

Gross power

315 kw (422 hp)

• Gross torque

2 000 Nm (1,473 lbft) @ 1300rpm

Load cpacity

22,4 m³ SAE 2:1 heaped





Mercedes Benz V6, turbocharged, intercooled, low

emission diesel engine 315 kW (422 hp) @ 1 800 rpm 308 kW (413 hp) @ 1 800 rpm **Gross power** Net Power 2 000 Nm (1,473 lbft) @ Gross torque

1 300 rpm

Net torque 1 974 Nm (1,453 lbft) @

1 300 rpm

11,95 litres (730 cu.in) Displacement Fuel tank capacity 485 litres (128 US gal) **Auxilliary 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

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

revese gear. Hydrodynamic with lock-up in **Torque Converter**

all gears. Model 4500R ORS Control Type Electronic

Manufacturer

Remote mounted

VGR Model 17100

Lavout Three in-line helical gears. Output Differential Interaxle 33/67 proportional differential, Pneumatically lockable whilst stationary or on

the move

High strength steel fabricated with spiral bevel type gears on the limited slip locking differential and heavy duty outboard

planetary gears.

Model Bell 25T Brakes

Dual circuit, full hydraulic actuation wet disc brakes on

front and middle axles. Max brake force 218 kN (49,010 lbf) **Parking Brake**

Spring applied, air released driveline mounted disc. 440 kN (98,920 lbf)

Max brake force Total Retardation 575 kW (771hp)

Earthmover Tyre 29.5R25



Semi-independent, leading Aframe supported by nitrogen/oil

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.

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

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

Lock to lock turns 4.7 +-42° Steering Angle

Raise Time **Lowering Time** Tipping Angle

System Pressure

SYSTE Voltage

Battery Type

Battery Capacity Alternator Rating

Two double-acting, single stage, dump cylinders

13 s 7.6 s70°

Air drier with heater and integral unloader valve, serving park brake and auxilliary functions 810 kPa (117 psi)

24 V Two maintenance free permanently sealed 2 X 105 Ah 28 V 100 A

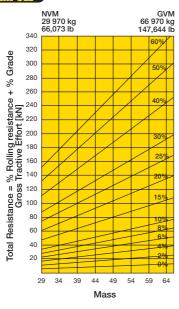
7.4 4.6 1st 9.8 2nd 15,7 3rd 22,8 14.3 4th 34,8 21.8 5th 45,6 28.5 6th 52,0 32.5 6,3 km/h 3.9 mph R

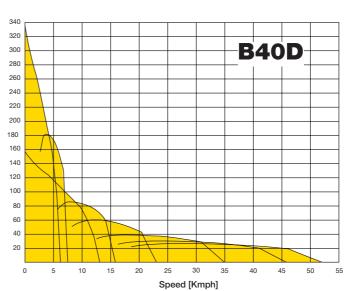


LOAD CAPACITY & GROUND PRESSURE

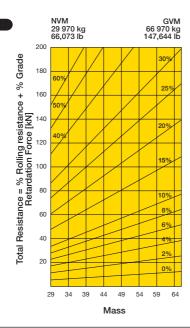
WEIGHTS			GROUND PRESSURE At 15% sinkage of unloaded radius and specified weights			LOAD CAPACITY		
UNLADEN	kg	lbs	UNLADEN	kPa	psi	BODY (Ribbed reinforced)	m ³	cu.yd
Front	14 360	31,660	Front	99	14	Struck Capacity	16,9	22.1
Middle	8 320	18,342	Middle	49	7	SAE 2:1 Capacity	22,4	29.4
Rear	7 290	16,072	Rear	47	7	SAE 1:1 Capacity	27,4	35.8
Total	29 970	66,073				SAE 2:1 Capacity		
LADEN			LADEN			with Autogate	23,7	30.1
Front	19 100	42,108	Front	131	19			
Middle	24 450	53,903	Middle	158	23	Rated Payload	37 000 kg	81,571 lbs
Rear	23 420	51,632	Rear	156	23			
Total	66 970	147,644						·

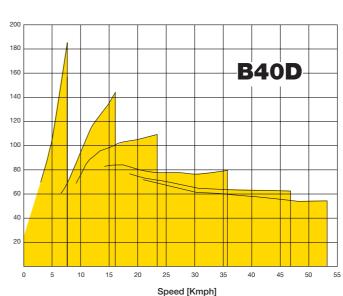
GRADEABILITY/RIMPULL





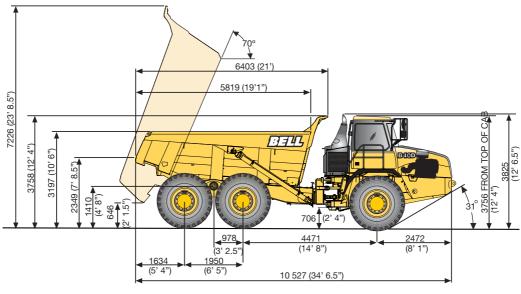
RETARDATION

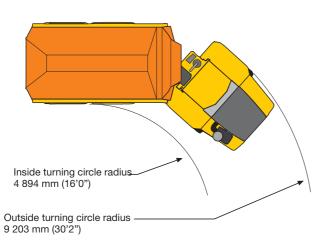


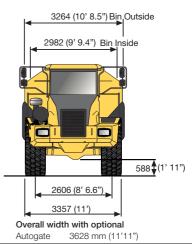


B40 D ARTHOULATED TRUCK

DIMENSIONS









STANDARD EQUIPMENT

Cab

- 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

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
- Transmission oil temperature

LCD Display

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

Retarder

Other

Integral transmission output retarder with 6 settings

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





What makes the B400 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

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