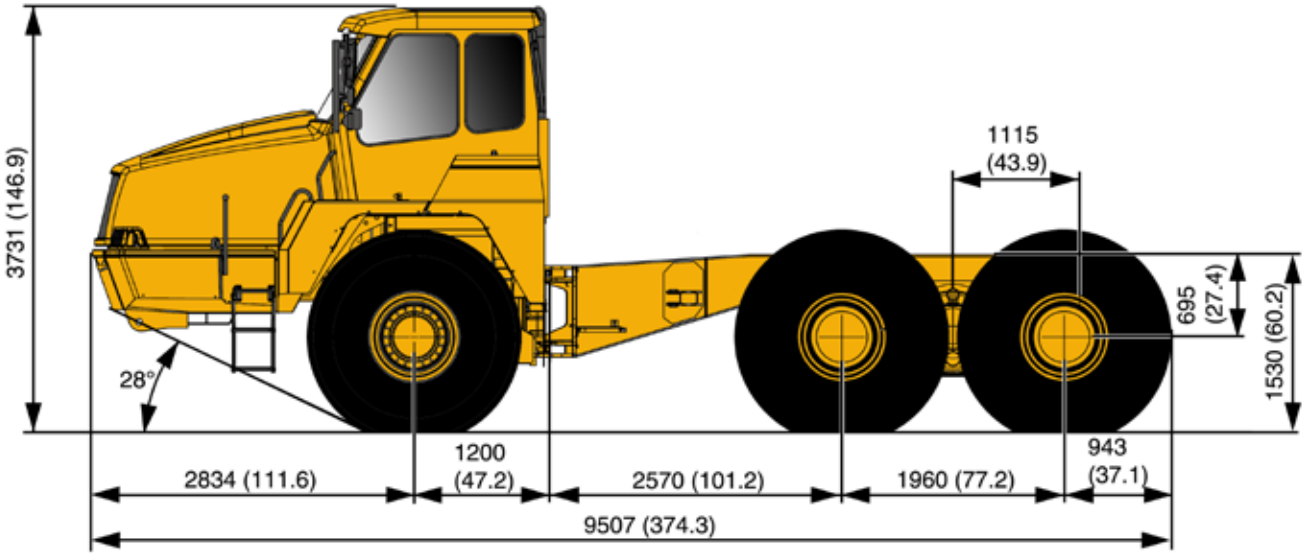
MOXY TUG RANGE

MTR450



millimetres (inches)

WEIGHTS		LB	KG
	Front axle	29,656	13,480
	Rear axle	23,254	10,570
	NOTE: All weights include a full fuel tank and operator		

CAPACITIES	GALLONS	LITRES
• Fuel Tank	129	490
• Hydraulic System	73	275
• Engine Cooling System	13	50
• Transmission	14.5	55
• Dropbox	9	34
• Engine Crankcase	3.5	13.2
• Front Reduction Gear	2 x 2	2 x 7.5
• Rear Differential	12	46
• Tandem Housing	2 x 40	2 x 150

ENGINE
- Scania DC 12, water-cooled unit injected diesel enginewith 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) 450 hp (331 kW)
  (ISO 9249) 438 hp (322 kW)

- No. of cylinders: 6 (in line)
- Cylinder volume: 714 cubic inches (11,7 litres)
- Air filter: Dry type

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

SPEEDS	MPH	KMH
1st	4	6
2nd	6	9
3rd	9	15
4th	14	23
5th	21	34
6th	33	53

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 discs all round
- Spring actuated hydraulic released parking brake, mounted on propeller shaft
- Max. gradient, parking brake: 20
- Automatic engine brake as standard
- Automatic transmission retarder as standard

HYDRAULIC SYSTEM

Pumps : 2 variable displacement piston pumps :
1 for steering & attachments
1 for cooling, fan, brakes & auxilaries

- Max Capacity : 84,5 gallon/min (320 l/min) @ 2200 rpm
- Filtration : One return flow filter & high pressure filter
- Safety valve settings : Steering 3046 PSI (210 bar)
  Attachments 4061 PSI (280 bar)

ELECTRICAL SYSTEM
- Alternator : 28V 100A
- Batteries : (two): 12V 225Ah (series connected to give 24V)
- Starter : 9,1 hp (6,7 kW)

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

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

DRIVE LINE
- Full-time 6 x 6 drive with two transverse differentials and one longitudinal
- Front axle transverse differential: Limited-slip with 45% locking ratio
- Rear axle transverse differential: Limited slip with 45% locking ratio
- Inter-axle longitudinal differential: Torque-proportioning differential, integrated into Dropbox

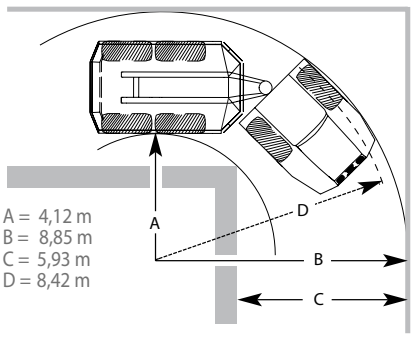
  Torque distribution:
  - 1/3 to the front axle
  - 2/3 to the rear axle
  - 100% lockable
- Tandem housing: Gear driven, free-swinging.

  Provides equal drive to rear wheels and ensures the best possible ground contact – whatever the ground conditions

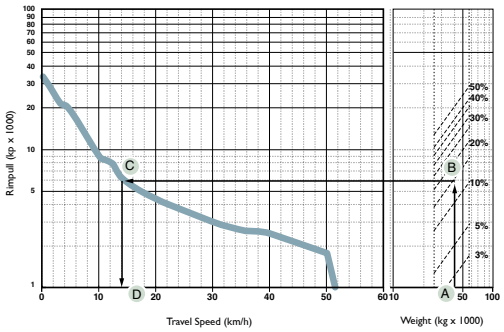
CAB
- Approved to ROPS/FOPS standards (ISO 3471, ISO 3449, SAE J231 and SAE J1040 April '88)
- Low interior sound level 74 dB(A) (ISO 6394)
- The cab is centrally located on rubber mountings
- Hand and arm vibrations are less than 2,5 m/s according to ISO 5349-2
- Whole body vibration is less than 0,5 m/s according to ISO 2631-1
- Superior visibility – for safer operation
- Superior operating controls location
- Adjustable suspended operator seat
- Adjustable steering column
- Heater and Air Conditioning
- Tilting for service access

TIRES
- Standard – 29.5 X 25 Radials
- Optional – 73 X 4400 X 32 tires with matching Rims

Turning radius according to ISO 7457: 27.6 feet (8,42 m)



PERFORMANCE DIAGRAM



Moxy operates a policy of continuous development and improvement and as such all specifications are subject to change at any time without prior notice

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