

13,500 • 15,500 lbs

Yale® Veracitor™ GC-VX Series

This series of trucks is available in two configurations to meet and exceed your material handling application requirements. The Veracitor™ truck offers first-rate performance and is geared to minimize your cost of acquisition without compromising performance. The Veracitor™ Value truck provides excellent performance and is optimized for lowest hourly cost of operation.

Yale Veracitor™ VX GM Vortec™ 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. GM LP engines include replaceable 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 engines also feature an electronic throttle for precise performance and control.

Yale Veracitor™ Optional Cummins 4B

Diesel Engines feature 4-valves per cylinder for improved horsepower and low end torque. The engines feature oil cooled pistons which help maintain even cylinder temperatures. Built with forged steel crankshafts for durability, the Cummins engines are fully EPA emissions compliant, utilizing a mechanical fuel system controlled by the **Intellix VSM**.

Fuel System

The standard GM Gas and 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 regulates the fuel, air, and spark advance to provide the neces-

sary 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 two transmission selections available that will handle a wide variety of material handling applications.

The standard electronic powershift transmission features two forward and two reverse speeds with electronic shift control, smooth hydraulic inching, 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 332 includes all the features of the standard electronic powershift transmission. In addition, Auto Deceleration is accomplished through the controlled application of the clutch packs. Tire spin is reduced by precisely regulating engine speed during controlled power reversals (below 7 mph). Inching is controlled electronically. Techtronix 332 transmission features three speeds forward and two speeds in reverse for excellent gradeability and drawbar pull while allowing top travel speeds for maximum productivity.

Cooling System employs a 19" (diameter) blade pusher-type fan made of steel. 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. The standard combi-cooler radiator features an externally mounted transmission oil cooler for increased heat transfer capability. Both the radiator and oil cooler are built with square-wave construction to reduce clogging from debris and are soft-mounted for excellent durability.

Gas Engine Specifications

Engine Gas	GM Vortec™
Cylinders Gas	V-6
Displacement Gas	262 cu.in./4.3 liter
Torque Gas	210 lb.ft. @ 2400 RPM
Horsepower Gas	97 hp @ 2400 RPM
Air Filtration	Two Stage, Dry Type
Emission Control	Closed loop

LP Engine Specifications

Engine LP	GM Vortec™
Cylinders LP	V-6
Displacement LP	262 cu.in./4.3 liter
Torque LP	225 lb.ft. @ 2400 RPM
Horsepower LP	103 hp @ 2400 RPM
Air Filtration	Two Stage, Dry Type
Emission Control	Closed loop

Diesel Engine Specifications

Engine Diesel	Cummins 4B
Cylinders Diesel	I-4
Displacement Diesel	275 cu.in./4.5 liter
Torque Diesel	225 lb.ft. @ 1300 RPM
Horsepower Diesel	78 hp @ 2050 RPM
Air Filtration	Two Stage, Dry Type
Emission Control	Closed loop

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

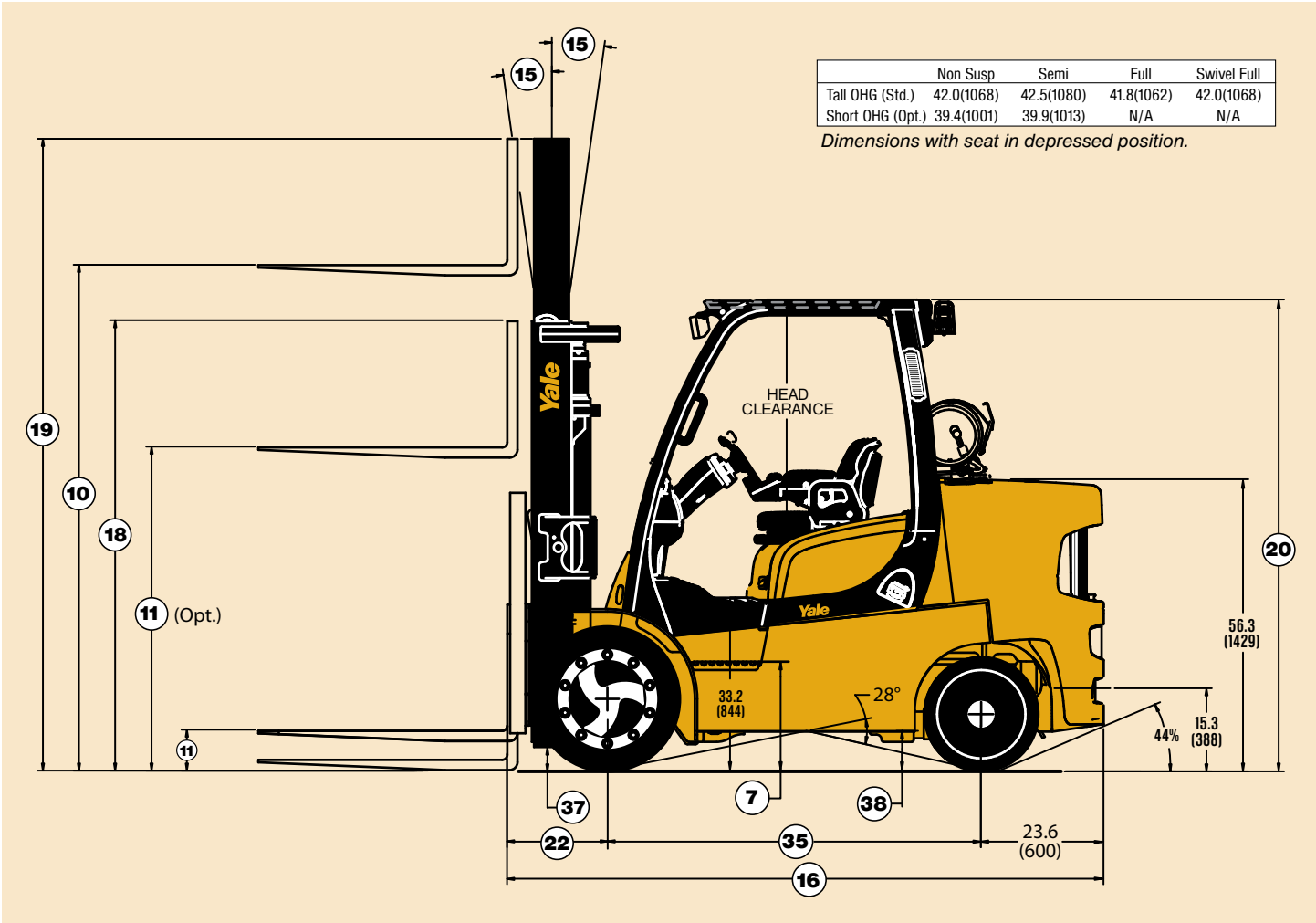
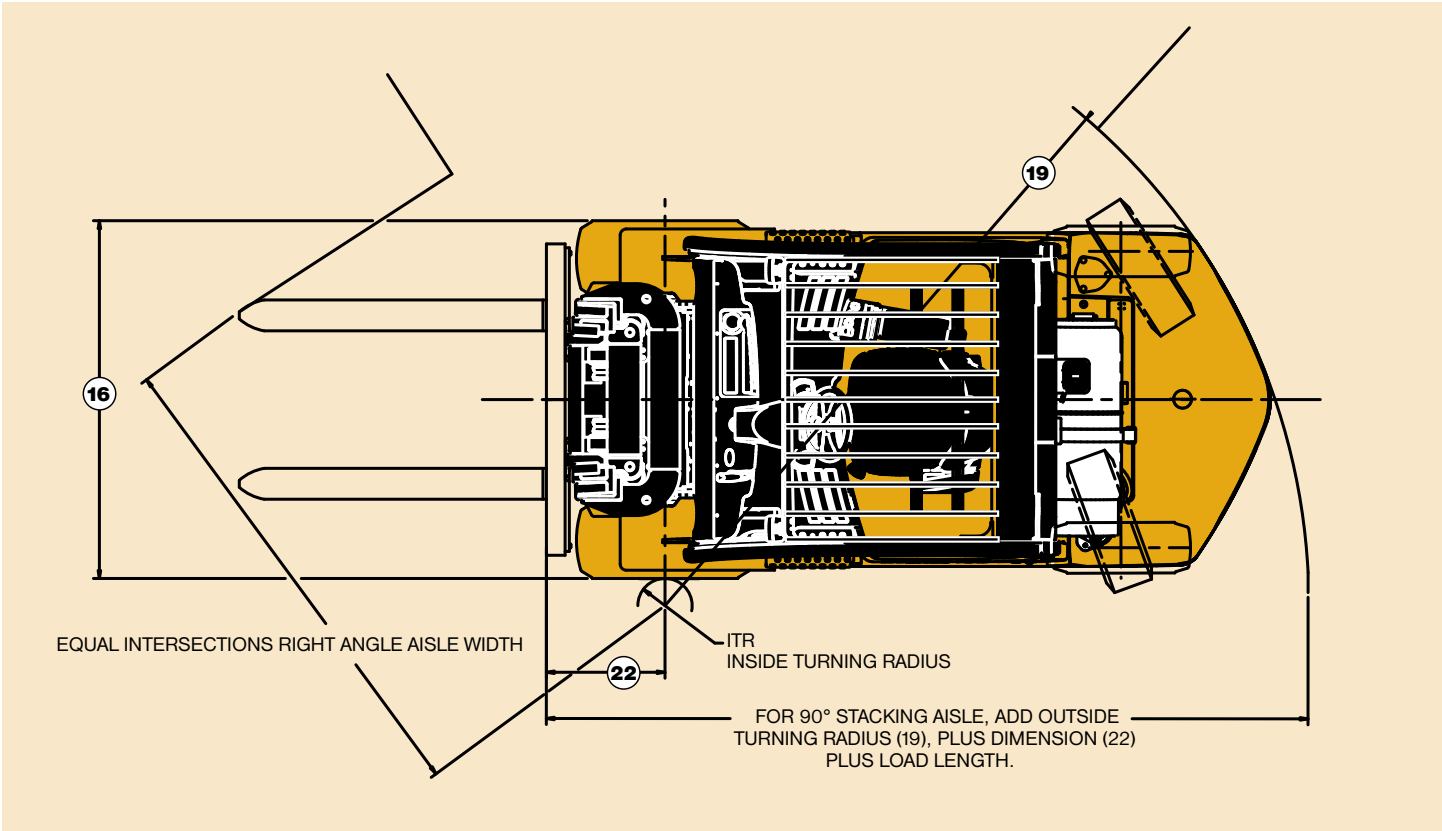
The drive axle is a "self contained" assembly that is isolated from the transmission by the drive shaft and heavy-duty rubber isolators. The axle shafts utilize a "rolled fillet" root spline design for increased resistance to torsion stress. A magnetic sump plug is used to collect any metal particles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

Oil-cooled wet disc brakes are standard and 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.



Truck shown with optional equipment

(continued on back page)



The hydraulically boosted single circuit master cylinder has a 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 release has an audible alarm to indicate when the operator has left the truck without applying the parking brake.

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.

Steer Axle is constructed of cast steel and is rubber shock mounted to the frame for reduced wear and vibration, while allowing excellent stability and axle articulation. The steer axle system features tapered spindle bearings and non-adjustable tie rod end for durability.

Chassis designed by state-of-the-art finite element methods features inch-thick frame members and contains a rugged, unitized frame structure with a low step for simple entrance to the operator's compartment. Ergonomically designed overhead guard is bar type for excellent visibility and reduced noise.

Operator's Compartment features cowl mounted hydraulic control levers positioned on the right side of the steering column.

Optional Accutouch minilever, electro-hydraulic controls are integrated into the operator's right-side armrest allowing superior ergonomic actuation. Automotive-style pedal arrangement with a large, single inch/brake pedal is standard. Rubber floor mat reduces noise and vibration. The floorplate can be removed without tools for excellent service access. Low step height and a convenient hand grip provide easy entry and exit to and from the truck.

Intellix VSM acts as a master truck controller, providing extensive monitoring and control of truck functions and systems. CANbus technology reduces wiring complexity and enables comprehensive communications between truck systems. The ergonomically positioned dash display transmits continual feedback to the operator and allows for communication of service codes. Comprehensive on-board diagnostics enable quick and easy troubleshooting. The electrical system features sealed connectors and Hall Effect sensors for superior dependability.

Hydraulic System incorporates a gear type pump with a cast iron body for quiet efficiency. The system is protected from overloads by a main relief valve for the lift circuit and a secondary relief valve for tilt and auxiliary functions. Oil is double filtered through a 100 mesh suction line strainer and 10 micron return line filter. The hydraulic tank is integrated into the frame. For Accutouch minilever, electro-hydraulic controls, an emergency lowering valve is provided to allow the load to be lowered in the event of power loss. O-ring face seal fittings are used in all high pressure hydraulic connections.

Yale® Hi-Vis™ Masts are available in 2 Stage LFL (Limited Free Lift) and 3 Stage FFL (Full Free Lift) models. Mast features flush-faced design with geometrically matched load roller bearings which are canting to support front and side thrust. The mast front rail flange angle coupled with three degree mast rollers significantly reduce channel and roller wear. A non-metallic phenolic mast trunnion bushing with woven reinforcement offers high load carrying capability with outstanding durability.

Options

4.5L Cummins Diesel Engine
 Powertrain protection system
 Premium monitoring package
 High air intake with precleaner
 Accumulator
 Keyless start (w/auxiliary key switch)
 LED brake and back-up lights
 Headlights and rear drive lights with halogen bulbs
 Traction speed limiter
 Swing-out, drop-down EZ-Tank Bracket
 Accutouch minilever, electro-hydraulic control
 Electro-hydraulic control
 Return-to-set tilt
 Rear drive handle with horn button
 Swivel full suspension seats
 Foot Directional Control pedal
 Operator password
 Mirrors - dual side view
 Alarm-Reverse Actuated 82-102 dB(A) - Self-Adjusting
 Amber Strobe Light - Continuous Activated
 Paper Applications Kit
 4 function (2 aux) hydraulic control valve
 6° forward/6° backward tilt

Standard Lift Specifications						Approx. Truck Wt. with standard configuration	
Model GC135-155VX	O.A.H. in (mm)	Free Fork Height w/o LBR in (mm)	Max Fork Height in (mm)	Extended Height w/LBR in (mm)	Tilt Rwd/Fwd	GC135VX Lbs (Kg)	GC155VX Lbs (Kg)
	87 (2197)	6 (160)	94 (2400)	143 (3632)	10°/6°	18740 (8500)	20640 (9360)
2 Stage LFL	107 (2697)	6 (160)	133 (3400)	183 (4632)	10°/6°	19040 (8635)	20940 (9500)
	126 (3197)	6 (160)	173 (4400)	222 (5632)	10°/6°	19490 (8840)	21390 (9700)
3 Stage FFL	88 (2227)	44 (1125)	149 (3800)	198 (5026)	6°/6°	19590 (8885)	21500 (9750)
	100 (2527)	56 (1425)	185 (4700)	234 (5926)	6°/6°	19850 (9005)	21750 (9865)
	112 (2827)	67 (1725)	220 (5600)	269 (6826)	6°/6°	20100 (9115)	22000 (9980)

Note: GC135-155VX use standard 28 x 12 x 22 drive tires @ 56.6 inch (1438 mm) overall width.

Truck performance may be affected by the condition of the vehicle, how it is equipped and the application. Consult your Yale Industrial Truck Dealer if any of the information shown is critical to your application. Specifications are subject to change without notice.

This truck meets all design specifications of ANSI B56.1 Safety Standard for Powered Industrial Trucks at the time of manufacture. Classified by Underwriters' Laboratories, Inc. as to fire hazard only.

The Yale products included in this document may be covered by US patent 6,684,148 and other patents pending.

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Yale Materials Handling Corporation
 P.O. Box 7367, Greenville, North Carolina 27835-7367

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Manufactured in our own ISO 9001:2000 Registered Facilities

Cummins 4.5L			
Std. Electronic Transmission		Techtronix 332	
13,500	6,000	13,500	6,000
24	610	24	610
Diesel		Diesel	
Seated Rider		Seated Rider	
20.9 (531)		20.9 (531)	
Cushion		Cushion	
2/2		2/2	
44.6 (1133)		44.6 (1133)	
46.9 (1192)		46.9 (1192)	
133 (3400)		133 (3400)	
6 (160)		6 (160)	
50 (1295)		50 (1295)	
56 (1425)		56 (1425)	
48.0 (1219)		48.0 (1219)	
6 X 2.5 X 48 (150 X 60 X 1219)		6 X 2.5 X 48 (150 X 60 X 1219)	
6.3 (160)		6.3 (160)	
43.7 (1109)		43.7 (1109)	
6F/10B		6F/10B	
115.4 (2930)		115.4 (2930)	
56.6 (1438)		56.6 (1438)	
107 (2697)		107 (2697)	
181 (4575)		181 (4575)	
183 (4632)		183 (4632)	
91 (2302)		91 (2302)	
88 (2235)		88 (2235)	
15.3 (388)		15.3 (388)	
101.8 (2585)		101.8 (2585)	
4.3 (108)		4.3 (108)	
19.7 (500)		19.7 (500)	
169.4 (4304)		169.4 (4304)	
121.5 (3085)		121.5 (3085)	
91.2 (2317)		91.2 (2317)	
12.9/12.4 (20.7/20.0)		13.0/12.5 (20.9/20.2)	
96.5/104.3 (0.49/0.53)		96.5/104.3 (0.49/0.53)	
92.5/102.4 (0.47/0.52)		92.5/102.4 (0.47/0.52)	
110.2/84.6 (0.56/0.43)		110.2/84.6 (0.56/0.43)	
100.4/70.9 (0.51/0.36)		100.4/70.9 (0.51/0.36)	
10589/4519 (4803/2050)		10000/4519 (4536/2050)	
8071/4519 (3661/2050)		10004/4519 (4538/2050)	
5050/4519 (2291/2050)		5600/4519 (2540/2050)	
34.1	24.0	32.0	24.0
25.3	24.0	32.0	24.0
15.8	24.0	17.2	24.0
19350 (8775)		19350 (8775)	
29600/3250 (13425/1475)		29600/3250 (13425/1475)	
7930/11420 (3595/5180)		7930/11420 (3595/5180)	
28 X 12 X 22		28 X 12 X 22	
22 X 8 X 16		22 X 8 X 16	
72 (1830)		72 (1830)	
4.4 (113)		4.4 (113)	
7.4 (188)		7.4 (188)	
Hydraulic Wet Disc/Foot		Hydraulic Wet Disc/Foot	
Mechanical/Hand		Mechanical/Hand	
Maintenance Free		Maintenance Free	
12V/900		12V/900	
Cummins 4B Diesel		Cummins 4B Diesel	
77.8 (58) @ 2050 rpm		77.8 (58) @ 2050 rpm	
225 (305) @ 1300 rpm		225 (305) @ 1300 rpm	
4/4500 (275)		4/4500 (275)	
Elec. Controlled Powershift		Elec. Controlled Powershift	
2F/2R		3F/2R	
(18.5) 70		(18.5) 70	
2200 (153)		2200 (153)	
16.3 (61.8)		16.3 (61.8)	

GM 4.3L			
Std. Electronic Transmission			
15,500	7,000	15,500	7,000
24	610	24	610
Gas		LP	
Seated Rider		Seated Rider	
20.9 (531)		20.9 (531)	
Cushion		Cushion	
2/2		2/2	
44.6 (1133)		44.6 (1133)	
46.9 (1192)		46.9 (1192)	
133 (3400)		133 (3400)	
6 (160)		6 (160)	
50 (1295)		50 (1295)	
56 (1425)		56 (1425)	
48.0 (1219)		48.0 (1219)	
6 X 2.5 X 48 (150 X 60 X 1219)		6 X 2.5 X 48 (150 X 60 X 1219)	
6.3 (160)		6.3 (160)	
43.7 (1109)		43.7 (1109)	
6F/10B		6F/10B	
115.4 (2930)		115.4 (2930)	
56.6 (1438)		56.6 (1438)	
107 (2697)		107 (2697)	
181 (4575)		181 (4575)	
183 (4632)		183 (4632)	
91 (2302)		91 (2302)	
88 (2235)		88 (2235)	
15.3 (388)		15.3 (388)	
101.8 (2585)		101.8 (2585)	
4.3 (108)		4.3 (108)	
19.7 (500)		19.7 (500)	
169.4 (4304)		169.4 (4304)	
121.5 (3085)		121.5 (3085)	
91.2 (2317)		91.2 (2317)	
12.7/12.3 (20.5/19.8)		12.7/12.3 (20.5/19.8)	
104.3/104.3 (0.53/0.53)		104.3/104.3 (0.53/0.53)	
100.4/100.4 (0.51/0.51)		100.4/100.4 (0.51/0.51)	
110.2/84.6 (0.56/0.43)		110.2/84.6 (0.56/0.43)	
100.4/70.9 (0.51/0.36)		100.4/70.9 (0.51/0.36)	
10004/4316 (4538/1958)		10813/4316 (4905/1958)	
8093/4316 (3671/1958)		8813/4316 (3997/1958)	
5148/4316 (2335/1958)		5643/4316 (2560/1958)	
29.0	21.6	31.5	21.6
23.1	21.6	25.3	21.6
14.2	21.6	15.9	21.6
20940 (9500)		21060 (9550)	
33110/3330 (15020/1510)		33120/3440 (15025/1560)	
8240/12700 (3740/5760)		8250/12810 (3740/5810)	
28 X 12 X 22		28 X 12 X 22	
22 X 8 X 16		22 X 8 X 16	
72 (1830)		72 (1830)	
4.4 (113)		4.4 (113)	
7.4 (188)		7.4 (188)	
Hydraulic Wet Disc/Foot		Hydraulic Wet Disc/Foot	
Mechanical/Hand		Mechanical/Hand	
Maintenance Free		Maintenance Free	
12V / 475		12V / 475	
GM Vortec™ Gas		GM Vortec™ LP	
96.6 (72) @ 2400 rpm		103.3 (77) @ 2400 rpm	
210 (285) @ 2400 rpm		225 (305) @ 2400 rpm	
V6/4302 (262)		V6/4302 (262)	
Elec. Controlled Powershift		Elec. Controlled Powershift	
2F/2R		2F/2R	
18.5 (70)		18.5 (70)	
2200 (153)		2200 (153)	
16.3 (61.8)		16.3 (61.8)	

Yale®								1
								2
GM 4.3L				Cummins 4.5L				2a
Techtronix 332				Std. Electronic Transmission		Techtronix 332		2b
15,500	7,000	15,500	7,000	15,500	7,000	15,500	7,000	3
24	610	24	610	24	610	24	610	4
Gas		LP		DSL		DSL		5
Seated Rider		Seated Rider		Seated Rider		Seated Rider		6
20.9 (531)		20.9 (531)		20.9 (531)		20.9 (531)		7
Cushion		Cushion		Cushion		Cushion		8
2/2		2/2		2/2		2/2		9
44.6 (1133)		44.6 (1133)		44.6 (1133)		44.6 (1133)		
46.9 (1192)		46.9 (1192)		46.9 (1192)		46.9 (1192)		
133 (3400)		133 (3400)		133 (3400)		133 (3400)		10
6 (160)		6 (160)		6 (160)		6 (160)		11
50 (1295)		50 (1295)		50 (1295)		50 (1295)		11A
56 (1425)		56 (1425)		56 (1425)		56 (1425)		
48.0 (1219)		48.0 (1219)		48.0 (1219)		48.0 (1219)		12
6 X 2.5 X 48 (150 X 60 X 1219)		6 X 2.5 X 48 (150 X 60 X 1219)		6 X 2.5 X 48 (150 X 60 X 1219)		6 X 2.5 X 48 (150 X 60 X 1219)		13
6.3 (160)		6.3 (160)		6.3 (160)		6.3 (160)		
43.7 (1109)		43.7 (1109)		43.7 (1109)		43.7 (1109)		14
6F/10B		6F/10B		6F/10B		6F/10B		15
115.4 (2930)		115.4 (2930)		115.4 (2930)		115.4 (2930)		16
56.6 (1438)		56.6 (1438)		56.6 (1438)		56.6 (1438)		17
107 (2697)		107 (2697)		107 (2697)		107 (2697)		18
181 (4575)		181 (4575)		181 (4575)		181 (4575)		19
183 (4632)		183 (4632)		183 (4632)		183 (4632)		19A
91 (2302)		91 (2302)		91 (2302)		91 (2302)		20a
88 (2235)		88 (2235)		88 (2235)		88 (2235)		20b
15.3 (388)		15.3 (388)		15.3 (388)		15.3 (388)		
101.8 (2585)		101.8 (2585)		101.8 (2585)		101.8 (2585)		21
4.3 (108)		4.3 (108)		4.3 (108)		4.3 (108)		
19.7 (500)		19.7 (500)		19.7 (500)		19.7 (500)		22
169.4 (4304)		169.4 (4304)		169.4 (4304)		169.4 (4304)		23
121.5 (3085)		121.5 (3085)		121.5 (3085)		121.5 (3085)		
91.2 (2317)		91.2 (2317)		91.2 (2317)		91.2 (2317)		24
13.2/12.7 (21.3/20.6)		13.2/12.7 (21.3/20.6)		12.9/12.4 (20.7/20.0)		13.0/12.5 (20.9/20.2)		25
104.3/104.3 (0.53/0.53)		104.3/104.3 (0.53/0.53)		88.6/104.3 (0.45/0.53)		88.6/104.3 (0.45/0.53)		26A
100.4/100.4 (0.51/0.51)		100.4/100.4 (0.51/0.51)		84.6/102.4 (0.43/0.52)		84.6/102.4 (0.43/0.52)		26C
110.2/84.6 (0.56/0.43)		110.2/84.6 (0.56/0.43)		110.2/84.6 (0.56/0.43)		110.2/84.6 (0.56/0.43)		27A
100.4/70.9 (0.51/0.36)		100.4/70.9 (0.51/0.36)		100.4/70.9 (0.51/0.36)		100.4/70.9 (0.51/0.36)		27C
10000/4316 (4536/1958)		10004/4316 (4538/1958)		10544/4316 (4783/1958)		10000/4316 (4536/1958)		28A
10004/4316 (4538/1958)		10004/4316 (4538/1958)		8003/4316 (3630/1958)		10000/4316 (4536/1958)		28B
5440/4316 (2468/1958)		5643/4316 (2560/1958)		5000/4316 (2268/1958)		5525/4316 (2506/1958)		28C
29.1	21.6	29.1	21.6	30.7	21.6	29.1	21.6	
29.1	21.6	29.1	21.6	22.9	21.6	29.1	21.6	29A
15.4	21.6	16.0	21.6	14.1	21.6	15.7	21.6	29B
20940 (9500)		21060 (9550)		21250 (9640)		21250 (9640)		31
33110/3330 (15020/1510)		33120/3440 (15025/1560)		33210/3540 (15065/1605)		33210/3540 (15065/1605)		32a
8240/12700 (3740/5760)		8250/12810 (3740/5810)		8340/12910 (3785/5855)		8340/12910 (3785/5855)		32b
28 X 12 X 22		28 X 12 X 22		28 X 12 X 22		28 X 12 X 22		33
22 X 8 X 16		22 X 8 X 16		22 X 8 X 16		22 X 8 X 16		34
72 (1830)		72 (1830)		72 (1830)		72 (1830)		35
4.4 (113)		4.4 (113)		4.4 (113)		4.4 (113)		37
7.4 (188)		7.4 (188)		7.4 (188)		7.4 (188)		38
Hydraulic Wet Disc/Foot		Hydraulic Wet Disc/Foot		Hydraulic Wet Disc/Foot		Hydraulic Wet Disc/Foot		39
Mechanical/Hand		Mechanical/Hand		Mechanical/Hand		Mechanical/Hand		40
Maintenance Free		Maintenance Free		Maintenance Free		Maintenance Free		41
12V / 475		12V / 475		12V/900		12V/900		42
GM Vortec™ Gas		GM Vortec™ LP		Cummins 4B Diesel		Cummins 4B Diesel		43
96.6 (72) @ 2400 rpm		103.3 (77) @ 2400 rpm		77.8 (58) @ 2050 rpm		77.8 (58) @ 2050 rpm		44
210 (285) @ 2400 rpm		225 (305) @ 2400 rpm		225 (305) @ 1300 rpm		225 (305) @ 1300 rpm		45
V6/4302 (262)		V6/4302 (262)		4/4500 (275)		4/4500 (275)		46
Elec. Controlled Powershift		Elec. Controlled Powershift		Elec. Controlled Powershift		Elec. Controlled Powershift		47A
3F/2R		3F/2R		2F/2R		3F/2R		47B
18.5 (70)		18.5 (70)		18.5 (70)		18.5 (70)		48
2200 (153)		2200 (153)		2200 (153)		2200 (153)		49
16.3 (61.8)		16.3 (61.8)		16.3 (61.8)		16.3 (61.8)		

GENERAL

DIMENSIONS

PERFORMANCE

WT.

WHEELS & TIRES

TRANS. & POWER UNIT