



AD20B

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



Axes

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
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Frame

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

Electrics

Voltage	:	24 Volt
Battery	:	2 x 12 Volt sealed type
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
- Windscreen wiper

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 - 14.40m³	SAE 2:1 - 11.20m³	STRUCK - 8.10m³
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Transmission

Type	:	ZF
Model	:	6WG210
Gearing	:	Constant mesh counter shaft with integral drop box.
Gears	:	Forward - 6 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 Tipping - 5 Mpa Full flow filtration

Service Capacities

Cooling system	:	50 Litres
Engine Crankcase	:	24 Litres
Rear Axle Differential	:	20 Litres
Transmission	:	18 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

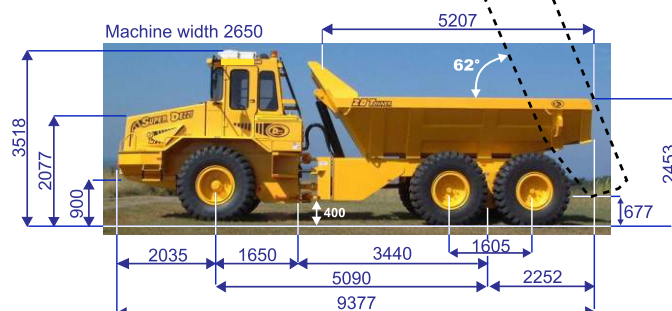
- Radio/Tape
- Tachograph
- Bin Liner kit
- Engine monitoring system
- Light guards

Operational Weights

	Tare	Gross	Payload
Front Axle	: 8520	10240	1720
Middle Axle	: 4440	13580	9140
Rear Axle	: 4440	13580	9140
TOTAL	: 17400	37400	20000

Tipping Times (Approx.)

Up - 16 Seconds Down - 20 Seconds



Dimensions are approximate

DESMOND EQUIPMENT

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Desmond Equipment S.A. reserves the right to modify specifications without notice.

DEALER