



# AD25B

6x4 and 6x6  
Articulated Dump Truck



**B U I L T   A F R I C A   T O U G H**

Designed and Manufactured in South Africa



### Axles

|       |   |   |
|-------|---|---|
| Front | : | Desmond Axle with self leveling air bag suspension  |
| 6x6   | : | Hypoid differential with final drive reduction  |
| 6x4   | : | Non-drive 15 tonne  |
| Rear  | : | DESMOND tandem drive free swinging walking beam. Hypoid differential with reduction in tandem |

### Steering

- Articulated with 40° steering angle either side
- Load-sensing, orbital-controlled
- 

### Tyres

Front / Rear : 20.5R 25 Radial

### Frame

Heavy duty robust frame, front and rear with tube type oscillation, adjustable.

### Electrics

|            |   |  |
|------------|---|--|
| Voltage    | : | 24 Volt                                |
| Battery    | : | 2 x 12 Volt sealed type - 102 Amp / Hr |
| Alternator | : | 24 Volt / 70 Amp                       |

### Brakes

|                |   |  |
|----------------|---|--|
| Front 2 wheels | : | Air-operated S-cam failsafe drum brakes                      |
| Rear 4 wheels  | : | Air over hydraulic disc brakes                               |
| Park Brake     | : | Air-operated failsafe disc brake on propshaft and front axle |

### Cab Features

- ROPs and FOPs certified
- Rubber mounted
- Adjustable suspension seat with seat belt
- Trainer driver seat
- Air conditioner and tinted windows
- Orange beacon light and rear work lights
- Dashboard with full instrumentation
- Interior dome light
- Front & Rear windscreen wipers
- Noise Level 87db
- Engine Monitoring System AMS50

### Pneumatic System

|                  |   |  |
|------------------|---|--|
| Capacity         | : | 80 Liters                                    |
| Working pressure | : | 120 Psi (8.1 Bar) with dual circuit unloader |

### Engine

|          |   |                   |
|----------|---|-------------------|
| Type     | : | Cummins           |
| Model    | : | QSB 260 - TIER 3  |
| Capacity | : | 6.7 Liters        |
| Power    | : | 194kW @ 2200 RPM  |
| Torque   | : | 990 Nm @ 1500 RPM |

### Loadbin Volume

SAE 1:1 - 16.30m³    SAE 2:1 - 14m³    STRUCK - 10.10m³

### Transmission

|                  |   |  |
|------------------|---|--|
| Type             | : | ZF   |
| Model            | : | 6WG210   |
| Gearing          | : | Constant mesh counter shaft with integral drop box.                                    |
| Gears            | : | Forward - 6<br>Reverse - 3   |
| Speed            | : | 65Km/H   |
| Torque Converter | : | Single phase 3 element, lock-up clutches effective in all gears. Downshift protection. |
| Diff Lock        | : | Inter axle lock  |

### Hydraulic System

|                  |   |  |
|------------------|---|--|
| Oil Capacity     | : | 170 Liters   |
| Pumps            | : | Fixed displacement external gear pump                        |
| Working Pressure | : | Steering - 17 Mpa<br>Tipping - 5 Mpa<br>Full flow filtration |

### Service Capacities

|                         |   |                   |
|-------------------------|---|-------------------|
| Cooling System          | : | 50 Litres         |
| Engine Crankcase        | : | 24 Litres         |
| Front Axle Differential | : | 20 Litres         |
| Rear Axle Differential  | : | 20 Litres         |
| Transmission            | : | 18 Litres         |
| Front Planetaries       | : | 5 Litres          |
| Diesel Tank             | : | 250 Litres        |
| Tandems                 | : | 110 Litres (each) |

### Standard Equipment

- Emergency braking
- Front tow hooks
- Hinged belly plate under engine
- Air cleaner service indicator
- Rear window guard
- Back-up alarm
- Bin-up alarm
- Full road ordinance lights
- Wheel mud flaps

### Optional Equipment

- Radio/Tape
- Tachograph
- Bin Liner kit
- Light guards

### Operational Weights

|              | Tare           | Gross        | Payload      |
|--------------|----------------|--------------|--------------|
| Front Axle   | : 8700         | 13674        | 4974         |
| Middle Axle  | : 4840         | 14853        | 10013        |
| Rear Axle    | : 4840         | 14853        | 10013        |
| <b>TOTAL</b> | : <b>18380</b> | <b>43380</b> | <b>25000</b> |

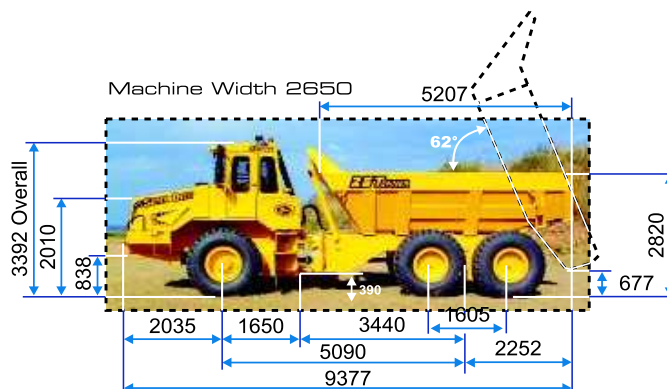
### Tipping Times (Approx.)

Up - 16 Seconds      Down - 20 Seconds

# DESMOND EQUIPMENT

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Dimensions are approximate