

# B30D 6x6 **ARTICULATED DUMP TRUCK** Mk VI



Gross Power: 240 kw (322 hp)  
Gross Torque: 1 250 Nm (922 lbft)  
Rated Payload: 27 300 kg (60,186 lbs)

# B30D 6x6 ARTICULATED DUMP TRUCK MkVI

**ENGINE** Mercedes Benz inline 6 cylinder, turbocharged, intercooled, low emission diesel engine

**Gross power** 240 kW (322 hp) @ 2,200 - 1,600 rpm

**Net Power** 232 kW (311 hp) @ 2,200 - 1,600 rpm

**Gross torque** 1,250 Nm (922 lbft) @ 1,200 - 1,600 rpm

**Net torque** 1,200 Nm (885 lbft) @ 1,200 - 1,600 rpm

**Displacement** 7,2 litres (439 cu.in)

**Fuel tank capacity** 340 l (90 US gal)

**Auxilliary Brake** Exhaust brake  
Engine Valve Brake (EVB)

**Certification** OM 926 LA.11/4-00 meets Europe (EU) step 2;  
**Non Regulated** OM 926 LA.E3A/1 meets Europe (EU) step 3

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

**Torque Converter** Hydrodynamic with lock-up in all gears.

**Model** 6HP592C Ecomat 2 Plus

**Control Type** Electronic

**TRANSFER BOX** Remote mounted

**Manufacturer** VGR

**Model** 13100

**Layout** Three in-line helical gears.

**Output Differential** 67/33 torque proportioning, Pneumatically lockable on the move.

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

**Model** Bell 18T

**BRAKING SYSTEM**

**SERVICE BRAKE** Dual circuit, full hydraulic actuation caliper brakes on all wheels

**Maximum brake force** 164 kN (36,900 lbf)

**PARK & EMERGENCY** Spring applied, air released driveline mounted disc.

**Maximum brake force** 396 kN (89,000 lbf)

**AUXILIARY BRAKE** Automatic exhaust brake and Engine Valve Brake (EVB)

**Maximum retardation** 442 kW (593 hp)

**WHEELS** Earthmover

**Tyre** 23.5R25



**FRONT SUSPENSION** 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.

**HYDRAULIC SYSTEM** Variable displacement with load sensing system incorporating a ground driven emergency steering pump.

**Flow** 184 l/min (48.6 gal/min)

**Pressure** 25 Mpa (3,915 psi)

**Filter** 10 micron

**STEERING SYSTEM** Hydrostatically actuated, low effort, fast acting.

Two double-acting steering cylinders

**Lock to lock turns** 4.1

**Steering Angle** +-45°

**DUMPING SYSTEM** Two double-acting, single stage, dump cylinders

**Raise Time** 12 s

**Lowering Time** 6 s

**Tipping Angle** 70°

**PNEUMATIC SYSTEM** Air drier with heater and integral unloader valve, serving park brake and auxilliary functions

**System Pressure** 850 kPa (123 psi)

**ELECTRICAL SYSTEM**

**Voltage** 24 V

**Battery Type** Two maintenance free permanently sealed

**Battery Capacity** 2 X 105 Ah

**Alternator Rating** 28 V 80 A

**VEHICLE SPEEDS**

1st	8	5
2nd	13	8
3rd	22	14
4th	31	19
5th	44	28
6th	53	33
R	8 km/h	5 mph



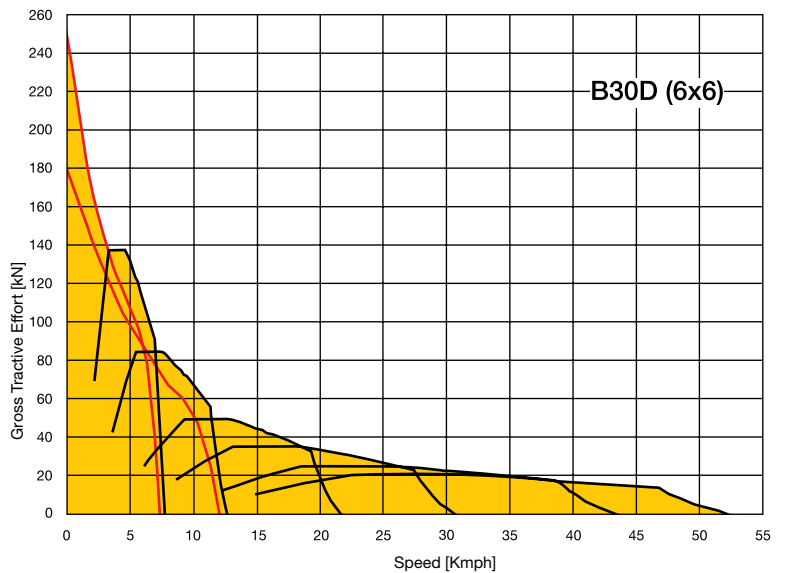
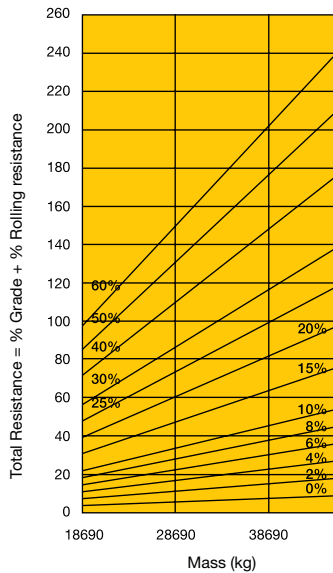
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## LOAD CAPACITY & GROUND PRESSURE

WEIGHTS			GROUND PRESSURE			LOAD CAPACITY		
UNLADEN	kg	lbs	UNLADEN	kPa	psi	BODY	m <sup>3</sup>	cu.yd
Front	9,710	21,407	Front	95	13.8	Struck Capacity	12,9	16.4
Middle	4,490	9,899	Middle	47	6.8	SAE 2:1 Capacity	16,6	21.7
Rear	4,490	9,899	Rear	46	6.7	SAE 1:1 Capacity	20,3	26.6
Total	18,690	41,204	Total			SAE 2:1 Capacity with Autogate	17,7	23.3
LADEN			LADEN					
Front	13,350	29,432	Front	271	39			
Middle	16,320	35,979	Middle	331	48	<b>Rated Payload</b>	27,300 kg	60,186 lbs
Rear	16,320	35,979	Rear	331	48			
Total	45,990	101,391						

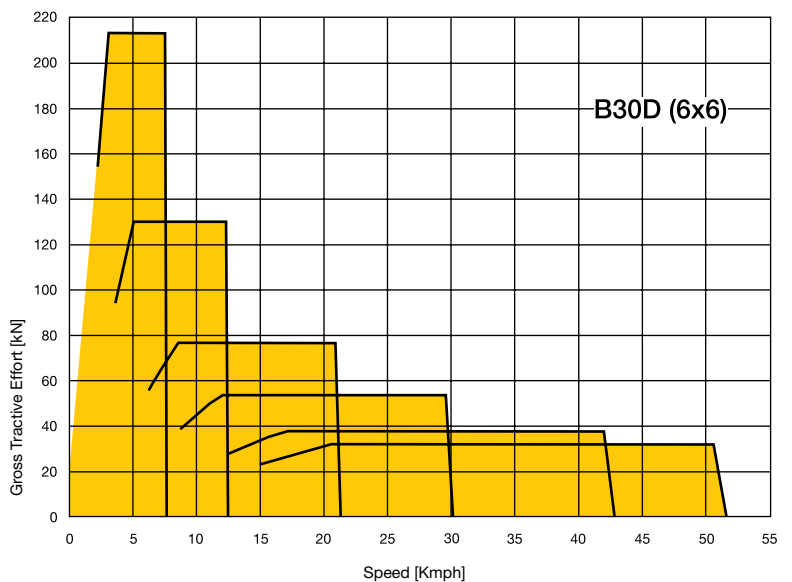
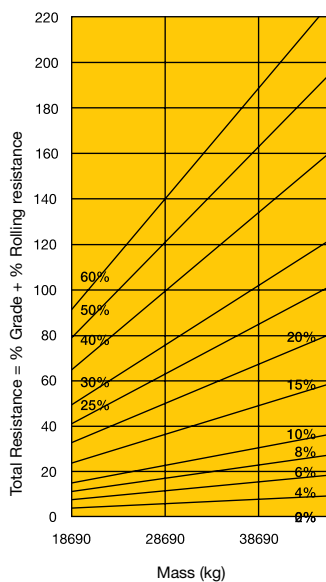
## GRADEABILITY/RIMPULL

NVM 18,690 kg 41,204 lb  
 GVM 45,990 kg 101,391 lb



## RETARDATION

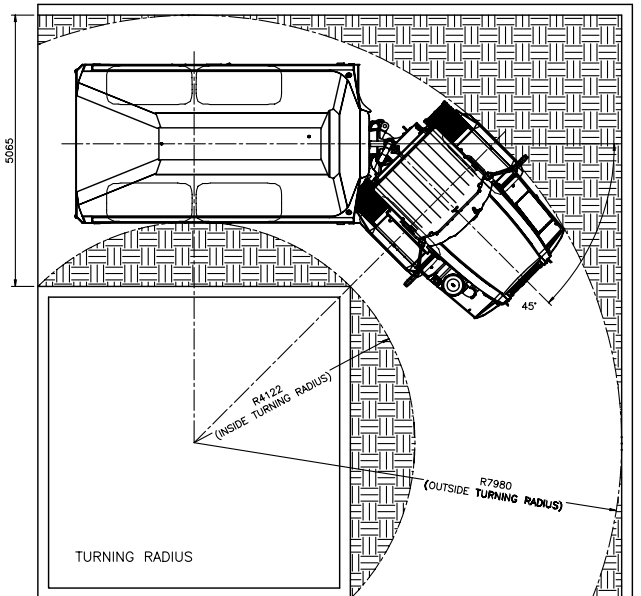
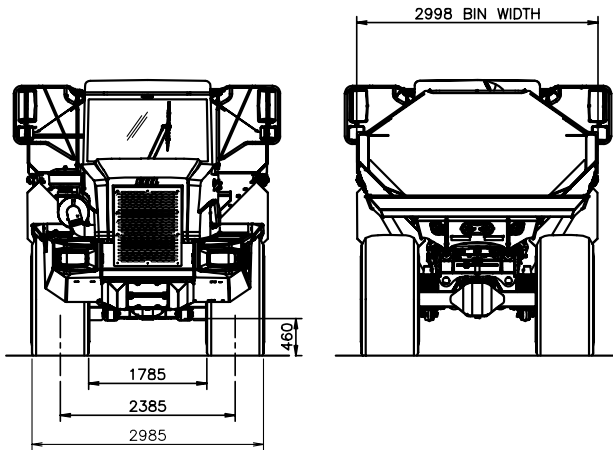
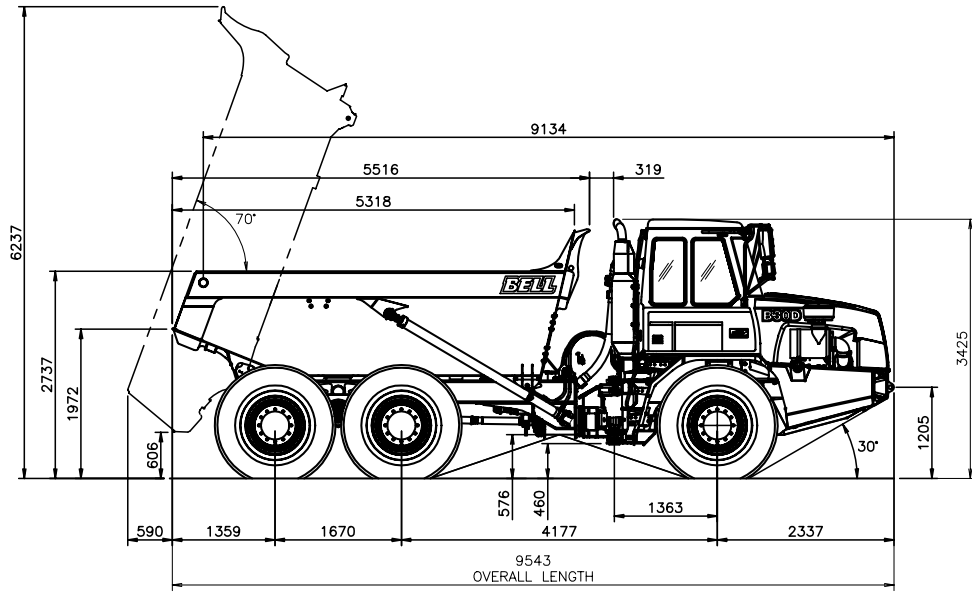
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M&VI

## DIMENSIONS



# B30D 6x6 ARTICULATED DUMP TRUCK MKVI

## AVAILABLE 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
- Electrically adjustable rearview mirrors - one per side
- 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 6396
- Radio/CD/Tape
- Memory Module
- Air horn

### MDU Features

- Operator / Site selected speed control
- Tipping counter
- Trip timer
- Trip distance
- On Board Weigh System (OBW)
- Transmission gear selection
- Fuel Consumption
- Diagnostics
- Intermittent wiper timing control
- Speedo calibration for alternative tyre sizes
- Metric /Imperial unit selection
- Warning lights with audible buzzer

### Gauges

- Engine coolant temperature
- Engine oil pressure
- Transmission oil temperature
- Fuel
- Tachometer
- Battery voltage
- Hourmeter
- Odometer
- System air pressure

### Vehicle

- Ground driven emergency steering
- Bin safety prop
- Articulation lock
- Integral transmission output retarder with 6 settings

### Other

- (Factory or field installed)
- Groeneveld auto greasing system
  - Retractable sun visor
  - Exhaust body heating
  - Autogate
  - Body liners
  - Fleetmatic Satellite Monitoring System
  - Driver ID and immobiliser
  - Forward working lights
  - Artic reverse light
  - Fuel heater
  - External windshield visor
  - Headlight protection grills
  - Rear window wiper
  - Antenna mounting bracket
  - System for reverse camera
  - Wiggins quick fuelling system
  - Tyre pressure monitoring



\*standard specification for machines may vary according to region

## What makes the B30D a great performer...

- **With a highly efficient power and drivetrain combined with low rolling resistance, The Bell B30D 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**
- **Tight turning circle**
- **Electronic component protection**
- **Easy service access**
- **Fast tip cycles**
- **Low ground pressure to work jobs other trucks can't**

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All dimensions are shown in millimetres, unless otherwise stated between brackets.  
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**Strong Reliable Machines  
Strong Reliable Support**

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