

# Timber Trucks

BELL TIMBER HAULERS  
AND LONG RANGE FORWARDERS

TH403E | TH302E  
TF403E | TF302E



- Gross Power: 205 kW (275 hp)\*
  - Torque: 1 000 Nm (738 lbft)
- Bunk Capacity (approx.): 40m<sup>3</sup> \*\*

\* 170 kW and 240 kW available  
\*\* Depending on configuration

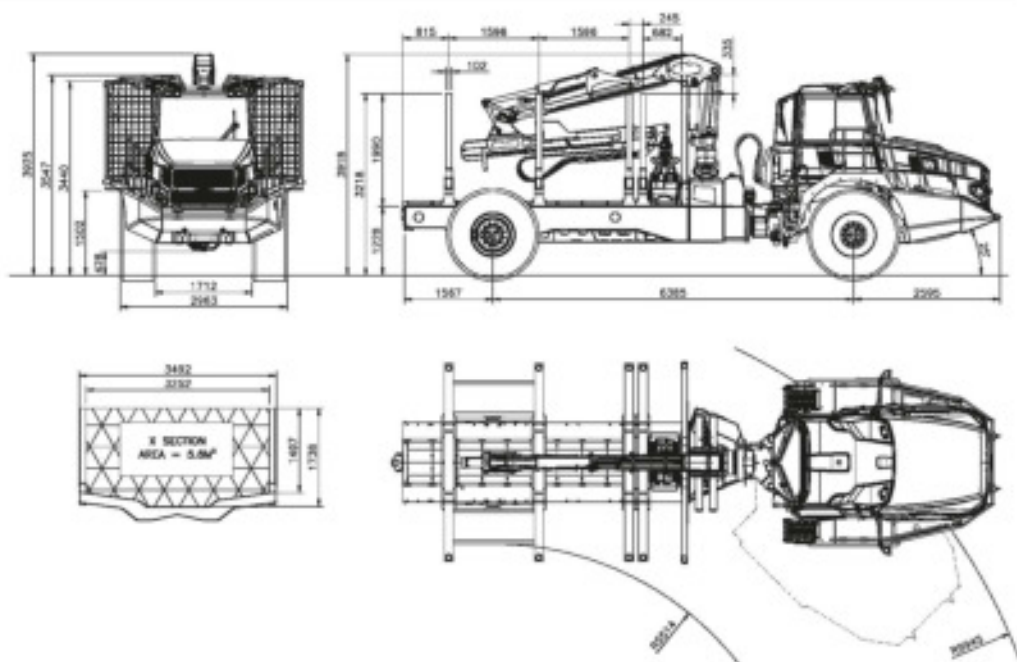
**BELL**



## TF302E Forwarder 4x4

BUNK AREA: 5,8 M <sup>2</sup>	M <sup>3</sup>
5	29
5,5	32
6	34

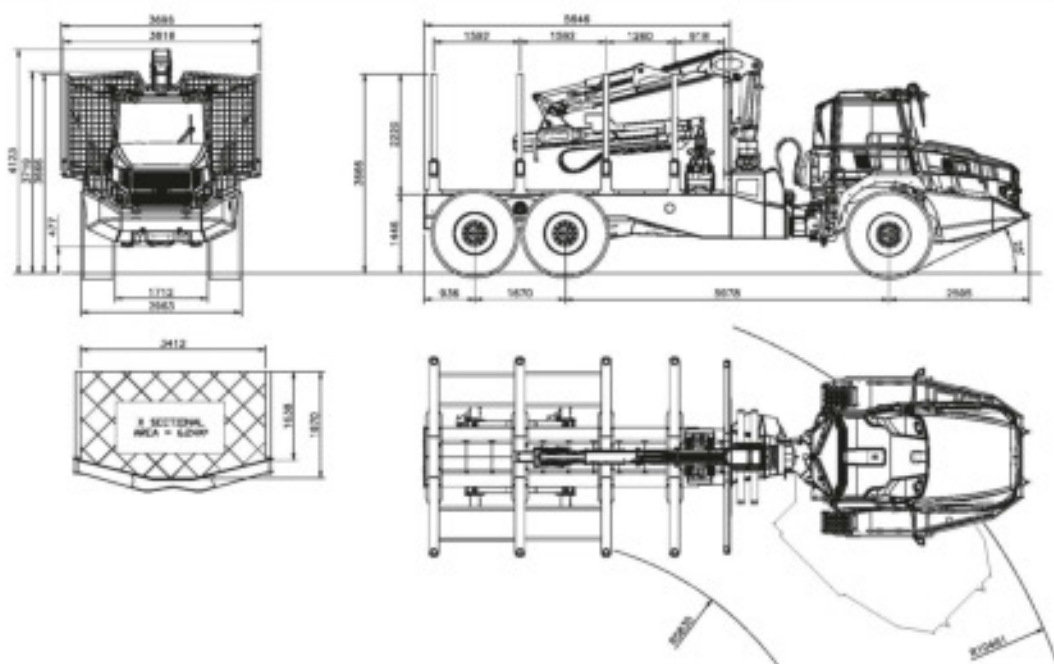
Engine: 205 kW  
Tyres: 23.5R25  
Axle Width: 2 963 mm  
Max Speed: 50 km/h  
Base machine: 2806E



## TF302E Forwarder 6x6

BUNK AREA: 6,24 M <sup>2</sup>	M <sup>3</sup>
5	31
5,5	34
6	37

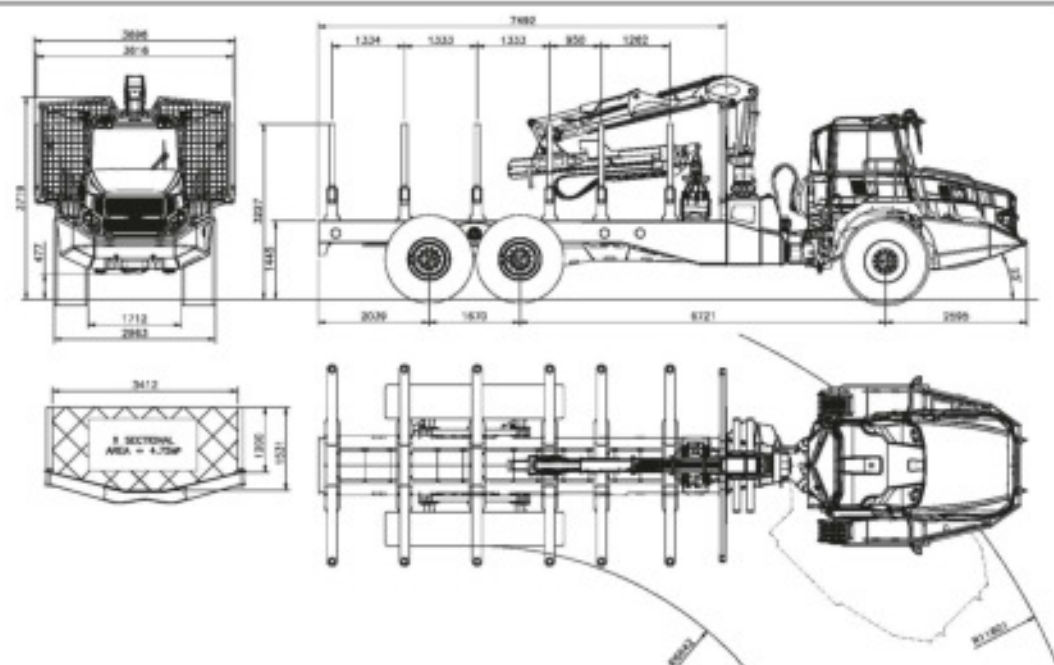
Engine: 205 kW  
Tyres: 23.5R25  
Axle Width: 2 963 mm  
Max Speed: 50 km/h  
Base machine: B25E



## TF403E Forwarder

BUNK AREA: 4,75 M <sup>2</sup>	M <sup>3</sup>
3 x 3 M	42,8

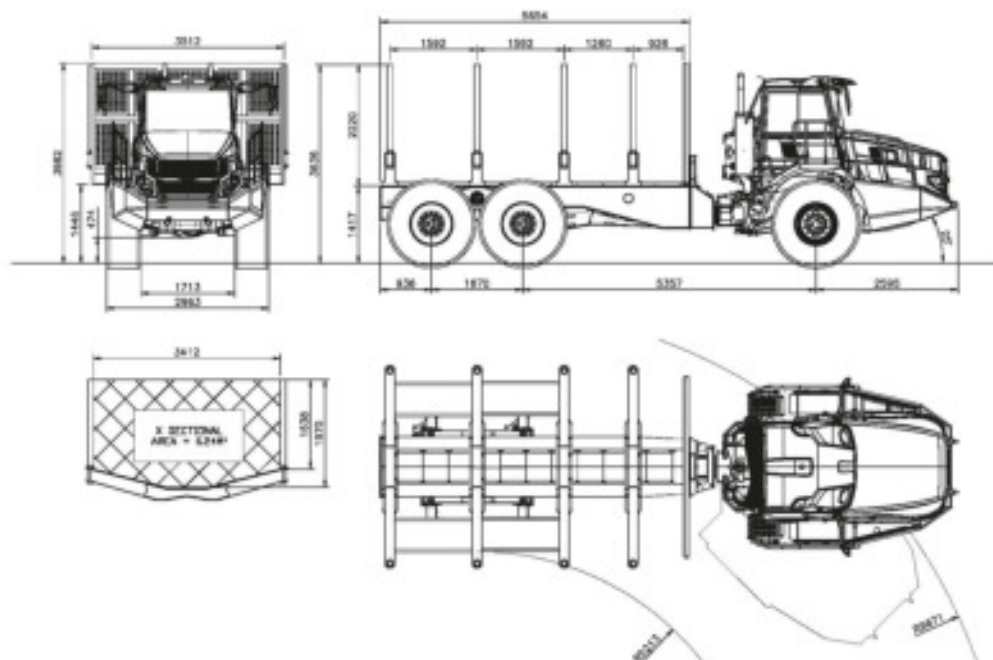
Engine: 240 kW  
Tyres: 23.5R25  
Axle Width: 2 963 mm  
Max Speed: 50 km/h  
Base machine: B30E



## TH302E Hauler

BUNK AREA: 6,24 M <sup>2</sup>	M <sup>2</sup>
5	31
5,5	34
6	37

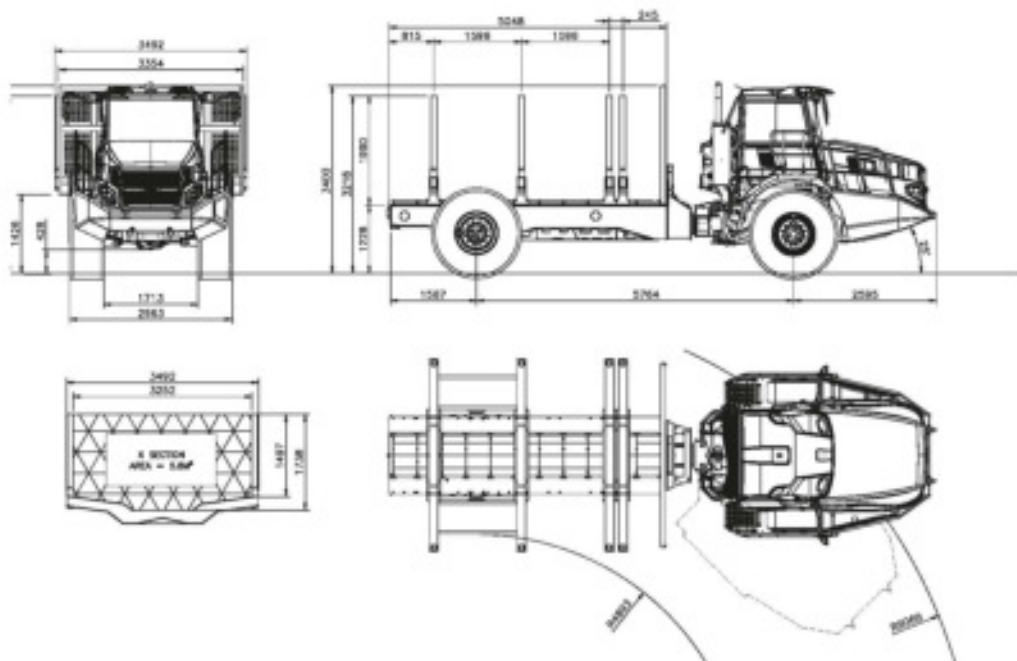
Engine: 205 kW  
Tyres: 23.5R25  
Axle Width: 2 963 mm  
Max Speed: 50 km/h  
Base machine: B25E



## TH302E Hauler 4x4

BUNK AREA: 5,8 M <sup>2</sup>	M <sup>2</sup>
5	29
5,5	32
6	34

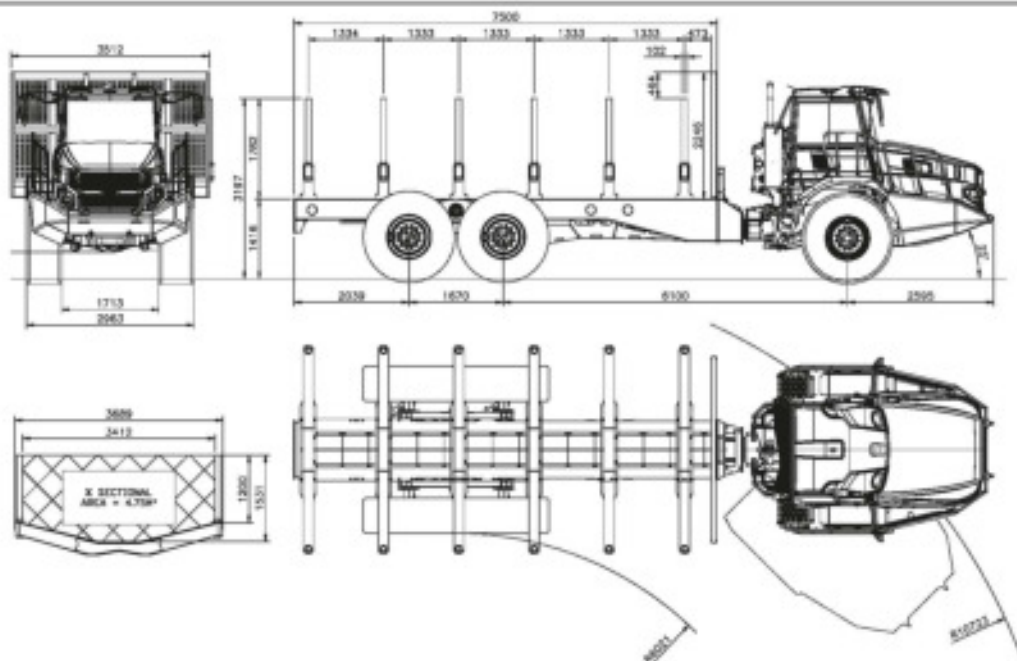
Engine: 205 kW  
Tyres: 23.5R25  
Axle Width: 2 963 mm  
Max Speed: 50 km/h  
Base machine: 2806E



## TH403E Hauler

BUNK AREA: 4,75 M <sup>2</sup>	M <sup>2</sup>
3 x 3 M	42,8

Engine: 240 kW  
Tyres: 23.5R25  
Axle Width: 2 963 mm  
Max Speed: 50 km/h  
Base machine: B30E



# Technical Data

## ENGINE

**Manufacturer**  
Mercedes Benz

**Model**  
OM906LA

**Configuration**  
Inline 6, turbocharged and intercooled.

**Gross Power**  
205 kW (275 hp) @ 2 200 rpm

**Option:**  
170 kW and 240 kW also available depending on application.

**Net Power**  
198 kW (265 hp) @ 2 200 rpm

**Gross Torque**  
1 100 Nm (811 lbf) @  
1 200 -1 600 rpm

**Displacement**  
6,37 litres (389 cu.in)

**Auxiliary Brake**  
Exhaust Valve Brake  
Engine Valve Brake

**Fuel Tank Capacity**  
379 litres (100 US gal)

**Certification**  
OM906LA meets EU Stage II/EPA Tier 2 emissions regulations.

## TRANSMISSION

**Manufacturer**  
Allison

**Model**  
3500PR ORS

**Configuration**  
Fully automatic planetary transmission with integral retarder.

**Layout**  
Engine mounted

**Gear layout**  
Constant meshing planetary gears, clutch operated.

**Gears**  
6 Forward, 1 Reverse

**Clutch Type**  
Hydraulically operated multi-disc

**Control Type**  
Electronic

**Torque Control**  
Hydrodynamic with lock-up in all gears.

## TRANSFER CASE

**Manufacturer**  
Kessler

**Series**  
W1400

**Layout**  
Remote mounted

**Gear Layout**  
Three in-line helical gears

**Output Differential**  
Interaxle 33/67 proportional differential. Automatic inter-axle differential lock.

## AXLES

**Manufacturer**  
Bell

**Model**  
15T

**Differential**  
High input limited slip differential with spiral bevel gears.

**Final Drive**  
Outboard heavy duty planetary on all axles.

## BRAKING SYSTEM

**Service Brake**  
Dual circuit, full hydraulic actuation dry disc brakes with 8 calipers (4F, 2M, 2R).

**Maximum brake force:**  
184 kN (41 400 lbf)

**Park & Emergency**  
Spring applied, air released driveline mounted disc.

**Maximum brake force:**  
195 kN (43 900 lbf)

**Auxiliary Brake**  
Automatic exhaust valve brake and engine valve brake.  
Automatic, adjustable, integral, hydrodynamic transmission retarder. Output shaft speed dependant.

**Total Retardation Power**  
250 kW (335 hp) Continuous  
539 kW (723 hp) Maximum

## WHEELS

**Type**  
Radial Earthmover

**Tyre**  
23.5 R 25

## FRONT SUSPENSION

Semi-independent, leading A-frame supported by hydro-pneumatic suspension struts.

## REAR SUSPENSION

Pivoting walking beams with laminated rubber suspension blocks.

## 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.

**Flow**  
165 l/min (44 gal/min)

**Pressure**  
28 Mpa (4 061 psi)

**Filter**  
5 microns

## STEERING SYSTEM

Double acting cylinders, with ground-driven emergency steering pump.

**Lock to lock turns**  
4,1

**Steering Angle**  
45°

## 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 AGM (Absorption Glass Mat) type.

**Battery Capacity**  
2 X 75 Ah

**Alternator Rating**  
28 V 80 A

## VEHICLE SPEEDS

1st	7 km/h	4 mph
2nd	15 km/h	9 mph
3rd	23 km/h	14 mph
4th	35 km/h	22 mph
5th	47 km/h	29 mph
6th	50 km/h	31 mph
R	7 km/h	4 mph

## CAB

ROPS/FOPS certified 74 dBA internal sound level measured according to ISO 6396.

All dimensions are shown in millimetres, unless otherwise stated between brackets. Under our policy of continuous improvement, we reserve the right to change technical data and design without prior notice. Photographs featured in this brochure may include optional equipment.

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