

Veracitor™ GC-VX Cushion Tire Trucks

8,000 lbs

Yale Veracitor™ GC-VX Series

This series of trucks is available in three configurations to meet and exceed your material handling application requirements. The Veracitor™ Productivity truck delivers maximum performance for medium to heavy-duty applications with state-of-the-art features and superior power. The Veracitor™ Value truck provides excellent performance for standard and medium-duty applications and is optimized for lowest hourly cost of operation. The Veracitor™ truck offers first-rate performance for standard-duty applications and is geared to minimize your cost of acquisition without compromising performance.

Yale Veracitor™ VX GM V-6 Engines feature a rigid cast iron block and main bearing caps. Nodular iron crankshaft is supported on four main bearings. Camshaft is cast iron. Hydraulic valve lifters are utilized to eliminate the need for manual adjustment. All GM engines include hardened intake and exhaust valve seats with stellite coated valves for superior durability. All engines are EPA emissions compliant and feature closed loop emissions regulation systems that continually monitor exhaust and adjust fuel/air mix as necessary. The GM engine also features an electronic throttle for precise performance and control.

Fuel System

The GM LP engine uses sequential port fuel injection and a vaporizer/regulator to convert the fuel from a liquid to a gas for vapor injection. The Engine Control Unit electronically controls the fuel, air, and spark advance to provide the necessary torque. The engine control unit's inputs include manifold air pressure, manifold air temperature, engine coolant temperature, accelerator pedal position, throttle position, engine speed, cam signal, and oxygen sensor signal.

Transmissions

There are five powertrain configurations available that will handle a wide variety of material handling applications. All transmissions feature electronic inching (requires no adjustment), electric shift control, neutral start switch, and anti-restart protection. A single pedal controls both inching and braking. Optional dual inch/brake pedals are available for operators who prefer this design. A 100 mesh suction and a 10 micron return line filtration protect the transmission from abrasive contaminants.

The Techtronix 100 and Techtronix 100X feature Auto Deceleration through the controlled application of clutch packs, and also reduce tire spin by precisely regulating engine speed during controlled power reversals. The Techtronix 100 series is available in one or two speeds. The Techtronix 200X includes the Techtronix 100 features, and also enables Auto Speed Hydraulics with Automatic Inching Control. This feature automatically increases engine RPM's as hydraulic functions are actuated, while maintaining control over vehicle speed. The throttle response management feature provides travel speed as a direct result of pedal position, improving truck control. The Techtronix 200X adds two-speed functionality for extended drawbar pull applications.

Cooling System employs a 19" (diameter) blade pusher-type fan. A permanently lubricated water pump and a high capacity, cross-flow radiator ensure rapid heat dissipation. The sealed cooling system operates at a pressure of 15 psi and includes a coolant recovery tank for visual inspection of coolant level. Transmission oil cooler is integrated into the heavy-duty, anti-clog radiator and is located in the side tank. The combi-cooler radiator (standard with all Techtronix transmissions) features an externally mounted transmission oil cooler for increased heat transfer capability. All radiators are soft-mounted for excellent durability.

Drive Axle

The drive axles are designed to withstand heavy loads and absorb shocks. The wheel hubs rotate on large tapered roller bearings. The drive shaft transmits rotational torque to

LP Engine Specifications

Engine	GM
Cylinders	6
Displacement	262 cu.in./4.3 liter
Torque	210 lb.ft. @ 2400 RPM
Horsepower	98 HP @ 2400 RPM
Air Filtration	Two Stage, Dry Type
Emission Control	Closed loop

the drive axle from the engine and transmission. Transmission torque is distributed through a planetary gear reduction and an industrial hypoid ring gear and pinion differential assembly.

The drive axle is a "self contained" assembly that is isolated from the transmission by heavy-duty rubber isolators. The axle shafts utilize a "rolled fillet" root spline design for increased resistance to torsion stress. A magnetic sump plug is used to collect any metal particles that are circulating in the axle oil, preventing component wear.

The standard Yale premium brakes are single-servo hydraulic, self-energizing, and automatic adjusting drum brake assemblies. Asbestos-free brake linings are bonded to steel shoes and act against a cast iron drum. Single circuit master cylinder has sealed fluid reservoir and features a fluid level sensor which activates an indicator light located on the instrument panel. Independent, hand adjustable parking brake with push-button locking has an audible alarm to indicate when the operator has left the truck without applying the parking brake.

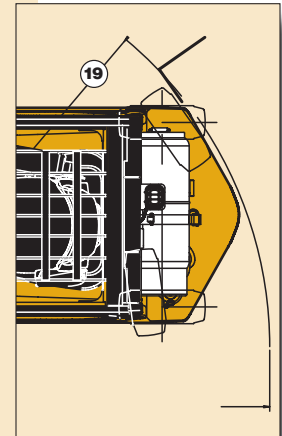
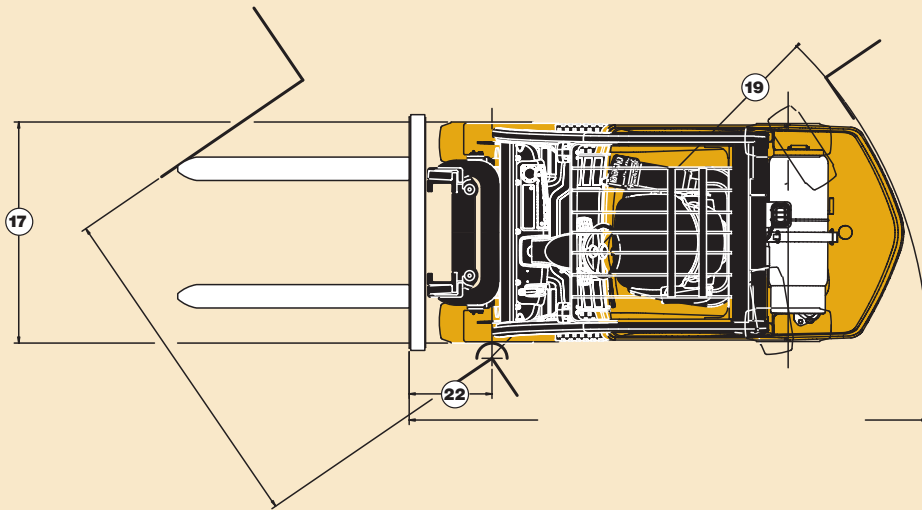
Optional oil cooled and wet disc brakes are internal to the axle for better protection against the elements. These low pedal effort brakes require no adjustments and very little maintenance, yet provide an extremely long service life.

Hydraulic Power Steering (hydrostatic steering) provides responsive control and eliminates mechanical linkages for reduced surface shock and simplified maintenance. The steering wheel is 12 inches in diameter with a textured surface grip and spinner knob, and requires only four turns lock-to-lock. The center mounted steer cylinder is located within the confines of the steer axle for protection.

Truck shown with optional equipment

(continued on back page)

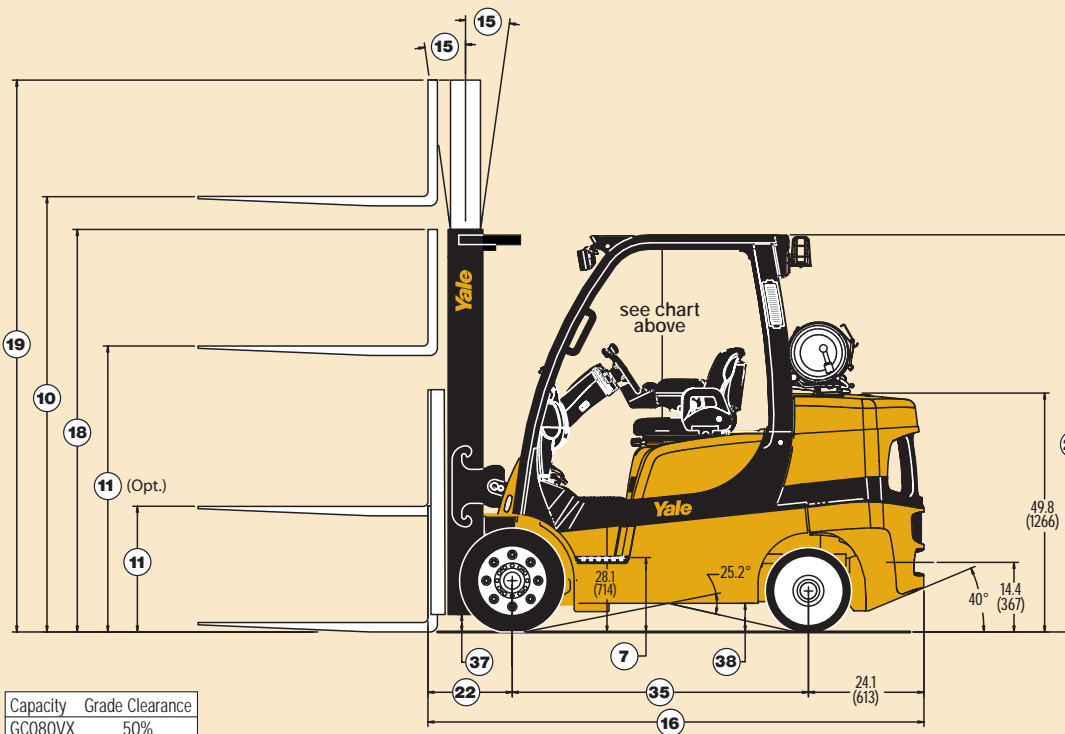




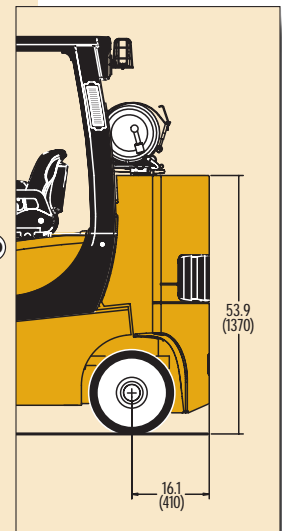
GC80VXBCS ▲
(Box Car Special)

▲ GC80VX STANDARD

	Non Susp	Semi	Full	Swivel Full
Tall OHG (Std.)	42.0(1068)	42.5(1080)	41.8(1062)	42.0(1068)
Short OHG (Opt.)	39.4(1001)	39.9(1013)	N/A	N/A



Capacity	Grade Clearance
GC80VX	50%



GC80VXBCS ▲
(Box Car Special)

▲ GC80VX STANDARD

GENERAL	1	Manufacturer	Manufacturer Name	
	2	Model	Manufacturer Designation	
			Transmission	
			Engine	
	3	Capacity	Rated Capacity	lb. (kg)
	4	Load Center	Distance	in. (mm)
	5	Power Type	Gasoline, LPG, Diesel	
	6	Operator Type	Pedestrian, Stand-on, Seated Rider	
	7	Step Height		in. (mm)
8	Tire Type	Cushion, Solid, Pneumatic, etc.		
9	Wheels	Number – Front/Rear		
DIMENSIONS	10	Lift Heights with 2-Stage Mast	Lift Height (Top of Fork)	in. (mm)
	11		Standard Free Lift (Top of Fork) with LBR	in. (mm)
			Optional Free Lift w/LBR (Top of Fork)–85/120” Mast	in. (mm)
	12	Std. Carriage Width	Standard Carriage Width	in. (mm)
	13	Forks	Thickness/Width/Length	in. (mm)
	14	Fork Spread	Outside Dimensions	in. (mm)
	15	Tilt of Mast	Forward/Backward	degrees
	16	Dimensions	Length To Face of Forks	in. (mm)
	17		Overall Width Standard/Wide Tread (mm)	in. (mm)
	18		Height with Standard Mast in Lowered Position	in. (mm)
	19		Standard Mast Extended Height without/with LBR	in. (mm)
	20		Height of Standard Overhead Guard	in. (mm)
			Height of Optional Overhead Guard	in. (mm)
	21	Turning Radius	Minimum Outside (OTR)	in. (mm)
22	Load Distance	Center of Wheel to Face of Forks/Front Overhang	in. (mm)	
23	Aisle Width	Right Angle Stack (Add Length of Load)	in. (mm)	
24	Equal Aisle	90 Degree Intersecting Aisle (W=42in., L=48in.)	in. (mm)	
PERFORMANCE	25	Speeds	Travel Speed – With Load/No Load	mph (km/h)
	26		Lift Speed – With Load/No Load: Std Mast 2 stg LFL	ft./min (m/s)
			Lift Speed – With Load/No Load: Opt 2 Stg FFL Mast	
			Lift Speed – With Load/No Load: Opt 3 FFL Stg Mast	
	27		Lowering Speed – With Load/No Load Std Mast 2 Stg LFL	
			Lowering Speed – With Load/No Load Opt 2 Stg FFL Mast	
			Lowering Speed – With Load/No Load Opt 3 Stg FFL Mast	
	28	Drawbar Pull	With Load/No Load Maximum	
	With Load/No Load @ 1 mph		lb. (kg.)	
	With Load/No Load @ 3 mph		lb. (kg.)	
29	Gradeability	With Load/No Load @ 1 mph	%	
		With Load/No Load @ 3 mph	%	
WT.	31	Weight	Std Truck, Unloaded	lb. (kg.)
	32	Axle Loads	No Load – Front/Rear	lb. (kg.)
			With Load – Front/Rear	lb. (kg.)
WHEELS & TIRES	33	Tire Size	Front	
	34		Rear	
	35	Wheelbase	Distance	in. (mm)
	37	Ground Clearance	No Load at Lowest Point (w/rated load)	in. (mm)
			No Load at Center of Wheelbase	in. (mm)
	39	Brakes	Brakes Service – Method of Control/Operation	
40	Brakes Park – Method of Control/Operation			
TRANS. & POWER UNIT	41	Battery	Type	
	42		Volts/Cold Cranking Amps	v/cca
	43	ICE Engine	Manufacturer/Model	
	44		Output	hp (KW)
	45		Torque @ Rated RPM	ft Lbs. (kg/m)
	46		Number of Cylinders/Displacement	No. cc (ci)
	47		Transmission	With ICE Drive
		Number of Standard Speeds Fwd-Rev/Optional Speeds Fwd – Rev		Speeds
	48	Fuel Tank	Capacity	
49	Aux Hydraulic Pressure Relief Setting	Pressure Relief Setting for Auxilliary Attachments	PSI (Mpa)	

Yale			
Veracitor GC80VX			
Standard Electronic Powershift	Techtronix 100 (Single-Speed)	Techtronix 100X (2-Speed)	Techtronix 200X (2-Speed)
GM 4.3L	GM 4.3L	GM 4.3L	GM 4.3L
8000 (4000)	8000 (4000)	8000 (4000)	8000 (4000)
24 (500)	24 (500)	24 (500)	24 (500)
LP	LP	LP	LP
Seated Rider	Seated Rider	Seated Rider	Seated Rider
15.6 (396)	15.6 (396)	15.6 (396)	15.6 (396)
Cushion	Cushion	Cushion	Cushion
2x/2	2x/2	2x/2	2x/2
120 (3050)	120 (3050)	120 (3050)	120 (3050)
5 (150)	5 (150)	5 (150)	5 (150)
35 (900)	35 (900)	35 (900)	35 (900)
42.0 (1067)	42.0 (1067)	42.0 (1067)	42.0 (1067)
2.0 X 5.0 X 48 (50 X 125 X 1219)	2.0 X 5.0 X 48 (50 X 125 X 1219)	2.0 X 5.0 X 48 (50 X 125 X 1219)	2.0 X 5.0 X 48 (50 X 125 X 1219)
38.3 (972)	38.3 (972)	38.3 (972)	38.3 (972)
5F/6B	5F/6B	5F/6B	5F/6B
103.5 (2630)	103.5 (2630)	103.5 (2630)	103.5 (2630)
46.1/50.0 (1170/1270)	46.1/50.0 (1170/1270)	46.1/50.0 (1170/1270)	46.1/50.0 (1170/1270)
85 (2138)	85 (2138)	85 (2138)	85 (2138)
154/171 (3887/4322)	154/171 (3887/4322)	154/171 (3887/4322)	154/171 (3887/4322)
86.0 (2171)	86.0 (2171)	86.0 (2171)	86.0 (2171)
83.0 (2104)	83.0 (2104)	83.0 (2104)	83.0 (2104)
90.5 (2298)	90.5 (2298)	90.5 (2298)	90.5 (2298)
17.6 (447)	17.6 (447)	17.6 (447)	17.6 (447)
156.1 (3964)	156.1 (3964)	156.1 (3964)	156.1 (3964)
82.0 (2084)	82.0 (2084)	82.0 (2084)	82.0 (2084)
10.7/10.4 (17.2/16.7)	10.7/10.4 (17.2/16.7)	12.5/12.1 (20.1/19.5)	12.5/12.1 (20.1/19.5)
120.1/122.0 (.61/.62)	120.1/122.0 (.61/.62)	120.1/122.0 (.61/.62)	120.1/122.0 (.61/.62)
106.3/108.3 (.54/.55)	106.3/108.3 (.54/.55)	106.3/108.3 (.54/.55)	106.3/108.3 (.54/.55)
112.2/114.2 (.57/.58)	112.2/114.2 (.57/.58)	112.2/114.2 (.57/.58)	112.2/114.2 (.57/.58)
108.3/92.5 (.55/.47)	108.3/92.5 (.55/.47)	108.3/92.5 (.55/.47)	108.3/92.5 (.55/.47)
98.4/70.9 (.50/.36)	98.4/70.9 (.50/.36)	98.4/70.9 (.50/.36)	98.4/70.9 (.50/.36)
104.3/106.3 (.53/.54)	104.3/106.3 (.53/.54)	104.3/106.3 (.53/.54)	104.3/106.3 (.53/.54)
6923/3001 (3140/1361)	6923/3001 (3140/1361)	7000/3001 (3175/1361)	7000/3001 (3175/1361)
6175/3001 (2801/1361)	6175/3001 (2801/1361)	6920/3001 (3139/1361)	7000/3001 (3175/1361)
4800/3001 (2177/1361)	4800/3001 (2177/1361)	5200/3001 (2359/1361)	5800/3001 (2631/1361)
29.8/22.6	29.8/22.6	33.8/22.6	34.2/22.6
23.0/22.6	23.0/22.6	25.0/22.6	28.0/22.6
13078 (5932)	13078 (5932)	13078 (5932)	13078 (5932)
5165/7912 (2343/3589)	5165/7912 (2343/3589)	5165/7912 (2343/3589)	5165/7912 (2343/3589)
19471/2156 (8832/978)	19471/2156 (8832/978)	19471/2156 (8832/978)	19471/2156 (8832/978)
22 X 9 X 16	22 X 9 X 16	22 X 9 X 16	22 X 9 X 16
18 X 7 X 12.12	18 X 7 X 12.12	18 X 7 X 12.12	18 X 7 X 12.12
61.8 (1570)	61.8 (1570)	61.8 (1570)	61.8 (1570)
4.5 (114)	4.5 (114)	4.5 (114)	4.5 (114)
6.0 (152)	6.0 (152)	6.0 (152)	6.0 (152)
Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic
Hand/Mechanical	Hand/Mechanical	Hand/Mechanical	Hand/Mechanical
Maintenance Free	Maintenance Free	Maintenance Free	Maintenance Free
12/475	12/475	12/475	12/475
GM	GM	GM	GM
98 (73) @ 2400 RPM	98 (73) @ 2400 RPM	98 (73) @ 2400 RPM	98 (73) @ 2400 RPM
210 (285) @ 2400 RPM	210 (285) @ 2400 RPM	210 (285) @ 2400 RPM	210 (285) @ 2400 RPM
6/4302 (262)	6/4302 (262)	6/4302 (262)	6/4302 (262)
Powershift	Electronically Controlled Powershift	Electronically Controlled Powershift	Electronically Controlled Powershift
1-1	1-1	2-1	2-1
LPG	LPG	LPG	LPG
2250 (155)	2250 (155)	2250 (155)	2250 (155)

Yale				1
Veracitor GC80VX BCS (Box Car Special)				2
Standard Electronic Powershift	Techtronix 100 (Single-Speed)	Techtronix 100X (2-Speed)	Techtronix 200X (2-Speed)	
GM 4.3L	GM 4.3L	GM 4.3L	GM 4.3L	
8000 (4000)	8000 (4000)	8000 (4000)	8000 (4000)	3
24 (500)	24 (500)	24 (500)	24 (500)	4
LP	LP	LP	LP	5
Seated Rider	Seated Rider	Seated Rider	Seated Rider	6
15.6 (396)	15.6 (396)	15.6 (396)	15.6 (396)	7
Cushion	Cushion	Cushion	Cushion	8
2x/2	2x/2	2x/2	2x/2	9
120 (3050)	120 (3050)	120 (3050)	120 (3050)	10
5 (150)	5 (150)	5 (150)	5 (150)	11
35 (900)	35 (900)	35 (900)	35 (900)	12
42.0 (1067)	42.0 (1067)	42.0 (1067)	42.0 (1067)	13
2.0 X 5.0 X 48 (50 X 125 X 1219)	2.0 X 5.0 X 48 (50 X 125 X 1219)	2.0 X 5.0 X 48 (50 X 125 X 1219)	2.0 X 5.0 X 48 (50 X 125 X 1219)	14
38.3 (972)	38.3 (972)	38.3 (972)	38.3 (972)	15
5F/6B	5F/6B	5F/6B	5F/6B	16
95.6 (2428)	95.6 (2428)	95.6 (2428)	95.6 (2428)	17
46.1/50.0 (1170/1270)	46.1/50.0 (1170/1270)	46.1/50.0 (1170/1270)	46.1/50.0 (1170/1270)	18
85 (2138)	85 (2138)	85 (2138)	85 (2138)	19
154/171 (3887/4322)	154/171 (3887/4322)	154/171 (3887/4322)	154/171 (3887/4322)	20
86.0 (2171)	86.0 (2171)	86.0 (2171)	86.0 (2171)	21
83.0 (2104)	83.0 (2104)	83.0 (2104)	83.0 (2104)	22
82.8 (2102)	82.8 (2102)	82.8 (2102)	82.8 (2102)	23
17.6 (447)	17.6 (447)	17.6 (447)	17.6 (447)	24
148.3 (3768)	148.3 (3768)	148.3 (3768)	148.3 (3768)	25
79.8 (2026)	79.8 (2026)	79.8 (2026)	79.8 (2026)	26
10.7/10.4 (17.2/16.7)	10.7/10.4 (17.2/16.7)	12.5/12.1 (20.1/19.5)	12.5/12.1 (20.1/19.5)	27
120.1/122.0 (.61/.62)	120.1/122.0 (.61/.62)	120.1/122.0 (.61/.62)	120.1/122.0 (.61/.62)	28
106.3/108.3 (.54/.55)	106.3/108.3 (.54/.55)	106.3/108.3 (.54/.55)	106.3/108.3 (.54/.55)	29
112.2/114.2 (.57/.58)	112.2/114.2 (.57/.58)	112.2/114.2 (.57/.58)	112.2/114.2 (.57/.58)	30
108.3/92.5 (.55/.47)	108.3/92.5 (.55/.47)	108.3/92.5 (.55/.47)	108.3/92.5 (.55/.47)	31
98.4/70.9 (.50/.36)	98.4/70.9 (.50/.36)	98.4/70.9 (.50/.36)	98.4/70.9 (.50/.36)	32
104.3/106.3 (.53/.54)	104.3/106.3 (.53/.54)	104.3/106.3 (.53/.54)	104.3/106.3 (.53/.54)	33
6923/3001 (3140/1361)	6923/3001 (3140/1361)	7000/3001 (3175/1361)	7000/3001 (3175/1361)	34
6175/3001 (2801/1361)	6175/3001 (2801/1361)	6920/3001 (3139/1361)	7000/3001 (3175/1361)	35
4800/3001 (2177/1361)	4800/3001 (2177/1361)	5200/3001 (2359/1361)	5800/3001 (2631/1361)	36
29.8/22.6	29.8/22.6	33.8/22.6	34.2/22.6	37
23.0/22.6	23.0/22.6	25.0/22.6	28.0/22.6	38
13521 (6133)	13521 (6133)	13521 (6133)	13521 (6133)	39
5736/7784 (2602/3531)	5736/7784 (2602/3531)	5736/7784 (2602/3531)	5736/7784 (2602/3531)	40
19707/2163 (8939/981)	19707/2163 (8939/981)	19707/2163 (8939/981)	19707/2163 (8939/981)	41
22 X 9 X 16	22 X 9 X 16	22 X 9 X 16	22 X 9 X 16	42
18 X 7 X 12.12	18 X 7 X 12.12	18 X 7 X 12.12	18 X 7 X 12.12	43
61.8 (1570)	61.8 (1570)	61.8 (1570)	61.8 (1570)	44
4.5 (114)	4.5 (114)	4.5 (114)	4.5 (114)	45
6.0 (152)	6.0 (152)	6.0 (152)	6.0 (152)	46
Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	47
Hand/Mechanical	Hand/Mechanical	Hand/Mechanical	Hand/Mechanical	48
Maintenance Free	Maintenance Free	Maintenance Free	Maintenance Free	49
12/475	12/475	12/475	12/475	
GM	GM	GM	GM	
98 (73) @ 2400 RPM	98 (73) @ 2400 RPM	98 (73) @ 2400 RPM	98 (73) @ 2400 RPM	
210 (285) @ 2400 RPM	210 (285) @ 2400 RPM	210 (285) @ 2400 RPM	210 (285) @ 2400 RPM	
6/4302 (262)	6/4302 (262)	6/4302 (262)	6/4302 (262)	
Powershift	Electronically Controlled Powershift	Electronically Controlled Powershift	Electronically Controlled Powershift	
1-1	1-1	2-1	2-1	
LPG	LPG	LPG	LPG	
2250 (155)	2250 (155)	2250 (155)	2250 (155)	

GENERAL

DIMENSIONS

PERFORMANCE

WT.

WHEELS & TIRES

TRANS. & POWER UNIT