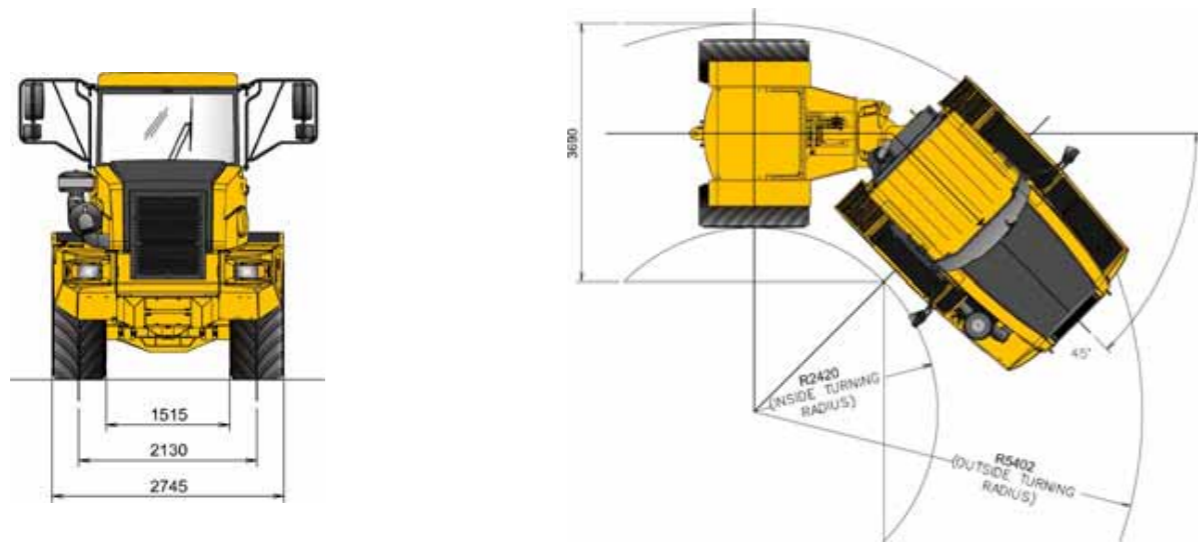


# 2306D ARTICULATED TRACTOR 4X4 MKVI



# 2306D ARTICULATED TRACTOR 4X4 MKVI



## Features of Articulated Tractors...

- **VALUE:** Bell tractors are not farm tractor derivatives. They are built from the ground up for trouble free operation and maximum durability in full-time heavy duty construction work.
- **PRODUCTIVE:** Powerful built-for hauling ADT drivetrains are well matched for pulling and retarding heavy loads. Nitrogen over oil strut suspension smooths the ride for operator and machine.
- **ECONOMY:** Modern fuel efficient engine, lockup torque converter and planetary transmission deliver more work per unit of fuel used
- **EASY TO OPERATE:** High quality cab is conducive to operator care. Simple to use controls and electronic interfaces protect the machine from accidental misuse.

BELL SOUTH AFRICA : Tel: +27 (0)11-928 9700 • Fax: +27 (0)11-928 9702  
 BELL INTERNATIONAL : Tel: +27 (0)35-907 9431 • Fax: +27 (0)35-797 4336  
 E-mail: sales@bellequipment.com • 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**

SPEC/766/05/09 - 2306D Articulated Tractor MKVI

- Gross Power : 170 kW (228 hp)
- Gross Torque : 810 kg (596 lbs)
- Gross Weight : 45 300 kg (99,869 lbs)

# BELL



# 2306D 4X4 MKVI

## ENGINE

Mercedes Benz OM906LA  
 Configuration I-6 with exhaust brake and Engine Valve Brake (EVB)  
 Aspiration Turbocharged and intercooled  
 Cooling System Liquid cooled with single pass radiator as well as charge air cooler  
 Gross power 170 kW (228 hp) @ 2 200 rpm SAE J1349  
 Net Power 163 kW (219 hp) @ 2 200 rpm  
 Gross torque 810 Nm (596 lbf) @ 1 200 - 1 600 rpm SAE J1349  
 Net Torque 780 Nm (574 lbf) @ 1 200 - 1 600 rpm  
 Displacement 6,37 litres (389 cu.in)  
 Fuel tank capacity 198,5 litres (52.4 US gal)

## TRANSMISSION

ZF 6HP592C with integral retarder  
 Layout Engine mounted box with rear output  
 Gear layout 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

Vehicle speeds	1st	2nd	3rd	4th	5th	6th	R
	7.2	11.8	20.1	28.4	40.3	48.6	8.3 km/h
	4.5	7.3	12.5	17.6	25	30.2	5.2 mph

## TRANSFER CASE

VGR 13 200  
 Output differential Three in-line helical gears. Interaxle 50/50 proportional differential, pneumatically lockable whilst stationary or on the move.

## AXLES

Bell 14T  
 Differential type Spiral bevel type with Limited Slip

Final drive type Outboard heavy duty planetary

Housing type Steel fabricated

## BRAKING SYSTEM

SERVICE BRAKE Dual circuit, full hydraulic actuation caliper brakes on all wheels  
 Maximum brake force 125,62 kN (28,241 lbf)

PARK & EMERGENCY Spring applied, air released driveline-mounted disc.  
 Maximum brake force 368,42 kN (82,824 lbf)

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

## WHEELS

Standard Tyre	Size	Type
	23.5X25	SRG
Optional Tyre	Size	Type
	620/75R26; Dual 15X34	Traction

## SUSPENSION

Front type Semi-independent leading arm type linkages supported by nitrogen/oil struts  
 Rear type Rigidly mounted

## HYDRAULIC SYSTEM

Full load sensing system serving the prioritized steering, body tipping 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, hydraulic brake charging  
 Flow: 84 l/min (48.6 US gal/min)  
 Pressure: 25 MPa (3,625 psi)  
 Filter: 10 micron

## PNEUMATIC SYSTEM

Air drier with heater and integral unloader valve, serving park brake and auxiliary functions  
 System pressure 810 kPa (117 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 +/- 45 degrees  
 Lock to lock turns 4,1

## OPERATING WEIGHTS

Empty:	Front	Rear	Total
	7 970 kg (17 571 lbs)	4 710 kg (10 384 lbs)	12 680 kg (27 955 lbs)

Laden:	Front	Rear
	8 200 kg (18 078 lbs)	8 830 kg (19 467 lbs)

Gross Vehicle Mass	17 030 kg (37 545 lbs)
Gross Combined Mass	56 000 kg (123 459 lbs)

## STANDARD 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 • 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 • Sound insulated to 76 dB(A) to ISO 6396 • Radio/CD • Memory Module  
 • Fleetmatic Satellite Monitoring System

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

## Retarder

Integral transmission retarder with 6 settings

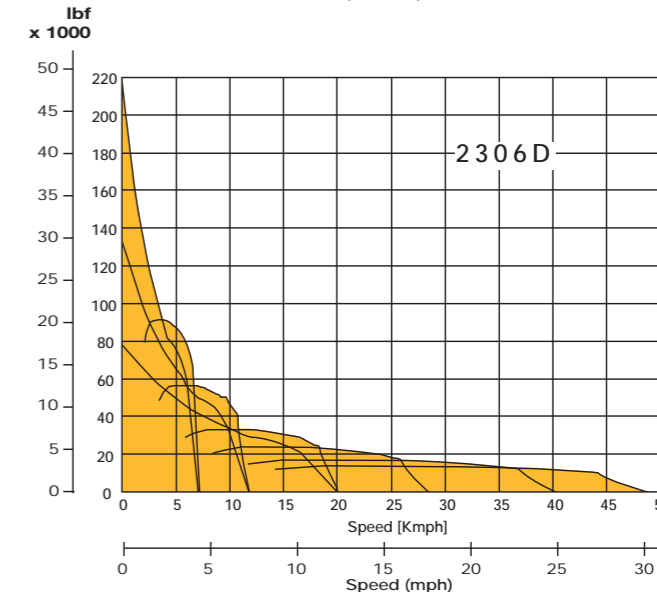
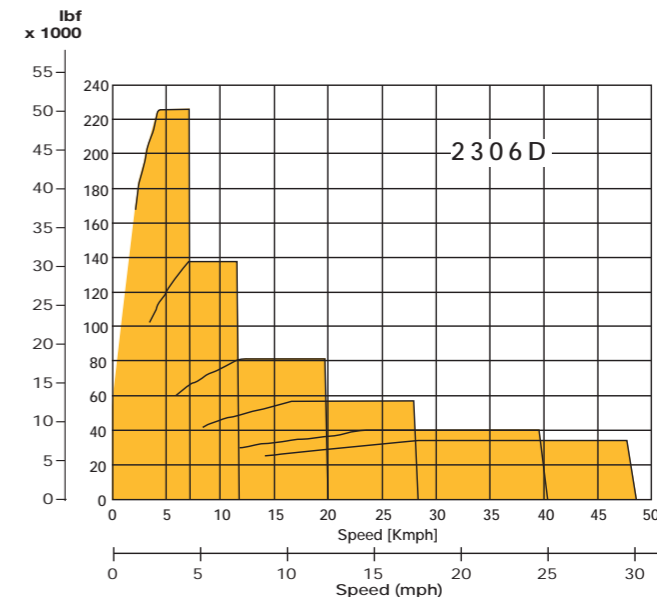
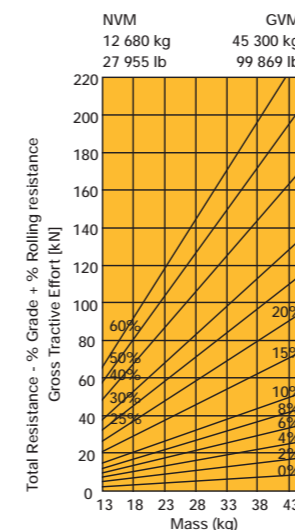
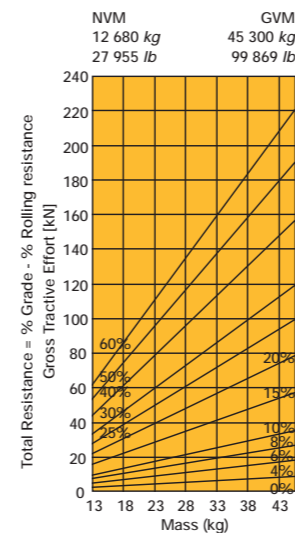
## Other

Ground driven emergency steering  
 Articulation lock

## OPTIONAL EQUIPMENT

(Factory or field installed)  
 • On Board Weigh System (OBW)  
 • Electrically adjustable rearview mirrors - one per side  
 • Retractable sun visor  
 • Forward working lights  
 • Artic reverse light  
 • Fuel heater  
 • External windshield visor  
 • Headlight protection grills  
 • Rear window wiper  
 • Antenna mounting bracket  
 • System for reverse camera  
 • Wiggins quick fuelling system  
 • Tyre pressure monitoring  
 • Fleetmatic production packages

## DRAWBAR PULL GRAPH



## LINE DRAWING

