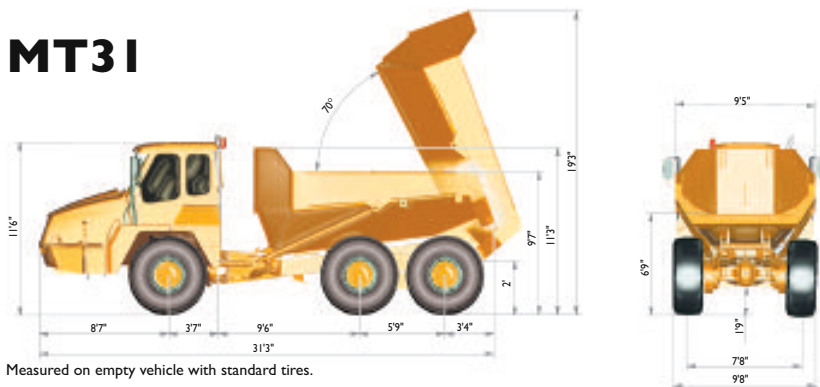




# MT31



Measured on empty vehicle with standard tires.

## WEIGHTS

Empty:	Front axle	24,582 lbs
	Rear axle	25,353 lbs
Loaded:	Front axle	35,715 lbs
	Rear axle	75,949 lbs
Pay load		61,729 lbs
Total weight (loaded)		111,664 lbs

## TRANSMISSION

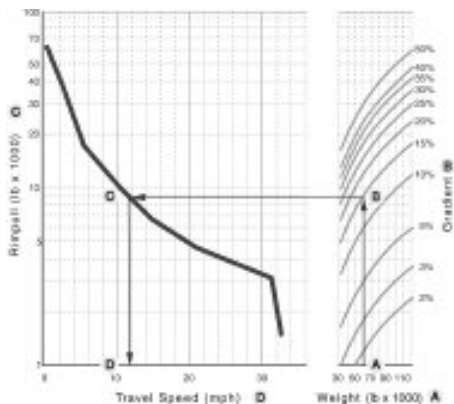
ZF 6 WG 260 Dash 4 electronically-controlled automatic transmission, the torque converter has automatic lock-up in all gears.

Speed (mph)	Forward	Reverse
1 <sup>st</sup> gear	4	4
2 <sup>nd</sup> gear	6	9
3 <sup>rd</sup> gear	9	21
4 <sup>th</sup> gear	14	
5 <sup>th</sup> gear	21	
6 <sup>th</sup> gear	32	

## CAPACITIES

	US Gallons
Fuel tank	92.5
Hydraulic system	39.6
Engine cooling system	11.9
Transmission	15.0
Engine crankcase	8.7
Front differential	3.5
Front reduction gear	2 x 0.8
Rear differential	8.5
Tandem housing	2 x 19.8

## PERFORMANCE DIAGRAM



## BODY CAPACITIES

- Level capacity 17.8 yd<sup>3</sup> (18.6 yd<sup>3</sup>)
- Heaped capacity 22.0 yd<sup>3</sup> (23.3 yd<sup>3</sup>)
- Acc. SAE J 1363, 2:1 (with top tailgate in brackets)

## SCANIA DC 9 ENGINE

Scania DC 9, water-cooled, direct injected diesel engine with turbo charger and air to air intercooler.

- Complies with Stage 3 of EU Directive 97/68/-EC and Tier 3 of USA/California regulations (ISO 8178) for emissions.
- Power rating: (1kW = hp/1,36) (ISO 3046) 243 kW (331 hp) (ISO 9249) 238 kW (324 hp)
- No. of cylinders: 5 (in line)
- Cylinder volume: 9.0 litres (549 in<sup>3</sup>)
- Air filter: Dry type

## GROUND PRESSURE

By sinking 15% of free tire radius and specified weights

- Standard 23.5 R25 tires
- Empty: Front: 15 PSI, Rear: 8 PSI
- Loaded: Front: 22 PSI, Rear: 23.5 PSI

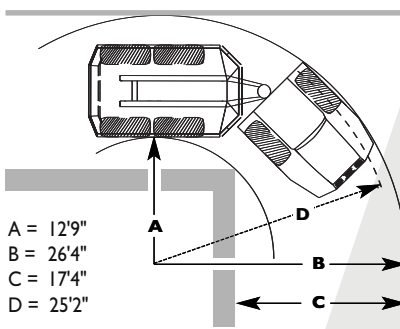
By sinking 7% of free tire radius and specified weights

- Optional 750/65 R25 tires
- Empty: Front: 12.5 PSI, Rear: 6.5 PSI
- Loaded: Front: 18 PSI, Rear: 19 PSI

## ARTICULATION HINGE AND STEERING

- Articulation hinge with forward-mounted turning ring
- Steering cylinders (two): Doubleacting
- The steering is approved according to ISO 5010
- Max. steering angle: 45°
- Ground driven emergency steering pump

Turning radius according to ISO 7457: 25'2"



## BODY

- Material: Hardened abrasion-resistant steel plates (400HB) in bottom, front and sides (bottom / front / sides: 0.55 in / 0.31 in / 0.47 in)
- Tilt cylinders: Single stage, double-acting
- Tipping time: Up: 11 sec / down: 10 sec
- The body is designed for exhaust heating
- Sloping body down from the hinge point

## DRIVE LINE

- Full-time 6 x 6 drive with two traverse differentials and one longitudinal
- Front axle traverse differential: Limited-slip with 45% locking ratio
- Rear axle traverse differential: Limited-slip with 45% locking ratio
- Inter-axle longitudinal differential: Torque-proportioning differential, integrated into the transmission
- Torque distribution:
  - 1/3 to the front axle
  - 2/3 to the rear axle
  - 100% lockable
- Tandem housing: Gear-driven, free-swinging. Provides equal drive to all rear wheels and ensures the best possible ground contact - whatever ground conditions

## HYDRAULIC SYSTEM

- Pumps: 2 variable displacement piston pumps
- Delivery: 60.8 gallon/min @ 2200 rpm
- Cooling fan/brakes etc.: 15.9 gallon/min @ 2200 rpm
- Filtration: One return flow filter and high-pressure filter
- Pressure-setting, main safety valves:
- Tipping circuit: 4061 PSI
- Steering circuit: 3046 PSI

## ELECTRICAL SYSTEM

- Alternator: 28V 100A
- Batteries (two): 12V 140Ah (series connected to give 24V)
- Starter: 4.0 kW (5.4 hp)

## CAB

- Approved to ROPS/FOPS standards (ISO 3471, ISO 3449, SAE J231 and SAE J1040 April '88)
- Low interior sound level 74 dB(A) (ISO 6394)
- The cab is centrally located on rubber mountings
- Hand and arm vibrations are less than 2.5 m/s<sup>2</sup> according to ISO 8041
- Whole body vibration is less than 0.8-1.7 m/s<sup>2</sup> according to ISO 8041
- Superior visibility - for safer operation
- Superior operating controls location
- Adjustable suspended operator seat
- Adjustable steering column
- Heater and air condition

## BRAKE SYSTEM

- Dual circuit braking system acting on all six wheels
- Approved according to ISO 3450
- All hydraulic operated disc brakes all round
- Spring actuated hydraulic released parking brake, mounted on the propeller shaft
- Max. gradient, parking brake: 20°
- Automatic exhaust brake as standard
- Automatic hydraulic retarder brake as standard

## SUSPENSION

- Front: Independent with long life rubber springs and hydraulic shock absorbers
- Rear: Free-swinging tandem housing

## TIRES

- Standard 23.5 R25 two star radial.
- Optional 750/65 R25