

B25DN

ARTICULATED
DUMP TRUCK

AVAILABLE 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• Radio/CD/Tape• Memory Module• Air horn	Gauges	<ul style="list-style-type: none">• Engine coolant temperature• Engine oil pressure• Transmission oil temperature• Fuel• Tachometer• Battery voltage• Hourmeter• Odometer• System air pressure
		Vehicle	<ul style="list-style-type: none">• Ground driven emergency steering• Bin safety prop• Articulation lock• Integral transmission output retarder with 6 settings
MDU Features	<ul style="list-style-type: none">• Operator / Site selected speed control• Tipping counter• Trip timer• Trip distance• 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	Other	(Factory or field installed) <ul style="list-style-type: none">• On Board Weigh System (OBW)• Electrically adjustable rearview mirrors - one per side• 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• Provision for reverse camera• Wiggins quick fuelling system

*standard specification for machines may vary according to region

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What makes the B25DN a great performer...

- **With a highly efficient power and drivetrain combined with low rolling resistance, the Bell B25DN 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.
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



SPC/154/09/08 - B25D Review ADT (R10rev) Eng



- Gross power: 205 kw (275 hp)
- Gross torque: 1000 Nm (736 lbft) @ 1200 - 1600 rpm
- Load capacity: 13,8 m³ SAE 2:1 heaped



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

Gross power 205 kW (275 hp) @ 2 200 rpm
Net Power 198 kW (265 hp) @ 2 200 rpm
Gross torque 1 000 Nm (736 lbf) @ 1 200 -1 600 rpm
Net torque 970 Nm (714 lbf) @ 1 200 -1 600 rpm

Displacement 6,37 litres (389 cu.in)
Fuel tank capacity 340 l (90 US gal)
Auxilliary Brake Exhaust brake
Engine Valve Brake (EVB)

Certification OM 906 LA.111/4-00 meets Europe (EU) step2;
Non Regulated OM 906 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. Hydrodynamic with lock-up in all gears.

Torque Converter 6HP592C Ecomat 2 plus Electronic

Model Control Type

TRANSFER BOX Remote mounted VGR

Manufacturer 13100
Model Three in-line helical gears.
Layout 67/33 torque proportioning.
Output Differential 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 15T

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)
AUXILLIARY BRAKE Automatic exhaust brake and Engine Valve Brake (EVB)

Maximum retardation 442 kW (593 hp)

WHEELS Earthmover

Tyre 23.5R25
Optional tyre 20.5R25

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

Flow 184 l/min (48.6 gal/min)
Pressure 25 Mpa (3915 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 810 kPa (117 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

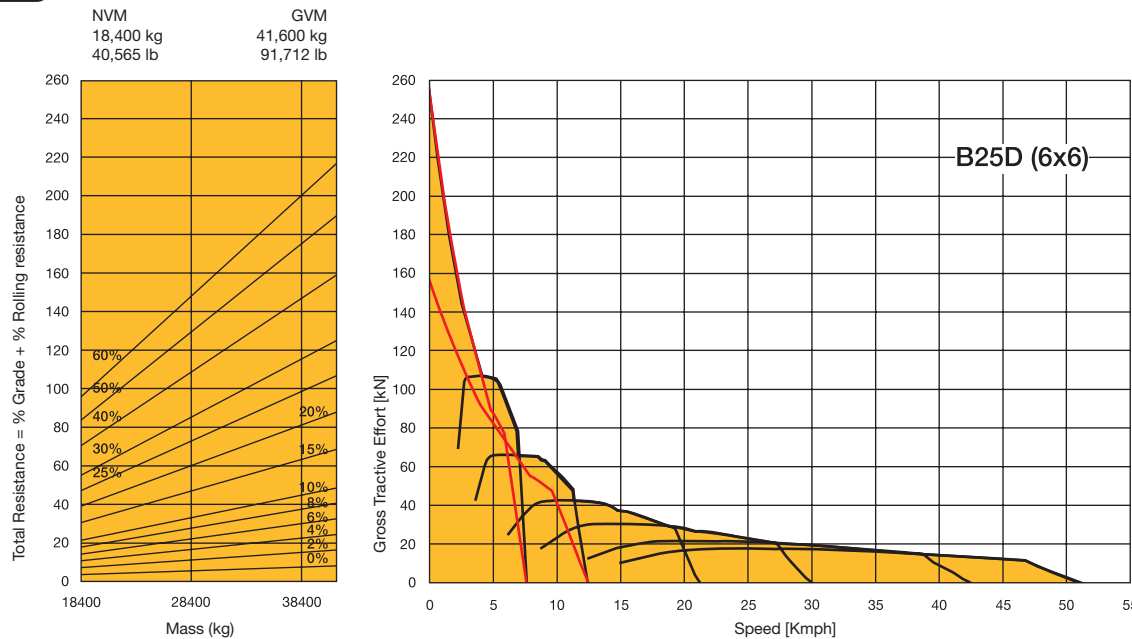
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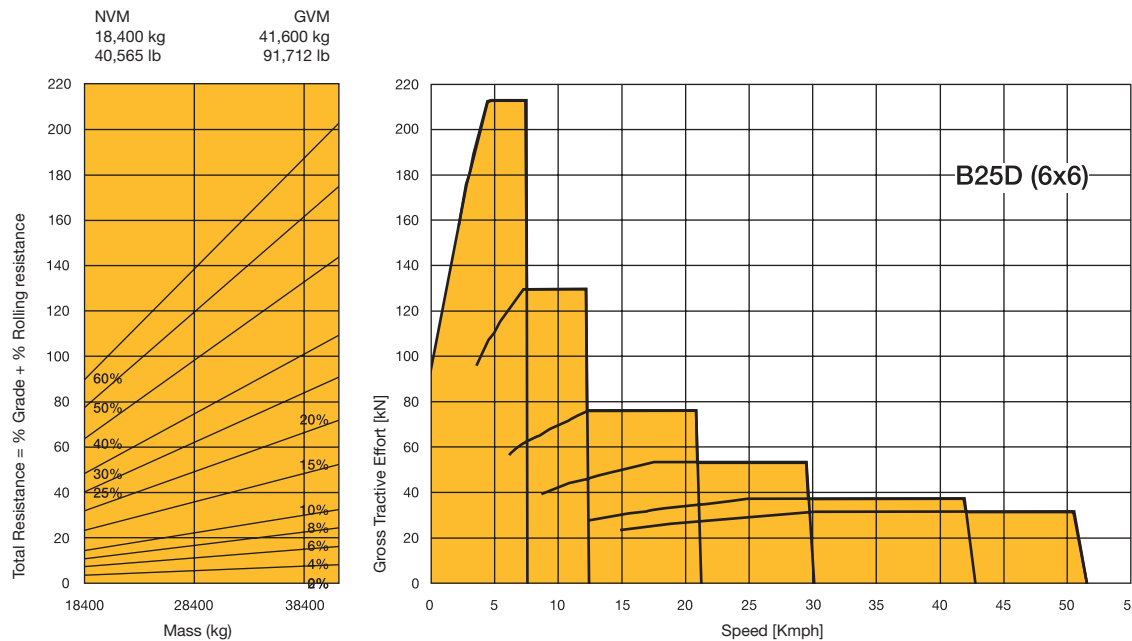
LOAD CAPACITY & GROUND PRESSURE

WEIGHTS			GROUND PRESSURE			LOAD CAPACITY		
			At 15% sinkage of unloaded radius and specified weights					
UNLADEN	kg	lbs	UNLADEN	kPa	psi	BODY	m³	cu.yd
Front	9,620	21,208	Front	92	3.5	Struck Capacity	10,5	13.7
Middle	4,420	9,744	Middle	43	6	SAE 2:1 Capacity	13,8	18.1
Rear	4,360	9,612	Rear	41	6	SAE 1:1 Capacity	16,9	22.1
Total	18,400	40,565	Total			SAE 2:1 Capacity with Autogate	14,5	19
LADEN			LADEN			Rated Payload	23 200 kg	51,147 lbs
Front	12,860	28,351	Front	250	36			
Middle	14,400	31,747	Middle	303	44			
Rear	14,340	31,614	Rear	302	44			
Total	41,600	91,712						

GRADEABILITY/RIMPULL



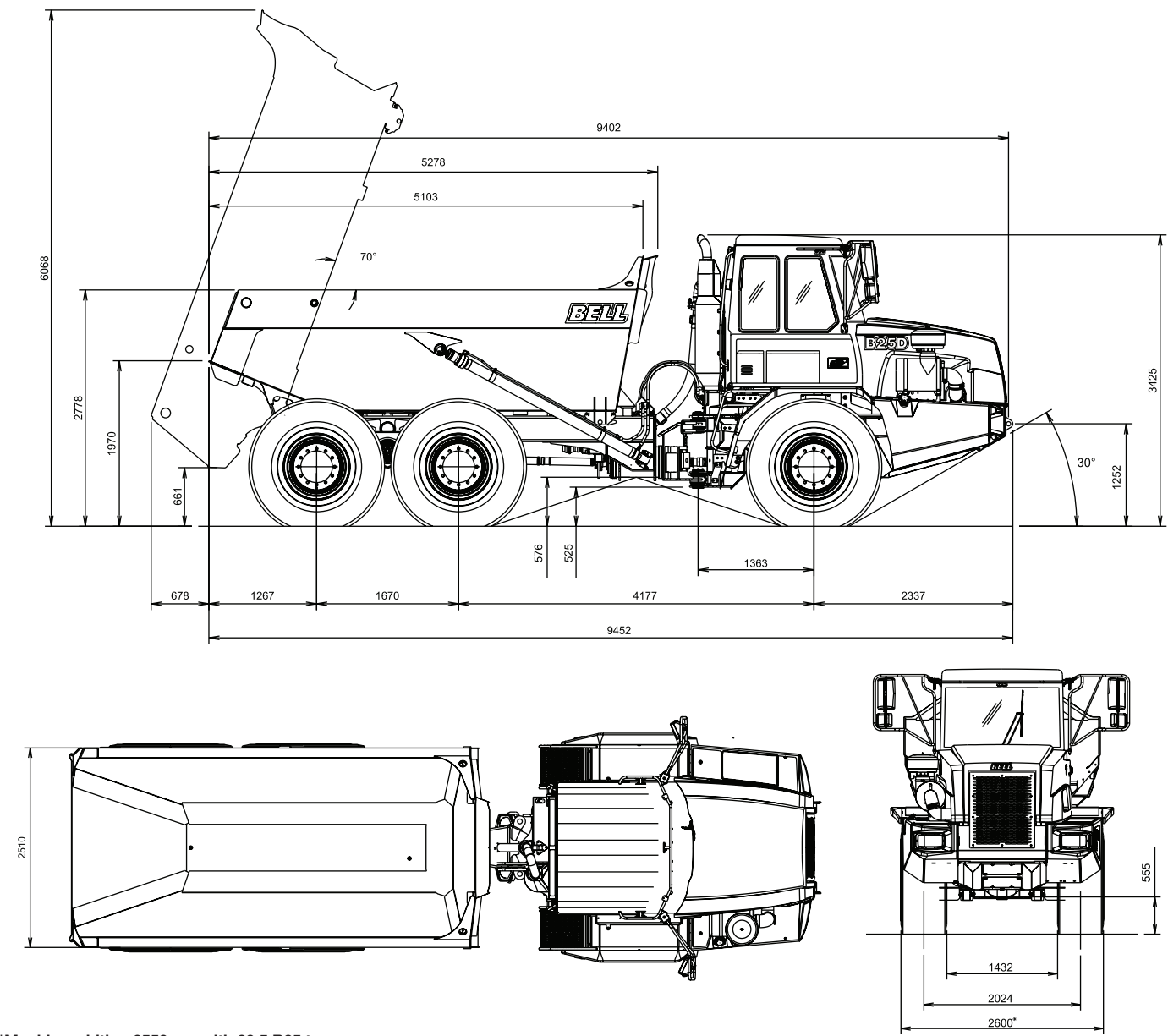
RETARDATION



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DIMENSIONS



*Machine width = 2550mm with 20.5 R25 tyres