

B35D ARTICULATED TRUCK



- **Gross power** 290 kw (389 hp)
- **Gross torque** 32,500 kg (1.362 lbft) @ 1 300 rpm
- **Load capacity** 20,1 m³ (26,3 yd³) SAE 2:1 heaped



D SERIES

B35D ARTICULATED TRUCK

ENGINE

Mercedes Benz V6, turbocharged, intercooled, low emission diesel engine

Gross power 290 kW (389 hp) @ 1 800 rpm
 Net Power 283 kW (380 hp) @ 1 800 rpm
 Gross torque 1 850 Nm (1,362 lbf) @ 1 300 rpm
 Net torque 1 824 Nm (1,343 lbf) @ 1 300 rpm

Displacement 11,95 litres (730 cu.in)
 Fuel tank capacity 485 litres (128 US gal)
 Auxiliary Brake Automatic exhaust brake
 Engine Valve Brake (EVB)

Certification OM 501 LA.E2/1-00 meets Europe (EU) step2; OM 501 LA.E3A/1 meets Europe (EU) step 3

TRANSMISSION

Engine mounted, fully automatic Allison planetary transmission with six forward gears and one reverse gear.

Torque Converter Hydrodynamic with lock-up in all gears.

Model 4500R ORS
 Control Type Electronic

TRANSFER BOX

Remote mounted

Manufacturer VGR
 Model 17100
 Layout Three in-line helical gears.
 Output Differential Interaxle 33/67 proportional differential, Pneumatically lockable whilst stationary or on the move

AXLES

High strength steel fabricated with spiral bevel type gears on the Controlled Traction differential and heavy duty outboard planetary gears.

Model Brakes

Bell 25T
 Dual circuit, hydraulically actuated dry disc brakes on all three axles.

Max brake force Parking Brake

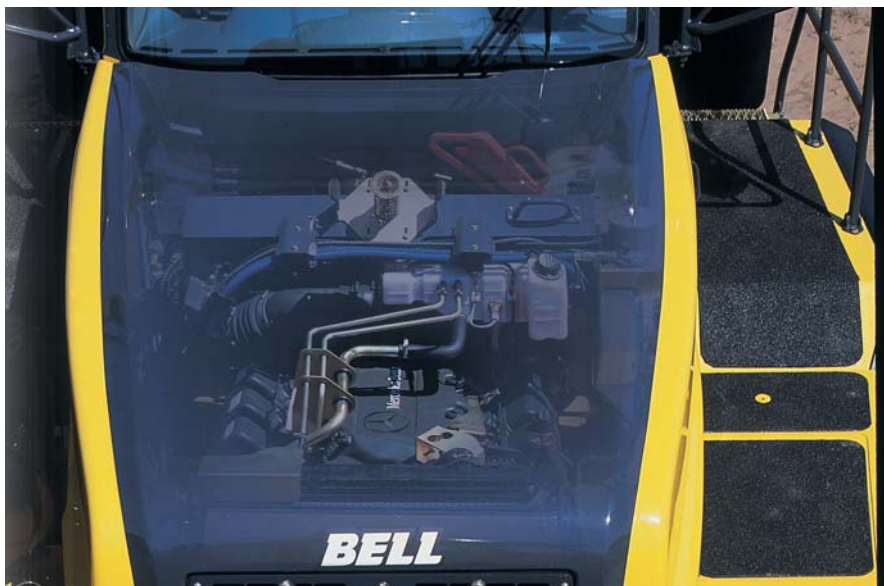
193 kN (43,388 lbf)
 Spring applied, air released driveline mounted disc.

Max brake force Total Retardation

440 kN (98,920 lbf)
 575 kW (771 hp)

WHEELS

Earthmover 26.5R25



FRONT SUSPENSION

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 four rubber-bushed links for ideal vertical movement and a transverse link for lateral restraint.

HYDRAULIC SYSTEM

Full load sensing system incorporating a ground driven emergency steering pump.

Flow 300 l/min (79,26 gal/min)
 Pressure 25 Mpa (3,626 psi)
 Filter 10 micron

STEERING SYSTEM

Hydrostatically actuated by two double acting cylinders, with ground-driven emergency steering pump.

Lock to lock turns 4.7
 Steering Angle +-42°

DUMPING SYSTEM

Two double-acting, single stage, dump cylinders

Raise Time 13 s
 Lowering Time 7,6 s
 Tipping Angle 70°

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 maintenance free permanently sealed

Battery Capacity Alternator Rating

2 X 105 Ah
 28 V 100 A

VEHICLE SPEEDS

1st	8	5
2nd	17	10.6
3rd	24	15
4th	37	23
5th	48	30
6th	54	33.8
R	6,3 km/h	3.9 mph

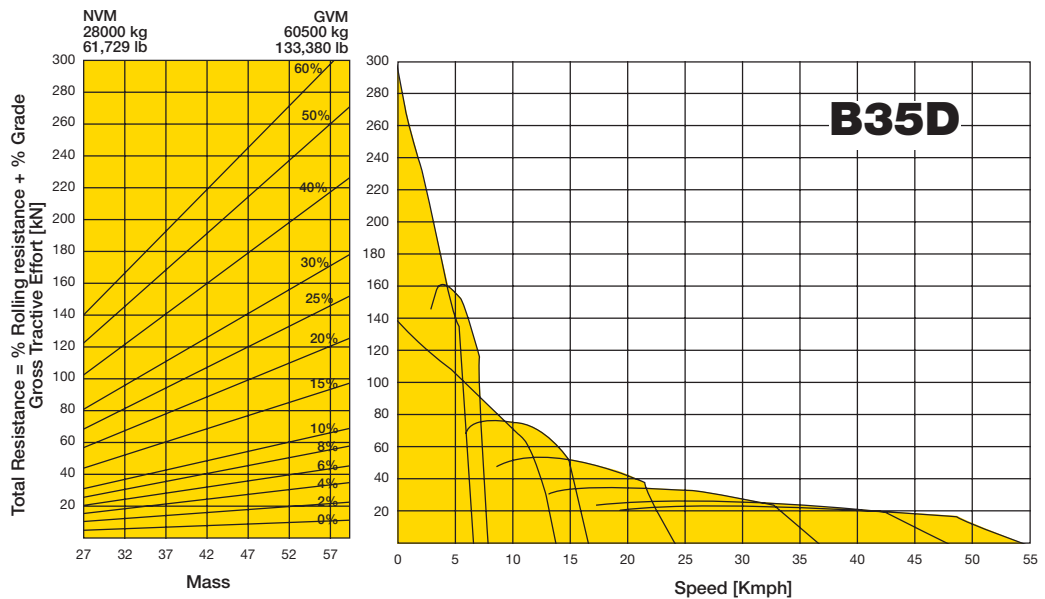


B35D ARTICULATED TRUCK

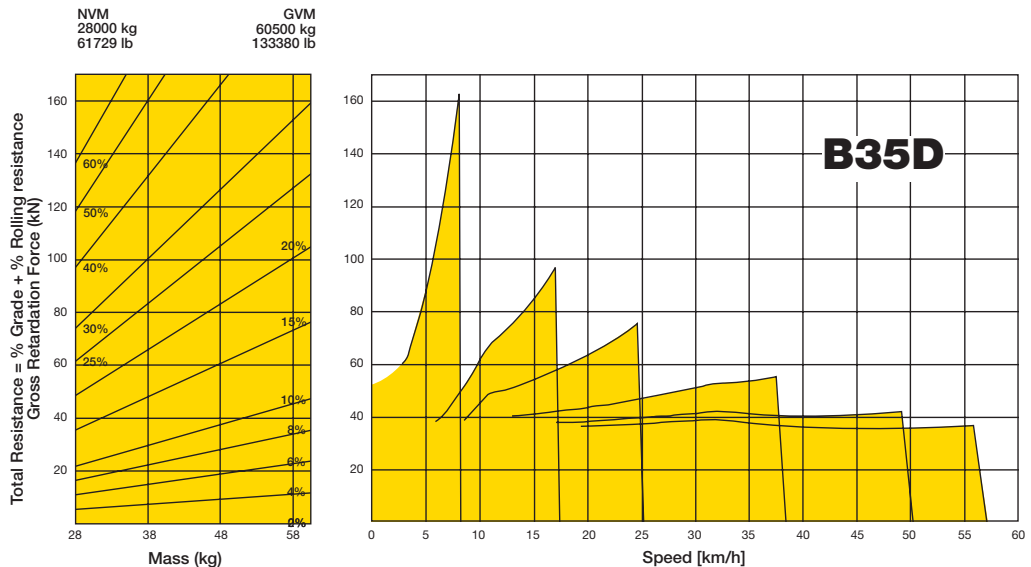
LOAD CAPACITY & GROUND PRESSURE

WEIGHTS			GROUND PRESSURE			LOAD CAPACITY		
			At 15% sinkage of unloaded radius and specified weights					
UNLADEN	kg	lbs	UNLADEN	kPa	psi	BODY (Ribbed reinforced)	m³	cu.yd
Front	13 500	29,762	Front	108	15.7	Struck Capacity	15,2	19.9
Middle	7 300	16,093	Middle	58	8.4	SAE 2:1 Capacity	20,1	26.3
Rear	7 200	15,873	Rear	58	8.4	SAE 1:1 Capacity	24,6	32.2
Total	28 000	61,729				SAE 2:1 Capacity with Autogate	21,2	27.7
LADEN			LADEN					
Front	18 400	40,565	Front	147	21.3			
Middle	21 100	46,517	Middle	169	24.5	Rated Payload	32 500 kg	71,650 lbs
Rear	21 000	46,297	Rear	168	24.4			
Total	60 500	133,380						

GRADEABILITY/RIMPULL

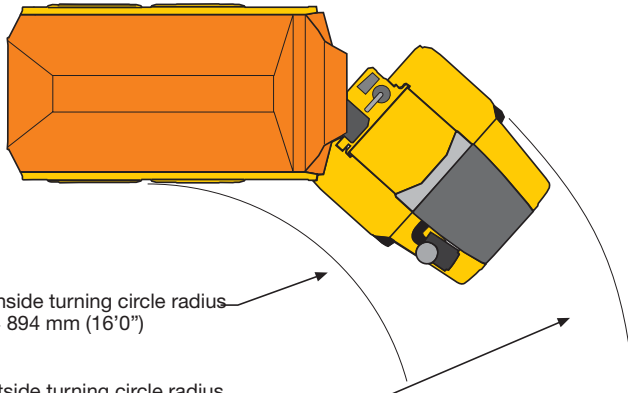
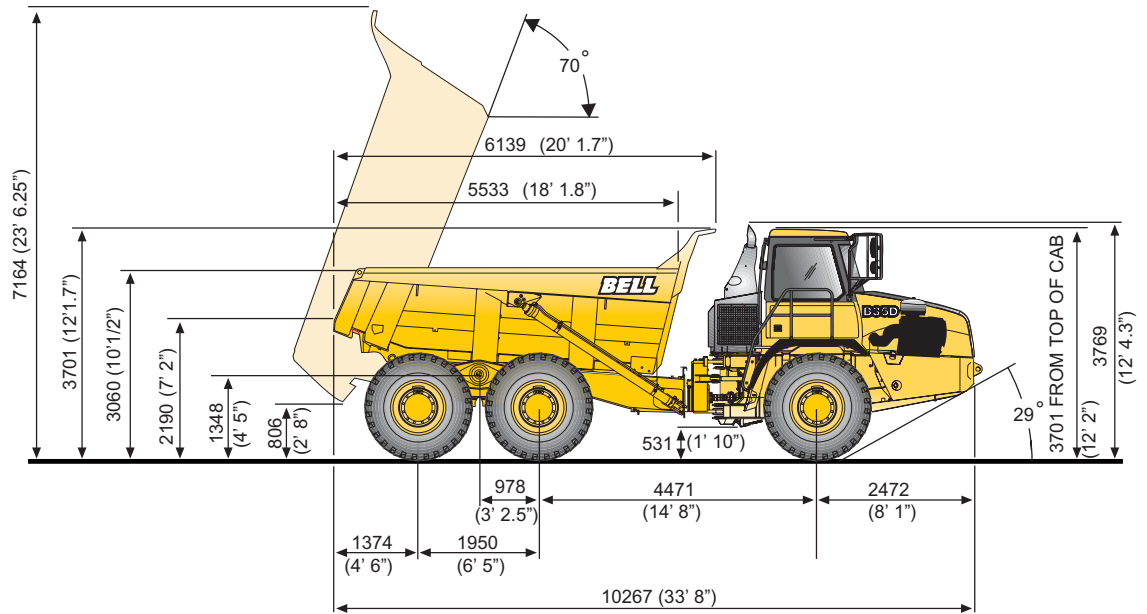


RETARDATION



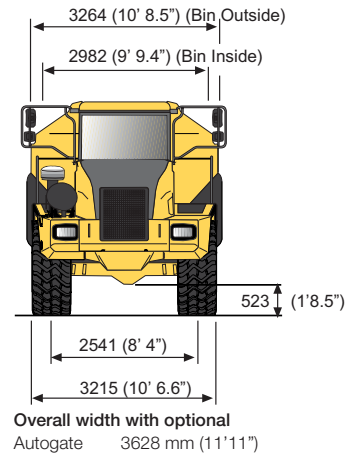
B35D ARTICULATED TRUCK

DIMENSIONS



Inside turning circle radius
4 894 mm (16'0")

Outside turning circle radius
9 203 mm (30'2")



Overall width with optional
Autogate 3628 mm (11'11")



B35D ARTICULATED TRUCK

STANDARD EQUIPMENT

- | | |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cab | <ul style="list-style-type: none"> • ROPS/FOPS certification • Protective rear window guard • Tilt cab for service access • Gas strut supported door • Tinted safety glass • Sliding windows • Rear view 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 • Fold-away trainer seat with retractable seat belt • HVAC climate control system with filtered and ducted air • Rotating beacon • 12 V power outlet/12 V cigarette lighter • Ash tray • Drinks holder • Cooled/heated lunch box • I-Tip programmable bin tip • Sound insulated to 76 dB(A) to ISO 6394 • Memory Module |
| MDU Features | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Engine coolant temperature • Engine oil pressure |

LCD Display

- Transmission oil temperature
- Fuel

- Transmission gear selection
- Tachometer
- Battery voltage
- Hourmeter
- Odometer
- System air pressure

Retarder

Integral transmission output retarder with 6 settings

Other

- Ground driven emergency steering
- Bin safety prop
- Articulation lock

OPTIONAL EQUIPMENT

- (Factory or field installed)
- Retractable sun visor
- Exhaust body heating
- Autogate
- Body liners
- On Board Weigh System (OBW)
- Fleetmatic Satellite Monitoring System
- Driver ID
- Forward working lights
- Electrically adjustable rearview mirrors - one per side
- Artic reverse light
- 2 extra batteries
- Fuel heater
- External windshield visor
- Headlight protection grills
- Rear window wiper
- Air horn
- Antenna mounting bracket
- Radio/CD/Tape
- Wet disc brakes (WDB)
- Memory module (MM)



What makes the **B35D** a great performer...

- **With a highly efficient power and drivetrain combined with low rolling resistance, the Bell B40D delivers superior fuel efficiency**
- **High performance engine with increased power and torque and long service intervals**
- **Powerful hydraulic transmission retarder drastically cuts brake use extending pad life up to a factor of five**
- **Fewer scheduled service requirements**
- **Supreme driver comfort from a nitrogen over oil strut independent suspension system**
- **Deluxe cab - setting new standards in comfort, sound levels and simplicity in operation**
- **Electronic component protection**
- **Easy service access**
- **Fast tip cycles**
- **Low ground pressure to work jobs other trucks can't**

BELL SOUTH AFRICA : Tel: +27 (0)11-928 9700 • Fax: +27 (0)11-928 9702
BELL INTERNATIONAL : Tel: +27 (0)35-907 9431 • Fax: +27 (0)35-797 4336
E-mail: sales@bellequipment.com • www.bellequipment.com

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.

**Strong Reliable Machines
Strong Reliable Support**

