

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)

BELL

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 lbf) @ 1,200 - 1,600 rpm
Net torque	1,200 Nm (885 lbf) @ 1,200 - 1,600 rpm
Displacement	7.2 litres (439 cu.in)
Fuel tank capacity	340 l (90 US gal)
Auxiliary Brake	Exhaust brake Engine Valve Brake (EVB)
Certification	OM 926 LA.11 1/4-00 meets Europe (EU) step 2;
Non Regulated	OM 926 LA.E3A/1 meets Europe (EU) step 3
Regulated	

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)
	Variable Adjustable Hydraulic Retarder
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.
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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 auxiliary 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



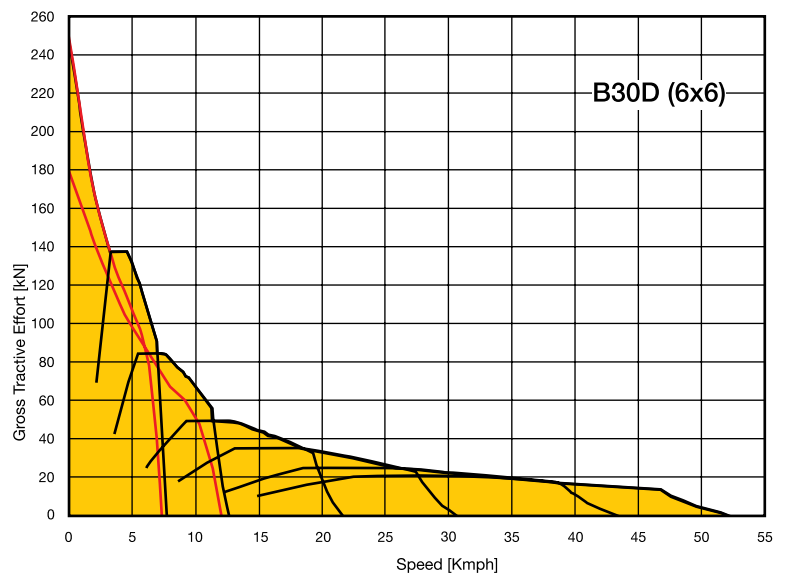
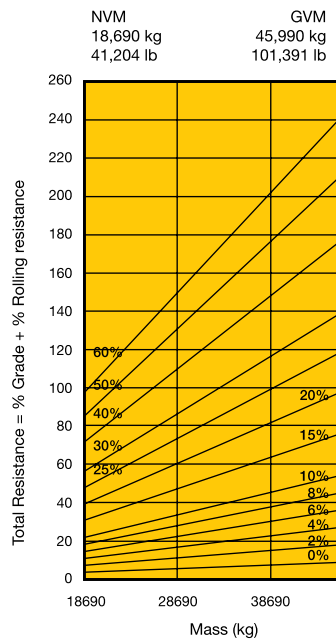
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ARTICULATED DUMP TRUCK
MKVI

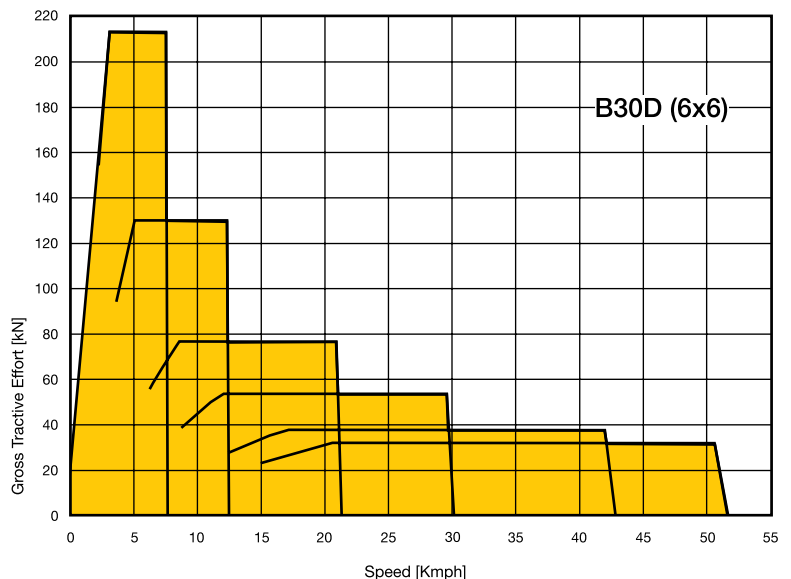
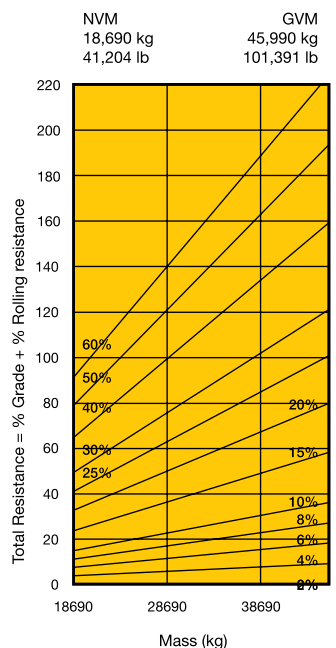
LOAD CAPACITY & GROUND PRESSURE

WEIGHTS			GROUND PRESSURE			LOAD CAPACITY		
UNLADEN	kg	lbs	UNLADEN	kPa	psi	BODY	m³	cu.yd
Front	9,710	21,407	Front	95	13.8	Struck Capacity	13	17
Middle	4,490	9,899	Middle	47	6.8	SAE 2:1 Capacity	17	22.2
Rear	4,490	9,899	Rear	46	6.7	SAE 1:1 Capacity	20,5	26.8
Total	18,690	41,204	Total			SAE 2:1 Capacity with Autogate	17,5	22.9
LADEN			LADEN					
Front	13,350	29,432	Front	264	38.2			
Middle	16,320	35,979	Middle	332	48.1	Rated Payload	27,300 kg	60,186 lbs
Rear	16,320	35,979	Rear	332	48.1			
Total	45,990	101,391						

GRADEABILITY/RIMPULL

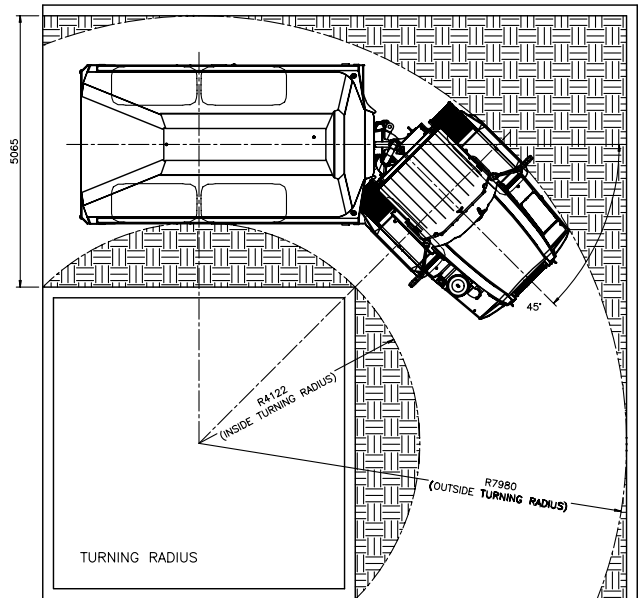
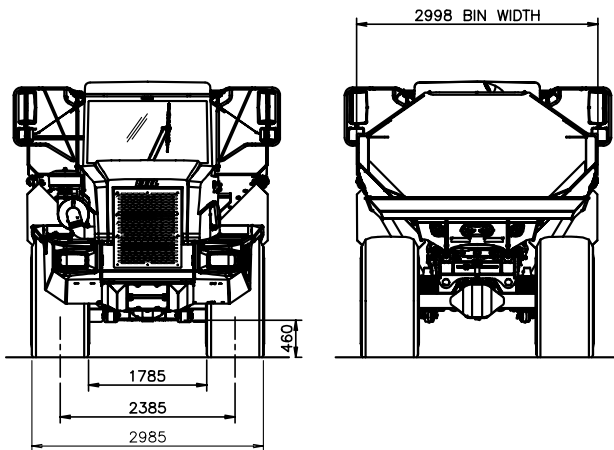
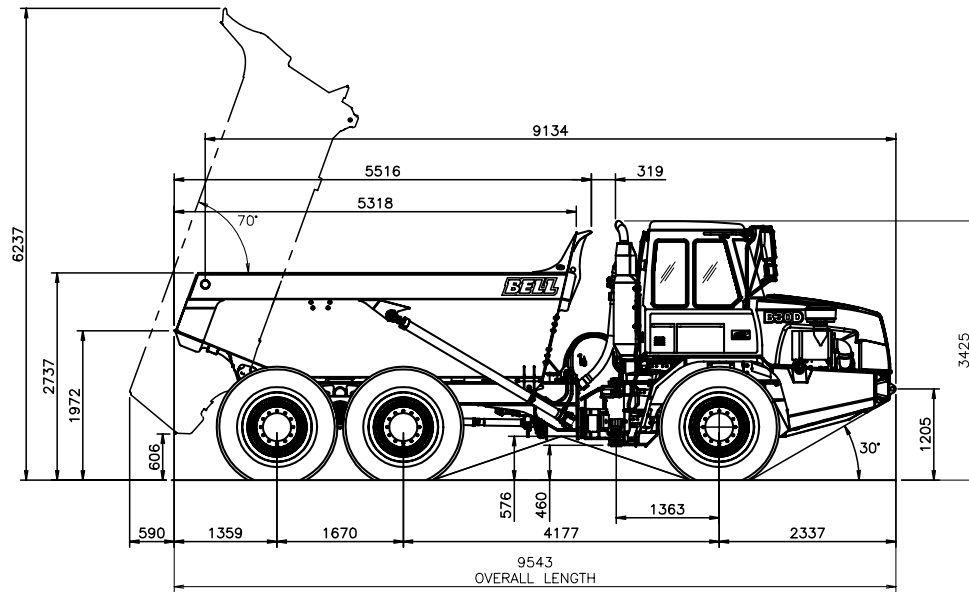


RETARDATION



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DIMENSIONS



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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 break 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**

BELL