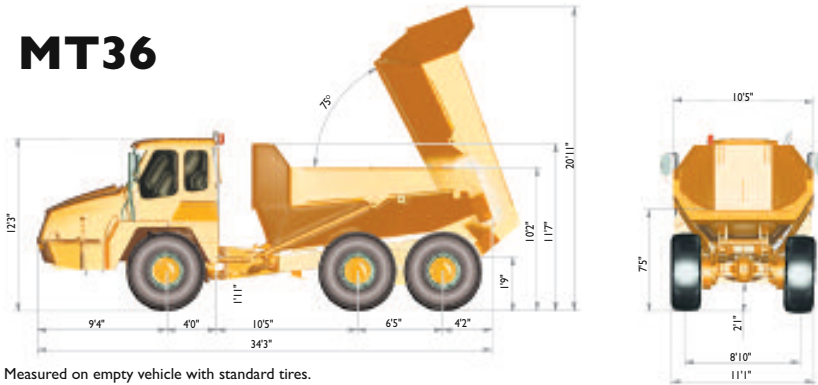




# MT36



Measured on empty vehicle with standard tires.

## WEIGHTS

Empty:	Front axle	29,542 lbs
	Rear axle	33,951 lbs
Loaded:	Front axle	43,431 lbs
	Rear axle	92,153 lbs
Pay load		72,091 lbs
Total weight (loaded)		135,584 lbs

## TRANSMISSION

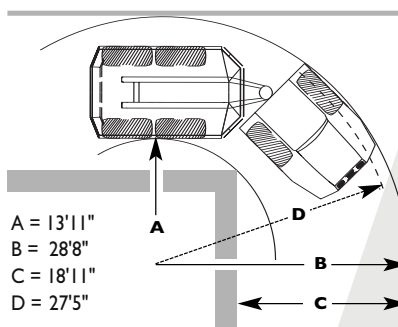
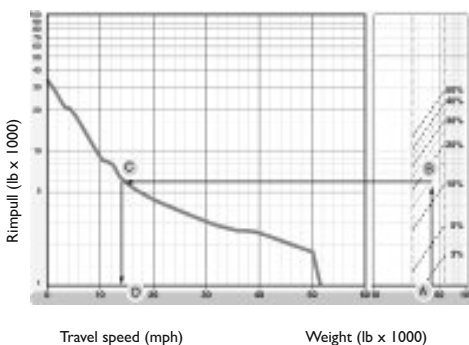
ZF 6 WG 310 Dash 4 electronically-controlled automatic transmission, the torque converter has automatic lock-up in all gears.

Speed (mph)	Forward	Reverse
1 <sup>st</sup> gear	3.5	4
2 <sup>nd</sup> gear	6	8.5
3 <sup>rd</sup> gear	8.5	19
4 <sup>th</sup> gear	13.5	
5 <sup>th</sup> gear	20	
6 <sup>th</sup> gear	32	

## CAPACITIES

	US Gallon
• Fuel tank	112.3
• Hydraulic system	55.2
• Engine cooling system	13.2
• Transmission	14.5
• Engine crankcase	9.0
• Front differential	3.5
• Front reduction gear	2 x 2.0
• Rear differential	14.8
• Tandem housing	2 x 39.6

## PERFORMANCE DIAGRAM



## BODY CAPACITIES

• Level capacity	20.4 yd <sup>3</sup> (21.0 yd <sup>3</sup> )
• Heaped capacity	26.3 yd <sup>3</sup> (27.5 yd <sup>3</sup> )
Acc. SAE J 1363, 2:1	(with top tailgate in brackets)

## SCANIA DC12 ENGINE

Scania DC12, water-cooled, unit 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) 294 kW (400 hp) (ISO 9249) 285 kW (388 hp)
- No. of cylinders: 6 (in line)
- Cylinder volume: 11.7 litres (714 in<sup>3</sup>)
- Air filter: Dry type

## GROUND PRESSURE

By sinking 15% of free tire radius and specified weights

- Standard 26.5 R25 tires
- Empty: Front: 15 PSI, Rear: 9 PSI
- Loaded: Front: 23 PSI, Rear: 24 PSI

By sinking 7% of free tire radius and specified weights

- Optional 800/65 R29 tires
- Empty: Front: 14 PSI, Rear: 8 PSI
- Loaded: Front: 20 PSI, Rear: 21 PSI

## ARTICULATION HINGE AND STEERING

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

Turning radius according to ISO 7457: 27'5"

## BODY

- Material: Hardened abrasion-resistant steel plates (400HB) in bottom, front and sides (bottom / front / sides: 0.59 in / 0.39 in / 0.47 in)
- Tilt cylinders: Single stage, double-acting
- Tipping time: Up: 12 sec. / Down: 11 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.
- Capacity per pump:
  - Steering/tipping: 84.5 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 225Ah (series connected to give 24V)
- Starter: 6.7 kW (9.1 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 brakes with enclosed oil-cooled wet multiple disc 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 26.5 R25 two star radial
- Optional 800/65 R29