

B45D 6x6 ARTICULATED DUMP TRUCK Mk VI



Blu@dvantage™

Gross Power: 375 kW (503 hp)
Gross Torque: 2 400 Nm (1 770 lbft)
Rated Payload: 41 000 kg (90 389lbs)

BELL

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ENGINE

Mercedes Benz OM502LA BlueTec[®] technology V-8 Turbocharged and intercooled

Configuration
Aspiration

Cooling system

Certification
Regulated

Gross power 375 kW (503 hp) @ 1 800 rpm SAE J1349

Nett power 364 kW (488 hp) @ 1 800 rpm

Gross Torque 2 400 Nm (1 770 lbf) @ 1 200 rpm SAE J1349

Nett Torque 2 328 Nm (1 717 lbf) @ 1 200 rpm

AdBlue Tank Capacity 66 l (17.4 US gal)

Displacement 15,93 litres (730 cu.in)

Fuel tank capacity 575 litres (152 US gal)

Auxilliary Brake Automatic exhaust brake Engine Valve Brake (EVB)

TRANSMISSION

Full automatic planetary transmission with integral retarder

Layout

Gear layout Engine mounted with rear output Constant meshing planetary gears, clutch operated

Gears 6 Forward, 1 Reverse

Clutch type Hydraulically operated multi-disc

Control type Electronic

Torque converter layout Hydrodynamic, with lock-up in all gears

TRANSFER CASE

AGR 17100 Three in-line helical gears Interaxle 33/67 proportional differential, pneumatically/spring lockable whilst stationary or on the move.

WHEELS

Tyre size 29,5 R25

Type Radial Earthmover

AXLES

High strength steel fabricated with spiral bevel type gears on the Controlled Traction differential and heavy duty outboard planetary gears.

Final drive type Outboard heavy duty planetary on all axles

Housing type Steel fabricated

BRAKING SYSTEM

SERVICE BRAKE Dual circuit, full hydraulic oil immersed wet multi-disc brakes on all three axles

Maximum brake force 399 kN (89,699 lbf)

PARK & EMERGENCY Spring applied, air released driveline mounted disc.

Maximum brake force 440 kN (98,920 lbf)-Static
105 kN (23,605 lbf)-Dynamic

RETARDATION SYSTEM

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

Maximum retardation power 340 kW (456 hp)

TRANSMISSION RETARDER

Integral hydrodynamic, output speed dependant, six selectable levels of retardation

Total retardation power (excl. service brakes) 447 kW (600 hp)

SUSPENSION

Front type Semi-independent leading A-frame supported by nitrogen/oil struts

Rear type Pivoting walking beams equalize the load on each axle with laminated suspension blocks. Each axle is coupled to the chassis by a Tri-Link system of three rubber-bushed links for ideal vertical movement and a transverse link for lateral restraint

HYDRAULIC SYSTEM

Variable displacement with load sensing system serving the prioritized steering, body tipping, suspension and brake functions. A ground-driven, load sensing emergency steering pump is integrated into the main system

Pump Type Variable displacement, load sensing piston

Application Steering, tipping, hydraulic brake charging, suspension and cooling fan drive

Flow 350 l/min (92.5 US gal/min)

Pressure 25 MPa (3,626 psi)

Filter 5 micron

PNEUMATIC SYSTEM

Air drier with heater and integral unloader valve, serving park brake and auxiliary functions

System pressure 750 kPa (109 psi)

ELECTRICAL SYSTEM

Voltage 24 V

Battery type Two maintenance free permanently sealed

Battery capacity 2 x 105 Ah (optional 2 extra batteries)

Alternator rating 28 V 80 A

STEERING SYSTEM

Hydrostatically actuated by two double acting cylinders, with ground-driven emergency steering pump.

Angle +- 42°

Lock to lock turns 4,2

DUMPING SYSTEM

Two double-acting, single stage, dump cylinders

Raise time 11,2 s (60° tip angle)

Power down time 9,9 s (60° tip angle)

Tipping angle 70° standard, or any lower angle programmable

VEHICLE SPEEDS

1st	6,7 km/h	(4,1 mph)
2nd	14,1 km/h	(8,8 mph)
3rd	20,4 km/h	(12,7 mph)
4th	31,2 km/h	(19,4 mph)
5th	40,9 km/h	(25,4 mph)
6th	46,5 km/h	(28,9 mph)
Reverse	6,4 km/h	(4,0 mph)

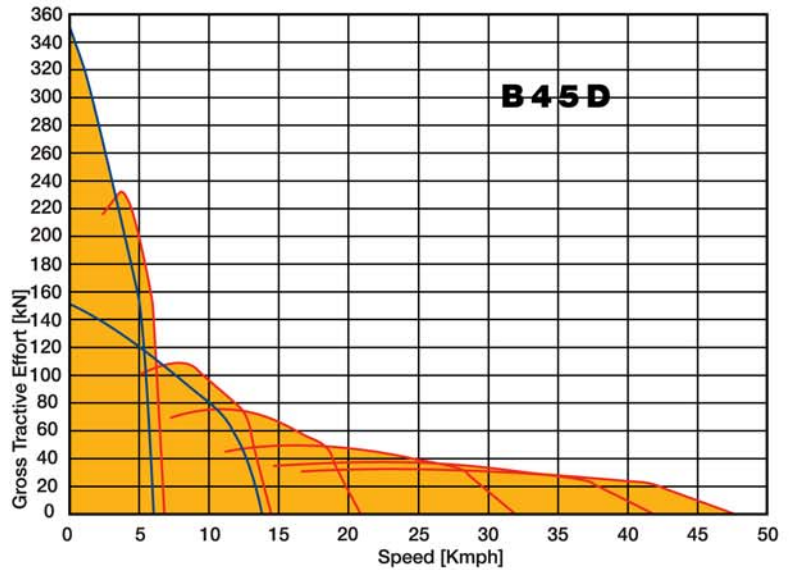
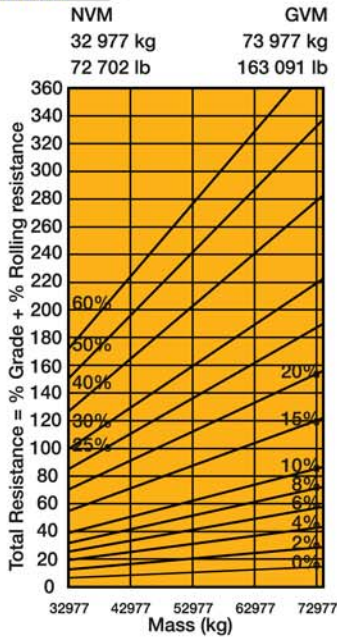


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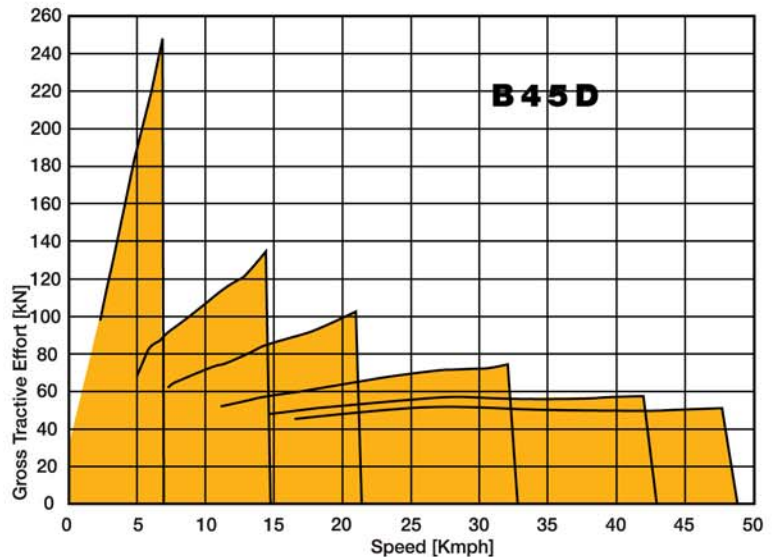
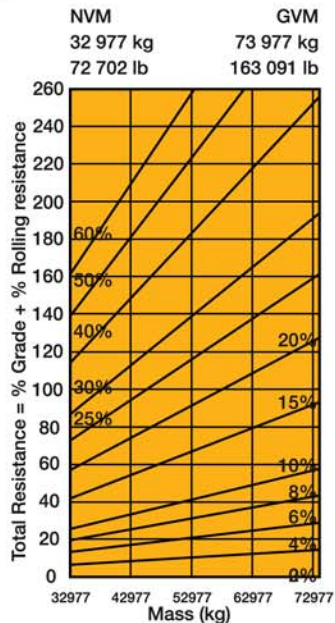
LOAD CAPACITY & GROUND PRESSURE

WEIGHTS			GROUND PRESSURE			LOAD CAPACITY		
UNLADEN	kg	lbs	UNLADEN	kPa	psi	BODY	m ³	cu.yd
Front	17,230	37,986	Front	266	39	Struck Capacity	20	26.16
Middle	7,890	17,394	Middle	257	37	SAE 2:1 Capacity	25,5	33.36
Rear	7,860	17,328	Rear	257	37	SAE 1:1 Capacity	31	40.55
Total	32,980	72,708				SAE 2:1 Capacity with Autogate		
LADEN			LADEN				26,5	34.67
Front	21,190	46,716	Front	283	41			
Middle	26,410	58,224	Middle	348	50	Rated Payload	41,000 kg	90,389 lbs
Rear	26,380	58,158	Rear	347	50			
Total	73 980	163 098						

GRADEABILITY/RIMPULL



RETARDATION



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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
- Electrically adjustable rearview mirrors - one per side
- 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
- External windshield visor
- Forward working lights

MDU Features

- Operator / Site selected speed control
- Tipping counter
- Trip timer
- Trip distance
- On Board Weigh System (OBW)
- Transmission gear selection
- Fuel Consumption
- Diagnostics
- Intermittent wiper timing control

Gauges

- Speedo calibration for alternative tyre sizes
- Metric /Imperial unit selection
- Warning lights with audible buzzer

Vehicle

- Engine coolant temperature
 - Engine oil pressure
 - Transmission oil temperature
 - Fuel
 - Tachometer
 - Battery voltage
 - Hourmeter
 - Odometer
 - System air pressure
- Groeneveld auto greasing system
 - Ground driven emergency steering
 - Bin safety prop
 - Articulation lock
 - Integral transmission output retarder with 6 settings

Other

- (Factory or field installed)
- Retractable sun visor
 - Exhaust body heating
 - Autogate
 - Body liners
 - Fleetmatic Satellite Monitoring System
 - Driver ID and immobiliser
 - Artic reverse light
 - Fuel heater
 - Headlight protection grills
 - Rear window wiper
 - Antenna mounting bracket
 - Provision for reverse camera
 - Wiggins quick fuelling system
 - Full handrail kit
 - Tyre pressure monitoring

*standard specification for machines may vary according to region



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- The exclusive on-board 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.



- 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.



- 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.

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All dimensions are shown in millimetres, unless otherwise stated between brackets.
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**Strong Reliable Machines
Strong Reliable Support**

