

B25E I B30E MK2



Tier 4f/Stage IV 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 (96,253 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 m³ (19.5 yd³)	17.5 m³ (22.9 yd³)

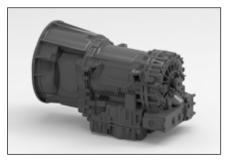


The new E-series range takes ADT functionality to new industry standards, with customer-focused enhancements and the highest level of automated machine protection available.

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

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



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



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



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



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 ton.
- An industry leading, fully automatic six-speed planetary transmission with torque converter lock-up maximizes 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 tires in constant contact with the ground, for optimum traction.





Our innovative front and rear comfort ride suspension options are offered to even further enhance ride quality and ensure minimal whole body vibration exposure.

Productivity increases through reduced cycle times, and reduced haul road maintenance are even further benefits of these extremely successful systems. Experienced ADT operators who have driven trucks installed with these systems have come away amazed by the comfort of the machine, as well as the confidence that the adaptive front suspension engenders.

Uncompromised durability

Built smarter, to work harder. Bell ADTs offer optimized 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.



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

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

Run leaner cleaner

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

SCR uses AdBlue®/DEF which

- is non-toxic, odorless, 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



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

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 optimized 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 productivity boosting comfort and convenience features that minimize 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 color 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" color monitor offers vital operating information, safety warnings, detailed diagnostic readings and dump body function settings.



An automotive controller provides menu navigation on the color 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 louvers 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 allround 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 unauthorized operation of your equipment.





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.

Maximize 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. Quick-change filters, extended engine and hydraulic oil-service intervals lower daily operating costs and provide superior machine uptime. An industry leading 10" color 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.





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



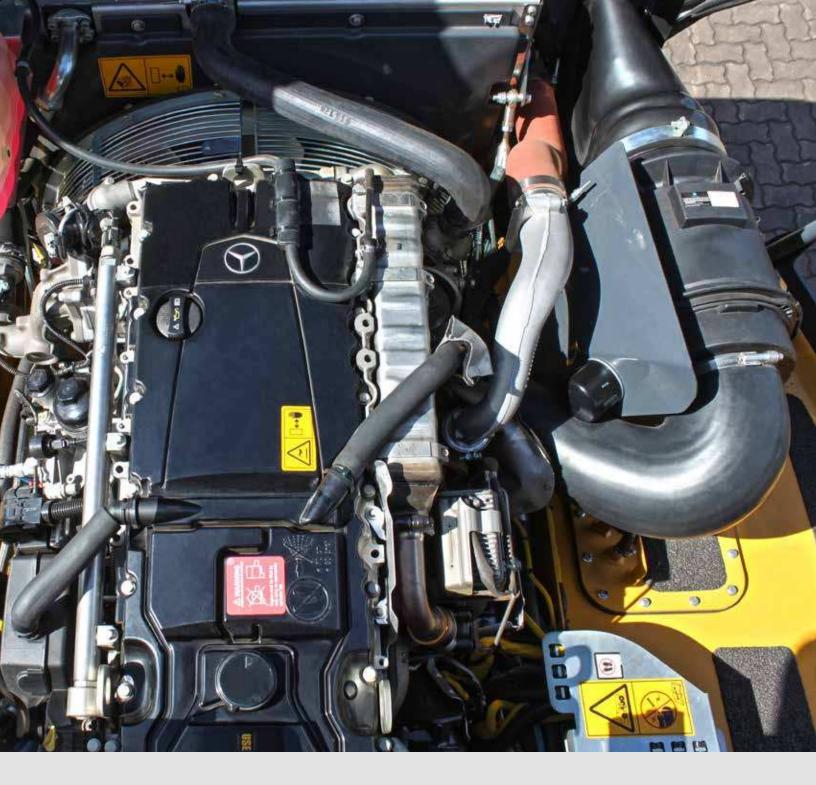
The cab can be tilted in minutes without special tools, for convenient service access to drivetrain components.



An in-cab load center 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.

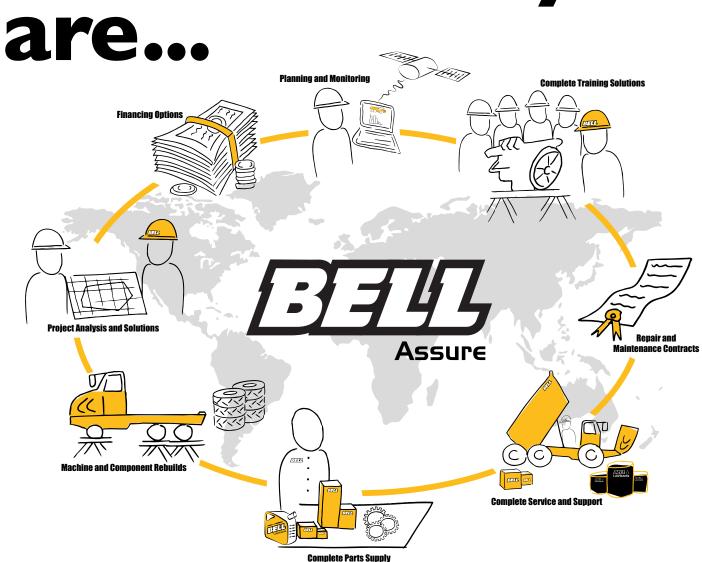


The centralized lube bank places difficult-to-reach grease points within reach.



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

Where ever you



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:

- Maximize productivity
- Generate machine utilization reports
- ldentify operator training requirements
- Pro-active maintenance planning
- Receive machine health data
- Implement safety features
- Protect investments
- PReceive real time geospatial data



Fleetm@tic

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 rom

Displacement 7.7 liters (469 cu.in)

Auxiliary Brake Engine Valve Brake

Fuel Tank Capacity 302 liters (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 Rell

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 dependent.

Total Retardation Power Continuous: 318 kW (426 hp) Maximum: 588 kW (788 hp)

WHEELS

Type

Radial Earthmover

Tire 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 grounddriven emergency steering pump.

Lock to lock turns

4.1

Steering Angle

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

VEH	IICLE 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

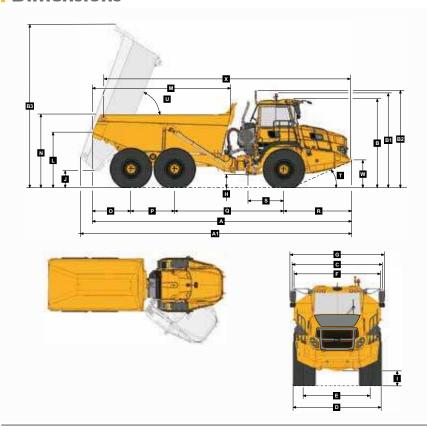
CAB

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

Load Capacity & Ground Pressure

OPERATIN	IG WEIGHTS	GROUND PRESSURE		LOAD CAPACITY		OPTION WEIGHTS			
UNLADEN	kg (lb)	LADEN (N	lo sinkage)	LADEN (15	% sinkage)	BODY	m³ (yd³)		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	769 (1,695)
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 Tailgate	15.5 (20.3)		
Front	12,825 (28,274)								
Middle	15,435 (34,028)					Rated Payload	24,000 kg		
Rear	15,400 (33,951)						(52,911 lbs)		
Total	43,660 (96,253)								

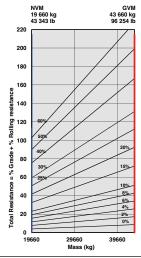
Dimensions

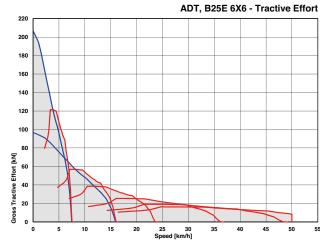


Ma	chine Dimensions	
Α	Length - Transport Position	9,953 mm (32 ft. 7 in.)
Α1	Length - Bin Fully Tipped	10,311 mm (33 ft. 9 in.)
В	Height - Transport Position	3,426 mm (11 ft. 2 in.)
В1	Height - Rotating Beacon	3,661 mm (12 ft.)
B2	Height - Load Light	3,747 mm (12 ft. 3 in.)
ВЗ	Bin Height - Fully Tipped	6,255 mm (20 ft. 6 in.)
С	Width over Mudguards	2,985 mm (9 ft. 9 in.)
D	Width over Tires - 23.5R25	2,940 mm (9 ft. 7 in.)
Е	Tire Track Width - 23.5R25	2,356 mm (7 ft. 8 in.)
F	Width over Bin	2,700 mm (8 ft. 10 in.)
F1	Width over Tailgate	2,998 mm (9 ft. 10 in.)
G	Width over Mirrors - Operating Position	3,260 mm (10 ft. 8 in.)
Н	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	2,176 mm (7 ft. 1 in.)
M	Bin Length	5,272 mm (17 ft. 3 in.)
N	Load over Height	2,763 mm (9 ft.)
0	Rear Axle Centre to Bin Rear	1,500 mm (4 ft. 11 in.)
Р	Mid Axle Centre to Rear Axle Centre	1,670 mm (5 ft. 5 in.)
Q	Mid Axle Centre to Front Axle Centre	4,181 mm (13 ft. 8 in.)
R	Front Axle Centre to Machine Front	2,602 mm (8 ft. 6 in.)
s	Front Axle Centre to Artic Centre	1,362 mm (4 ft. 5 in.)
Т	Approach Angle	25 °
U	Maximum Bin Tip Angle	70°
٧	Maximum Articulation Angle	45 °
w	Front Tie Down Height	1,075 mm (3 ft. 6 in.)
Х	Machine Lifting Centres	9,477 mm (31 ft. 1 in.)
Υ	Inner Turning Circle Radius - 23.5R25	4,110 mm (13 ft. 5 in.)
z	Outer Turning Circle Radius - 23.5R25	8,000 mm (26 ft. 2 in.)

| Grade Ability/Rimpull

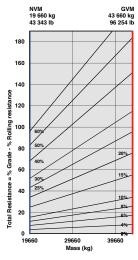
- Determine tractive resistance by finding intersection of vehicle mass line and grade line.
 NOTE: 2% typical rolling resistance is already assumed in chart and grade line.
- 2. From this intersection, move straight right across charts until line intersects rimpull curve.
- 3. Read down from this point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

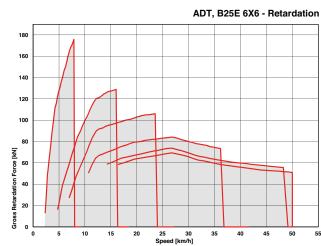




| Retardation

- 1. Determine retardation force required by finding intersection of vehicle mass line.
- 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

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 rom

Displacement 7.7 liters (469 cu.in)

Auxiliary Brake Engine Valve Brake

Fuel Tank Capacity 302 liters (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 LayoutConstant 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 dependent.

Total Retardation Power Continuous: 318 kW (426 hp) Maximum: 588 kW (788 hp)

WHEELS

Type

Radial Earthmover

Tire

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)

Battery Capacity 2 X 75 Ah

Alternator Rating 28V 80A

VEI	HICLE 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

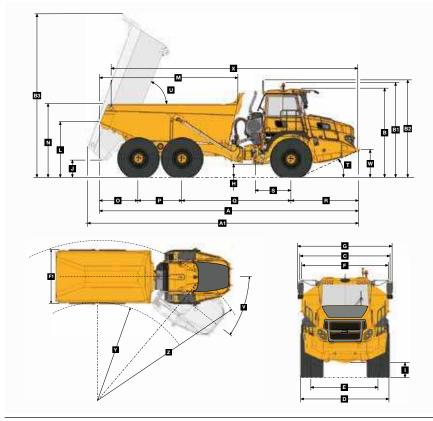
CAB

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

Load Capacity & Ground Pressure

OPERATI	NG WEIGHTS	GROUND PRESSURE		LOAD CAPACITY		OPTION WEIGHTS			
UNLADEN	kg (lb)	LADEN-N	o 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)				

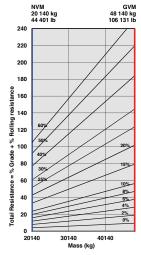
Dimensions

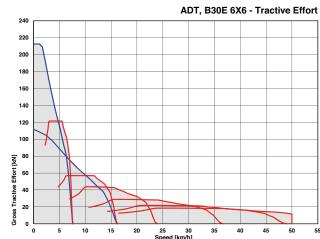


Ma	chine Dimensions	
Α	Length - Transport Position	9,953 mm (32 ft. 7 in.)
A1	Length - Bin Fully Tipped	10,395 mm (34 ft. 1 in.)
В	Height - Transport Position	3,426 mm (11 ft. 2 in.)
В1	Height - Rotating Beacon	3,661 mm (12 ft.)
B2	Height - Load Light	3,747 mm (12 ft. 3 in.)
ВЗ	Bin Height - Fully Tipped	6,307 mm (20 ft. 8 in.)
С	Width over Mudguards	2,985 mm (9 ft. 9 in.)
D	Width over Tires - 23.5 R25	2,940 mm (9 ft. 7 in.)
D1	Width over Tires - 750/65 R25	2,998 mm (9 ft. 10 in.)
E	Tire Track Width - 23.5 R25	2,356 mm (7 ft. 8 in.)
E1	Tire Track Width - 750/65 R25	2,260 mm (7 ft. 4 in.)
F	Width over Bin	2,968 mm (9 ft. 8 in.)
F1	Width over Tailgate	3,268 mm (10 ft. 8 in.)
G	Width over Mirrors - Operating Position	3,260 mm (10 ft. 8 in.)
Н	Ground Clearance - Artic	537 mm (21.14 in.)
ı	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	2,176 mm (7 ft. 1 in.)
М	Bin Length	5,294 mm (17 ft. 4 in.)
N	Load over Height	2,864 mm (9 ft. 4 in.)
0	Rear Axle Centre to Bin Rear	1,500 mm (4 ft. 11 in.)
Р	Mid Axle Centre to Rear Axle Centre	1,670 mm (5 ft. 5 in.)
Q	Mid Axle Centre to Front Axle Centre	4,181 mm (13 ft. 8 in.)
R	Front Axle Centre to Machine Front	2,602 mm (8 ft. 6 in.)
s	Front Axle Centre to Artic Centre	1,362 mm (4 ft. 5 in.)
Т	Approach Angle	25 °
U	Maximum Bin Tip Angle	70 °
٧	Maximum Articulation Angle	45 °
w	Front Tie Down Height	1,075 mm (3 ft. 6 in.)
Х	Machine Lifting Centres	9,443 mm (30 ft. 11 in.
Υ	Inner Turning Circle Radius - 23.5 R25	4,110 mm (13 ft. 5 in.)
Y1	Inner Turning Circle Radius - 750/65 R25	4,081 mm (13 ft. 4 in.)
z	Outer Turning Circle Radius - 23.5 R25	8,000 mm (26 ft. 2 in.)
Z 1	Outer Turning Circle Radius - 750/65 R25	8,029 mm (26 ft. 4 in.)

| Grade Ability/Rimpull

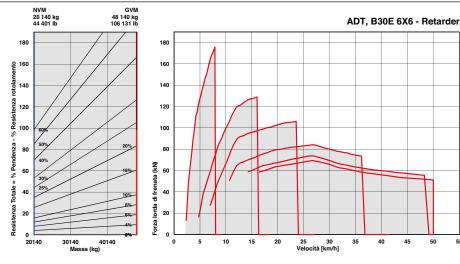
- Determine tractive resistance by finding intersection of vehicle mass line and grade line.
 NOTE: 2% typical rolling resistance is already assumed in chart and grade line.
- 2. From this intersection, move straight right across charts until line intersects rimpull curve.
- 3. Read down from this point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





Retardation

- 1. Determine retardation force required by finding intersection of vehicle mass line.
- 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.



Features and Options

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 Provision for fast fill COOLING Crankshaft mounted electronically controlled viscous fan drive Fan guard PNEUMATIC SYSTEM Engine-mounted compressor Air drier with heater Integral unloader valve ELECTRICAL SYSTEM Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering pump	CAB (continued) Cup holder Cooled/heated lunch box Electric adjustable and heated mirrors Deluxe 10" color LCD: Speedometer / Fuel gauge / Transmission oil temperature gauge / Engine coolant temperature gauge / LED function/warning indicators and au alarm / Transmission gear selection / Tachometer / Battery voltage / Hour me Odometer / Fuel consumption / Tip cou Trip timer / Trip distance / Metric/English Service codes/diagnostics Backlit sealed switch module functions Wiper control / Lights / Heated mirrors /
Dual element air cleaner with dust ejector valve Precleaner with automatic dust scavenging Water separator Serpentine drive belt with automatic tensioner Provision for fast fill COOLING Crankshaft mounted electronically controlled viscous fan drive Fan guard PNEUMATIC SYSTEM Engine-mounted compressor Air drier with heater Integral unloader valve ELECTRICAL SYSTEM Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	 Cooled/heated lunch box Electric adjustable and heated mirrors Deluxe 10" color LCD: Speedometer / Fuel gauge / Transmission oil temperature gauge / Engine coolant temperature gauge / LED function/warning indicators and au alarm / Transmission gear selection / Tachometer / Battery voltage / Hour me Odometer / Fuel consumption / Tip cou Trip timer / Trip distance / Metric/English Service codes/diagnostics Backlit sealed switch module functions
Precleaner with automatic dust scavenging Water separator Serpentine drive belt with automatic tensioner Provision for fast fill COOLING Crankshaft mounted electronically controlled viscous fan drive Fan guard PNEUMATIC SYSTEM Engine-mounted compressor Air drier with heater Integral unloader valve ELECTRICAL SYSTEM Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	Electric adjustable and heated mirrors Deluxe 10" color LCD: Speedometer / Fuel gauge / Transmission oil temperature gauge / Engine coolant temperature gauge / LED function/warning indicators and au alarm / Transmission gear selection / Tachometer / Battery voltage / Hour me Odometer / Fuel consumption / Tip cou Trip timer / Trip distance / Metric/English Service codes/diagnostics Backlit sealed switch module functions
Precleaner with automatic dust scavenging Water separator Serpentine drive belt with automatic tensioner Provision for fast fill COOLING Crankshaft mounted electronically controlled viscous fan drive Fan guard PNEUMATIC SYSTEM Engine-mounted compressor Air drier with heater Integral unloader valve ELECTRICAL SYSTEM Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	Electric adjustable and heated mirrors Deluxe 10" color LCD: Speedometer / Fuel gauge / Transmission oil temperature gauge / Engine coolant temperature gauge / LED function/warning indicators and au alarm / Transmission gear selection / Tachometer / Battery voltage / Hour me Odometer / Fuel consumption / Tip cou Trip timer / Trip distance / Metric/English Service codes/diagnostics Backlit sealed switch module functions
Serpentine drive belt with automatic tensioner Provision for fast fill COOLING Crankshaft mounted electronically controlled viscous fan drive Fan guard PNEUMATIC SYSTEM Engine-mounted compressor Air drier with heater Integral unloader valve ELECTRICAL SYSTEM Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	Speedometer / Fuel gauge / Transmission oil temperature gauge / Engine coolant temperature gauge / LED function/warning indicators and au alarm / Transmission gear selection / Tachometer / Battery voltage / Hour me Odometer / Fuel consumption / Tip cou Trip timer / Trip distance / Metric/English Service codes/diagnostics Backlit sealed switch module functions
Serpentine drive belt with automatic tensioner Provision for fast fill COOLING Crankshaft mounted electronically controlled viscous fan drive Fan guard PNEUMATIC SYSTEM Engine-mounted compressor Air drier with heater Integral unloader valve ELECTRICAL SYSTEM Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	Transmission oil temperature gauge / Engine coolant temperature gauge / LED function/warning indicators and au alarm / Transmission gear selection / Tachometer / Battery voltage / Hour me Odometer / Fuel consumption / Tip cou Trip timer / Trip distance / Metric/English Service codes/diagnostics Backlit sealed switch module functions
Crankshaft mounted electronically controlled viscous fan drive Fan guard PNEUMATIC SYSTEM Engine-mounted compressor Air drier with heater Integral unloader valve ELECTRICAL SYSTEM Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	Transmission oil temperature gauge / Engine coolant temperature gauge / LED function/warning indicators and au alarm / Transmission gear selection / Tachometer / Battery voltage / Hour me Odometer / Fuel consumption / Tip cou Trip timer / Trip distance / Metric/English Service codes/diagnostics Backlit sealed switch module functions
Crankshaft mounted electronically controlled viscous fan drive Fan guard PNEUMATIC SYSTEM Engine-mounted compressor Air drier with heater Integral unloader valve ELECTRICAL SYSTEM Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	Engine coolant temperature gauge / LED function/warning indicators and au alarm / Transmission gear selection / Tachometer / Battery voltage / Hour me Odometer / Fuel consumption / Tip cou Trip timer / Trip distance / Metric/English Service codes/diagnostics Backlit sealed switch module functions
Crankshaft mounted electronically controlled viscous fan drive Fan guard PNEUMATIC SYSTEM Engine-mounted compressor Air drier with heater Integral unloader valve ELECTRICAL SYSTEM Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	LED function/warning indicators and au alarm / Transmission gear selection / Tachometer / Battery voltage / Hour me Odometer / Fuel consumption / Tip cou Trip timer / Trip distance / Metric/English Service codes/diagnostics Backlit sealed switch module functions
PNEUMATIC SYSTEM Engine-mounted compressor Air drier with heater Integral unloader valve ELECTRICAL SYSTEM Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	alarm / Transmission gear selection / Tachometer / Battery voltage / Hour me Odometer / Fuel consumption / Tip cou Trip timer / Trip distance / Metric/English Service codes/diagnostics Backlit sealed switch module functions
PNEUMATIC SYSTEM Engine-mounted compressor Air drier with heater Integral unloader valve ELECTRICAL SYSTEM Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	Tachometer / Battery voltage / Hour me Odometer / Fuel consumption / Tip cou Trip timer / Trip distance / Metric/English Service codes/diagnostics Backlit sealed switch module functions
PNEUMATIC SYSTEM Engine-mounted compressor Air drier with heater Integral unloader valve ELECTRICAL SYSTEM Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	Odometer / Fuel consumption / Tip cou Trip timer / Trip distance / Metric/English Service codes/diagnostics Backlit sealed switch module functions
PNEUMATIC SYSTEM Engine-mounted compressor Air drier with heater Integral unloader valve ELECTRICAL SYSTEM Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	Trip timer / Trip distance / Metric/English Service codes/diagnostics Backlit sealed switch module functions
Engine-mounted compressor Air drier with heater Integral unloader valve ELECTRICAL SYSTEM Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	Service codes/diagnostics Backlit sealed switch module functions
Engine-mounted compressor Air drier with heater Integral unloader valve ELECTRICAL SYSTEM Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	Backlit sealed switch module functions
Air drier with heater Integral unloader valve ELECTRICAL SYSTEM Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	
ELECTRICAL SYSTEM Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	wipor control/ Lights / Heated Hillions /
ELECTRICAL SYSTEM Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	Retarding aggressiveness / Transfer cas
Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	differential lock / Transmission gear hold
Battery disconnect Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	Dump-body tip limit / Automatic dump-
Drive lights Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	tip settings / Air conditioner/ Heater cor
Air Horn Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	
Reverse alarm Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	Preselected Speed Control
Rotating Beacon Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	DUMP BODY
Pitch Roll Sensor Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	
Artic reverse light STEERING SYSTEM Bi-directional ground-driven secondary steering	Dump body mechanical locks (x2). Particular locks (x2).
STEERING SYSTEM Bi-directional ground-driven secondary steering	and fully up
Bi-directional ground-driven secondary steering	▲ Body liner
Bi-directional ground-driven secondary steering	▲ Tailgate
	▲ Body heater
oump	▲ Less dump body and cylinders
	OTHER
CAB	Automatic Traction Control (ATC)
ROPS/FOPS certification	● Wet disc brakes B30E
Tilt cab	Dry disc brakes B25E
Gas strut-supported door	23.5R25 Radial Earthmover tires
I-Tip programmable dump-body tip settings	↑ 750/65R25 Radial Earthmover tires
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
	△ △ Comfort ride suspension (Front)
Tilt and telescoping steering wheel	
Center-mount air-suspension seat Forward work lights	Comfort ride suspension (Rear)
9	Reverse camera
LED work lights	Hand rails
Rotating beacon: seat belt installation	Cab peak
Remote engine and machine isolation	High pressure hydraulic filter
Remote battery jump start	Fuel heater
Retractable 3 point seat belt	Belly cover
Heated seat	● ● Cross member cover
Foldaway trainer seat with retractable seat belt 12-volt power outlet	Remote transmission filters

Notes





All dimensions are shown in millimeters, 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. Blu@dvantageTM is a trademark of Bell Equipment Co. (PTY) Ltd AdBlue® is a registered trademark of VDA

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