

### B25D | B30D | B35D | B40D | B45D | B50D





## Get more from your truck

### If you're looking to deliver more to your bottom line, choose Bell Articulated Dump Trucks.

These D-series ADTs handle heaped payloads with faster cycle times and best-in-class fuel efficiency - so you'll move more material at lower cost. They're highly reliable, too, with high-strength, welded-alloy steel chassis and components that are durable and optimised for no unnecessary weight. And with their oscillating frame joint, articulated steering, and high-floatation tyres, these hard working haulers won't let wet weather or steep grades dampen your plans.

• Extensive use of high-strength, lightweight materials gives 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.

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 Stage 3b emission certified engines deliver clean power without compromise in all conditions. Leading-edge emissions technology ensures rapid engine response and dependable cold-start performance.



Specifications	B25D	B30D	B35D	B40D	B45D	B50D	
Gross power	210 kW	240 kW	295 kW	335 kW	375 kW	375 kW	
	282 hp	322 hp	402 hp	450 hp	503 hp	503 hp	
Operating mass							
Empty	18 400 kg	18 690 kg	28 230 kg	29 850 kg	32 980 kg	34 520 kg	
Loaded	41 600 kg	45 990 kg	60 730 kg	66 851 kg	73 980 kg	79 920 kg	
2:1 heaped capacity	14 m <sup>3</sup>	17 m <sup>3</sup>	20.5 m <sup>3</sup>	23 m <sup>3</sup>	25.5 m <sup>3</sup>	28 m <sup>3</sup>	
Rated payload	23 200 kg	27 300 kg	32 500 kg	37 000 kg	41 000 kg	45 400 kg	



Add enhancements such as a Stage 3b emission-certified engine, solid state electrical system and spacious, redesigned cab with refined controls, and you have everything you need to maximise uptime and productivity. Limited-slip differentials (B25D to B30D), controlled traction differentials (B35D to B50D) and transfer case diff-lock provide a traction boost 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 the machine - decreasing your cost per tonne.

The 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 unit injection and common-rail fuel systems provide high injection pressures even at low engine speed for improved cold-starting ability, low-speed response, and reduced emissions.

High-travel suspension keeps all tyres in constant ground contact for optimum traction.

The short front end provides an industry-best approach angle that allows these ADTs to attack steep terrain.







- Transfer case inter-axle differential delivers equal torque to each axle when traction is favourable. When conditions get ugly, engage the difflock on the go to deliver torque to the tyres that can best use it.
- 2. The central oscillation joint, high suspension travel on all axles, and balanced weight distribution provide the agility and ability to navigate hostile terrain.
- Front-suspension damping helps minimize vibration, while the centremounted seat reduces the roll often experienced in off-road conditions

   for comfortable productivity.
- 4. Available tailgate helps retain more material for bigger loads. It automatically opens as dump body is raised.





## Haul of Fame



**Bell ADTs give you the competitive edge.** Boasting faster haul cycles and industryleading fuel economy, they move material at the lowest cost per tonne of any comparable-size truck. Best in-class payload-to-mass ratio gives you more power and agility to carry the load, for maximum productivity and profitability. What really sets these apart from other material movers is their ability to thrive on rough terrain, steep grades and mud. Try one to appreciate the difference.

## Bringing you tomorr technology today

Bell Equipment has implemented on SCR system to meet stage 3b emissions standards. Called Bell Blu@dvantage<sup>™</sup>, it is an SCR package designed specially for the off-highway market.

With SCR technology customers are able to reduce harmful Nitrogen Oxides while being able to save on fuel. So Blu@dvantage<sup>™</sup> is not just healthy for the environment; it's healthy for your wallet too.

### **'OWS**





### Blu@dvantage<sup>™</sup>

#### And with world leading benefits

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

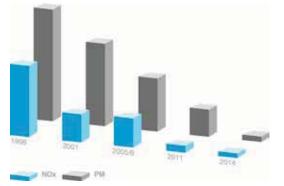
A combination of an optimally tuned engine and weight optimised complete machine package ensure that Bell ADT's have a minimal carbon footprint

AdBlue<sup>®</sup> is non-toxic, odourless and simple to refill

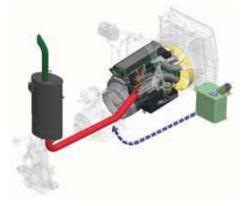
AdBlue<sup>®</sup> is injected into the flow of the exhaust gases and reacts with the NOx gases in the catalytic convertor to form harmless Nitrogen and water

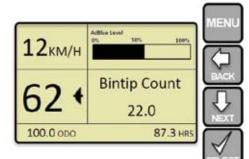
Field tests on the new Blu@dvantage<sup>™</sup> system show up to 15% saving in fuel over the previous Bell ADT's.

AdBlue<sup>®</sup> usage is approximately 3-5% of your fuel usage.









## **Built for comfort**

What operator wouldn't want to climb behind the wheel of a Bell ADT? It's spacious, quiet, climate-controlled cab is loaded with productivity-boosting comfort and convenience features that rival some SUVs.

From the state-of-the-art multifunction monitor and fully customisable controls to airsuspension seat, tilt/telescoping steering wheel and optional CD player with high-output speakers, the D-series provides everything your operators need to perform at their best. Unparalleled comfort.

### Our innovative Comfort Ride system...

...is available as an option on the B35, B40, B45 and B50 trucks to even further enhance ride comfort by ensuring minimal whole body vibration exposure. Productivity increases, through increased 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.



• Who says you can't take it with you? There's a place for a coffee cup, in-door storage for an insulated flask or other carry-ons, and even a hot/cold box for refreshments.

• An intuitive monitor reveals vital operating information, detailed diagnostic readings of most sensors and switches and dump body function settings.

• Convenient sealed switch pad provides fingertip control of numerous productivity enhancing functions including: **Dump body upper limit. Soft stop / hard stop selection, I-Tip 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.

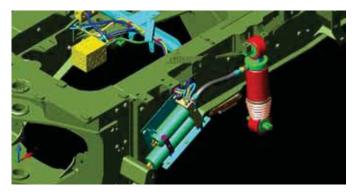
A fully adjustable air-suspension seat is optimally positioned behind the front axle to help smooth out the ride when the going gets rough.

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

A heavy-duty bi-level climate-control system with automotive-style louvres keeps the glass clear and cab comfortable.

The spacious centre-mount seat and a comprehensive mirror package provide exceptional all-around 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.



The front suspension consists of independent suspension cylinders that allow the oil flow and pressure to be constantly changed to minimise the effects of machine movement. Sensors in the frame continually measure and accommodate for bumps in the surface while lateral sensors also measure any roll and constantly adjust cylinders to accommodate for this.



The incorporation of the dual stage sandwich block allows for differing suspension characteristics between laden and unladen runs. The simple mechanical solution has proved durable while being extremely effective in smoothing out the ride.

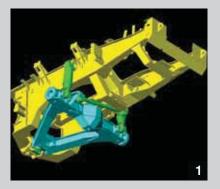
Automatic transmission retardation provides superior braking power and reduces service brake wear.

Hydraulically actuated dry-disc brakes deliver consistent "on-themark" braking, even in cold weather. Simplified design makes them easy to maintain.

Oil-immersed wet-disc brakes on the B50D, B45D and B40D (optional on B35D and B30D) are virtually maintenance-free.

B50D, B45D and B40D hydraulic, transmission, and transfer case oil coolers employ a hydraulically driven fan that runs only as needed, helping conserve power and fuel.

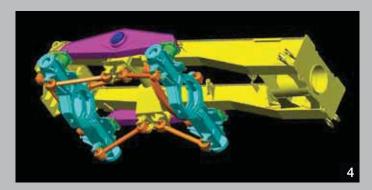
Efficient viscous direct-drive fans in all Bell trucks provide engine and charge-air cooling.











## Nothing's built as strong as a Bell

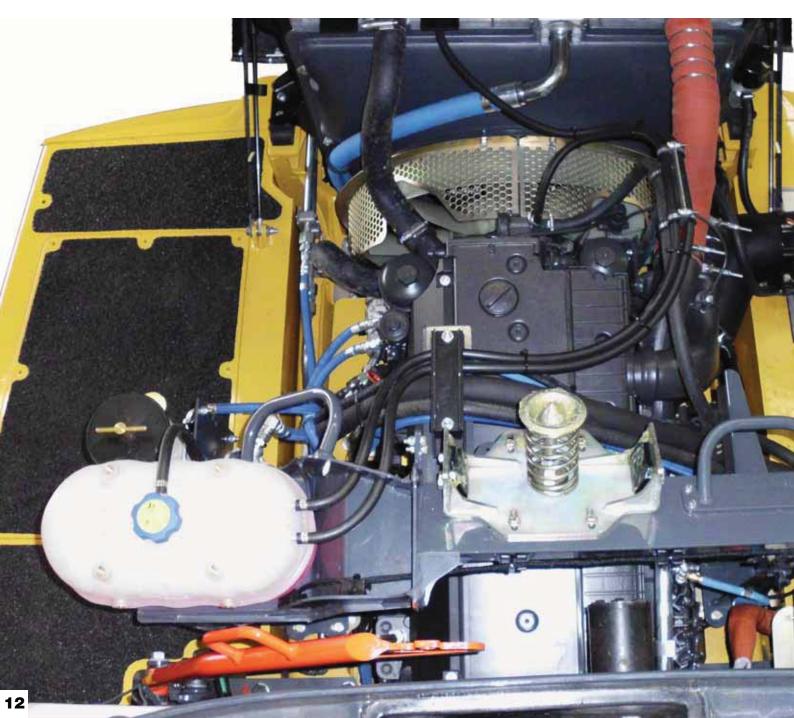
Built smarter to work harder, these lean machines boast the material-moving muscle you need without the mass to feed.

Their lower mass reduces powertain and structural stress. Other uptime-boosting features include enhanced diagnostics, solid-state sealed switches and re-inforced articulation joints to list but a few. When you know how they're built, you'll run a Bell.

- 1. The high-strength steel chassis delivers strength and rigidity without excess weight.
- 2. Planetary powershift transmission controls optimise shift points and protect the transmission from operator error and abuse. Thicker clutch plates, generous lubrication flow, and heavy-duty cooling ensure long life.
- 3. High-strength steel and widely spaced taper roller bearings in the articulation area enhance long-term durability.
- 4. Rough terrain demands tough suspensions such as the kind on a Bell ADT. Heavy-duty components absorb shocks and come back for more. You get best-in-class ground clearance, too.

## Here's the lowdowr daily operating cost

You won't have to dig deep to uncover the many ways we've simplified service and made the D-series less expensive to maintain. Easy-to-reach dipsticks, see-through reservoirs, sight guages and grouped service points make quick work of the daily routine. High-hour oil and filter change intervals reduce costs and planned downtime. Quick-change filters and extended engine and hydraulic oil-service intervals reduce costs and provide more uptime. Plus, an advanced diagnostic monitor and diagnostic test ports help you troubleshoot problems and make informed maintenance decisions.



The engine dipstick and oil fill, oil and fuel filters and coolant reservoir are readily accessible.

- Available environmental drains allow quick, nospill changes.
- Engine, transmission and hydraulic oil-change intervals of 500 hrs and 2 000 hrs add up to more uptime and less expense.
- The load-sensing hydraulic system was designed with simplicity in mind. Fewer components result in greater reliability and service ease.
- 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.

13

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

- 2. If something goes wrong, the diagnostic monitor provides service codes and supporting info to help you quickly pinpoint the problem.
- 3. Easily accessible test ports allow technicians to troubleshoot problems more quickly.

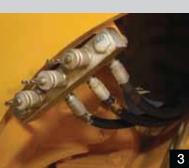
4. An in-cab load centre simplifies fuse replacement. Fewer relays, connectors and harnesses mean higher reliability.

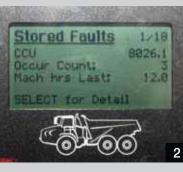
5. See-through fluid reservoirs (B25D and B30D) and sight gauges let you check fluid levels at a glance.

6. The centralised lube bank places difficult-to-reach nipples within reach. The convenient lube chart helps ensure that nothing gets overlooked.















## Safety is our Busine

By listening to our customers and reacting quicker to a changing workplace we provide a vehicle that exceeds application safety standards.

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

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.





## ess too

• The incorporation of a Pitch and Roll sensor in the vehicle allows the bin to not be operated if the truck is in an unsafe position.

• Keyless start, driver identity, and access codes ensures no unauthorized operation of your equipment.

• Our quiet operator cabins are ROPS/FOPS certified with air suspension operator seat. Both operator and trainer seat have retractable lap belts with automatically locking retractors.

• Reverse cameras are available for factory or on site fitment ensuring full view when reversing.

• Full hand-rails (to ISO 2876) can be installed to provide even more safety when performing engine checks.

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

• Optional Tyre pressure monitoring System ensures that the operator has real time information on all tyres pressure and temperature conditions.

The 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.

















### Where ever ou are... Y हिन्दी हिन्दी North America तन्मप िनग ſ:Ţ⋥**Ŭ**Ţ िनिपि ╽╝╡ᡌᡗ **FFF** BIG िनग िनग िनप <u>ן:</u>}⊒₽₽ Southern Africa

## ...we got you cove

Through our own Network as well as approved dealers and strategic alliances we can 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 aftersales experience.

South African Manufacturing Facility









**Used** - Through the Bell Equipment used network, global opportunities can be explored to ensure best residual value when upgrading your trucks. Used units include full condition assessments guaranteeing peace of mind as well as different options to meet your criteria and budget.

**Finance** - Finance options can be tailored to your business needs through strong partnerships in all regions. Professional interaction and industry know how ensures fast and easy access to packages that meet your business profile - helping you win.

**Parts** - We believe there is more to Bell Equipment Company than simply our machines. We have an international network of dealers and subsidiaries stocking genuine Bell Parts you would expect available immediately. We pride ourselves that all care is taken to ensure the quality of replacement Bell Parts we stock meets the same stringent quality requirements as the parts we use in building our machines.

**Technical Support -** Bell Customer Support centres are located in key positions throughout all territories in which we operate to ensure that Bell Equipment is able to effectively support its products worldwide through parts

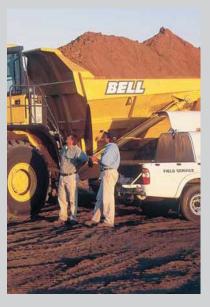
availability and technical backup. As the worlds one stop shop, Bell Equipment also provides factory direct support for a full line of solid equipment 24 hours a day 365 days a year through Bell Technical Support. Such support includes Factory Technical Analysts, International Product Support, Training and complete literature.

**Fleetm@tic** - Fleet management just got smarter. In its quest to provide lowest cost per tonne solutions to its customers and push the boundaries of earthmoving technology, Bell Equipment has developed Fleetm@tic, its own remote satellite fleet management tool.















### German Manufacturing Facility



## Fleet management got smarter

global positioning satellite

Bell Fleetm@tic is an essential tool in running your business whether used for optimising your production, controlling your fleet or detecting any

**losses.**The cutting edge Fleetm@tic technology keeps Bell owners in touch with their equipment all the time. It provides accurate up-to-date operational data, production data, fault data as well as machine location and movements, in a cost effective and effortless manner.



### **Packages:**

Fleetm@tic Lite gives a daily report. This data includes fuel burn, location and machine hours;



in effect, information from the previous day. Reports are available in a downloadable daily, weekly and monthly format. All Mk VI ADT's are equipped with our LITE Package at no extra cost.

### Fleetm@tic Std

has all the features of Lite, and in addition packaged production data is sent every shift.

Reports can be split by up to three different shifts. Ten event messages per day are also included in the reports. Events can also be set up for immediate reporting via a predetermined cell phone number.



Fleetm@tic Max has all the features of Lite and Std, but offers virtually real-time monitoring. Packaged data is sent at



ignition on and off, and at loading and tipping. Individual load cycle reports are also available. For instance it is possible to see the machine's location within the last several minutes, or fuel consumption and tonnage for the last haul cycle for virtual real-time control.

# USt

communications

satellite

Easily Locate and track your machine on an interactive web based map, which allows you to zoom into your worksite to within several meters. Cutting edge Iridium technology ensures global coverage and unsurpassed reliability. Geofence boundaries can easily be set up with notification to both operator and owner when these boundaries have been crossed.

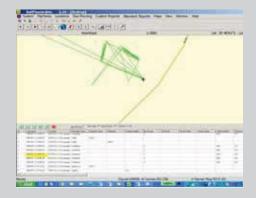
Receive on-line or email reports that cover each machine in your fleet. Reports cover everything you need to manage your site effectively. A Spreadsheet format can also be simply downloaded which will allow you to manipulate the data to meet your current reporting structure.

Historic playback allows you to check on which stockpiles are being worked on to ensure optimal efficiency. Data can be used to reconstruct events, giving you all the information to take any corrective action. Time bar reporting is also beneficial to those machines out on rent.

Solid state, sealed componentry ensures maximum reliability in even the harshest environments.









#### Fleetm@tic Max Plus has all the features of Lite, Std and

service provider base station



dition has individualised tipping reports with coordinates for each loading and tipping.

- Information below is included in the basic data download.
- Date
- Odometer (km)
- Hours
- Tonnes moved
- Loads
- Distance
- Fuel level (litres)
- Fault codes
- Fuel burn (l/hr)
- Idle time laden (%)
- Idle time un-laden (%)

- Overload (%)
- Speed (km/h)
- Over rev count
- Brake usage (%)
- Events
- Cycle Times

### **Specifications**

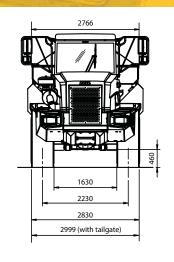
	B25D	B30D				
ENGINE Gross power Net Power Torque Displacement Fuel tank capacity Auxilliary Brake AdBlue Tank Capacity Certification	Mercedes Benz inline 6 cylinder, turbocharged, intercooled, low emission diesel engine 210 kW (282 hp) @ 2,200 rpm 203 kW (272 hp) @ 2,200 rpm 1,120 Nm (826 lbft) @ 1,200 -1,600 rpm 7.2 litres (439 cu.in) 310 I (85 US gal) Exhaust brake Engine Valve Brake (EVB) 31 I (8.2 US gal) OM 926 LA meets Europe (EU) stage 3b emissions regulations	Mercedes Benz inline 6 cylinder, turbocharged, intercooled, low emission diesel engine 240 kW (322 hp) @ 2,200 -1,600 rpm 232 kW (311 hp) @ 2,200 -1,600 rpm 1,250 Nm (922 lbft) @ 1,200 - 1,600 rpm 7,2 litres (439 cu.in) 310 l (85 US gal) Exhaust brake Engine Valve Brake (EVB) 31 l (8.2 US gal) OM 926 LA meets Europe (EU) stage 3b emissions regulations				
TRANSMISSION Layout Gear Layout Gears Clutch type Control type Torque Converter	Fully automatic ZF planetary transmission Engine mounted Constant meshing planetary gears, clutch operated 6 Forward, 1 Reverse Hydraulically operated multi-disc Electronic Hydrodynamic with lock-up in all gears	Fully automatic ZF planetary transmission Engine mounted Constant meshing planetary gears, clutch operated 6 Forward, 1 Reverse Hydraulically operated multi-disc Electronic Hydrodynamic with lock-up in all gears				
TRANSFER BOX Manufacturer Model Layout Output Differential	Remote mounted Bell 13100 Three in-line helical gears. 67/33 torque proportioning, Pneumatically lockable on the move.	Remote mounted Bell 13100 Three in-line helical gears. 67/33 torque proportioning, Pneumatically lockable on the move.				
AXLES Model	High strength steel fabricated with spiral bevel type gears on the limited slip locking differential and heavy duty outboard planetary gears. Bell 15T	High strength steel fabricated with spiral bevel type gears on the limited slip locking differential and heavy duty outboard planetary gears. Bell 18T				
BRAKING SYSTEM SERVICE BRAKE Maximum brake force PARK & EMERGENCY Maximum brake force AUXILIARY BRAKE Maximum retardation	Dual circuit, full hydraulic actuation caliper brakes on all wheels 164 kN (36,900 lbf) Spring applied, air released driveline mounted disc. 396 kN (89,000 lbf) Automatic exhaust brake and Engine Valve Brake (EVB) Variable Adjustable Hydraulic retarder in transmission 442 kW (593 hp)	Dual circuit, full hydraulic actuation caliper brakes on all wheels or wet disc brakes option 164 kN (36,900 lbf) Spring applied, air released driveline mounted disc. 396 kN (89,000 lbf) Automatic exhaust brake and Engine Valve Brake (EVB) Variable Adjustable Hydraulic retarder in transmission 442 kW (593 hp)				
WHEELS Tyre	Earthmover 23.5R25	Earthmover 23.5R25 or 750/65R25				
FRONT SUSPENSION	Semi-independent, quad rubber mounted leading arm linkages supported by nitrogen and oil filled struts.	Semi-independent, quad rubber mounted leading arm linkages supported by nitrogen and oil filled struts.				
REAR SUSPENSION	Pivoting walking beams, distributing equal load through laminated rubber suspension blocks. Each axle is coupled to the chassis by four rubber-bushed links for ideal vertical movement.	Pivoting walking beams, distributing equal load through laminated rubber suspension blocks. Each axle is coupled to the chassis by four rubber-bushed links for ideal vertical movement.				
HYDRAULIC SYSTEM Flow Pressure Filter	Variable displacement with load sensing system incorporating a ground driven emergency steer- ing pump. 184 I/min (48.6 gal/min) 25 Mpa (3,915 psi) 5 microns	Variable displacement with load sensing system incorporating a ground driven emergency steer- ing pump. 184 l/min (48.6 gal/min) 25 Mpa (3,915 psi) 5 microns				

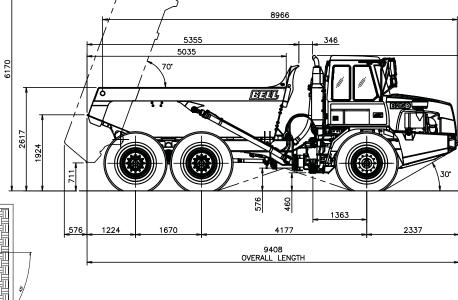
### B25D

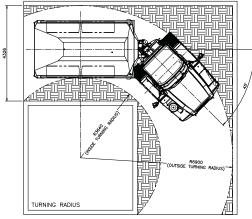
**B30D** 

	B25D	B30D						
STEERING SYSTEM Lock to lock turns Steering Angle	Hydrostatically actuated, low effort, fast acting. Two double-acting steering cylinders 4.1 45°	Hydrostatically actuated, low effort, fast acting. Two double-acting steering cylinders 4.1 45°						
<b>DUMPING SYSTEM</b> Raise Time Lowering Time Tipping Angle	Two double-acting, single stage, dump cylinders 12 s 6 s 70°	Two double-acting, single stage, dump cylinders 12 s 6 s 70°						
PNEUMATIC SYSTEM System Pressure	Air drier with heater and integral unloader valve, serving park brake and auxilliary functions 810 kPa (117 psi)	Air drier with heater and integral unloader valve, serving park brake and auxilliary functions 810 kPa (123 psi)						
<b>ELECTRICAL SYSTEM</b> Voltage Battery Type Battery Capacity Alternator Rating	24 V Two maintenance free permanently sealed 2 X 105 Ah 28 V 80 A	24 V Two maintenance free permanently sealed 2 X 105 Ah 28 V 80 A						
VEHICLE SPEEDS	1st         2nd         3rd         4th         5th         6th         R           8         13         22         31         44         53         8         km/h           5         8         14         19         28         33         5         mph	1st         2nd         3rd         4th         5th         6th         R           8         13         22         31         44         53         8         km/h           5         8         14         19         28         33         5         mph						
<b>OPERATING MASSES</b> Front Middle Rear Total	UNLADENLADEN9,620 kg12,860 kg4,420 kg14,400 kg4,360 kg14,340 kg18,400 kg41,600 kg	UNLADENLADEN9,710 kg13,350 kg4,490 kg16,320 kg4,490 kg16,320 kg18,690 kg45,990 kg						
GROUND PRESSURE 23.5R25 Front Middle Rear 750/65 Front Middle	LADEN LADEN (No sinkage) (With sinkage) 246 kPa 133 kPa 287 kPa 146 kPa 287 kPa 146 kPa	LADEN LADEN (No sinkage) (With sinkage) 265 kPa 138 kPa 330 kPa 165 kPa 330 kPa 165 kPa LADEN LADEN (No sinkage) (With sinkage) 234 kPa 115 kPa 277 kPa 137 kPa						
Rear LOAD CAPACITY Struck Capacity SAE 2:1 Capacity SAE 1:1 Capacity SAE 2:1 Capacity with Autogate Rated Payload	11 m <sup>3</sup> (14,4 cu.yd) 14 m <sup>3</sup> (18,3 cu.yd) 18 m <sup>3</sup> (23,5 cu.yd) 14,5 m <sup>3</sup> (19 cu.yd) 23 200 kg (51,147 lbs)	277 kPa 137 kPa 13 m <sup>3</sup> (17 cu.yd) 17 m <sup>3</sup> (22,2 cu.yd) 20,5 m <sup>3</sup> (26,8 cu.yd) 17,5 m <sup>3</sup> (22,9 cu.yd) 27 300 kg (60,186 lbs)						
CAB	ROPS/FOPS certified 71 dBA internal sound level measured according to ISO 6396	ROPS/FOPS certified 71 dBA internal sound level measured according to ISO 6396						



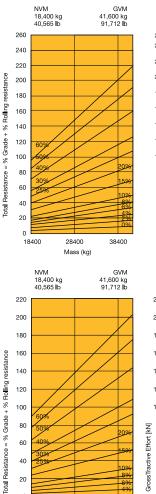






#### GRADEABILITY

- 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.



140

120

100

80 60

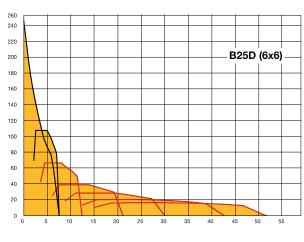
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20 0

18400

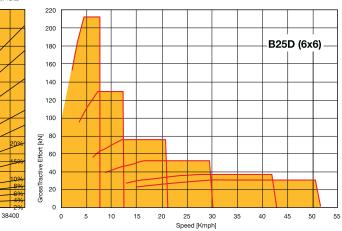
28400

Mass (kg)



3425

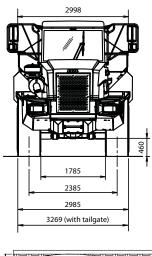
205



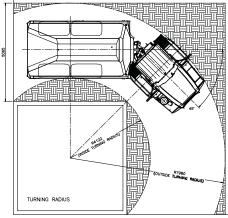
#### RETARDATION

- Determine retardation force required by 1. 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.

**B30D** 



6237

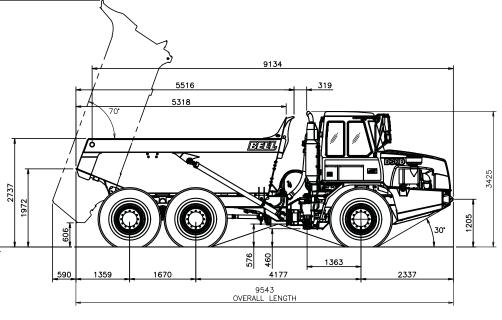


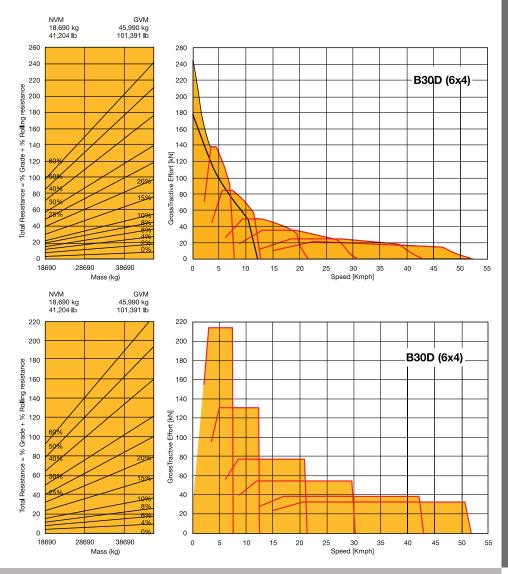
#### GRADEABILITY

- 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.
- 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.





### **Specifications**

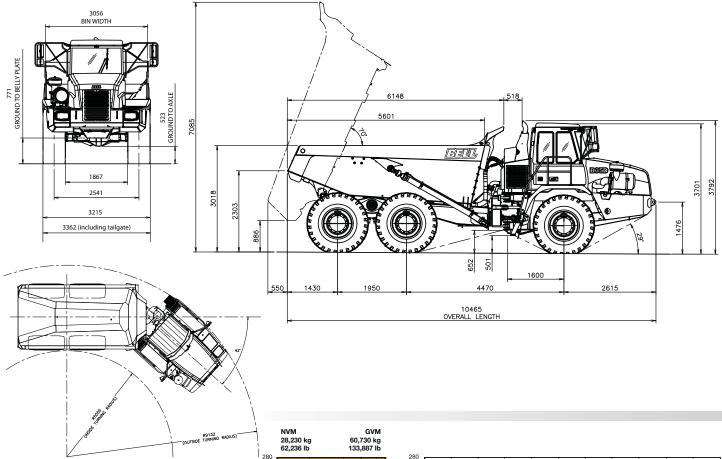
	B35D	B40D			
ENGINE Gross power Net Power Torque Displacement Fuel tank capacity Auxilliary Brake AdBlue Tank Capacity Certification	Mercedes Benz V6, turbocharged, intercooled, low emission diesel engine 295 kW (402 hp) @ 1,800 rpm 288 kW (390 hp) @ 1,800 rpm 2,000 Nm (1,475 lbft) @ 1,300 rpm 11,95 litres (730 cu.in) 445 litres (118 US gal) Automatic exhaust brake Engine Valve Brake (EVB) 40 I (11 US gal) OM 501 LA meets Europe (EU) stage 3b emissions regulations	Mercedes Benz V6, turbocharged, intercooled, low emission diesel engine 335 kW (429 hp) @ 1,800 rpm 325 kW (416 hp) @ 1,800 rpm 2,100 Nm (1,549 lbft) @ 2,200 rpm 11,95 litres (730 cu.in) 445 litres (118 US gal) Automatic exhaust brake Engine Valve Brake (EVB) 40 I (11 US gal) OM 501 LA meets Europe (EU) stage 3b emissions regulations			
TRANSMISSION Layout Gear Layout Gears Clutch type Control type Torque Converter	Fully automatic Allison planetary transmission Engine mounted Constant meshing planetary gears, clutch operated 6 Forward, 1 Reverse Hydraulically operated multi-disc Electronic Hydrodynamic with lock-up in all gears	Fully automatic Allison planetary transmission Engine mounted Constant meshing planetary gears, clutch operated 6 Forward, 1 Reverse Hydraulically operated multi-disc Electronic Hydrodynamic with lock-up in all gears			
TRANSFER BOX Manufacturer Model Layout Output Differential	Remote mounted Bell 17100 Three in-line helical gears. Interaxle 33/67 proportional differential, Pneumatically lockable on the move.	Remote mounted Bell 17100 Three in-line helical gears. Interaxle 33/67 proportional differential, Pneumatically lockable on the move.			
<b>AXLES</b> Model	High strength steel fabricated with spiral bevel type gears on the Controlled Traction differential and heavy duty outboard planetary gears. Bell 25T	High strength steel fabricated with spiral bevel type gears on the Controlled Traction differential and heavy duty outboard planetary gears. Bell 25T			
BRAKING SYSTEM SERVICE BRAKE Maximum brake force PARK & EMERGENCY Maximum brake force	Dual circuit, full hydraulic actuation wet disc brakes on front and middle axles. 193 kN (43,388 lbf) Spring applied, air released driveline mounted disc. 440 kN (98,920 lbf)	Dual circuit, full hydraulic actuation wet disc brakes on front and middle axles. 218 kN (49,010 lbf) Spring applied, air released driveline mounted disc. 440 kN (98,920 lbf)			
AUXILIARY BRAKE Maximum Retardation	Automatic exhaust brake Engine Valve Brake (EVB) Variable Adjustable Hydraulic retarder 575 kW (771 hp)	Automatic exhaust brake Engine Valve Brake (EVB) Variable Adjustable Hydraulic retarder 575 kW (771hp)			
WHEELS Tyre	Earthmover 26.5R25	Earthmover 29.5R25			
FRONT SUSPENSION	Semi-independent, leading A-frame supported by nitrogen/oil struts.	Semi-independent, leading A-frame supported by nitrogen/oil struts.			
REAR SUSPENSION	Pivoting walking beams equalise the load on each axle with laminated suspension blocks. Each axle is coupled to the chassis by a Tri-Link system of four rubber-bushed links for ideal vertical movement and a transverse link for lateral restraint.	Pivoting walking beams equalise the load on each axle with laminated suspension blocks. Each axle is coupled to the chassis by a Tri-Link system of four rubber-bushed links for ideal vertical movement and a transverse link for lateral restraint.			
HYDRAULIC SYSTEM Flow Pressure Filter	Variable displacement with load sensing system incorporating a ground driven emergency steering pump. 300 l/min (79,26 gal/min) 25 Mpa (3,626 psi) 5 microns	<ul> <li>Variable displacement with load sensing syste incorporating a ground driven emergency stering pump.</li> <li>300 l/min (79,26 gal/min)</li> <li>25 Mpa (3,626 psi)</li> <li>5 microns</li> </ul>			

### **B35D**

**B40D** 

	B35D	B40D					
STEERING SYSTEM Lock to lock turns Steering Angle	Hydrostatically actuated by two double acting cylinders, with ground-driven emergency steering pump. 4.7 42°	Hydrostatically actuated by two double acting cylinders, with ground-driven emergency steering pump. 4.7 42°					
<b>DUMPING SYSTEM</b> Raise Time Lowering Time Tipping Angle	Two double-acting, single stage, dump cylinders 13 s 7,6 s 70°	Two double-acting, single stage, dump cylinders 13 s 7,6 s 70°					
PNEUMATIC SYSTEM System Pressure	Air drier with heater and integral unloader valve, serving park brake and auxilliary functions 810 kPa (117 psi)	Air drier with heater and integral unloader valve, serving park brake and auxilliary functions 810 kPa (117 psi)					
<b>ELECTRICAL SYSTEM</b> Voltage Battery Type Battery Capacity Alternator Rating	24 V Two maintenance free permanently sealed 2 X 105 Ah 28 V 80 A	24 V Two maintenance free permanently sealed 2 X 105 Ah 28 V 80 A					
VEHICLE SPEEDS	1st         2nd         3rd         4th         5th         6th         R           8         17         24         37         48         54         6,3         km/h           5         10.6         15         23         30         33.8         3.9         mph	1st2nd3rd4th5th6thR817243748546,3km/h510.615233033.83.9mph					
<b>OPERATING MASSES</b> Front Middle Rear Total	UNLADEN         LADEN           14,120 kg (31,129 lbs)         18,350 kg (40,455 lbs)           7,060 kg (15,565 lbs)         21,195 kg (46,727 lbs)           7,050 kg (15,543 lbs)         21,185 kg (46,705 lbs)           28,230 kg (62,236 lbs)         60,730 kg (133,887 lbs)	UNLADEN         LADEN           14,650 kg (32,298 lbs)         19,587 kg (43,182 lbs)           7,810 kg (17,218 lbs)         23,842 kg (52,563 lbs)           7,390 kg (16,292 lbs)         23,422 kg (51,637 lbs)           29,850 kg (65,808 lbs)         66,851 kg (147,381 lbs)					
<b>GROUND PRESSURE</b> Front Middle Rear	LADEN LADEN (No sinkage) (With sinkage) 303 kPa 159 kPa 338 kPa 177 kPa 338 kPa 177 kPa	LADEN LADEN (No sinkage) (With sinkage) 254 kPa 144 kPa 316 kPa 168 kPa 314 kPa 168 kPa					
LOAD CAPACITY Struck Capacity SAE 2:1 Capacity SAE 1:1 Capacity SAE 2:1 Capacity with Autogate	16 m <sup>3</sup> (20.9 cu.yd) 20,5 m <sup>3</sup> (26.8 cu.yd) 24,5 m <sup>3</sup> (32 cu.yd) 21 m <sup>3</sup> (27.4 cu.yd)	18,5 m <sup>3</sup> (24.2 cu.yd) 23 m <sup>3</sup> (30 cu.yd) 27,5 m <sup>3</sup> (36 cu.yd) 24 m <sup>3</sup> (31.4 cu.yd)					
Rated Payload	32 500 kg (71.650 lbs)	37 000 kg (81.571 lbs)					
САВ	ROPS/FOPS certified 75 dBA internal sound level measured according to ISO 6396	ROPS/FOPS certified 75 dBA internal sound level measured according to ISO 6396					





260

240

220

180

160

140

120

100

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60

40

20

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180

160

140

120

100

80

60

40

20 ٥

28230

38230

48230

Mass (kg)

Total Resistance = % Grade + % Rolling resistance

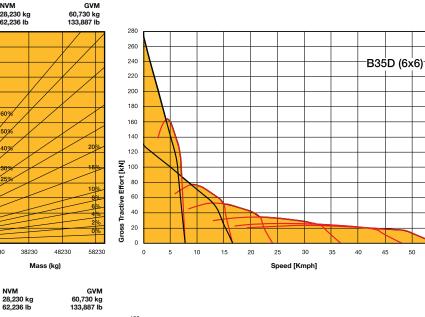
28230

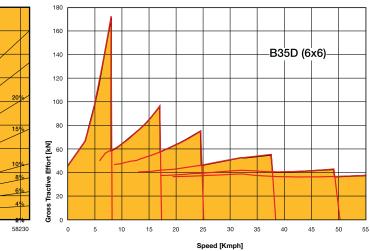
resistance 200

Total Resistance = % Grade + % Rolling

#### GRADEABILITY

- 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.





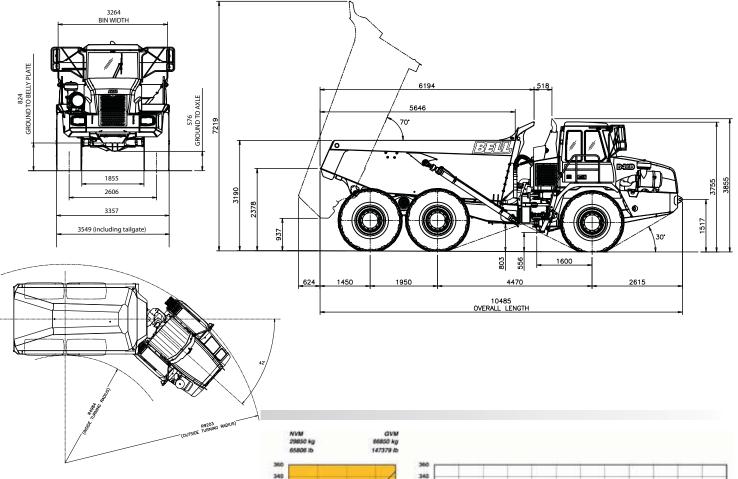
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### RETARDATION

- Determine retardation force required by 1. 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.





320

300

280

260

240

220

200

160

140

120

100

80

-

40

Total Resistance = % Grade = % Rolling

ance

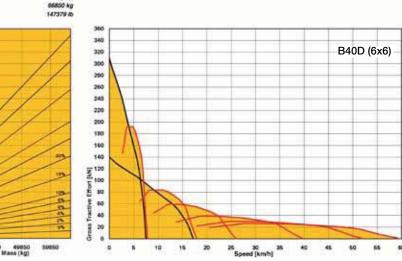
Secting.

A Grade

**Total Resistance** 

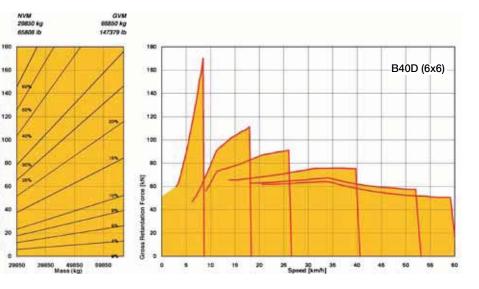
#### GRADEABILITY

- 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.
- 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.



### **Specifications**

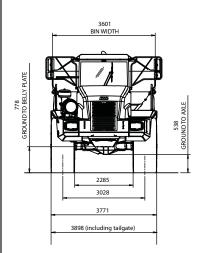
	B45D	B50D				
<b>ENGINE</b> Gross power Net power Torque Displacement AdBlue Tank Capacity Fuel tank capacity Certification	Mercedes Benz OM502LA, V-8 ,Turbocharged and intercooled 375 kW (503 hp) @ 1,800 rpm SAE J1349 364 kW (488 hp) @ 1,800 rpm 2,400 Nm (1,770 lbft) @ 1,200 rpm 15,93 litres (730 cu.in) 66 I (17.4 US gal) 575 litres (152 US gal) OM 502 LA meets Europe (EU) stage 3b emissions regulations	Mercedes Benz OM502LA, V-8 ,Turbocharged and intercooled 375 kW (503 hp) @ 1,800 rpm SAE J1349 364 kW (488 hp) @ 1,800 rpm 2,400 Nm (1,770 lbft) @ 1,200 rpm 15,93 litres (730 cu.in) 66 I (17.4 US gal) 575 litres (152 US gal) OM 502 LA meets Europe (EU) stage 3b emissions regulations				
TRANSMISSION Layout Gear layout Gears Clutch type Control type Torque converter layout	Full automatic planetary transmission with integral retarder Engine mounted Constant meshing planetary gears, clutch operated 6 Forward, 1 Reverse Hydraulically operated multi-disc Electronic Hydrodynamic, with lockup in all gears	Full automatic planetary transmission with integral retarder Engine mounted with rear output Constant meshing planetary gears, clutch operated 6 Forward, 1 Reverse Hydraulically operated multi-disc Electronic Hydrodynamic, with lockup in all gears				
TRANSFER BOX Manufacturer Model Layout Output differential	Bell 17100 Three in-line helical gears Interaxle 33/67 proportional differential, pneumati- cally/ spring lockable whilst stationary or on the move	Bell 17100 Three in-line helical gears Interaxle 33/67 proportional differential, pneumati- cally/ spring lockable whilst stationary or on the move				
AXLES Final drive type Housing type	High strength steel fabricated with spiral bevel type gears on the Controlled Traction differential and heavy duty outboard planetary gears Outboard heavy duty planetary on all axles Steel fabricated	High strength steel fabricated with spiral bevel type gears on the Controlled Traction differential and heavy duty outboard planetary gears Outboard heavy duty planetary on all axles Steel fabricated				
BRAKING SYSTEM SERVICE BRAKE Maximum brake force	Dual circuit, full hydraulic oil immersed wet multidisc brakes on all three axles 399 kN (89,699 lbf)	Dual circuit, full hydraulic oil immersed wet multidisc brakes on all three axles 399 kN (89,699 lbf)				
PARK & EMERGENCY Maximum brake force Maximum brake force	Spring applied, air released driveline mounted disc 440 kN (98,920 lbf)-Static 105 kN (23,605 lbf)-Dynamic	Spring applied, air released driveline mounted disc 440 kN (98,920 lbf)-Static 105 kN (23,605 lbf)-Dynamic				
AUXILIARY BRAKE	Automatic exhaust brake Engine Valve Brake (EVB)	Automatic exhaust brake Engine Valve Brake (EVB)				
RETARDATION SYSTEM ENGINE BRAKE Maximum retardation power TRANSMISSION RETARDER Total retardation power (excl. service brakes)	Automatic exhaust brake and Engine Valve Brake (EVB) 340 kW (456 hp) Integral hydrodynamic, output speed dependant, six selectable levels of retardation 550 kW (737 hp)	Automatic exhaust brake and Engine Valve Brake (EVB) 340 kW (456 hp) Integral hydrodynamic, output speed dependant, six selectable levels of retardation 550 kW (737 hp)				
WHEELS Tyre size Type	29.5R25 Radial Earthmover	875/65R29 Radial Earthmover				
FRONT SUSPENSION	Semi-independent leading A-frame supported by nitrogen/oil struts	Semi-independent leading A-frame supported by nitrogen/oil struts				
REAR SUSPENSION	Pivoting walking beams equalize the load on each axle with laminated suspension blocks. Each axle is coupled to the chassis by a Tri-Link system of three rubber-bushed links for ideal vertical move- ment and a transverse link for lateral restraint	Pivoting walking beams equalize the load on each axle with laminated suspension blocks. Each axle is coupled to the chassis by a Tri-Link system of three rubber-bushed links for ideal vertical move- ment and a transverse link for lateral restraint				

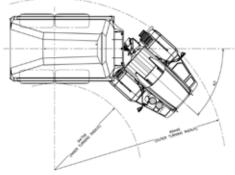
### **B50D**

	B45D	B50D					
HYDRAULIC SYSTEM Pump Type Application Flow Pressure Filter	Variable displacement with load sensing system serving the prioritized steering, body tipping, suspension and brake functions. A ground- driven, load sensing emergency steering pump is integrated into the main system Variable displacement, loadsensing piston Steering, tipping, hydraulic brake charging, sus- pension and cooling fan drive 350 l/min (92.5 US gal/min) 25 MPa (3,626 psi) 5 microns	Full load sensing system serving the prioritized steering, body tipping, suspension and brake functions. A ground-driven, load sensing emer- gency steering pump is integrated into the main system Variable displacement, loadsensing piston Steering, tipping, hydraulic brake charging, sus- pension and cooling fan drive 350 l/min (92.5 US gal/min) 25 MPa (3,626 psi) 5 microns					
STEERING SYSTEM Angle Lock to lock turns	Hydrostatically actuated by two double acting cylinders, with ground-driven emergency steering pump. 42° 4,2	Hydrostatically actuated by two double acting cylinders, with ground-driven emergency steering pump. 42° 4,2					
<b>DUMPING SYSTEM</b> Raise time Power down time Tipping angle	Two double-acting, single stage, dump cylinders 11.2 s (60° tip angle) 9.9 s (60° tip angle) 70° standard, or any lower angle programmable	Two double-acting, single stage, dump cylinders 11.2 s (60° tip angle) 9.9 s (60° tip angle) 70° standard, or any lower angle programmable					
PNEUMATIC SYSTEM System pressure	Air drier with heater and integral unloader valve, serving park brake and auxiliary functions 810 kPa (117 psi)	Air drier with heater and integral unloader valve, serving park brake and auxiliary functions 810 kPa (117 psi)					
<b>ELECTRICAL SYSTEM</b> Voltage Battery type Battery capacity Alternator rating	24 V Two maintenance free permanently sealed 2 x 105 Ah (optional 2 extra batteries) 28 V 80 A	24 V Two maintenance free permanently sealed 2 x 105 Ah (optional 2 extra batteries) 28 V 80 A					
VEHICLE SPEEDS	1st         2nd         3rd         4th         5th         6th         R           7         14         21         31         41         47         7         km/h           4         9         13         19         25         29         4         mph	1st         2nd         3rd         4th         5th         6th         R           7         14         21         31         41         47         7         km/h           4         9         13         19         25         29         4         mph					
<b>OPERATING MASSES</b> Front Middle Rear Total	UNLADEN         LADEN           17,230 kg (37,985 lbs)         21,190 kg (46,715 lbs)           7,890 kg (17,394 lbs)         26,410 kg (58,223 lbs)           7,860 kg (17,328 lbs)         26,380 kg (58,157 lbs)           32,980 kg (72,707 lbs)         73,980 kg (163,096 lbs)	UNLADEN         LADEN           17,550 kg (38,691 lbs)         23,440 kg (51,676 lbs)           8,500 kg (18,739 lbs)         28,225 kg (62,292 lbs)           8,470 kg (18,673 lbs)         28,255 kg (62,225 lbs)           34,520 kg (76,104 lbs)         79,920 kg (176,193 lbs)					
GROUND PRESSURE Front Middle Rear	LADEN LADEN (No sinkage) (With sinkage) 277 kPa 151 kPa 335 kPa 208 kPa 333 kPa 208 kPa	LADEN LADEN (No sinkage) (With sinkage) 274 kPa 145 kPa 335 kPa 178 kPa 335 kPa 178 kPa					
LOAD CAPACITY Struck Capacity SAE 2:1 Capacity SAE 1:1 Capacity SAE 2:1 Capacity with Autogate Rated Payload	20 m <sup>3</sup> (26.16 cu.yd) 25,5 m <sup>3</sup> (33.36 cu.yd) 31 m <sup>3</sup> (40.55 cu.yd) 26,5 m <sup>3</sup> (34.67 cu.yd) 41 000 kg (90.388 lbs)	22 m <sup>3</sup> (28.8 cu.yd) 28 m <sup>3</sup> (36.6 cu.yd) 34 m <sup>3</sup> (44.5 cu.yd) 29,5 m <sup>3</sup> (38.6 cu.yd) 45 400 kg (100.090 lbs)					
CAB	ROPS/FOPS certified 74 dBA internal sound level measured according to ISO 6396	ROPS/FOPS certified 74 dBA internal sound level measured according to ISO 6396					

**B45D** 







NVM

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340

320

300

220 102 200

-\* 180

120 **n**0/

0

32977

260

240

220

32977

NVM

32 977 kg

72 702 lb

Total 20 **60%** 

0%

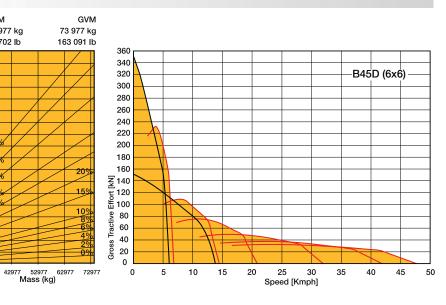
32 977 kg

72 702 lb

#### 626 395 5612 7338 POSITION) z GUMRD 4250(WITH ROCK 3200 2415 1517 20 213 1479 4470 1950 2915 10814 OVERALL LENGTH

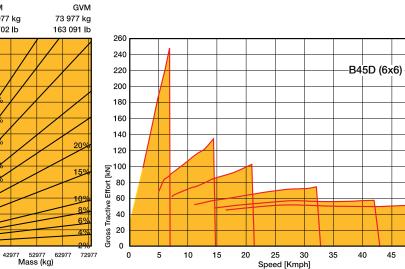
#### GRADEABILITY

- 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.





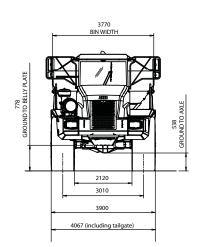
- Determine retardation force required by 1. finding intersection of vehicle mass line.
- 2. From this intersection, move straight left across charts until line intersects the curve. NOTE: 2% typical rolling resistance is already assumed in chart.
- 3. Read down from this point to determine maximum speed.

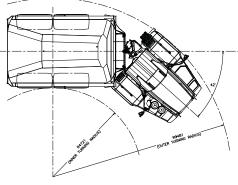


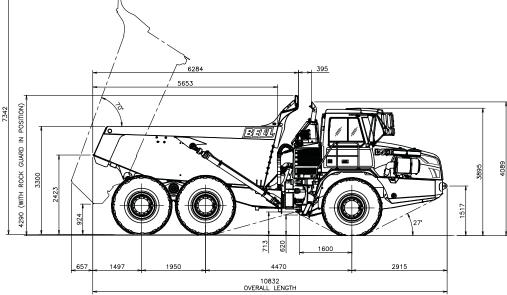
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#### GRADEABILITY

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.

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280

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200

180

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120

100

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60

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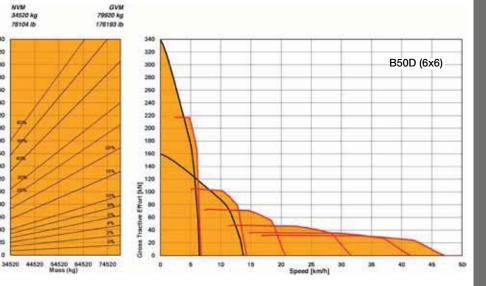
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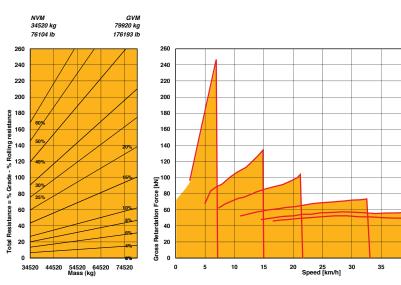
0

Total Resistance = % Grade + % Rotling

- 2. From this intersection, move straight left across charts until line intersects rimpull curve.
- Read down from this point to determine 3. maximum speed attained at that tractive resistance.

- RETARDATION Determine retardation force required by 1. 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.





B50D (6x6)

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### **Features and Options**

B300	Barr	(20)	BAS	Lingine	Bar		Bach		BAE	BSOL	
	•	$\bullet$	•	Wet-sleeve cylinder liners	•	•					Retractable sea
	•	$\bullet$	•	Engine valve brake and exhaust brake	•	•					Foldaway traine
	•	$\bullet$	•	Dual-element air cleaner with dust ejector valve	•	•		•			12-volt power o
	•	$\bullet$	•	Precleaner	•	•					Cup holder
	•	$\bullet$	•	Water separator	•	•					Cooled/heated
	•	$\bullet$	•	Provision for fast fill	•	•					Ashtray
	•	$\bullet$	•	Serpentine drive belt with automatic tensioner		•					Electric adjusta
					•	•		•			Deluxe monitor:
				Cooling							Analog speedor
	•	•	•	Crankshaft-mounted viscous-drive fan							Transmission oi
	•	•	•	Remote proportionally controlled hydraulic							Engine coolant
				Fan drive							LED function/wa
	•	•	•	Fan guard							alarm / Transmi
											Tachometer / Ba
				Pneumatic System							Odometer / Fue
	•	•	•	Engine-mounted compressor							Trip timer / Trip
	•	•	•	Air drier with heater							/ Service codes
	•	$\bullet$	•	Integral unloader valve							Backlit sealed s
											Wiper control /
				Electrical System							Retarding aggre
	•	$\bullet$	•	Battery disconnect							differentials (B3
	•	•	•	Drive lights							differential lock
			•	Deluxe work lights							Dump-body tip
	•	•	•	Electric Hooter							tip settings / Air
$\bullet$	•	•	•	Air Horn							Preselected Spe
	•	•	•	Reverse alarm							
	•	•	•	Rotating Beacon							Dump Body
	•	•	•	Pitch Roll Sensor	•	•		•			Dump-body me
											Body liner
				Steering System							Tailgate
	•	•	•	Ground-driven secondary steering pump							Body heater
											Less dump bod
				Cab							
	•	•	•	ROPS/FOPS certification							<u>Other</u>
	•	$\bullet$	•	Tilt cab	•	•					23.5R25 radial
	•	$\bullet$	•	Gas strut-supported door							750/65 R25
	•	$\bullet$	•	I-Tip programmable dump-body tip settings							26.5R25 radial
	•	$\bullet$	•	Air conditioner				•			29.5R25 radial
	•	$\bullet$	•	Heater							875/65R29 radi
	•	$\bullet$	•	AM/FM radio/CD player	•	•		•			Remote grease
	$\bullet$	$\bullet$	•	Rear window guard							Automatic great
	$\bullet$	$\bullet$	•	Wiper/washer with intermittent control							Onboard Weigh
	•	ullet	•	Tilt and telescoping steering wheel							Load lights
	•	$\bullet$	•	Centre-mount air-suspension seat		1					Comfort Ride S
	•	$\bullet$	•	Rear window wiper							Reverse Camer
				· ·							Hand Rails
											Tyre Pressure N
						1		1			Cab Peak

eat belt ner seat with retractable seat belt outlet d lunch box table and heated mirrors or: ometer / Fuel gauge / oil temperature gauge / t temperature gauge / warning indicators and audible nission gear selection / Battery voltage / Hour meter / uel consumption / Tip counter / p distance / Metric/English units es/diagnostics switch module functions: / Lights / Heated mirrors / ressiveness / Controlled traction 35D/B40D/B50D) / Transfer case k / Transmission gear hold / p limit / Automatic dump-body Airconditioner/ Heater controls / peed Control k

Option

dy and cylinders

		23.5R25 radial earthmover tyres
		750/65 R25
		26.5R25 radial earthmover tyres
$\bullet$		29.5R25 radial earthmover tyres
	ullet	875/65R29 radial earthmover tyres
		Remote grease banks
$\bullet$	ullet	Automatic greasing
$\bullet$	ullet	Onboard Weighing
		Load lights
		Comfort Ride Suspension
$\bullet$	ullet	Reverse Camera
		Hand Rails
		Tyre Pressure Monitoring
		Cab Dook

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Strong Reliable Machines Strong Reliable Support

