

# B25D Hooklift Truck

# B25D Hooklift Truck

# B25D Hooklift Truck

## AVAILABLE EQUIPMENT\*

### Cab

- ROPS/FOPS certification
- 2 controls in cab: 1 main lift; 1 hooklift; integrated with air locking mechanism
- 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

### Vehicle

- Fuel
- Tachometer
- Battery voltage
- Hourmeter
- Odometer
- System air pressure

### Other

- Ground driven emergency steering
- Articulation lock
- Integral transmission retarder with 6 settings
- Low COG due to mechanisms integrated design with chassis
- Capacity - 25 000 kg
- Activated by 2 cylinders fitted with overcentre valves
- Simple locking mechanism
- Rollers on rear end of chassis
- Driveline protection with full belly plates

(Factory or field installed)

- On Board Weigh System (OBW)
- Electrically adjustable rearview mirrors - one per side
- Groeneveld auto greasing system
- Retractable sun visor
- Fleetmatic Satellite Monitoring System
- Forward working lights
- Artic reverse light
- Fuel heater
- External windshield visor
- Headlight protection grills
- Rear window wiper
- Antenna mounting bracket
- Wiggins quick fuelling system
- Tyre pressure monitoring
- Standard bin float feature
- Optional oscillation lock
- Load lights
- Front bumper protection

\*standard specification for machines may vary according to region  
\*hooklift mechanism may vary according to region

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

- **With a highly efficient power and drive-train combined with low rolling resistance, the Bell B25D Hooklift delivers superior fuel efficiency and lowest cost per tonne solution**
- **High performance engine with increased power and torque and low COG ensures maximum performance and safety**
- **Powerful hydraulic transmission retarder drastically cuts brake use extending pad life by up to five times**
- **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 increases manoeuvrability**
- **Electronic component protection to ensure maximum machine availability**
- **Easy service access reduces maintenance times and ensures maximum machine availability**
- **Fast and safer tip cycles ensured with the use of i-Tip and chassis inclinometer**
- **Automated safety features ensure maximum uptime**
- **Versatility to work with various container sizes and specifications**



BELL INTERNATIONAL: Tel: +27 (0) 35-907 9431

France Tel: +33 (0) 5 55 89 23 56

Spain Tel: +34 91 879 60 19

UK Tel: +44 (0) 1283 712862

Germany Tel: +49 (0) 6631 / 91 13 - 0

Italy Tel: +27 (0) 11-928-9700

USA Tel: +7 495 771 20 27

E-mail: sales@bellequipment.com

• [www.bellequipment.com](http://www.bellequipment.com)

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.

**Strong Reliable Machines  
Strong Reliable Support**

# BELL

## D SERIES

- Gross Power: 205 kW (275 hp)
- Gross Torque: 1 000 Nm (735 lbft)
- Rated Payload: 23 000 kg (50,706.26 lbs)

# BELL

# B25D Hooklift Truck

**ENGINE** Mercedes Benz inline 6 cylinder, turbocharged, intercooled, low emission diesel engine

Gross power 205 kW (275 hp) @ 2 200 rpm  
 Net Power 198 kW (265 hp) @ 2 200 rpm  
 Gross torque 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)  
 Auxilliary Brake Exhaust brake  
 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

**TRANSMISSION** Engine mounted, fully automatic ZF planetary transmission with six forward gears and one reverse gear. Hydrodynamic with lock-up in all gears.

Torque Converter 6HP592C Ecomat 2 plus Electronic

**TRANSFER BOX** Remote mounted

Manufacturer 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)  
**AUXILIARY BRAKE** Automatic exhaust brake and Engine Valve Brake (EVB)  
 Retarder Variable Adjustable Hydraulic Retarder  
 Maximum retardation 442 kW (593 hp)



**WHEELS** Earthmover 20.5 R25  
 Tyre 23.5 R25 (optional)  
 L3/L5 Tyre (optional)

**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 5 micron

**STEERING SYSTEM** Hydrostatically actuated, low effort, fast acting.  
 Two double-acting steering cylinders

Lock to lock turns 4.1  
 Steering Angle  $\pm 45^\circ$

**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 2 X 105 Ah  
 Battery Capacity 28 V 80 A  
 Alternator Rating

**VEHICLE SPEEDS**

1st	8	5
2nd	13	8
3rd	22	14
4th	31	19
5th	44	28
6th	53	33



# B25D Hooklift Truck

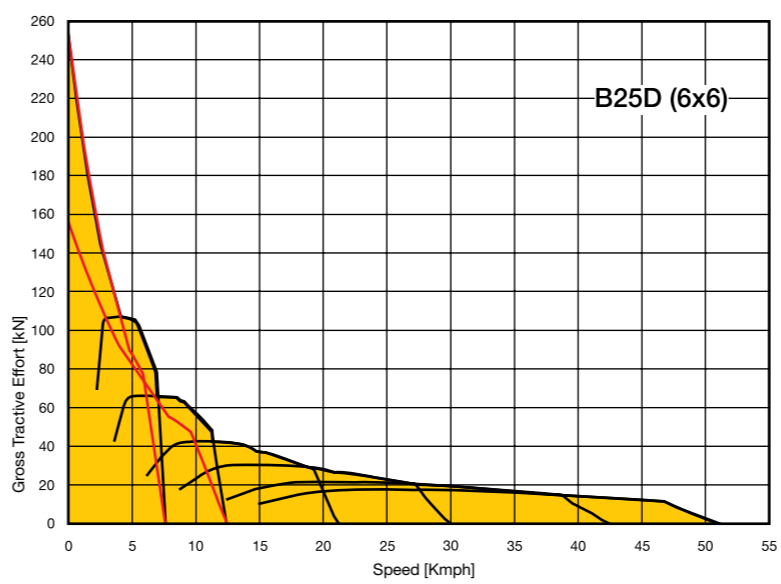
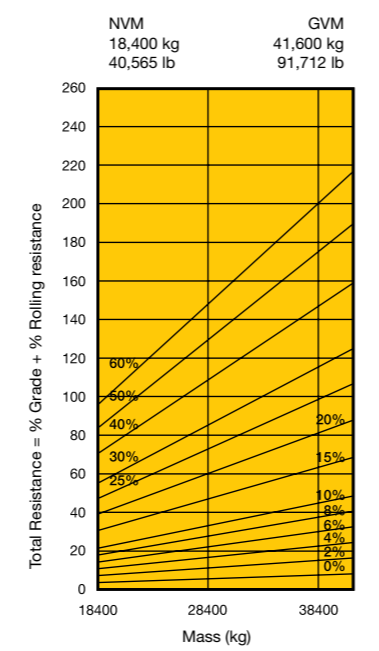
## OPERATING WEIGHTS

Unladen	
Front	9 464 kg (20,864 lbs)
Middle	3 636 kg (8,016 lbs)
Rear	3 636 kg (8,016 lbs)
Total	16 736 kg (36,897 lbs)
Laden	
Front	11 968 kg (26,385 lbs)
Middle	13 866 kg (30,569 lbs)
Rear	13 866 kg (30,569 lbs)
Total	39 700 kg (87,524 lbs)

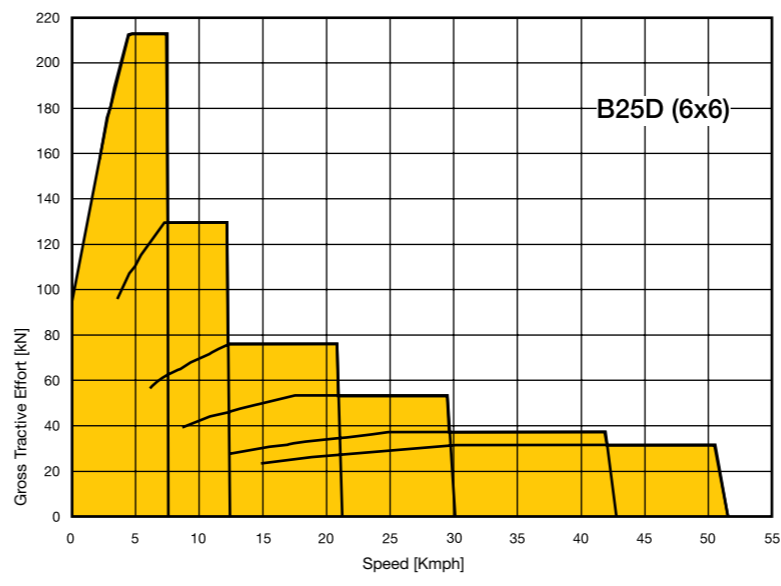
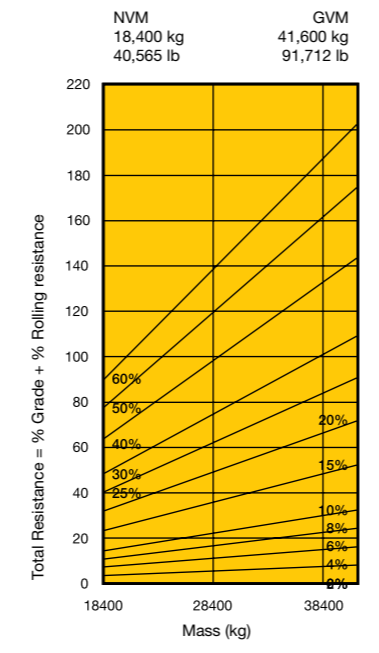
## BODY

Capacity: Gross: 23 000 kg (50,706 lbs)

## GRADEABILITY/RIMPULL



## RETARDATION



## DIMENSIONS

