

3,000 • 3,500 • 4,000 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™ Value truck provides excellent performance for standard and medium-duty applications and is optimized for lowest hourly cost of operation. The Veracitor™ Base truck offers first-rate performance for standard-duty applications and is geared to minimize your cost of acquisition without compromising performance.

Yale Veracitor™ VX Engines feature a rigid cast iron block and main bearing caps. Nodular iron crankshaft is supported on five main bearings. The camshaft is cast iron. Engines are EPA emissions compliant and feature closed loop emissions regulation systems that continually monitor exhaust and adjust fuel/air mix as necessary.

UL ratings of LP or G are standard in relation to engine option selection.

Fuel System

The Mazda LPG engine uses a single barrel carburetor with an LPG injector and a regulator/vaporizer. The Engine Control Unit controls the LPG injector fueling, and the carburetor and the regulator are not adjustable. The Gasoline engine uses Electronic Gasoline Injection (EGI). This is a port fuel injection system that uses Mass Air Flow sensor input to the ECU to determine fueling requirements.

Transmission

There are two transmission selections available that will handle a wide variety of material handling applications. Both transmissions feature electronic inching (requires no overlap 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 10 micron filter protects the transmission from abrasive contaminants.

The Techtronix 100 features Auto Deceleration through the controlled application of clutch packs, and also reduces tire spin by precisely regulating engine speed during controlled power reversals.

Cooling System employs a 17" 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. The transmission oil cooler is integrated into the radiator and is located in the side tank. All radiators are soft-mounted for excellent durability.

Drive Axle

The drive axles are designed to withstand heavy-duty loads and absorb shock loads. The wheel hubs rotate on large tapered roller bearings. The drive shaft transmits torsion to the drive axle from the engine and transmission. Transmission torque occurs through an industrial hypoid ring gear and pinion differential assembly.

The drive axle is a "self contained" assembly that is isolated from the transmission by a heavy-duty rubber isolator. 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 excessive component wear.

Value LP/Gas Engine Specifications

Engine Gas/LP	Mazda 2.0L
Cylinders	4
Camshaft	Overhead Valve
Displacement Gas/LP	122 cu.in/2.0 liter
Torque LP	91 lb.ft. @ 1800 RPM
Torque Gas	104 @ 1800 RPM
Horsepower LP	40 hp
Horsepower Gas	46 hp
Air Filtration	Two Stage, Dry Type
Emission Control	Closed loop

Base LP/Gas Engine Specifications

Engine Gas/LP	Mazda 2.0L
Cylinders	4
Camshaft	Overhead Valve
Displacement Gas/LP	122 cu.in/2.0 liter
Torque LP	91 lb.ft. @ 1800 RPM
Torque Gas	104 @ 1800 RPM
Horsepower LP	40 hp
Horsepower Gas	46 hp
Air Filtration	Two Stage, Dry Type
Emission Control	Closed loop

Brakes are hydraulic, duo-servo, self-energizing, and use automatic adjusting drum brake assemblies. Asbestos-free brake linings are bonded to steel shoes and act against cast iron drums. 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. The independent, hand adjustable parking brake with push-button locking has an audible alarm.

Hydrostatic Power 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.

continued on back



Truck shown with optional equipment



Steer Axle is constructed of cast steel and is rubber shock mounted to the frame for reduced wear and vibration. The CSE (Continuous Stability Enhancement) system enhances lateral truck stability through reduced steer axle articulation, while simultaneously allowing uncompromised uneven surface travel.

Chassis designed by state-of-the-art finite element methods 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 or Palmtech 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. Tilt cylinders are located beneath the floor for uncluttered space. Rubber floor mat reduces noise and vibration. 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, 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 or Palmtech joystick 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 Global Hi-Vis™ Masts are available in 2 Stage LFL, 2 Stage FFL, and 3 Stage FFL models. Mast features flush-faced design with geometrically matched, angled load roller bearings which are canted, yet provide full-face roller contact. The mast front rail flange angle coupled with the inverted "J" inner channel and three degree mast rollers significantly reduce channel and roller wear. "J-hook" mast mounting system allows for convenient mast installation and removal. A non-metallic phenolic mast pivot bushing with woven reinforcement offers high load carrying capability with outstanding durability.

Standard Lift Specifications						Approx. Truck Wt.		
Model	O.A.H.	Free Fork Height	Max Fork Height	Extended Height	Tilt	GC30VX	GC35VX	GC40SVX
GC30-40SVX	in (mm)	w/o LBR in (mm)	in (mm)	w/LBR in (mm)	Rwd/Fwd	Lbs (Kg)	Lbs (Kg)	Lbs (Kg)
2 Stage LFL	61 (1530)	5 (140)	83 (2132)	133 (3355)	5°/5°	6114 (2779)	6554 (2979)	6954 (3161)
	80 (2030)	5 (140)	123 (3132)	172 (4355)	5°/5°	6292 (2860)	6732 (3060)	7132 (3242)
	82 (2080)	5 (140)	127 (3232)	176 (4455)	5°/5°	6310 (2868)	6750 (3068)	7150 (3250)
2 Stage FFL	76 (1930)	51 (1306)	114 (2918)	164 (4161)	5°/5°	6330 (2877)	6770 (3077)	7170 (3259)
	82 (2080)	57 (1456)	126 (3218)	176 (4461)	5°/5°	6387 (2903)	6827 (3103)	7227 (3285)
3 Stage FFL	78 (1980)	53 (1356)	175 (4450)	224 (5673)	5°/5°	6599 (3000)	7039 (3200)	7439 (3381)
	82 (2080)	57 (1456)	187 (4750)	236 (5973)	5°/5°	6643 (3020)	7083 (3220)	7483 (3401)
	88 (2230)	63 (1606)	198 (5050)	247 (6273)	5°/5°	6700 (3045)	7140 (3245)	7540 (3427)
	94 (2380)	69 (1756)	216 (5500)	265 (6723)	5°/5°	6819 (3100)	7259 (3300)	7659 (3481)

Note: GC30VX has standard 18 x 6 x 12.1 drive tires @ 37.0 inch (940mm) overall width.
Note: GC35VX and GC40SVX have standard 18 x 7 x 12.1 drive tires @ 38.8 inch (986mm) overall width.

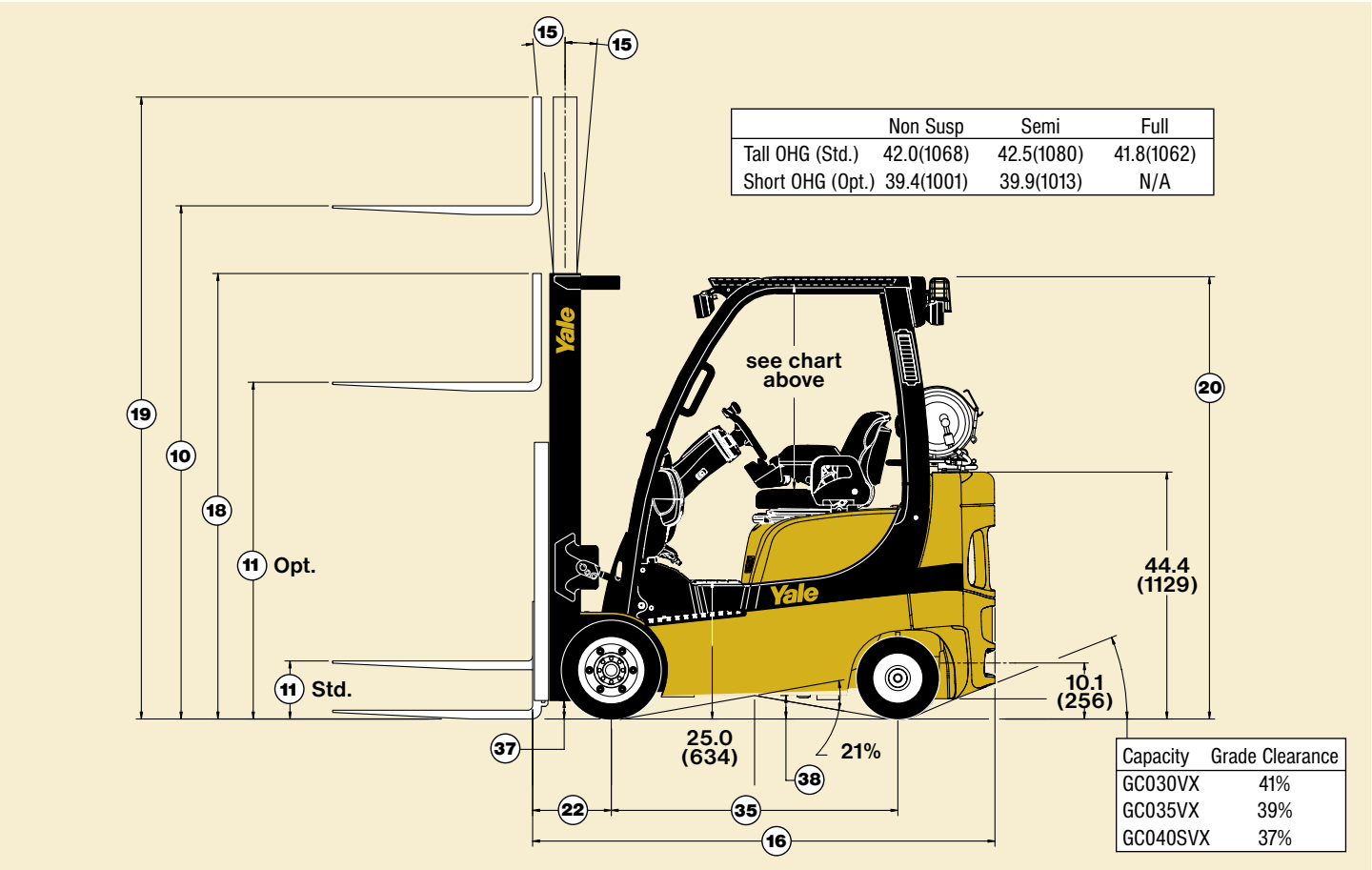
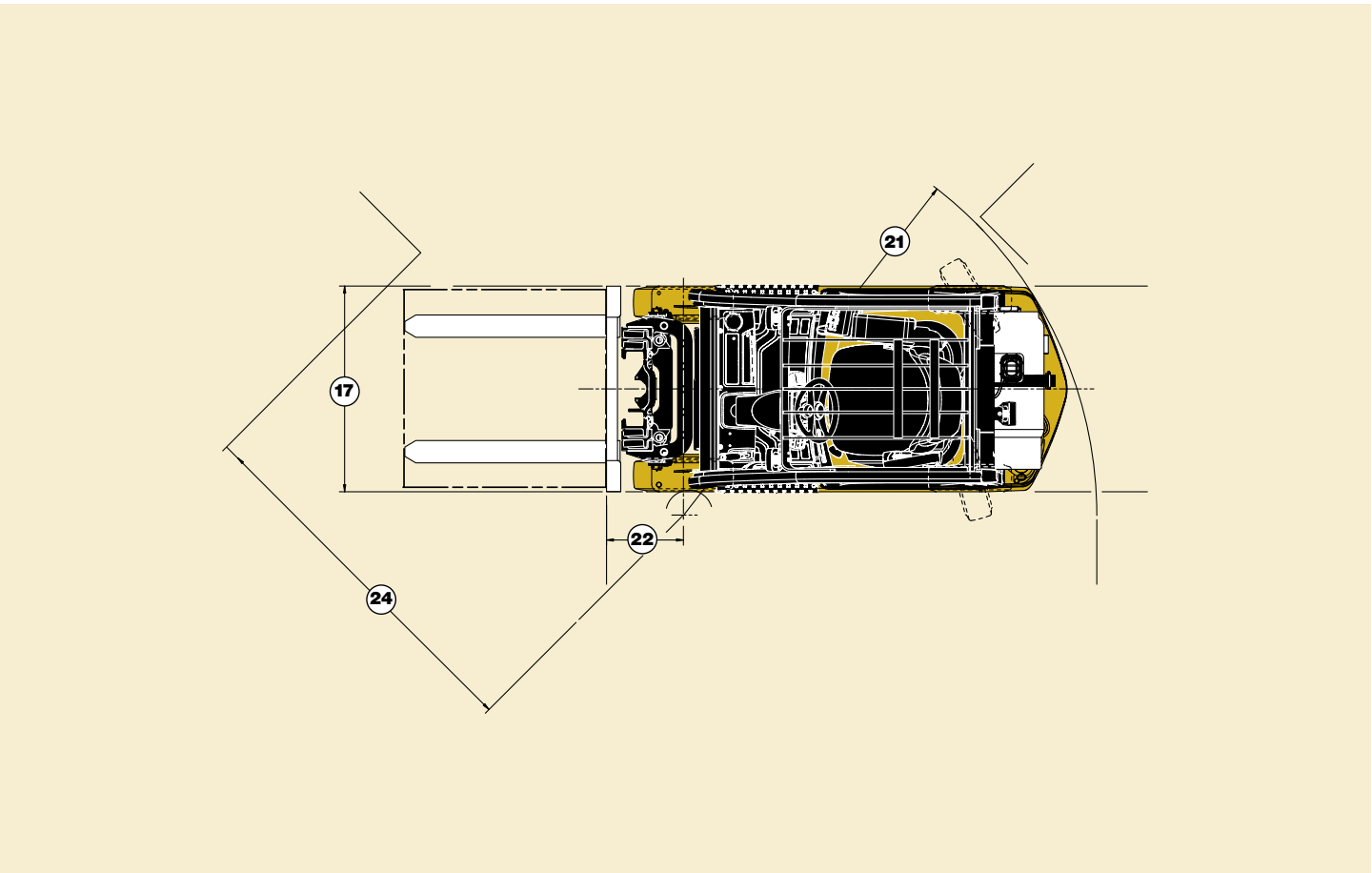


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GENERAL	1	Manufacturer	Manufacturer Name	
	2	Model	Manufacturer Designation	
		Transmission	Manufacturer Designation	
		Engine	Make	
	3	Capacity	Rated Capacity	lb. (kg)
	4	Load Center	Distance	in. (mm)
	5	Power Type	Gasoline, LPG, CNG, Diesel	
	6	Operator Type	Pedestrian, Stand-on, Seated Rider	
	7	Step Height		in. (mm)
DIMENSIONS	8	Tire Type	Cushion, Solid, Pneumatic, etc.	
	9	Wheels	Number - Front/Rear	
	10	Lift Height with 2-Stage Mast	Lift Height (Top of Fork)	in. (mm)
	11		Standard Free Lift (Top of Fork)	in. (mm)
			Optional Free Lift w/LBR (Top of Fork)	in. (mm)
	12	Std. Carriage Width	Maximum 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	Overall Length to Face of Forks	in. (mm)
	17		Overall Width Standard and Wide Figures	in. (mm)
	18		Height with Standard Mast	in. (mm)
	19		Height with Extended Mast with LBR	in. (mm)
	20		Height of Overhead Guard: Raised (Standard)	in. (mm)
			Height of Overhead Guard: Lowered (Optional)	in. (mm)
	21	Turning Radius	Outside (OTR)	in. (mm)
	22	Load Distance	Center of Wheel to Face of Forks/Front Overhang	in. (mm)
PERFORMANCE	23	Aisle Width	Right Angle Stack (Add Length of Load)	in. (mm)
	24	Equal Aisle	90 deg. Intersecting Aisle (W=42in., L=48in.)	in. (mm)
	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	
WT.	28	Drawbar Pull	With Load/No Load @ 1 mph	lb. (KN)
			With Load/No Load @ 3 mph	lb. (KN)
	29	Gradeability	With Load/No Load @ 1 mph	%
WHEELS & TIRES	31	Weight	Std Truck, Unloaded	lb. (kg.)
			Std Truck, Rated Load	lb. (kg.)
	32	Axle Loads	No Load - Front/Rear	lb. (kg.)
			With Load - Front/Rear	lb. (kg.)
	33	Tire Size	Front	
	34		Rear	
TRANS. & POWER UNIT	35	Wheelbase	Distance	in. (mm)
	37	Ground Clearance	No Load at Lowest Point (w/Load -6mm)	in. (mm)
	38		No Load at Center of Wheelbase	in. (mm)
	39	Brakes	Service - Method of Control/Method of Operation	
	40		Parking - Method of Control/Method of Operation	
	41	Battery	Type	
	42		Volts/Cold Cranking Amps	v/cca
	43	ICE Engine	Manufacturer/Model	
	44		Output	hp
	45		Torque	lbf ft (kg/m)
	46		Number of Cylinders/Displacement	No./cc (ci)
	47	Transmission	With ICE Drive	Type
			Number of Speeds Fwd/Rev	Speeds
	48	Fuel Tank	Capacity (Gasoline-Powered Units Only)	gal. (litre)
	49	Aux Hydraulic Pressure Relief Setting	Pressure Relief Setting for Auxiliary Attachments	PSI (Mpa)

Yale		Yale	
Veracitor Value		Veracitor Base	
Techtronix 100		Standard Electronic	
Mazda 2.0L		Mazda 2.0L	
3000		3000	
24		24	
LP	Gas	LP	Gas
Sit		Sit	
19.7 (500)		19.7 (500)	
Cushion		Cushion	
2x/2		2x/2	
127 (3218)		127 (3218)	
5 (100)		5 (100)	
31 (807)		31 (807)	
35.7 (907)		35.7 (907)	
1.6 X 3.9 X 42 (40 X 100 X 1067)		1.6 X 3.9 X 42 (40 X 100 X 1067)	
32.6 (828)		32.6 (828)	
5F/5B		5F/5B	
81.6 (2074)		81.6 (2074)	
37.0/42.7 (940/1085)		37.0/42.7 (940/1085)	
82.0 (2080)		82.0 (2080)	
176 (4455)		176 (4455)	
83 (2088)		83 (2088)	
80 (2021)		80 (2021)	
69.9 (1775)		69.9 (1775)	
14.1 (359)		14.1 (359)	
84.0 (2132)		84.0 (2132)	
70.2 (1783)		70.2 (1783)	
10.8/10.4 (17.4/16.8)		10.8/10.4 (17.4/16.8)	
112/114 (.57/.58)		112/114 (.57/.58)	
101/103 (.51/.52)		101/103 (.51/.52)	
105/107 (.53/.54)		105/107 (.53/.54)	
100/93 (.51/.47)		100/93 (.51/.47)	
91/73 (.46/.37)		91/73 (.46/.37)	
95/81 (.48/.41)		95/81 (.48/.41)	
2921/1505 (12.99/6.70)	3420/1505 (15.21/6.70)	2921/1505 (12.99/6.70)	3420/1505 (15.21/6.70)
1990/1505 (8.85/6.70)	2400/1505 (10.68/6.70)	1990/1505 (8.85/6.70)	2400/1505 (10.68/6.70)
32.9/25.7	39.3/25.7	32.9/25.7	39.3/25.7
6550 (2977)		6550 (2977)	
9550 (4341)		9550 (4341)	
3211/3322 (1456/1507)		3211/3322 (1456/1507)	
8342/1140 (3784/517.1)		8342/1140 (3784/517.1)	
18 x 6 x 12.1		18 x 6 x 12.1	
15 x 5 x 11.25		15 x 5 x 11.25	
51.6 (1310)		51.6 (1310)	
3.9 (100)		3.9 (100)	
4.2 (107)		4.2 (107)	
Foot/Hydraulic		Foot/Hydraulic	
Hand/Mechanical		Hand/Mechanical	
Maintenance Free		Maintenance Free	
12/440		12/440	
Mazda		Mazda	
40	46	40	46
91 (12.6) @ 1800 rpm	104 (14.4) @ 1800 rpm	91 (12.6) @ 1800 rpm	104 (14.4) @ 1800 rpm
4/1998 (122)		4/1998 (122)	
Electronically Controlled Powershift		Electronically Controlled Powershift	
1/1		1/1	
10.2 (38.8)		10.2 (38.8)	
2250 (15.5)		2250 (15.5)	

Yale		Yale	
Veracitor Value		Veracitor Base	
Techtronix 100		Standard Electronic	
Mazda 2.0L		Mazda 2.0L	
3500		3500	
24		24	
LP	Gas	LP	Gas
Sit		Sit	
19.7 (500)		19.7 (500)	
Cushion		Cushion	
2x/2		2x/2	
127 (3218)		127 (3218)	
5 (100)		5 (100)	
31 (807)		31 (807)	
35.7 (907)		35.7 (907)	
1.6 X 3.9 X 42 (40 X 100 X 1067)		1.6 X 3.9 X 42 (40 X 100 X 1067)	
32.6 (828)		32.6 (828)	
5F/5B		5F/5B	
83.1 (2111)		83.1 (2111)	
38.8/42.7 (986/1085)		38.8/42.7 (986/1085)	
82.0 (2080)		82.0 (2080)	
176 (4455)		176 (4455)	
83 (2088)		83 (2088)	
80 (2021)		80 (2021)	
71.3 (1811)		71.3 (1811)	
14.1 (359)		14.1 (359)	
85.4 (2168)		85.4 (2168)	
70.8 (1798)		70.8 (1798)	
10.8/10.4 (17.4/16.8)		10.8/10.4 (17.4/16.8)	
112/114 (.57/.58)		112/114 (.57/.58)	
101/103 (.51/.52)		101/103 (.51/.52)	
105/107 (.53/.54)		105/107 (.53/.54)	
100/93 (.51/.47)		100/93 (.51/.47)	
91/73 (.46/.37)		91/73 (.46/.37)	
95/81 (.48/.41)		95/81 (.48/.41)	
2903/1440 (12.91/6.40)	3402/1440 (15.13/6.40)	2903/1440 (12.91/6.40)	3402/1440 (15.13/6.40)
1945/1440 (8.65/6.40)	2375/1440 (10.56/6.40)	1945/1440 (8.65/6.40)	2375/1440 (10.56/6.40)
29.6/23.0	35.3/23.0	29.6/23.0	35.3/23.0
6710 (3050)		6710 (3050)	
10210 (4641)		10210 (4641)	
3124/3843 (1417/1743)		3124/3843 (1417/1743)	
9125/1292 (4139/586)		9125/1292 (4139/586)	
18 x 7 x 12.1		18 x 7 x 12.1	
15 x 5 x 11.25		15 x 5 x 11.25	
51.6 (1310)		51.6 (1310)	
3.9 (100)		3.9 (100)	
4.2 (107)		4.2 (107)	
Foot/Hydraulic		Foot/Hydraulic	
Hand/Mechanical		Hand/Mechanical	
Maintenance Free		Maintenance Free	
12/440		12/440	
Mazda		Mazda	
40	46	40	46
91 (12.6) @ 1800 rpm	104 (14.4) @ 1800 rpm	91 (12.6) @ 1800 rpm	104 (14.4) @ 1800 rpm
4/1998 (122)		4/1998 (122)	
Electronically Controlled Powershift		Electronically Controlled Powershift	
1/1		1/1	
10.2 (38.8)		10.2 (38.8)	
2250 (15.5)		2250 (15.5)	

Yale		Yale		1
Veracitor Value		Veracitor Base		2
Techtronix 100		Standard Electronic		3
Mazda 2.0L		Mazda 2.0L		4
4000		4000		5
24		24		6
LP	Gas	LP	Gas	7
Sit		Sit		8
19.7 (500)		19.7 (500)		9
Cushion		Cushion		10
2x/2		2x/2		11
127 (3218)		127 (3218)		12
5 (100)		5 (100)		13
31 (807)		31 (807)		14
35.7 (907)		35.7 (907)		15
1.6 X 3.9 X 42 (40 X 100 X 1067)		1.6 X 3.9 X 42 (40 X 100 X 1067)		16
32.6 (828)		32.6 (828)		17
5F/5B		5F/5B		18
84.4 (2143)		84.4 (2143)		19
38.8/42.7 (986/1085)		38.8/42.7 (986/1085)		20
82.0 (2080)		82.0 (2080)		21
176 (4455)		176 (4455)		22
83 (2088)		83 (2088)		23
80 (2021)		80 (2021)		24
72.5 (1842)		72.5 (1842)		25
14.1 (359)		14.1 (359)		26
86.6 (2199)		86.6 (2199)		27
71.2 (1809)		71.2 (1809)		28
10.8/10.4 (17.4/16.8)		10.8/10.4 (17.4/16.8)		29
112/114 (.57/.58)		112/114 (.57/.58)		30
101/103 (.51/.52)		101/103 (.51/.52)		31
105/107 (.53/.54)		105/107 (.53/.54)		32
100/93 (.51/.47)		100/93 (.51/.47)		33
91/73 (.46/.37)		91/73 (.46/.37)		34
95/81 (.48/.41)		95/81 (.48/.41)		35
2886/1376 (12.84/6.12)	3385/1376 (15.06/6.12)	2886/1376 (12.84/6.12)	3385/1376 (15.06/6.12)	36
1900/1376 (8.45/6.12)	2350/1376 (10.45/6.12)	1900/1376 (8.45/6.12)	2350/1376 (10.45/6.12)	37
26.3/20.2	31.2/20.2	26.3/20.2	31.2/20.2	38
7060 (3209)		7060 (3209)		39
11060 (5027)		11060 (5027)		40
3016/4330 (1368/1964)		3016/4330 (1368/1964)		41
9887/1410 (4485/639.6)		9887/1410 (4485/639.6)		42
18 x 7 x 12.1		18 x 7 x 12.1		43
15 x 5 x 11.25		15 x 5 x 11.25		44
51.6 (1310)		51.6 (1310)		45
3.9 (100)		3.9 (100)		46
4.2 (107)		4.2 (107)		47
Foot/Hydraulic		Foot/Hydraulic		48
Hand/Mechanical		Hand/Mechanical		49
Maintenance Free		Maintenance Free		50
12/440		12/440		51
Mazda		Mazda		52
40	46	40	46	53
91 (12.6) @ 1800 rpm	104 (14.4) @ 1800 rpm	91 (12.6) @ 1800 rpm	104 (14.4) @ 1800 rpm	54
4/1998 (122)		4/1998 (122)		55
Electronically Controlled Powershift		Electronically Controlled Powershift		56
1/1		1/1		57
10.2 (38.8)		10.2 (38.8)		58
2250 (15.5)		2250 (15.5)		59