BERTICULATED DBSA4 MKVII

B20D



Gross Power: 170 kw (228 hp) Gross Torque: 810 Nm (597 lbft) Rated Payload: 18 000 kg



BELL

E20D6x4 CULATED P TRUCK ШVz

| | | \sim |
|--|---|--------------|
| EXCENTE Configuration Aspiration Cooling system Gross power Net Power Gross torque Net torque Displacement Fuel tank capacity | Mercedes Benz OM906LA I-6 with exhaust brake and Engine Valve Brake (EVB) Turbocharged and intercooled Single pass radiator & charge air cooler 170 kW (228 hp) @ 2,200 rpm SAE J1349 165 kW (221 hp) @ 2,200 rpm 810 Nm (597 lbft) @ 1,050 -1,850 rpm SAE J1349 780 Nm (575 lbft) @ 1,050 -1,850 rpm 6,37 litres (389 cu.in) 200 I (58 US gal) | |
| TRANSMISSION | | |
| Layout Gear layout | Anison 3000P ORS (with optional retarder) Engine mounted box with rear output Constant meshing planetary gears Hydraulically operated | |
| Clutch type Torque converter layout | multidisc Hydrodynamic, with lock-up in all gears | SUS |
| TRANSFER BOX Output differential | VGR 13 100 Interaxle 50/50 proportional differential, pneumatically lockable whilst stationary or on the move. | Fron Rear |
| AXLES Differential type | Bell 14T Spiral bevel type with Limited Slip | |
| Final drive type | Outboard heavy duty planetary | |
| Housing type | Steel fabricated | HY |
| BRAKING SYSTEM Service Brake |) Dual circuit, full hydraulic actuation caliper brakes on all | SYS |
| Maximum brake force PARK & EMERGENCY | wheels 164 kN (36,900 lbf) Spring applied, air released driveline mounted disc. | Flow Pres |
| | 396 kN (89,000 lbf) | Filte |
| Maximum brake force AUXILLIARY BRAKE Maximum retardation | Automatic exhaust brake and Engine Valve Brake (EVB) 442 kW (593 hp) | PN SYS |



WHEELS Tyre: Size Type Maximum ground pressure (laden)

20,5R25 Radial Earthmover 134 kPa (19 psi)



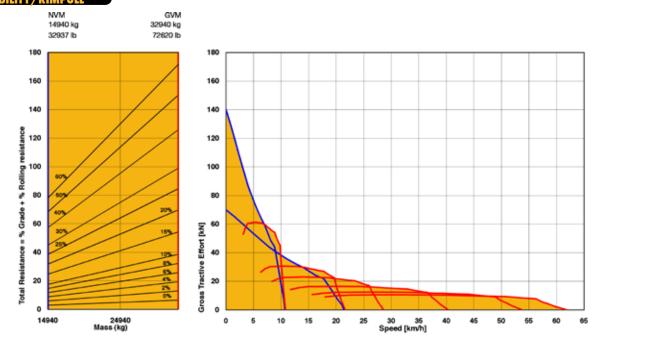
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|-------|----------------------|------------------------------------|--------|-----------------------|-------------|--------------------|
| | SUSPENSION SYSTEM | | | ELECTRICAL SYSTEM | | |
| | Front: Type | Semi-independent leading | | Voltage | 24 V | |
| al | | arm type linkages supported | | Battery Type | Two mainte | enance free |
| | | by nitrogen/oil struts | | | permanentl | v sealed |
| or | Rear: Type | Pivoting walking beams | | Battery capacity | | (optional 2 extra |
| | | equalize the load on | | | batteries) | |
| | | each axle with laminated | | Alternator rating | 28 V 80 A | |
| | | suspension blocks. Each | | / literinator running | 2010071 | |
| ted | | axle is coupled to the | | STEERING | Hydrostatic | cally actuated |
| | | chassis by a system of four | | SYSTEM | by two dou | |
| | | rubber-bushed links for ideal | | | | with ground-driven |
| | | verticalmovement. | | | | steering pump. |
| | | venticalmovernent. | | Angle | +- 45 degre | |
| | | Variable displacement with | | Lock to lock turns | 4,1 | |
| | SYSTEM | load sensing system. A | | LUCK TO TOCK TOTTIS | 4,1 | |
| | JIJIEM | ground-driven, load sensing | | VEHICLE SPEEDS | km/h | mph |
| n all | | emergency steering pump | | lst | 8 | 5 |
| | | is integrated into the main | | 2nd | 13 | 8 |
| | | system | | 3rd | 22 | 13.7 |
| d | Flow | 184 l/min (48.6 US gal/min) | | 4th | 31 | 19.3 |
| - L | Pressure | 25 MPa (3,915 psi) | | 5th | 45 | 28 |
| | Filter | 10 micron | | 6th | 40 50 | 31 |
| and | rinei | | | R | 9 | 5.6 |
| | PNEUMATIC | Air drier with heater and integral | | N | 9 | 5.0 |
| | SYSTEM | unloader valve, serving park | | | | |
| | STSTEM | <i>,</i> 01 | | | | |
| | Custom measure | brake and auxiliary functions | | | | |
| | System pressure | 850 kPa (123 psi) | | | | |
| | DUMPING | | | | | |
| | SYSTEM | | | | | |
| | | 10 - | | | | |
| | Raise time | 12 s | | | | |
| | Power down time | 6,0 s 70° | | | | |
| | Tipping angle | 70° | | | | |



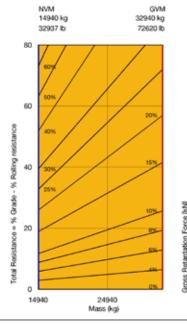
LOAD CAPACITY & GROUND PRESSURE

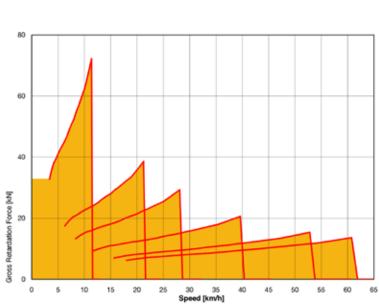
| WEIGHTS | | GROUND PRESSURE | | | PACITY | OPTION WEIGHTS | |
|---------|--------|-----------------|-----|------------------|----------------|----------------|-----|
| UNLADEN | kg | LADEN | kPa | BODY | m ³ | | kg |
| Front | 7,520 | Front | 207 | Struck Capacity | 8,5 | Bin liner | - |
| Middle | 3,520 | Middle | 293 | SAE 2:1 Capacity | 11 | Tailgate | - |
| Rear | 3,250 | Rear | 291 | SAE 1:1 Capacity | 13,6 | Extra wheelset | 361 |
| Total | 14,290 | | | SAE 2:1 Capacity | | | |
| LADEN | | | | with Autogate | N/A | | |
| Front | 8,402 | | | | | | |
| Middle | 12,079 | | | Rated Payload | 18 000 kg | 1 | |
| Rear | 11,809 | | | | | | |
| Total | 32,290 | | | | | 1 | |

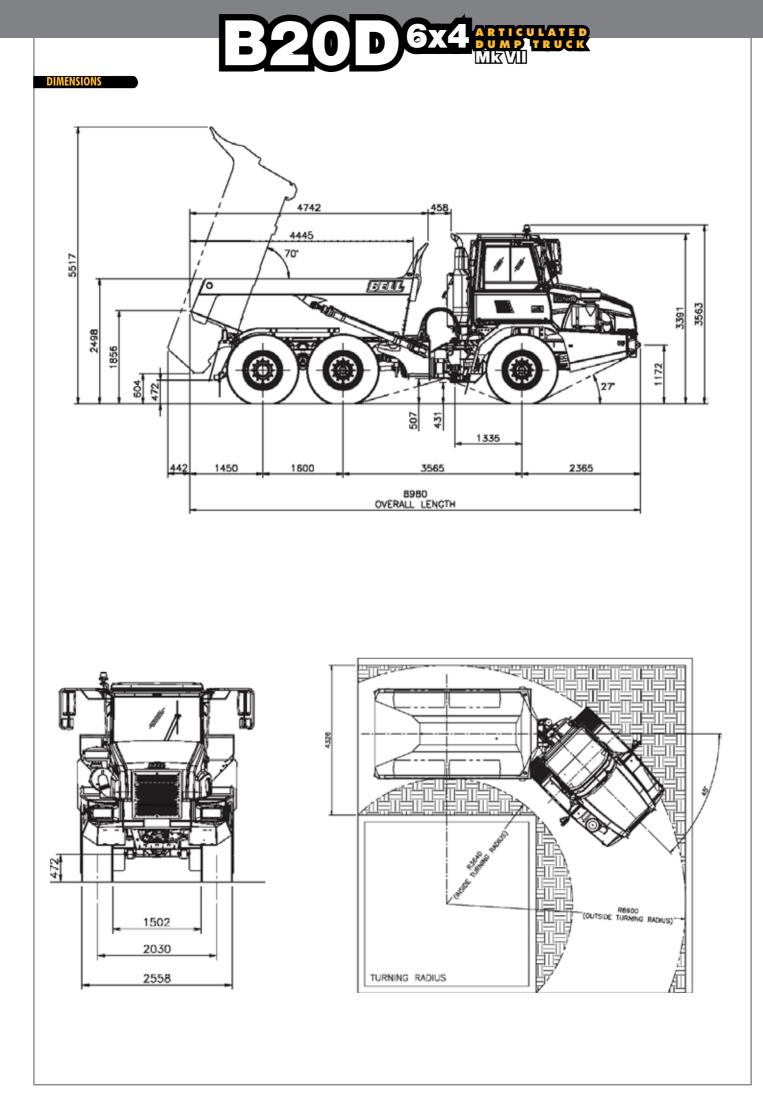














AVAILABLE EQUIPMENT*

| Cab | ROPS/FOPS certification | Gauges | • Engine coolant temperature |
|--------------|--|--------------------|---|
| | Protective rear window guard | | Engine oil pressure |
| | Tilt cab for service access | | Transmission oil temperature |
| | Gas strut supported door | | • Fuel |
| | Tinted safety glass | | Tachometer |
| | Sliding windows | | Battery voltage |
| | Rear view mirrors - regular and wide angle | | Hourmeter |
| | Sun visor | | Odometer |
| | Wiper/washer with intermittent control | | System air pressure |
| | Tilt and telescoping steering wheel | | Bystern an procedure |
| | | Vehide | Cround driven emergency atopring |
| | Adjustable, air suspension seat with retroctable aget belt | | Ground driven emergency steering Bip opfaty prop |
| | retractable seat belt | | Bin safety prop |
| | Fold-away trainer seat with retractable | | Articulation lock |
| | seat belt | | Integral transmission output retarder |
| | HVAC climate control system with | | with 6 settings (optional) |
| | filtered and ducted air | | |
| | Rotating beacon | Other | (Factory or field installed) |
| | 12 V power outlet/12 V cigarette lighter | | On Board Weigh System (OBW) |
| | Ash tray | | Electrically adjustable rearview |
| | Drinks holder | | mirrors - one per side |
| | Cooled/heated lunch box | | Groeneveld auto greasing system |
| | I-Tip programmable bin tip | | Retractable sun visor |
| | Sound insulated to 76 dB(A) to ISO 6396 | | Exhaust body heating |
| | Radio/CD/Tape | | Autogate |
| | Memory Module | | Body liners |
| | Air horn | | |
| | ■ AIL HOTT | | Fleetmatic Satellite Monitoring System Driver ID and immobiliser |
| MDU Features | | | |
| MDU rediures | Operator / Site selected speed control | | Forward working lights |
| | Tipping counter | | Artic reverse light |
| | Trip timer | | Fuel heater |
| | Trip distance | | External windshield visor |
| | Transmission gear selection | | Headlight protection grills |
| | Fuel Consumption | | Rear window wiper |
| | Diagnostics | | Antenna mounting bracket |
| | Intermittent wiper timing control | | System for reverse camera |
| | Speedo calibration for alternative | | Wiggins quick fuelling system |
| | tvre sizes | | Tyre pressure monitoring |
| | Metric /Imperial unit selection | | , |
| | Warning lights with audible buzzer | | |
| | | *standard specific | cation for machines may vary according to region |





• The exclusive onboard weighing option presents the operator with real time information on the payload while the machine is being loaded. A 'limp home' mode can also be activated if the machine is significantly over-loaded.

Pauload

• The park brake automatically applies when neutral is selected and it is not possible to engage neutral at speed. Tourque dependent park brake release (hill assist) ensures no roll back on slopes.



• The incorporation of a Pitch and Roll sensor in the vehicle allows the bin to not be operated if the truck is in an unsafe position.



• Full hand-rails kit can be installed to provide even more safety when performing engine checks.



• Keyless start, driver identity, and access codes ensures no unauthorized operation of your equipment.

D Ň .

 Both operator or site selectable maximum speed control allows the vehicle to automatically de-accelerate and apply the retarder to prevent onsite speeding.



• Reverse cameras are available for factory or on site fitment ensuring full view when reversing.



• Optional Tyre pressure - monitoring System ensures that the operator has real time information on all tyres pressure and temperature conditions.



• The best in class retarder and engine braking automatically applies when the operator lifts his foot off the accelerator. Retarder aggressiveness can be simply adjusted on the sealed switch module ensuring maximum descent control for all conditions.

• All trucks can be set up to automatically sound the horn when starting or switching between forward and reverse.

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.



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