





Refise efficiency

If it's not payload it's dead weight and it's costing money to haul. Bell Equipment's weight saving design focus sees extensive use of high strength steel and composite materials in the D-series.

Custom fabricated axles, a high power density engine and aluminium transmission housings help provide the B25D and B30D with class leading payload to weight ratios.

With Mercedes Benz' leading fuel saving technology, efficient planetary transmission gearing and a simple hydraulic system with a single main pump, Bell Equipment's

efficiency drive has a great payoff... more tonnes delivered per unit of fuel used.



Perfect the ride

The operator's ultimate Truck in all respects. On the way to this goal, engineering have used every clean sheet opportunity to the maximum.

Starting with the new composite cab that combines luxury, ergonomics and good vision out with simple pleasing aesthetics and durable finishes.

With sound levels of just 72db in the cab the D's are the quietest earthmovers yet. Large rubber cabin mounts isolate vibration and the transmission's adaptive shift technology makes gear changes virtually seamless.

Likewise ride dynamics are addressed with an all-new nitrogen over oil strut front suspension. Employing a semi-independent design with a reduced unsprung mass the resulting ride quality must be experienced to be appreciated.

Down to the finer details, like well thought out storage spaces including a temperature controlled lunch box compartment, a more powerful climate control system and a luxury air suspension seat - all standard equipment.

No matter how rough it gets outside, the D-series operator is confident, in control and cradled in comfort. Ready to be productive over the longest shift. The kind of job everyone should have.





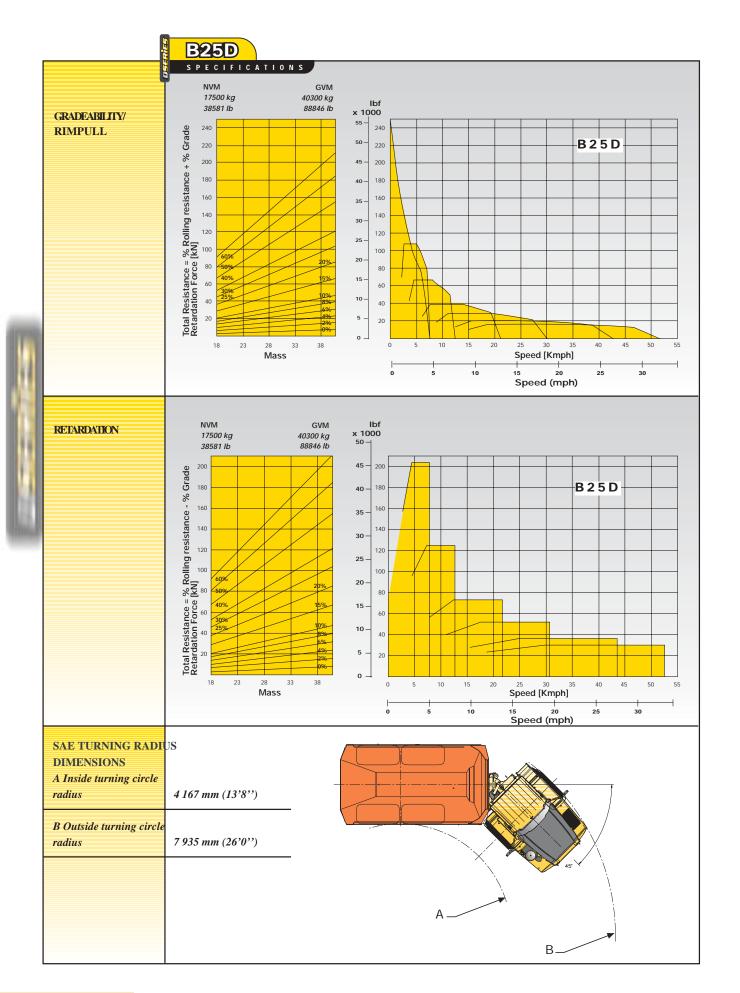


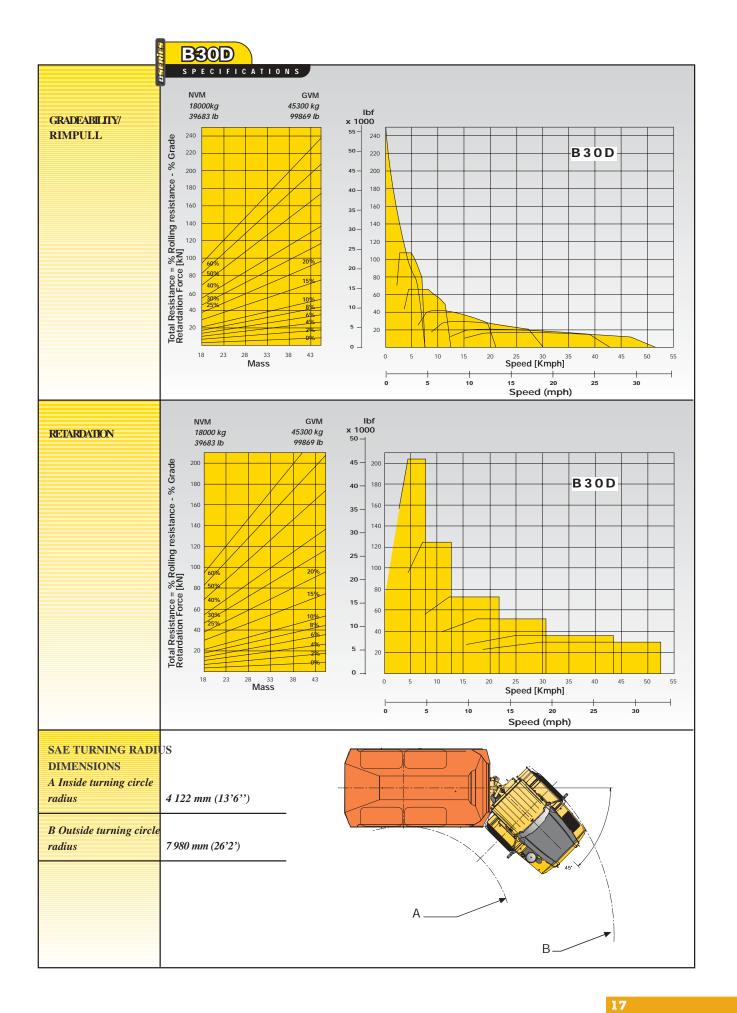


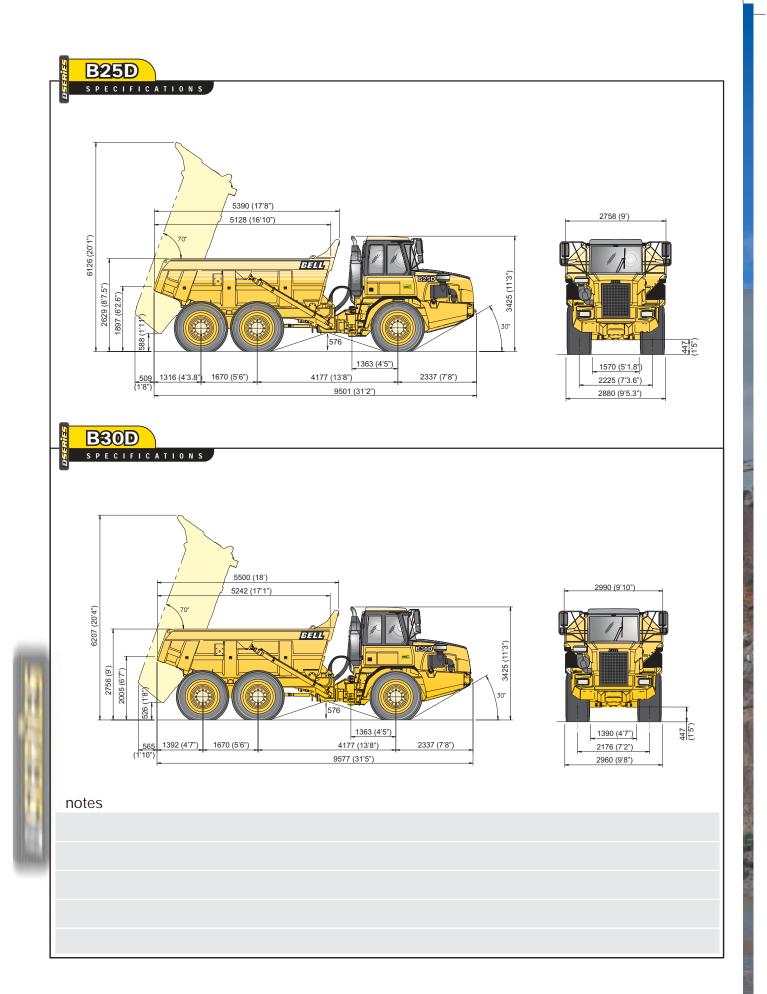
	B25D	BSOD
	S P E C I F I C A T I O N S	S P E C I F I C A T I O N S
ENGINE Configuration Aspiration Cooling system Gross power Net Power Gross torque Net torque Displacement Fuel tank capacity	Mercedes Benz OM906LA I-6 with exhaust brake and Engine Valve Brake (EVB) Turbocharged and intercooled Single pass radiator & charge air cooler 205 kW (275 hp) @ 2 200 rpm SAE J1349 198 kW (266 hp) @ 2 200 rpm 1 000 Nm (736 lbft) @ 1 050 -1 850 rpm SAE J1349 970 Nm (714 lbft) @ 1 050 -1 850 rpm 6,37 litres (389 cu.in) 340 / (90 US gal)	Mercedes Benz OM906LA I-6 with exhaust brake and Engine Valve Brake (EVB) Turbocharged and intercooled Single pass radiator & charge air cooler 205 kW (275 hp) @ 2 300 rpm SAE J1349 198 kW (266 hp) @ 2 200 rpm 1 100 Nm (810 lbft) @ 1 250 - 1 500 rpm SAE J1349 1 070 Nm (788 lbft) @ 1 200 - 1 600 rpm 6,37 litres (389 cu.in) 340 / (90 US gal)
TRANSMISSION Layout Gear layout Gears Clutch type Control type Torque converter layout Vehicle speeds	ZF 6HP592C with integral retarder Engine mounted box with rear output Constant meshing planetary gears 6 Forward, 1 Reverse Hydraulically operated multidisc Electronic Hydrodynamic, with lock-up in all gears 1st 2nd 3rd 4th 5th 6th R 8 13 22 31 44 53 8 km/h 5 8 14 19 27 33 5 mph	ZF6 HP 592C with integral retarder Engine mounted box with rear output Constant meshing planetary gears 6 Forward, 1 Reverse Hydraulically operated multidisc Electronic Hydrodynamic, with lock-up in all gears 1st 2nd 3rd 4th 5th 6th R 8 13 22 31 44 53 8 km/h 5 8 14 19 27 33 5 mph
TRANSFER CASE Layout Output differential	VGR 13 100 Three in-line helical gears. Interaxle 33/67 proportional differential, pneumatically lockable whilst stationary or on the move.	VGR 13 100 Three in-line helical gears. Interaxle 33/67 proportional differential, pneumatically lockable whilst stationary or on the move.
AXLES Differential type Final drive type Housing type	Bell 15T Spiral bevel type with Limited Slip Outboard heavy duty planetary Steel fabricated	Bell 18T Spiral bevel type with Limited Slip Outboard heavy duty planetary Steel fabricated
BRAKING SYSTEM SERVICE BRAKE Maximum brake force	Dual circuit, full hydraulic actuation caliper brakes on all wheels 164 kN (36,900 lbf)	Dual circuit, full hydraulic actuation caliper brakes on all wheels 164 kN (36,900 lbf)
PARK & EMERGENCY Maximum brake force	Spring applied, air released driveline mounted disc. 396 kN (89,000 lbf)	Spring applied, air released driveline mounted disc. 396 kN (89,000 lbf)
AUXILLIARY BRAKE Maximum retardation	Automatic exhaust brake and Engine Valve Brake (EVB) 442 kW (593 hp)	Automatic exhaust brake and Engine Valve Brake (EVB) 442 kW (593 hp)
WHEELS Tyre: Size Type Maximum ground pressure (laden)	23,5R25 Radial Earthmover 135 kPa (19.5 psi)	23,5R25 (750/65/R25 - Optional) Radial Earthmover 145 kPa (21 psi)
SUSPENSIONSYSTEM Front: Type Rear: Type	Semi-independent leading arm type linkages supported by nitrogen/oil struts Pivoting walking beams equalize the load on each axle with laminated suspension blocks. Each axle is coupled to the chassis by a system of four rubberbushed links for ideal vertical movement.	Semi-independent leading arm type linkages supported by nitrogen/oil struts Pivoting walking beams equalize the load on each axle with laminated suspension blocks. Each axle is coupled to the chassis by a system of four rubber-bushed links for ideal vertical movement.
Flow Pressure Filter	Full load sensing system. A ground-driven, load sensing emergency steering pump is integrated into the main system 184 /min (48.6 US gal/min) 25 MPa (3,915 psi) 10 micron	Full load sensing system. A ground-driven, load sensing emergency steering pump is integrated into the main system 184 /min (48,6 US gal/min) 25 MPa (3,915 psi) 10 micron

	B25D	B30D
	SPECIFICATIONS	SPECIFICATIONS
PNEUMATICSYSTEM System pressure	Air drier with heater and integral unloader valve, serving park brake and auxiliary functions 850 kPa (123 psi)	Air drier with heater and integral unloader valve, serving park brake and auxiliary functions 850 kPa (123 psi)
FLECTRICALSYSTEM 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
Angle Lock to lock turns	Hydrostatically actuated by two double acting cylinders, with ground-driven emergency steering pump. +- 45 degrees 4,1	Hydrostatically actuated by two double acting cylinders, with ground-driven emergency steering pump. +- 45 degrees 4,1
BODY Capacity: Struck Heaped, SAE 2:1 SAE 1:1 Rated payload Raise time Power down time Tipping angle	10,5 m³ (13.7 cu.yd) 13,8 m³ (18.1 cu.yd) 16,9 m³ (22.1 cu.yd³) 23 200 kg (51,156 lbs) 12 s 6 s 70 degrees	12,6 m ³ (16.5 cu.yd) 16,5 m ³ (21.6 cu.yd) 20,3 m ³ (24.5 cu.yd) 27 300 kg (59,535 lbs) 12 s 6 s 70 degrees
OPERATINGWEIGHIS Empty: Front Middle Rear Total Laden: Front Middle Rear Total	9 350 kg (20,617 lbs) 4 150 kg (9,151 lbs) 4 000 kg (8,820 lbs) 17 500 kg (38,588 lbs) 12 400 kg (27,342 lbs) 14 225 kg (31,366 lbs) 14 075 kg (31,035 lbs) 40 700 kg (89,744 lbs)	9 550 kg (21,058 lbs) 4 300 kg (9,482 lbs) 4 150 kg (9,151 lbs) 18 000 kg (39,690 lbs) 13 200 kg (29,106 lbs) 16 125 kg (35,556 lbs) 15 975 kg (35,225 lbs) 45 300 kg (99,887 lbs)
STANDARDEQUIPMENT Cab	Cab • ROPS/FOPS certification • Protective rear window guard • Handrails on fenders • Tilt cab for service access • Gas strut supported door • Tinted safety glass • Sliding windows • Rear view mirrors- regular and wide angle • Electric adjust and heated mirrors (one per side) • Sun visor • Wiper/washer with intermittent control • Tilt and telescoping steering wheel • Adjustable, air suspension seat with retractable seat belt • Foldaway trainer seat with retractable seat belt • HVAC climate control system with filtered and ducted air • Air horn • Over head console for FM and 2-way radio, compartments for, storage electrical relays and circuit breakers • 12 V power outlet/12 V cigarette lighter • Ash tray • Drinks holder • Cooled/heated lunch box • Wheel spanner set MDU Features • Tipping counter • Trip timer • Trip distance • Fuel Consumption • Diagnostics • Intermittent wiper timing control • Speedo calibration for alternative tyre sizes • Metric /Imperial unit selection • Warning lights with audible buzzer Analogue Gauges • Engine coolant temperature • Engine oil pressure • System air pressure • Transmission oil temperature • Fuel • Speedometer LCD Display • Transmission gear selection • Tachometer • Battery voltage • Hourmeter • Odometer Retarder • Integral transmission output retarder with 6 settings Other Ground driven emergency steering	Cab • ROPS/FOPS certification • Protective rear window guard • Handrails on fenders • Tilt cab for service access • Gas strut supported door • Tinted safety glass • Sliding windows • Rearview mirrors- regular and wide angle • Sun visor • Wiper/washer with intermittent control • Tilt and telescoping steering wheel • Adjustable, air suspension seat with retractable seat belt • Foldaway trainer seat with retractable seat belt • HVAC climate control system with filtered and ducted air • Air horn • Over head console for FM and 2-way radio, compartments for, storage electrical relays and circuit breakers • 12V power outlet/12V cigarette lighter • Ash tray • Drinks holder • Cooled/heated lunch box • Wheel spanner set MDU Features • Tipping counter • Trip timer • Trip distance • Fuel Consumption • Diagnostics • Intermittent wiper timing control • Speedometer calibration for alternative tyre sizes • Metric /Imperial unit selection • Warning lights with audible buzzer Analogue Gauges • Engine coolant temperature • Engine oil pressure • System air pressure • Transmission oil temperature • Fuel • Speedometer LCD Display • Transmission gear selection • Tachometer • Battery voltage • Hourmeter • Odometer Other Ground driven emergency steering
OPTIONALEQUIPMENT	(Factory or field installed) • Exhaust body heating • Autogate • Body liners • Work lights • Artic reverse light • 2 extra batteries • Electrically adjustable rearview mirrors (two) • Head light grills • Fuel heater	(Factory or field installed) • Exhaust body heating • Autogate • Body liners • Work lights • Artic reverse light • 2 extra batteries • Electrically adjustable rearview mirrors (two) • Tyre 750/65R25 • Head light grills • Fuel heater

All dimensions are shown in millimetres, unless otherwise stated between brackets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. Photographs featured in this brochure may include optional equipment.







Respect the environment

While some manufacturers are just meeting environmental legislation by patching old generation technology, the Mercedes Benz OM906LA is a completely modern design proven with a few years in the field.

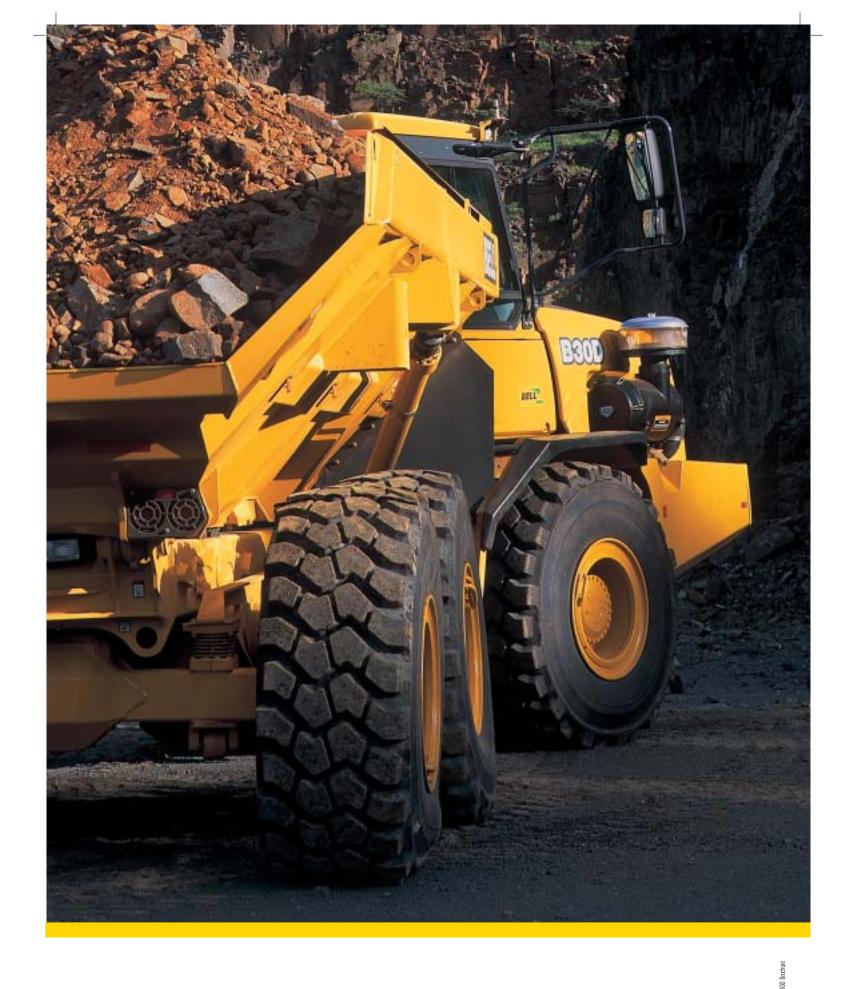
A product of Mercedes Benz' multimillion dollar research efforts, the D-series power plant utilizes reliable high pressure unit injectors, multi-valve aspiration and electronically managed injection timing. To maximize fuel economy while minimizing emissions,

with a design that will meet even tougher future standards.

Bell D-series Artic Truck operators can rest assured that their trucks are emitting the lowest possible emissions while at the same conserving limited resources, with efficient fuel use and extended fluid change intervals.

Good environmental stewardship is upheld through Bell Equipment's operations, and by virtue of our products it's a priority with our family of customers too.





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