ARTICULATED TRUCK

Gross power

315 kw (422 hp)

• Gross torque

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

Load cpacity

22,4 m³ SAE 2:1 heaped





ARTICULATED TRUCK

Mercedes Benz V6, turbocharged, intercooled, low

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

Displacement Fuel tank capacity **Auxilliary Brake**

11,95 litres (730 cu.in) 485 litres (128 US gal) Automatic exhaust brake Engine Valve Brake (EVB) OM 501 LA.E2/1-00 meets Europe (EU) step2; OM 501

Certification

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

Torque Converter

all gears.

Control Type

Manufacturer **VGR** Model

Lavout Output Differential

Three in-line helical gears. Interaxle 33/67 proportional

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

Bell 25T

Model Brakes

actuation wet disc brakes on

Max brake force **Parking Brake**

218 kN (49,010 lbf) Spring applied, air released

Max brake force Total Retardation

Tyre 29.5R25

LA.E3A/1 meets Europe (EU) step 3

revese gear. Hydrodynamic with lock-up in

Model 4500R ORS Electronic

Remote mounted

17100

differential, Pneumatically lockable whilst stationary or on the move

Dual circuit, full hydraulic

front and middle axles.

driveline mounted disc. 440 kN (98,920 lbf)

575 kW (771hp)

Earthmover

emission diesel engine

1 974 Nm (1,453 lbft) @

1 300 rpm

Semi-independent, leading Aframe 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 Tri-Link system of four rubber-bushed links for ideal vertical movement and a transverse link for lateral restraint.

Flow Pressure Filter

Full load sensing system incorporating a ground driven emergency steering pump. 300 l/min (79,26 gal/min) 25 Mpa (3,626 psi) 10 micron

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

Lock to lock turns Steering Angle

Raise Time **Lowering Time** Tipping Angle

dump cylinders 13 s 7.6 s

Two double-acting, single stage,

70°

System Pressure

SYSTE Voltage

Battery Type Battery Capacity

Alternator Rating

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

24 V

R

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



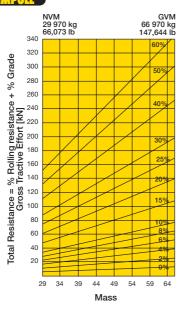
4.7

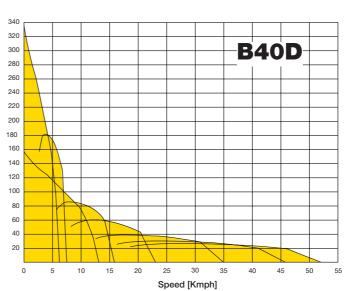
+-42°

LOAD CAPACITY & GROUND PRESSURE

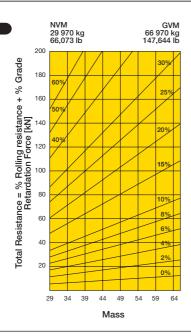
WEIGHTS			GROUND PRESSURE At 15% sinkage of unloaded radius and specified weights			LOAD CAPACITY		
UNLADEN	kg	lbs	UNLADEN	kPa	psi	BODY (Ribbed reinforced)	m ³	cu.yd
Front	14 360	31,660	Front	99	14	Struck Capacity	16,9	22.1
Middle	8 320	18,342	Middle	49	7	SAE 2:1 Capacity	22,4	29.4
Rear	7 290	16,072	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						

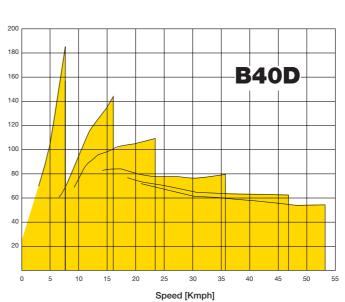
GRADEABILITY/RIMPULL





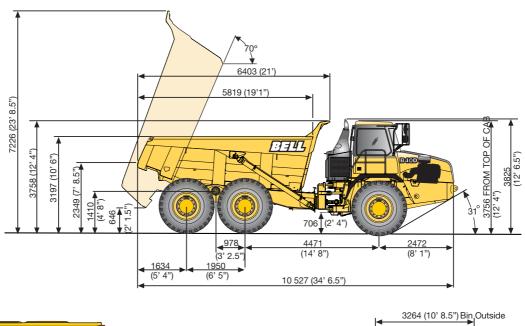
RETARDATION

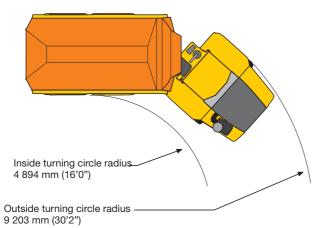


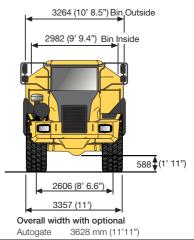


B40 D ARTHOULATED TRUCK

DIMENSIONS









B40 DARTHOULATED TRUCK

STANDARD EQUIPMENT

Cab

- ROPS/FOPS certification
- Protective rear window guard
- Tilt cab for service access
- Gas strut supported door
- Tinted safety glassSliding 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

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

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