Eseries Articulated Dump Trucks

B30E MK2



Stage IV/Tier 4f Certified



E is for evolution

Your business is our business. Bell Articulated Dump Trucks haul more, for longer at the lowest cost-per-ton to deliver more on your profit margins.

As a global leader in Articulated Dump Trucks, Bell Equipment brings you the world class E-series range. The evolutionary E-series is packed with class leading features that deliver production boosting payloads, lower daily operating costs, superior ride quality and uncompromised safety standards. Bell E-series ADTs will give your business the competitive edge you need.



Specifications	B25E	B30E	
Gross power	210 kW (281 hp)	246 kW (329 hp)	
Operating mass			
Empty	19 660 kg (43 343 lb)	20 140 kg (44 401 lb)	
Loaded	43 660 kg (96 254 lb)	48 140 kg (106 131 lb)	
Rated payload	24 000 kg (52 911 lb)	28 000 kg (61 729 lb)	
2:1 heaped capacity	15 m ³ (19,5 yd ³)	17,5 m ³ (22,9 yd ³)	

Extensive use of high-strength, lightweight materials give these trucks the best payload-to-mass ratios and hauling efficiencies in each class.

With their oscillating frame and high-floatation tyres, Bell trucks won't leave you stuck on muddy, rutted or hilly terrain.

B30E

The redesigned sound-suppressed cab features fatigue-beating controls, advanced diagnostic monitor and a sealed-switch module for convenient, fingertip operation of numerous functions.

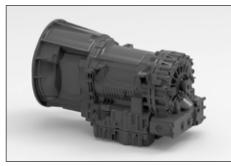
Fuel-efficient emission-certified engines deliver clean power without compromise in all conditions. Leadingedge emissions technology ensures rapid engine response and dependable cold-start performance.

The new E-series range takes ADT functionality to new industry standards, with customer-focused enhancements and the highest level of automated machine protection available.

Through substantial investments in Research and Development and employing industry leading technology, advancements have been made in the key areas of performance and fuel efficiency – helping you to move more material at lower operating costs and environmental impact.

Building on pedi

Building on from the D-series platform, Bell Equipment's evolutionary approach to design delivers optimised power-toweight ratio and legendary fuel efficiency.



Planetary powershift transmission optimises shift points to match conditions and vehicle weight while protecting the transmission from operator error and abuse.



The transfer case inter-axle differential delivers equal torque to each axle when traction is favourable. When conditions deteriorate, the diff-lock automatically engages to deliver torque to the tyres that can best use it.



High-strength steel and widely spaced taper roller bearings in the articulation area enhance long-term durability.



A tailgate is available as an option for better material retention. The tailgate opens as the bin is raised for dumping. Spring steel straps maintain positive seal throughout the haul, ensuring minimal material is lost.

- Limited-slip differentials and electronically controlled automatic Inter-axle Differential Lock (IDL) provide Automatic Traction Control (ATC) in poor underfoot conditions.
- The best-in-class payload-to-weight ratio means that more of your fuel cost is spent moving the material, not running the machine, decreasing your cost per tonne.

An industry leading, fully automatic six-speed planetary transmission with torque converter lock-up maximises fuel efficiency.

Automatic retardation slows the truck when the operator backs off the accelerator pedal for more confidence on steep grades and enhanced brake life.

- Electronic common rail fuel system provides high injection pressures even at low engine speed for improved cold-starting ability, low-speed response and reduced emissions.
- The short front end provides the best approach angle that allows these ADTs to attack steep terrain.
- High-travel suspension keeps all tyres in constant contact with the ground, for optimum traction.

gree

131

211

Improved payloads, faster haul cycles and industry leading fuel economy all help you move more material at a lower-cost-per-tonne than your competitors. Class leading payload-to-weight ratio means that more of your fuel cost is spent moving the material and not running the machine - for maximum productivity and profitability.

With a high oscillating frame joint, articulated steering, and high-floatation tyres, these hard working haulers won't let wet weather or steep grades dampen your plans.

Our innovative rear suspension comfort ride option is available as an option to even further enhance ride comfort by ensuring minimal whole body vibration exposure.

Productivity increases, through reduced cycle times, and reduced haul road maintenance are even further benefits of the simple, but extremely successful system. Long haul cycles with rough, hard roads will see maximum benefit, especially on the unladen run.

Uncompromised durability

Built smarter, to work harder. Bell ADTs offer optimised machine weights so you spend more time and money moving material and not running the machine.

With decades of ADT experience, the new Bell E-series articulated hauler is designed and manufactured using purpose built, reliable Bell components best suited for the toughest of conditions. The central oscillation joint, high suspension travel on all axles, and balanced weight distribution provide the agility and ability to navigate hostile terrain.



The high-strength steel chassis delivers strength and rigidity without excess weight.





For comfortable productivity, the A-frame suspension system coupled with hydropneumatic suspension struts reduce the lateral vibration often experienced with off-road conditions. A superior suspension seat provides additional isolation for the operator.



Rough terrain demands tough suspensions. Heavy-duty components absorb shocks and come back for more. You get best-in-class suspension travel and ground clearance, too.

Dual circuit hydraulically actuated dry-disc brakes on the B25E deliver consistent "on-the-mark" braking, even in cold weather. Simplified design makes them easy to maintain.

- Fully enclosed, dual circuit wet disc brakes on the B30E offer superior braking performance and extended service life essential for wet and muddy conditions. Oil-immersed wet-disc brakes are virtually maintenance-free.
- Viscous electronically controlled direct-drive engine fans provide cooling for the best efficiency.
- Class leading engine braking coupled with automated transmission retardation, provides superior braking power and reduces service brake wear.

Other uptime-boosting features include world class on-board diagnostics with live stream functionality, solid-state sealed switches and satellite fleet management system.

REL

.....

High-strength welded-alloy steel chassis and reinforced articulation joints, offer superior strength and durability with optimised weight for class leading power-to-weight ratio. Lower machine mass reduces powertain and structural stress.

Run leane cleaner

A combination of an optimally tuned engine and weight optimised complete machine package ensure that Bell ADTs have a minimal carbon footprint.

SCR uses AdBlue®/DEF which

- is non-toxic, odourless, low cost and simple to refill.
- is injected into the flow of the exhaust gases and reacts with the NOx gases in the catalytic convertor to form harmless nitrogen and water.
- is consumed at approximately 3-5% of your fuel usage.

EGR

- recirculates burnt exhaust gas back into the combustion chamber, lowering combustion temperatures and NOx production.
- on the Mercedes Benz engine, does not require a diesel particulate filter (DPF) and associated regeneration.







- Reduced emissions
- Improved engine efficiency
- Lower fuel consumption
- Improved power
- Improved torque
- Improved engine response

Stage IV/Tier 4f emissions control coupled with the lowest fuel burn ensures the lowest environmental impact.

Our new engine platform from Mercedes Benz gives lower specific fuel consumption than the outgoing Stage IIIB/Tier 4i engine.

Our E-series truck platform easily accommodates the new engine and related emissions control technology and reflects our strategy of continuous improvement.

344

Bell Equipment's evolutionary E-series runs SCR-technology (Selective Catalytic Reduction) in combination with EGR to give an industry leading standard in fuel-efficient emission control, designed specifically for the off-highway market to be compliant to Stage IV and Tier 4f. Engine power and fuel consumption have been further optimised through event dependant software that controls retardation, cooling and charging of accumulators.

Operate with ease

Using the latest in automotive technology and state-of-the-art tooling, the E-series takes operator experience to new heights.

Climb into the cab of a Bell ADT and you will feel right at home. Its quiet, spacious interior, ergonomically positioned operator station and climate-controlled cabin is loaded with productivityboosting comfort and convenience features that minimise operator fatigue and enhance the operator's experience. Modern flowing lines, in keeping with current styling trends on road vehicles, offer unsurpassed levels of visibility.

From the state-of-the-art 10" full colour screen, automotive mouse interface and sealed switch module with centrally located sealed display unit to air suspension seat, tilt/telescoping steering wheel and optional CD player with high-output speakers, the E-series provides everything your operators need to perform at their best.





Easy-to-understand instruments and intuitive controls wrap around the operator so they're easier to view and operate.



A user friendly 10" colour monitor offers vital operating information, safety warnings, detailed diagnostic readings and dump body function settings.



An automotive controller provides menu navigation on the colour monitor to extract information on machine operation and adjustment of machine settings.





Convenient sealed switch module provides fingertip control of numerous productivity enhancing functions including: **Keyless Start, I-Tip, Dump Body Upper Limit, Soft Stop/Hard Stop Selection, Retarder Aggressiveness and Speed Control.** The standard sound-suppression package significantly reduces noise levels and operator fatigue.

• The adaptive transmission control adjusts clutch engagement to ensure smooth, consistent shifts throughout the life of the truck.

A fully adjustable air-suspension seat with variable damping, auto height adjust according to operator weight, pneumatic lumbar support and multipoint harness for class-leading comfort and safety.

- A purpose designed HVAC climatecontrol system with automotive-style louvres keeps the glass clear and the cab comfortable.
- New machine styling and cabin design improvements, which include full glass access door and high visibility mirror package, provide exceptional all-round visibility.
- You won't find retarder pedals or levers in a Bell truck. Retarder aggressiveness is simply set on the switch pad.
 Everything else is automatic.

Safety, our business too

By listening to users and delivering on expectations in an ever changing workplace, we provide a truck that leads in application safety with numerous groundbreaking innovations.

Independent features such as Keyless Start, Hill Assist, Bin Tip Prevention, Auto Park Application (APA), Standard Turbo Spin Protection and On-Board Weighing (OBW) are still standard on the E-series. For improved safety and productivity, the E-series has an electronically controlled automatic Inter-axle Differential Lock (IDL) giving the vehicle full Automatic Traction Control (ATC).





Our quiet operator cabins are ROPS/FOPS certified with an air suspension operator seat. The trainer seat has a retractable lap belt while the operator seat has a standard 3 point seat belt. Both have automatically locking retractors.



An optional integrated reverse camera and high visibility mirrors ensure superior all round visibility.



Keyless start, driver identity and access codes ensure no unauthorised operation of your equipment.

• Full handrails (to ISO 2876) can be installed to offer improved safety when performing engine checks.

The park brake automatically applies when neutral is selected and it is not possible to engage neutral at speed. Torque dependent park brake release (Hill Assist) ensures no roll back on slopes. Best-in-class retarder and engine braking automatically applies when the operator lifts his foot off the accelerator. Retarder aggressiveness can be simply adjusted on the sealed switch module ensuring maximum descent control for all conditions.

All trucks can be set up to automatically sound the horn when starting or switching between forward and reverse.

Multiple geofencing in challenging site conditions ensures safe machine operation, such as downhill speed control, geofence speed limits and bin restrictions.

390



The exclusive on-board weighing presents the operator with real time information on the payload while the machine is being loaded. A 'speed restriction' mode can also be activated if the machine is significantly overloaded.



The incorporation of a pitch and roll sensor in the vehicle prevents bin operation if the truck is in an unsafe position.



Both operator or site selectable maximum speed control allows the vehicle to automatically decelerate and apply the retarder to prevent onsite speeding.

Maximise uptime

The E-series is loaded with features that make it as easy to maintain as it is to operate. Spend less time and expense getting ready for work and more time getting work done.

Easy-to-reach dipsticks, see-through reservoirs, sight gauges and grouped service points make quick work of the daily routine. Quickchange filters, extended engine and hydraulic oil-service intervals lower daily operating costs and provide superior machine uptime. An industry leading 10" colour monitor offers on-board machine diagnostics as well as automated daily service functionality, this coupled with diagnostic test ports help you troubleshoot and make informed maintenance decisions on site. Automated daily service checks can be done with ease and comfort from inside the operator station using the 10" colour LCD monitor and sealed display controller.

The load-sensing hydraulic system was designed with simplicity in mind, while maintaining efficiency. Fewer components for improved reliability and serviceability.

Extended engine transmission and hydraulic oil-change for increased uptime and lower operating cost.

Available environmental drains allow quick, no-spill changes.

Your Bell Service Centre has the parts and backup you need to stay productive and offers a wide variety of preventative maintenance and support programmes to help you control costs.

Service Differenties T	And Personal Property lies of the local division of the local divi	Dec
Detending	NAMES OF TAXABLE PARTY.	
Progine	Paint Grona Dan Million	IN CHART CHIEF
Terrentestor	Last Service	1911119
Distant & Restautions	1 Mild Sensi Mile	
Sector Carteral		
Hydraulius.	1440 Y 5185-85	
Property line	Shower Di Jacob	
Standard .	Ingen Constituted	
	2 herefaller	
Sector Sec	Ar train the	
No. No. of Co.	Charmen Calves	
Contraction of the local division of the loc	Interview Of Nor	
	Table Flags redt.	_
territ.	Ridlands beight 19her	
agences.	City hads, high tradem riting	_
Buronder:	Add Dedar Land	
Square & Vessille	and the second sec	
Californ		
Centrole & Depley		
Recent.		
Secondar		

If something goes wrong, the diagnostic monitor provides service codes and supporting info to help diagnose the problem.



The cab can be tilted in minutes without special tools, for convenient service access to drivetrain components.



An in-cab load centre simplifies fuse replacement. Fewer relays, connectors and harnesses mean higher reliability.



We offer a remote transmission filter option. They make transmission filter replacement a fast and clean task.





See-through fluid reservoirs and sight gauges let you check fluid levels at a glance.



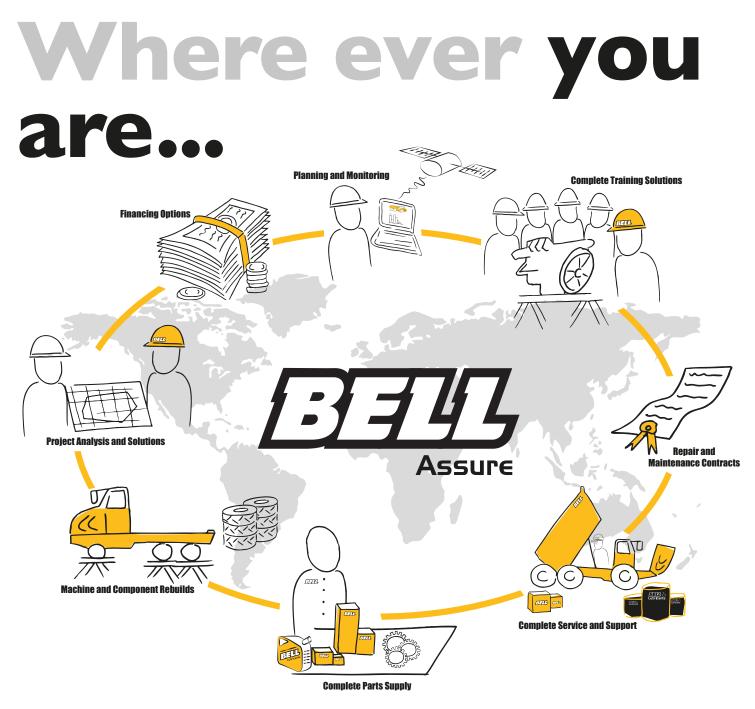
Easily accessible test ports allow technicians to troubleshoot problems more quickly.



The centralised lube bank places difficult-to-reach grease points within reach.



The convenient and easy to understand RSG decal details daily checks and actions (eg: greasing).



Through our own network as well as approved dealers and strategic alliances we ensure supply and support to the global market.

Develop a lasting and meaningful partnership with Bell Equipment through Bell Assure, your tailor-made support structure furnished with all the after-sales tools you need to give you best value, peace of mind and a unique after-sales experience.

...we have you covered

Smarter fleet management



Cutting edge technology, helping you run your fleet smarter. Providing accurate, up-to-date operational data, production data and diagnostic data.

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:

BELL

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



Technical Data - B25E

ENGINE Manufacturer Mercedes Benz

Model OM936LA

Configuration Inline 6, turbocharged and intercooled.

Gross Power 210 kW (281 hp) @ 2 200 rpm

Net Power 201 kW (269 hp) @ 2 200 rpm

Gross Torque 1 150 Nm (848 lbft) @ 1 200 -1 600 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 I (8.2 US gal)

Certification OM936LA meets EU Stage IV / EPA Tier 4 Final emissions regulations.

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.

TRANSFER CASE

Manufacturer Bell VGR

Model 8100

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 15T

Differential High input limited slip differential with spiral bevel gears

Final Drive Outboard heavy duty planetary on all axles.

BRAKING SYSTEM

Service Brake Dual circuit, full hydraulic actuation dry disc brakes with 8 calipers (4F, 2M, 2R).

Maximum brake force: 184 kN (41 400 lbf)

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

Maximum brake force: 195 kN (43 900 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)

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.

Ритр Туре

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 grounddriven emergency steering pump.

Lock to lock turns 4,1 Steering Angle

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

Load Capacity & Ground Pressure

OPERATIN	IG WEIGHTS	GROUND PRESSURE		LOAD CAPACITY		OPTION WEIGHTS			
UNLADEN	kg (lb)	LADEN (N	lo sinkage)	LADEN (15	% sinkage)	BODY	m ³ (yd ³)		kg (lb)
Front	10 085 (22 230)	23.5 R 25	kPa (Psi)	23.5 R 25	kPa (Psi)	Struck Capacity	12 (15,7)	Bin liner	1 050 (2 314)
Middle	4 805 (10 600)	Front	246 (36)	Front	230 (33)	SAE 2:1 Capacity	15 (19,5)	Tailgate	770 (1 697)
Rear	4 770 (10 520)	Middle	337 (49)	Middle	283 (41)	SAE 1:1 Capacity	18 (23,5)	Extra wheelset	565 (1 246)
Total	19 660 (43 350)	Rear	337 (49)	Rear	283 (41)	SAE 2:1 Capacity			
LADEN						with Autogate	15,5 (20,3)		
Front	12 820 (28 260)								
Middle	15 440 (34 040)					Rated Payload	24 000 kg		
Rear	15 400 (33 950)						(52 911 lbs)		
Total	43 660 (96 250)								

PNEUMATIC SYSTEM Air drier with heater and integral

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

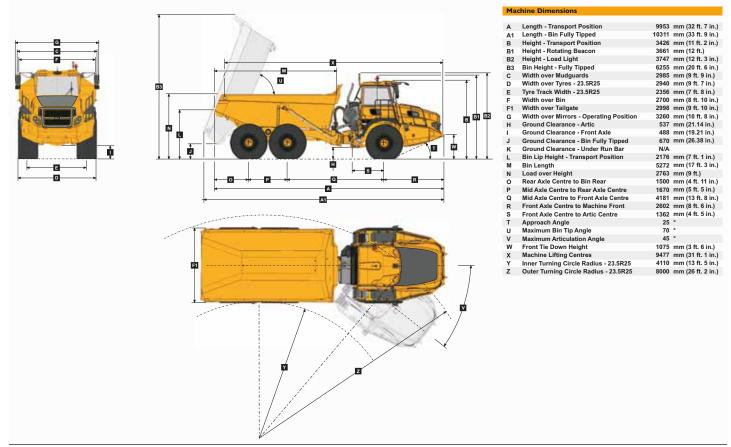
VEHICLE	SPEEDS
1et	7 km/h

ISL	7 Km/m	4 mpn
2nd	15 km/h	9 mph
3rd	23 km/h	14 mph
4th	35 km/h	22 mph
5th	47 km/h	29 mph
3th	50 km/h	31 mph
R	7 km/h	4 mph

CAB

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

Dimensions



Grade Ability/Rimpull

- 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.

esistan

- % Rolling

Resistance = % Grade

Total

180

160

140

120

ling 100

-80

% Grade

Resistance

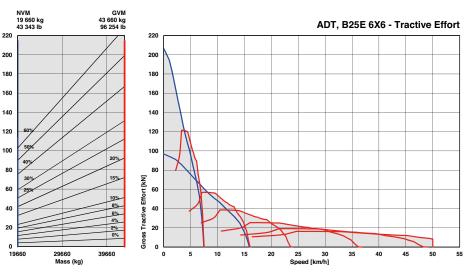
Total

60

40

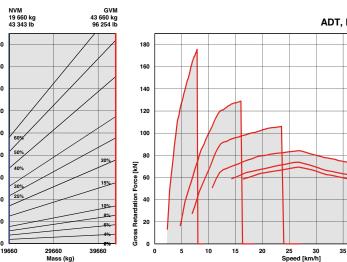
20

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.



ADT, B25E 6X6 - Retardation

40 45 50

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 lbft) @ 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 I (8.2 US gal)

Certification OM936LA meets EU Stage IV / EPA Tier 4 Final emissions regulations.

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.

TRANSFER CASE

Manufacturer Bell VGR

Model 10000

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.

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) 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 grounddriven 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

Load Capacity & Ground Pressure

OPERATI	NG WEIGHTS	GROUND PRESSURE		LOAD CAPACITY		OPTION WEIGHTS			
UNLADEN	kg (lb)	LADEN-No	o sinkage	LADEN-15	% sinkage	BODY	m ³ (yd ³)		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	1 180 (2 601)
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 Autogate	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)				
)									

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

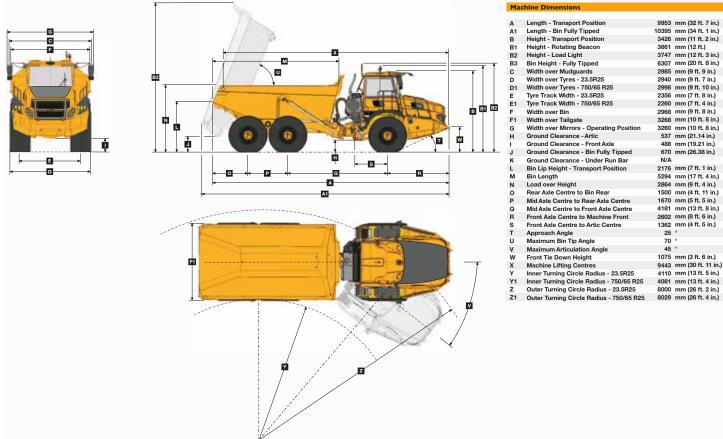
Alternator Rating 28V 80A

VEHI	CLE 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

САВ

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

Dimensions



240

220

200

180

160

140

100

80

60

40

20

0

180

160

140

120

Rolling 100

% 80

: % Grade

I Resistance

Total

60

40

20

resist

Bolline 120

%

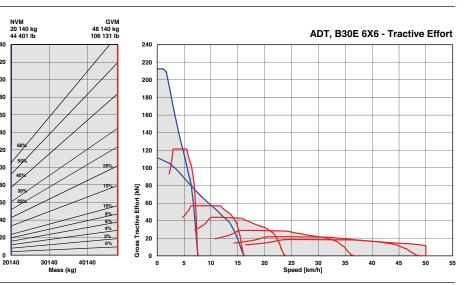
Grade

Resistance

Fotal

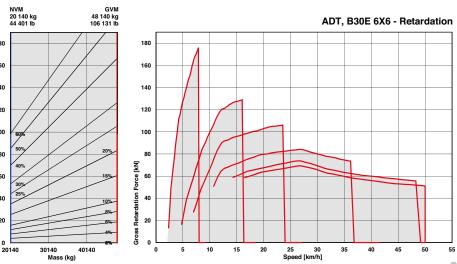
Grade Ability/Rimpull

- 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.



ENGINE	CAB (continued)
Engine valve brake	Cup holder
Dual element air cleaner with dust ejector valve	 Cooled/heated lunch box
Precleaner with automatic dust scavenging	Electric adjustable and heated mirrors
Water separator	Deluxe 10" colour LCD:
Serpentine drive belt with automatic tensioner	Speedometer / Fuel gauge /
Provision for fast fill	Transmission oil temperature gauge /
	Engine coolant temperature gauge /
COOLING	LED function/warning indicators and
Crankshaft mounted electronically controlled	alarm / Transmission gear selection /
viscous fan drive	Tachometer / Battery voltage / Hour r
Fan guard	Odometer / Fuel consumption / Tip c
	Trip timer / Trip distance / Metric/Eng
PNEUMATIC SYSTEM	Service codes/diagnostics
Engine-mounted compressor	 Backlit sealed switch module function
Air drier with heater	Wiper control / Lights / Heated mirror
Integral unloader valve	Retarding aggressiveness / Transfer of
	differential lock / Transmission gear h
ELECTRICAL SYSTEM	Dump-body tip limit / Automatic dum
Battery disconnect	tip settings / Airconditioner/ Heater co
Drive lights	Preselected Speed Control
Air Horn	Preselected Speed Control
Reverse alarm	DUMP BODY
Rotating Beacon	 Dump body mechanical locks (x2). Page 16 lb ump
Pitch Roll Sensor	and fully up
Artic reverse light	Body liner
STEERING SYSTEM	
	Body heater
Bi-directional ground-driven secondary steering	Less dump body and cylinders
pump	OTUED
САВ	
ROPS/FOPS certification	Automatic Traction Control (ATC)
	Wet disc brakes B30E Drudies brakes B30E
Tilt cab	Dry disc brakes B25E 22 5D25 Dadial Fathmayor trees
Gas strut-supported door	 23.5R25 Radial Earthmover tyres 750 (05 PD5 Padial Earthmover tyres)
I-Tip programmable dump-body tip settings	▲ 750/65R25 Radial Earthmover tyres
HVAC Climate control system	Remote grease banks
AM/FM radio/CD player	Automatic greasing
Rear window guard	Onboard Weighing
Wiper/washer with intermittent control	▲ ▲ Load lights: stack
Tilt and telescoping steering wheel	Comfort ride suspension (Rear)
Centre-mount air-suspension seat	A Reverse camera
Forward work lights	A A Hand rails
LED work lights	• • Cab peak
Rotating beacon: seat belt installation	A High pressure hydraulic filter
Installation	
Remote engine and machine isolation	🔺 🔺 Fuel heater
-	 Fuel heater Belly cover
Remote engine and machine isolation	
Remote engine and machine isolation Remote battery jump start	Belly cover

12-volt power outlet
 Cab utility bin (removable)



All dimensions are shown in millimetres, unless otherwise stated between brackets. All dimensions are shown in millimetres, unless otherwise stated between prackets. 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. Blu@dvantage™ is a trademark of Bell Equipment Co. (PTY) Ltd AdBlue® is a registered trademark of VDA.

BELL INTERNATIONAL: Tel: +27 (0)35-907 9431 E-mail: marketing@bellequipment.com Web: www.bellequipment.com



- Tel: +33 (0)5-55-89-23-56
 - Tel: +7-495-287-80-02 Tel: +34-91-879-60-19 Tel: +1-855-494-2355



