

# B25D 6x6

**ARTICULATED  
DUMP TRUCK  
Mk VI**



Gross Power: 205 kw (275 hp)  
Gross Torque: 1 000 Nm (735 lbft)  
Rated Payload: 23 200 kg (51,147 lbs)

**BELL**



# B25D 6x6 ARTICULATED DUMP TRUCK MkVI

## ENGINE

|                    |  |
|--------------------|--|
| Gross power        | Mercedes Benz inline 6 cylinder, turbocharged, intercooled, low emission diesel engine |
| Net Power          | 205 kW (275 hp) @ 2 200 rpm  |
| Gross torque       | 198 kW (265 hp) @ 2 200 rpm  |
|                    | 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)  |
| Auxiliary Brake    | Exhaust brake<br>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

|                  |  |
|------------------|--|
| Torque Converter | Engine mounted, fully automatic ZF planetary transmission with six forward gears and one reverse gear. Hydrodynamic with lock-up in all gears. |
| Model            | 6HP592C Ecomat 2 plus  |
| Control Type     | Electronic   |

## TRANSFER BOX

|                     |   |
|---------------------|---|
| Manufacturer        | Remote mounted 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 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)<br>Variable Adjustable Hydraulic Retarder |
| Maximum retardation | 442 kW (593 hp)  |



## WHEELS

|      |                    |
|------|--------------------|
| Tyre | Earthmover 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 (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 |



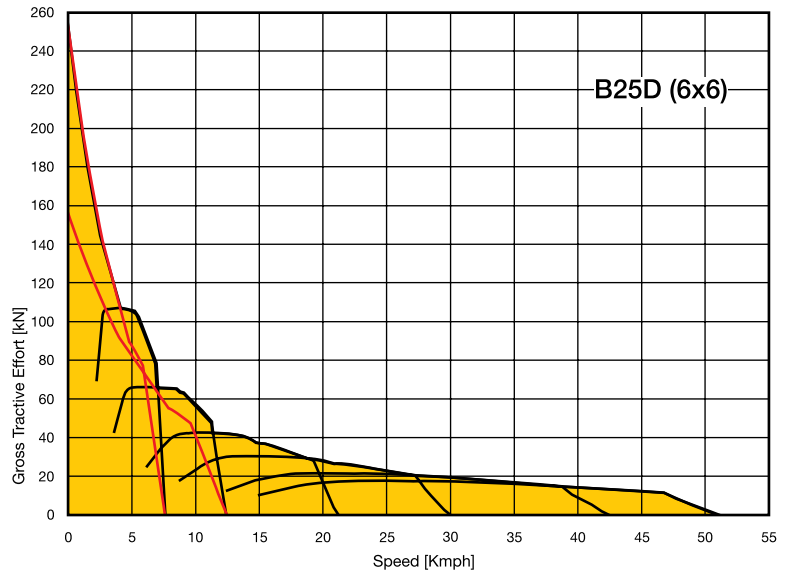
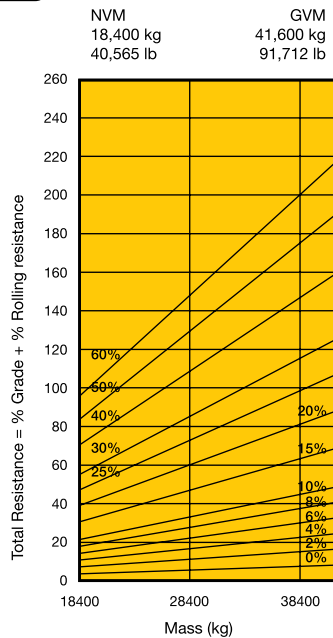
# B25D 6x6

## ARTICULATED DUMP TRUCK MkVI

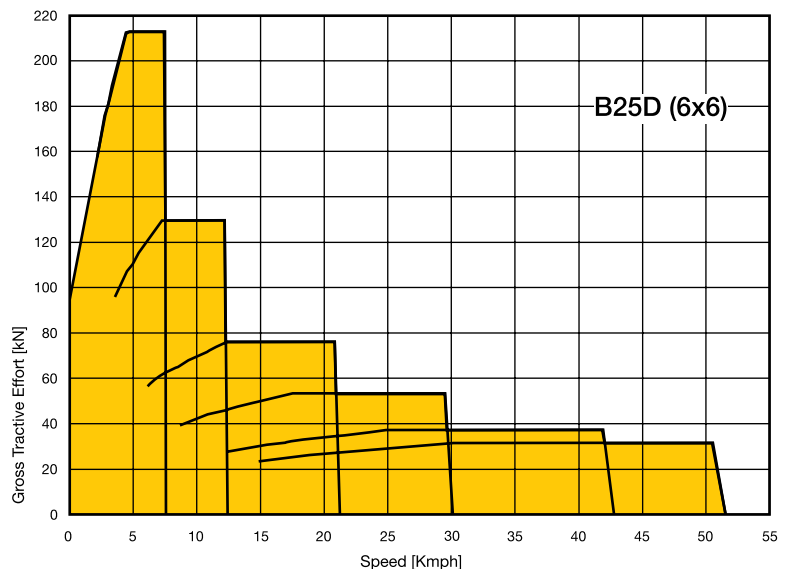
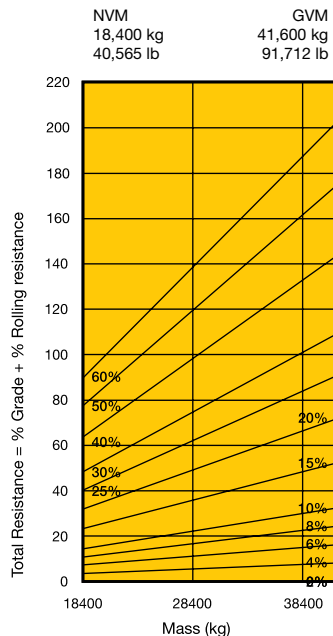
### LOAD CAPACITY & GROUND PRESSURE

| WEIGHTS |        |        | GROUND PRESSURE |     |      | LOAD CAPACITY                  |           |            |
|---------|--------|--------|-----------------|-----|------|--------------------------------|-----------|------------|
| UNLADEN | kg     | lbs    | UNLADEN         | kPa | psi  | BODY                           | m³        | cu.yd      |
| Front   | 9,620  | 21,208 | Front           | 92  | 3.5  | Struck Capacity                | 11        | 14.4       |
| Middle  | 4,420  | 9,744  | Middle          | 43  | 6    | SAE 2:1 Capacity               | 14        | 18.3       |
| Rear    | 4,360  | 9,612  | Rear            | 41  | 6    | SAE 1:1 Capacity               | 18        | 23.5       |
| Total   | 18,400 | 40,565 | Total           |     |      | SAE 2:1 Capacity with Autogate | 14,5      | 19         |
| LADEN   |        |        | LADEN           |     |      |                                |           |            |
| Front   | 12,860 | 28,351 | Front           | 245 | 35.5 |                                |           |            |
| Middle  | 14,400 | 31,747 | Middle          | 285 | 41.3 | Rated Payload                  | 23 200 kg | 51,147 lbs |
| Rear    | 14,340 | 31,614 | Rear            | 285 | 44   |                                |           |            |
| Total   | 41,600 | 91,712 |                 |     |      |                                |           |            |

### GRADEABILITY/RIMPULL

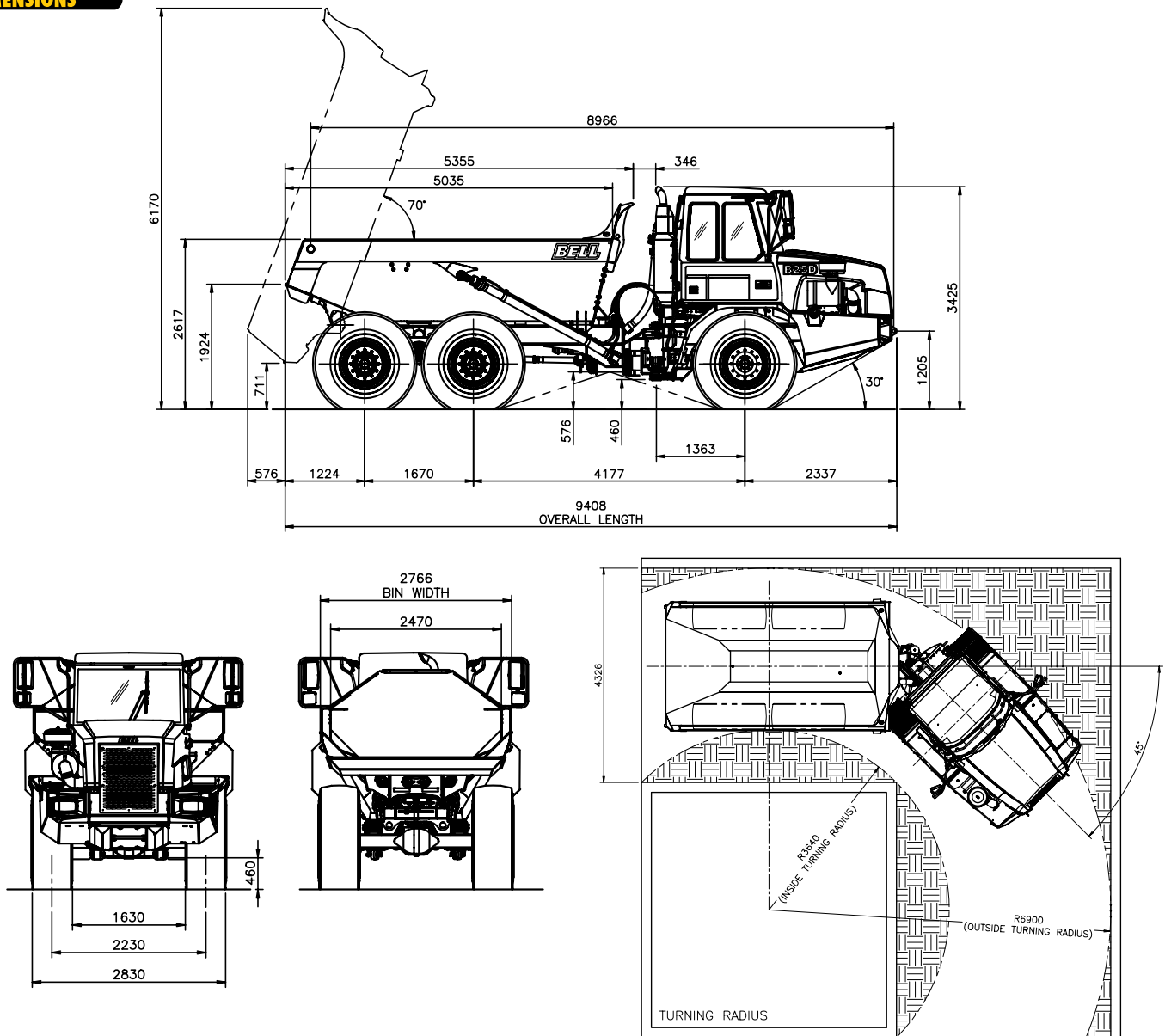


### RETARDATION



# B25D 6x6 ARTICULATED DUMP TRUCK MkVI

## DIMENSIONS





# B25D 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
- 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
- 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)
- 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
  - System for reverse camera
  - Wiggins quick fuelling system
  - Tyre pressure monitoring

\*standard specification for machines may vary according to region



## What makes the B25D a great performer...

- **With a highly efficient power and drivetrain combined with low rolling resistance, the Bell B25D 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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**Strong Reliable Machines  
Strong Reliable Support**

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