

Timber Truck TH302E, TF302E & TH403EN



ENGINE Manufacturer Mercedes Benz Model OM906LA Configuration Inline 6, turbocharged and intercooled Gross Power 205 kW (275 hp) @ 2 200 rpm Net Power 198 kW (265 hp) @ 2 200 rpm Gross Torque 1 100 Nm (811 lbft) @ 1 200 -1 600 rpm Displacement 6,37 litres (389 cu.in) Auxiliary Brake Exhaust valve brake Engine valve brake Fuel Tank Capacity TH302E & TF302E 379 litres (100 US gal) TH403EN 342 litres (90 US gal) Certification OM906LA meets EU Stage II/ EPA Tier 2 emissions regulations	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.	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	STEERING SYSTEM Double acting cylinders, with ground-driven emergency steering pump. Lock to lock turns 4,1 Steering Angle 45°																					
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	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) TF302E can be supplied with dual circuit, full hydraulic actuation wet disc brakes on front and middle axles. Maximum brake force: 187 kN (42 000 lbf) Wet brake oil is circulated through a filtration and cooling system.	WHEELS Type Radial Earthmover Tyre TH302E & TF302E 23.5R25 TH403EN 20.5R25 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 prioritised 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	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 <table><tr><td>1st</td><td>7 km/h</td><td>4 mph</td></tr><tr><td>2nd</td><td>15 km/h</td><td>9 mph</td></tr><tr><td>3rd</td><td>23 km/h</td><td>14 mph</td></tr><tr><td>4th</td><td>35 km/h</td><td>22 mph</td></tr><tr><td>5th</td><td>47 km/h</td><td>29 mph</td></tr><tr><td>6th</td><td>50 km/h</td><td>31 mph</td></tr><tr><td>R</td><td>7 km/h</td><td>4 mph</td></tr></table> CAB ROPS/FOPS certified 72 dBA internal sound level measured according to ISO 6396.	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
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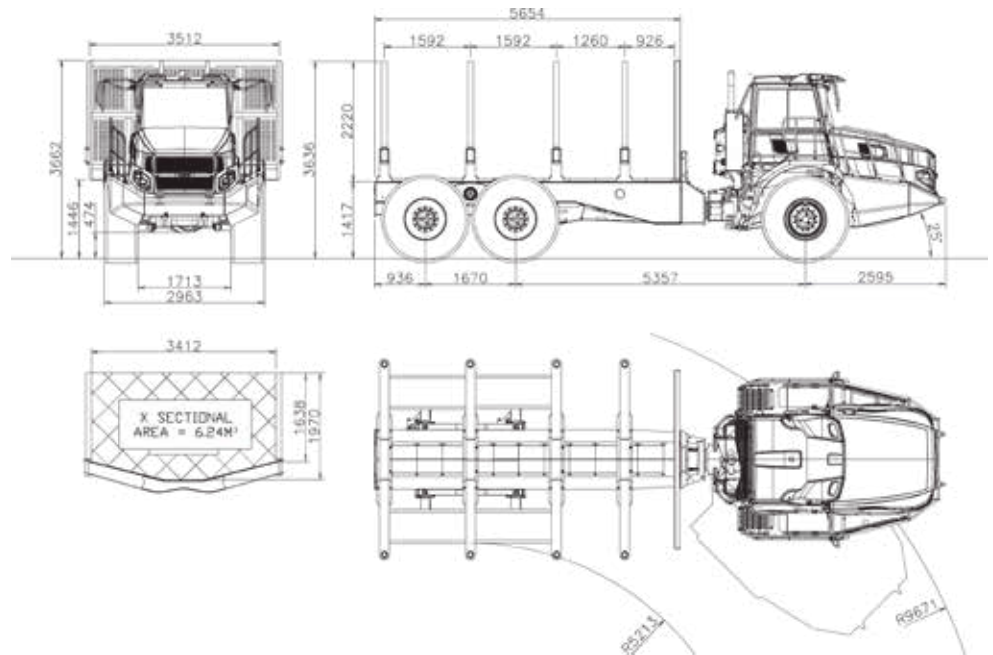
Load Capacity & Ground Pressure

		TH302E		TF302E		TH403EN	
		UNLADEN kg	LADEN kg	UNLADEN kg	LADEN kg	UNLADEN kg	LADEN kg
Operating weights	Front	8 804	9 676	11 500	12 372	9 480	12 498
	Middle	1 693	13 257	4 634	16 198	3 659	14 150
	Rear	2 206	13 670	4 694	16 158	4 025	14 516
	Total (GVM)	12 703	36 603	20 828	44 728	17 164	41 164
Load Capacity (kg)		24 000		24 000		24 000	
Bunk Area (m³)*		35.2		35.2		43.2	

*Calculated with the maximum rated log length

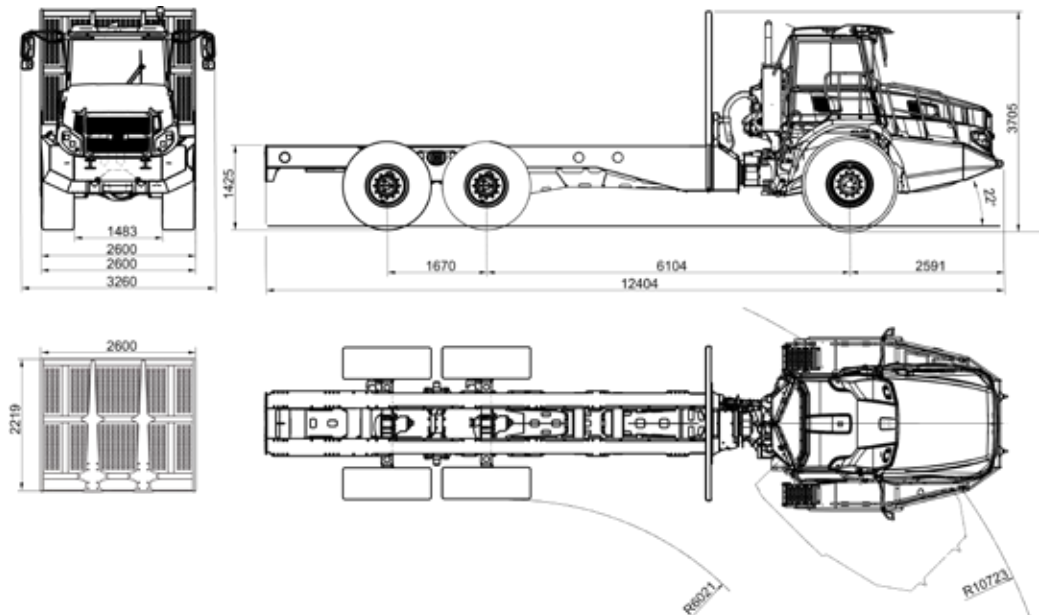
TH302E Hauler

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



TH403EN Hauler

Engine: 205 kW
Tyres: 20.5R25
Axle Width: 2 650 mm
Max Speed: 50 km/h
Base machine: B25E



TF302E Forwarder

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

