 R 25	kPa (Psi)		
Front	24 204 (53 361)	Front	326 (47)		
Middle	28 488 (62 805)	Middle	395 (57)		
Rear	28 383 (62 574)	Rear	395 (57)		
Total	81 075 (178 740)				

* 29.5R25 Groundpressures calculated with Michelin XADN+ Tyre. 875/65 R29 Groundpressures calculated with Michelin XAD65-1 Tyre.

Dimensions

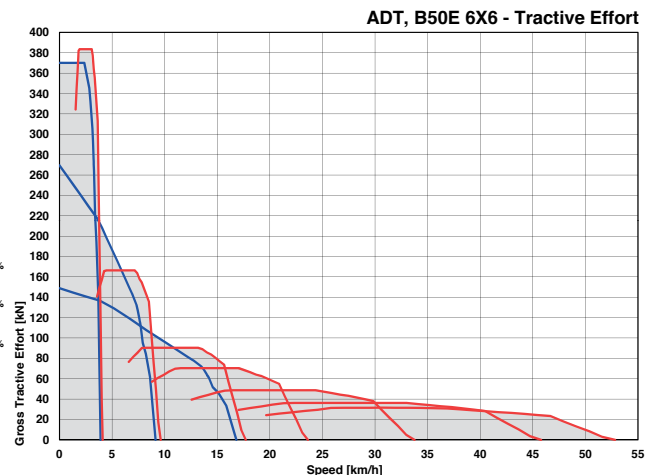
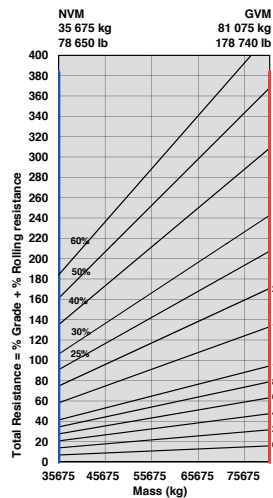


Machine Dimensions

A	Length - Transport Position	11 985 mm
A1	Length - Rear Step	12 195 mm
B	Height - Transport Position	3 822 mm
B1	Height - Rotating Beacon	4 050 mm
B2	Height - Load Light	4 141 mm
B3	Tank Guardrail Height - Operating Position	4 902 mm
C	Width Over Mudguards	3 790 mm
D	Width over Tyres	3 714 mm
E	Tyre Track Width	2 952 mm
F	Width Over Tank	3 820 mm
G	Width Over Mirrors - Operating Position	4 027 mm
H	Ground Clearance - Artic	558 mm
I	Ground Clearance - Front Axle	555 mm
J	Ground Clearance - Tank	690 mm
K	Ground Clearance - Dribble Bar	690 mm
L	Tank Height	4 022 mm
M	Tank Length	6 500 mm
N	Funnel Loading Height	4 225 mm
O	Rear Axle Center to Tank Rear	2 240 mm
P	Mid Axle Center to Rear Axle Center	1 950 mm
Q	Mid Axle Center to Front Axle Center	4 438 mm
R	Front Axle Center to Machine Front	3 351 mm
S	Front Axle Center to Artic Center	1 558 mm
T	Approach Angle	24°
V	Maximum Articulation Angle	42°
W	Front Tie Down Height	1 269 mm
X	Machine Lifting Centers	10 161 mm
Y	Inner Turning Circle	4 753 mm
Z	Outer Turing Circle	9 349 mm

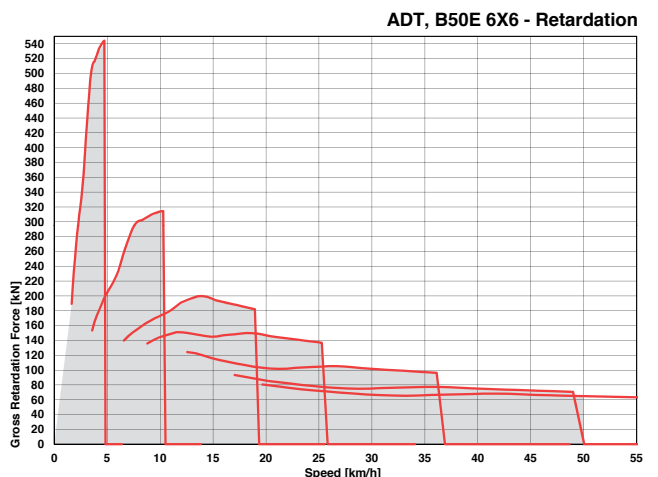
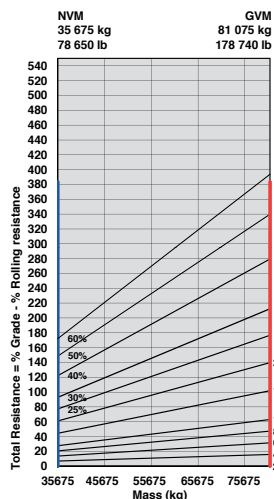
Grade Ability/Rimpull

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 right across charts until line intersects rimpull curve.
3. Read down from this point to determine maximum speed attained at that tractive resistance.

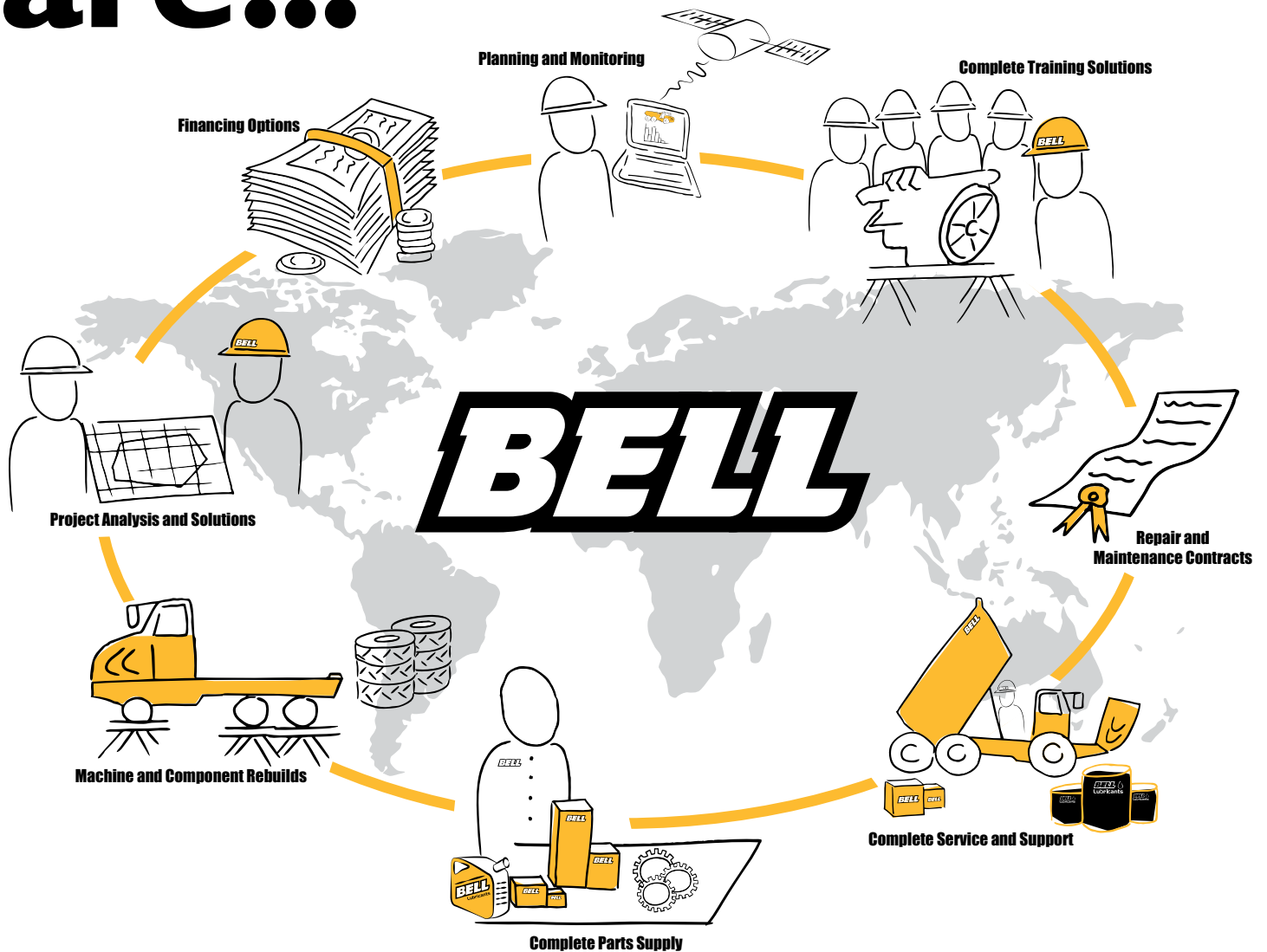


Retardation

1. Determine 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 the curve.
3. Read down from this point to determine maximum speed.



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The key to a productive and profitable fleet, lies in the ability to monitor and manage your machines and operators efficiently. Machine operational data is processed and compiled into useful production and performance statistics, accessible via the Bell Fleetm@tic® website. These reports are also automated and emailed directly to you. The two monitoring packages that we have available, are:

- **The Classic Package** supplies you with good enough information for you to have a very good understanding of how your machines is operating for each shift that it runs. This package comes standard with the machine for 2 years.
- **The Premium Package** is focused on customers who need to have extremely detailed information of the machine's operation. For this package we offer similar information to that of the Classic Package but for each individual laden - unladen cycle. In addition, live tracking is available on the Fleetm@tic® website on a per minute basis.

Fleetm@tic®:

- Maximise productivity
- Generate machine utilisation reports
- Identify operator training requirements
- Pro-active maintenance planning
- Receive machine health data
- Implement safety features
- Protect investments
- Receive real time geospatial data





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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