

Yale® ERP-VL electric trucks are

available in 4,500 – 7000 pound capacities designed for demanding applications that require clean, quiet-running, heavyduty capability. These trucks are very maneuverable and offer plenty of power and high stacking ability, while also offering excellent ergonomics, reliability and maintenance ease. Pneumatic tires provide more comfort indoors and greater capabilities for outdoor applications.

AC Transistor Traction Control

AC technology offers smooth acceleration and directional changes, proportional regenerative braking and the Auto Deceleration System. The controller converts battery power to three phase AC power, and adjusts frequency and current to meet performance demands. Performance control settings and extensive diagnostics are accessible by technicians through the display or a PC. A Vehicle System Manager (VSM) utilizing CANbus technology monitors and controls key truck components and systems. The advanced thermal management system monitors component temperature and gradually adjusts performance to prevent damage to key components.

Controller Area Network (CANbus)

CANbus technology streamlines communications between truck systems through one main master controller, the Vehicle System Manager (VSM). Display, traction controller and pump controller are all controlled via the CANbus network. A connection point is provided for interface with a service PC.

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 display transmits continual feedback to the operator and allows for communication of service codes.

Electrical System

The ERP-VL utilizes AC motor technology designed for exceptional performance. It uses a brushless induction motor for high starting torque and smooth rapid acceleration. A speed sensor built into the motor provides feedback to the control system, allowing motor speed and direction to be continuously monitored.

Dual Drive Motors

Left hand and right hand AC Drive motors are contained in the drive axle assembly. The outer end of each motor drives a wheel

ERP045-070VL Electric Powered Pneumatic Tire Trucks 4,500 · 5,000 · 6,000 · 7,000 lbs

through a planetary gear transmission. The transmissions use helical gears with tooth geometry that is optimized to minimize gear noise. Each drive motor is individually controlled allowing for a "zero inside turning radius" scenario that provides excellent maneuverability.

Automatic Park Brake

The ERP-VL features an Automatic Park Brake that is applied by a spring when the truck is stationary. Upon sensing a demand at the accelerator pedal, the brake is released and held "off" via an electrical solenoid within the park brake assembly. A manual override lever (located underneath the floor plate) is provided to disengage the brake if the truck has to be moved during service conditions in the absence of power on the truck.

Wet Disc Brakes

The brake system features standard oil cooled wet disc brakes which are internal to the drive axle housing, protecting them against dirt and moisture. The wet brake disc pack is positioned between the two traction motors. These low pedal effort brakes require no adjustments and very little maintenance, yet provide long service life.

Power Assisted Braking

Power Assisted Braking is accomplished via the VSM. The VSM monitors brake line pressure. When this pressure exceeds a set threshold the VSM sends a signal to the traction controller to decelerate the traction motor proportionally to the brake pressure. The higher the brake pedal pressure being applied, the more quickly the truck will decelerate. The master cylinder is sealed and has an external fluid level sensor connected to an LCD icon/indicator on the instrument module. The standard Auto Deceleration System automatically slows the truck when the operator's foot is removed from the accelerator pedal, extending brake life.

Voltage

The 80 volt system is available in multiple battery compartment sizes to meet a variety of application requirements. A solid-state, return-to-neutral feature reduces the possibility of inadvertent truck movement. The truck will not start forward or rearward until the accelerator pedal has been released.

Operator Interface Display

The repositioned display is conveniently located in the upper right area of the operator's compartment. The display includes an hour meter, LCD display for status codes and descriptions, battery discharge indicator with lift interrupt, all LCD icons/indicators for brake fluid, seat belt indicator, performance mode indicator, and parking brake indicator. The display also permits access for service technicians to adjust performance control settings, allowing the truck to be customized to meet customer applications. Additionally, extensive diagnostics allow service technicians to quickly troubleshoot problems. Operator selectable performance modes are standard. Options for operator passwords and a preshift operator checklist are also available.

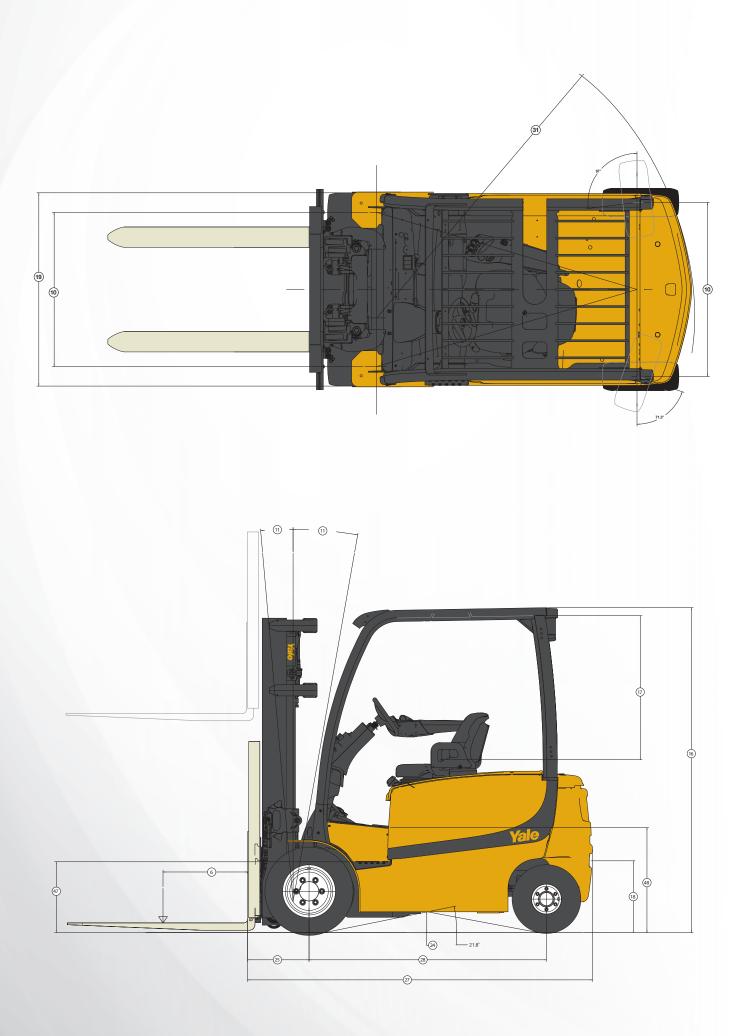
Foot Directional Control Pedal (FDC)

The optional foot directional control pedal is a highly productive directional/ accelerator pedal. One pedal allows the operator to change direction and acceleration reducing operator movement and resulting in increased productivity.

Hydraulic Components

A transistor control hydraulic system is powered by a brushless, AC induction motor with wet spline. The motor and pump are mounted on rubber isolators for reduced noise and vibration. A combination of flexible wire-braid hoses and steel tubing is used to simplify the hydraulic plumbing. These hydraulic lines are carefully routed and held in place to reduce possible damage.

(continued on back)



	4	Manufacturer			1	Yal						
뉟	2	Model Designation				ERPO						
ER	3	Power/Voltage				Electric/						
GENERAL	4	Operation				S	it					
	5	Rated Capacity			lb. (kg)	4500 (2041)						
	6	Load Center			in. (mm)	24 (6	610)					
	7	Tire Type (Std/Opt)				Pneumatic/Pneum	atic Shaped Solid					
ល	8	Tire Size (Drive/Steer)			in.	23 x 10 - 12	2/18 x 7 - 8					
TIRES	9	Wheels – Number X=Drive	n (Drive/Steer)		front/rear	2X						
	10	Tread	Ctr. of Tires	Std Dr/Wide Dr/Steer	in. (mm)	36.9/41.5/39.1 (938/1054/992)						
	11	Mast Tilt	Std Opt Opt		degrees	5F/5B 10F						
	12	Mast - Lowered Height			-							
			Std Mast Std 2 Stg Limited Free Lift Mast		in. (mm)	87 (2						
	13	Free Lift - Top of Fork			in. (mm) in. (mm)	5 (1	· · · · · · · · · · · · · · · · · · ·					
			Opt 2 Stg Full Free Lift Mast with/without LBR			37/64 (96						
	14	Lift Height - Top of Fork				133 (3	,					
	15	Mast - Extended Height	-		in. (mm)							
	16	Overhead Guard Height			in. (mm)	86.3/90.4 (2	2193/2297)					
	17	SIP to Bottom of OHG	SIP to Bottom of OHG Seat Depressed Std/Susp/Swivel		in. (mm)	38.8/39.4/38.9	(986/1001/989)					
	18	Tow Pin Height	Vertical Center of P	n	in. (mm)	10.3	(262)					
(0	19	Quoroll Width	Pneumatic Tires	Std/Wide Tread	in. (mm)	46.9/51.5 (*	1192/1308)					
DIMENSIONS		Overall Width	PSS Tires	Std/Wide Tread	in. (mm)	46.2/50.7 (1173/1289)						
NSI	20	Forks	Thickness x Width x Length		in. (mm)	1.6 x 3.9 x 42 (4	0 x 100 x 1067)					
ME	21	Standard Carriage Width			in. (mm)	42 (1	,					
	22	Floor to Bottom of Battery	(Vertical / Boller / F	nrks)	in. (mm)	5.7 (145) / 10.2						
	23	Ground Clearance	Lowest Point (NL/R		in. (mm)	3.9/3.3						
	24	Ground Clearance	Center of Truck (NL		in. (mm)	5.4/5.3 (
	24 25			,	. ,							
	20	Load Distance	Center of Wheel to I		in. (mm)	16.5						
	07		<u></u>	Nominal	SIZE	28	·					
	27	Length to Face of Forks Chassis Length			in. (mm)	92.0 (2336) 63.2 (1606) 141.8 (3602)						
	28	Wheelbase			in. (mm)							
	29	Right Angle Stack			in. (mm)							
	30	Equal Aisle 90° Intersecting Aisle			in. (mm)	78.2 (1986)					
	31	31 Outside Turning Radius			in. (mm)	nm) 76 (1931)						
	32	Truck Weight	Without Battery (NL)			(kg) 6360 (2885)						
Ň.	33	Axle Loading - Drive	Static with Max. Wt. Battery (NL/RL)		lb. (kg)	5266/12649 (2389/5737)						
	34	Axle Loading - Steer	Steer Static with Max. Wt. Battery (NL/RL)			5236/2352 (2375/1067)						
	ĺ				Standard Performance	Premium Performance Package						
	35	Travel Speed	(NL/RL) Std 2 Stg LFL Mast (NL/RL) Opt 2 Stg FFL Mast (NL/RL)		mph (km/h)	11.2/11.2 (18/18)	13/13 (21/21)					
	36	Lift Speed			ft/min (m/sec)	124/79 (0.63/0.40)	142/102 (0.72/0.52)					
					ft/min (m/sec)	124/81 (0.63/0.41)	130/98 (0.66/0.50)					
			Opt 3 Stg FFL Mast		ft/min (m/sec)	124/79 (0.63/0.40)	134/100 (0.68/0.51)					
벙	37	Lower Speed	Std 2 Stg LFL Mast (NL/NL)		ft/min (m/sec)	100/112 (0.00/0.40)	, ,					
PERFORMANC			÷	, ,	ft/min (m/sec)	91/102 (0						
NR			Opt 2 Stg FFL Mast (NL/RL) Opt 3 Stg FFL Mast (NL/RL)			93/102 (0						
RFC	20	Crodobility		. ,	ft/min (m/sec)	· · · · · · · · · · · · · · · · · · ·	,					
PE	38	Gradability	5 Minute Rating (NL		%	39/26	42/28					
	00		60 Minute Rating (N		%	13/9	14/10					
	39	Drawbar Pull	5 Minute Rating (NL		lbf	4283/4057	4626/4462					
			60 Minute Rating (N		lbf	1298/1229	1402/1357					
	40	Brake	Method of Control (Service/Parking)			Hydraulic/N						
		Method of Operation (Service/Parking)				Foot/Au						
		Battery	Type (Dual) 60 Minute Rating (Each)			Lead	Acid					
сı	42	Traction Motors (Dual)			hp (kW)	13.4 (10)	13.4 (10)					
ELECTRIC	43 44	Pump Motor	15 Minute Rating		hp (kW)	21.5 (16) 32.2 (24)						
E	44	Traction Motors	Type/Control Metho	d		Dual AC/1	Fransistor					
ш	45	Pump Motor	Type/Control Metho	d		AC/Transistor						
	46	Number of Speeds				Infinitely Variable/Infinitely Variable						
	47	Step Height	• •			18.7 (475)						
	48	Floor Height	Without/With Batte	ry Rollers	in. (mm) in. (mm)	27.8/31.9 (706/810)						
OTHER	49	Attachment Relief Pressur		-	psi (bar)	r) 2250 (155)						
01	- 5 50	Auxiliary Oil Flow	3rd and 4th Functio	n	gal/min (l/min)							
	50 51	Sound Level	Measured per ANSI		dB (A)							
	01						00					

Above specifications, unless otherwise listed, are for a standard truck without optional equipment. Right Angle Stack and Equal Intersecting Aisle dimensions provided with a 48" long and 40" wide pallet load, allowing zero clearance

	1-0									
ERP050VL										
Electric/80 Volts										
Sit										
5000 (2268)										
24 (610)										
Pneumatic/Pneumatic Shaped Solid										
23 x 10 - 12/18 x 7 - 8										
2X/2										
36.9/41.5/39.1 (938/1054/992)										
5F/5B 10F/5B 5F/6B										
87 (2192)										
5 (140)										
37/64 (962/1628)										
133 (3392)										
182/156 (4622/3956)										
86.3/90.4 (2193/2297)									
38.8/39.4/38.9	(986/1001/989)									
	(262)									
	1192/1308)									
	1173/1289)									
	0 x 100 x 1067)									
	067)									
	(259) / 9.9 (252)									
3.9/3.3	(98/83)									
5.4/5.3	137/134)									
16.5	(419)									
28"	34"									
92.0 (2336)	97.6 (2480)									
63.2 (1606)	68.9 (1750)									
141.8 (3602) 147.3 (3742)										
78.2 (1986)	80.7 (2049)									
78.2 (1986) 76 (1931)	80.7 (2049) 81.6 (2073)									
78.2 (1986) 76 (1931) 6360 (2885)	80.7 (2049) 81.6 (2073) 6560 (2976)									
78.2 (1986) 76 (1931)	80.7 (2049) 81.6 (2073)									
78.2 (1986) 76 (1931) 6360 (2885)	80.7 (2049) 81.6 (2073) 6560 (2976)									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110)	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196)									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922)	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280)									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18)	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21)									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38)	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49)									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39)	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47)									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39)	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48)									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57)									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (91/106 (0	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) .46/0.54)									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (91/106 (c 93/108 (c	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) .46/0.54) 0.47/0.55)									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (91/106 (0	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) .46/0.54)									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (91/106 (c 93/108 (c	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) .46/0.54) 0.47/0.55)									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (91/106 (0 93/108 (0	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) .46/0.54) 38/26									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (91/106 (0 93/108 (0 35/24 12/8	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) .46/0.54) 38/26 13/9									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (91/106 (0 93/108 (0 35/24 12/8 4248/4148 1287/1257	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) 0.46/0.54) 0.47/0.55) 38/26 13/9 4588/4480 1390/1357									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (91/106 (C 93/108 (C 35/24 12/8 4248/4148 1287/1257 Hydraulic/	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) 0.46/0.54) 0.47/0.55) 38/26 13/9 4588/4480 1390/1357 Wechanical									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (91/106 (C 93/108 (C 35/24 12/757 Hydraulic/ Foot/Au	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) 0.46/0.54) 0.47/0.55) 38/26 13/9 4588/4480 1390/1357 Wechanical itomatic									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (91/106 (C 93/108 (C 35/24 12/8 4248/4148 1287/1257 Hydraulic// Foot/Au Lead	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) 0.46/0.54) 0.47/0.55) 38/26 13/9 4588/4480 1390/1357 Wechanical ttomatic Acid									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (91/106 (C 93/108 (C 35/24 12/8 4248/4148 1287/1257 Hydraulic// Foot/Au Lead 13.4 (10)	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) 0.46/0.54) 0.47/0.55) 38/26 13/9 4588/4480 1390/1357 Wechanical ttomatic Acid 13.4 (10)									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (91/106 (C 93/108 (C 35/24 12/8 4248/4148 1287/1257 Hydraulic// Foot/Au Lead 13.4 (10) 21.5 (16)	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) 0.46/0.54) 0.47/0.55) 38/26 13/9 4588/4480 1390/1357 Wechanical tomatic Acid 13.4 (10) 32.2 (24)									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (91/106 (0 93/108 (0 35/24 12/8 4248/4148 1287/1257 Hydraulic/I Foot/Au 13.4 (10) 21.5 (16) Dual AC/	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) 0.46/0.54) 0.47/0.55) 38/26 13/9 4588/4480 1390/1357 Wechanical ttomatic Acid 13.4 (10) 32.2 (24) Transistor									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (91/106 (0 93/108 (0 35/24 12/8 4248/4148 1287/1257 Hydraulic/I Foot/Au 13.4 (10) 21.5 (16) Dual AC/	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) 0.46/0.54) 0.47/0.55) 38/26 13/9 4588/4480 1390/1357 Wechanical tomatic Acid 13.4 (10) 32.2 (24)									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (91/106 (0 93/108 (0 35/24 12/8 4248/4148 1287/1257 Hydraulic// Foot/Au 13.4 (10) 21.5 (16) Dual AC/ AC/Tree	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) 0.46/0.54) 0.47/0.55) 38/26 13/9 4588/4480 1390/1357 Wechanical ttomatic Acid 13.4 (10) 32.2 (24) Transistor									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (91/106 (0 93/108 (0 35/24 12/8 4248/4148 1287/1257 Hydraulic/ Foot/At 13.4 (10) 21.5 (16) Dual AC/ AC/Tra Infinitely Variable	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) 0.46/0.54) 0.47/0.55) 38/26 13/9 4588/4480 1390/1357 Wechanical itomatic Acid 13.4 (10) 32.2 (24) Transistor									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (91/106 (0 93/108 (0 35/24 12/8 4248/4148 1287/1257 Hydraulic/ Foot/At 13.4 (10) 21.5 (16) Dual AC/ AC/Tra Infinitely Variable 18.7	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) 0.46/0.54) 0.47/0.55) 38/26 13/9 4588/4480 1390/1357 Wechanical itomatic Acid 13.4 (10) 32.2 (24) Transistor /Infinitely Variable									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.48) 124/77 (0.63/0.48) 124/77 (0.63/0.48) 124/77 (0.63/0.48) 124/77 (0.63/0.48) 124/77 (0.63/0.48) 124/77 (0.63/0.48) 124/77 (0.63/0.48) 124/77 (0.63/0.48) 1287/1257 Hydraulic/I 500 /At Lead 13.4 (10) 21.5 (16) Dual AC/ AC/Tra Infinitely Variable 18.7 27.8/31.9	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) 0.46/0.54) 0.47/0.55) 38/26 13/9 4588/4480 1390/1357 Wechanical itomatic Acid 13.4 (10) 32.2 (24) Transistor Insistor /Infinitely Variable (475)									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (91/106 (0 93/108 (0 35/24 12/8 4248/4148 1287/1257 Hydraulic/ Ead 13.4 (10) 21.5 (16) Dual AC/ AC/Tra Infinitely Variable 18.7 27.8/31.9 2250	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) 0.46/0.54) 0.47/0.55) 38/26 13/9 4588/4480 1390/1357 Mechanical itomatic Acid 13.4 (10) 32.2 (24) Transistor /Infinitely Variable (475) (706/810) (155)									
78.2 (1986) 76 (1931) 6360 (2885) 5266/13470 (2389/6110) 5236/2032 (2375/922) Standard Performance 11.2/11.2 (18/18) 124/75 (0.63/0.38) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 124/77 (0.63/0.39) 100/112 (91/106 (0 93/108 (0 35/24 12/8 4248/4148 1287/1257 Hydraulic/ Ead 13.4 (10) 21.5 (16) Dual AC/ AC/Tra Infinitely Variable 18.7 27.8/31.9 2250	80.7 (2049) 81.6 (2073) 6560 (2976) 5718/13659 (2594/6196) 5762/2821 (2614/1280) Premium Performance Package 13/13 (21/21) 142/96 (0.72/0.49) 130/93 (0.66/0.47) 134/94 (0.68/0.48) 0.51/0.57) 0.46/0.54) 0.47/0.55) 38/26 13/9 4588/4480 1390/1357 Mechanical itomatic Acid 13.4 (10) 32.2 (24) Transistor /Infinitely Variable (475) (706/810)									

ERP060VL Electric/80 Volts Sit 6000 (2722) 24 (610) Pneumatic/Pneumatic Shaped Solid 23 x 10 - 12/18 x 7 - 8 2X/2 36.9/41.5/39.1 (938/1054/992) 5F/5B 10F/5B 5F/6B 87 (2192) 5 (140) 37/60 (957/1540)										
Sit 6000 (2722) 24 (610) Pneumatic/Pneumatic Shaped Solid 23 x 10 - 12/18 x 7 - 8 2X/2 36.9/41.5/39.1 (938/1054/992) 5F/5B 10F/5B 5F/6B 87 (2192) 5 (140) 37/60 (957/1540)										
6000 (2722) 24 (610) Pneumatic/Pneumatic Shaped Solid 23 x 10 - 12/18 x 7 - 8 2X/2 36.9/41.5/39.1 (938/1054/992) 5F/5B 10F/5B 5F/6B 87 (2192) 5 (140) 37/60 (957/1540)										
24 (610) Pneumatic/Pneumatic Shaped Solid 23 x 10 - 12/18 x 7 - 8 2X/2 36.9/41.5/39.1 (938/1054/992) 5F/5B 10F/5B 5F/6B 87 (2192) 5 (140) 37/60 (957/1540)										
Pneumatic/Pneumatic Shaped Solid 23 x 10 - 12/18 x 7 - 8 2X/2 36.9/41.5/39.1 (938/1054/992) 5F/5B 10F/5B 5F/5B 10F/5B 87 (2192) 5 (140) 37/60 (957/1540)										
23 x 10 - 12/18 x 7 - 8 2X/2 36.9/41.5/39.1 (938/1054/992) 5F/5B 10F/5B 5F/6B 87 (2192) 5 (140) 37/60 (957/1540)										
2X/2 36.9/41.5/39.1 (938/1054/992) 5F/5B 10F/5B 87 (2192) 5 (140) 37/60 (957/1540)										
36.9/41.5/39.1 (938/1054/992) 5F/5B 10F/5B 5F/6B 87 (2192) 5 (140) 37/60 (957/1540)										
5F/5B 10F/5B 5F/6B 87 (2192) 5 (140) 37/60 (957/1540) 37/60 (957/1540)										
87 (2192) 5 (140) 37/60 (957/1540)										
5 (140) 37/60 (957/1540)										
37/60 (957/1540)										
126 (3209) 175/153 (4444/3861)										
175/153 (4444/3861) 86.3/90.4 (2193/2297)										
38.8/39.4/38.9 (986/1001/989)										
10.3 (262)										
46.9/51.5 (1192/1308)										
46.2/50.7 (1173/1289)										
2 x 4.9 x 42 (50 x 125 x 1067) 42 (1067)										
5.7 (145) / 10.2 (259) / 9.9 (252)										
3.9/3.3 (98/83)										
5.4/5.3 (137/134)										
17.0 (431)										
34"										
98.1 (2492)										
68.9 (1750)										
147.3 (3742)										
80.7 (2049)										
81.6 (2073)										
6730 (3053)										
5930/15499 (2690/7030)										
5714/2145 (2592/973)										
Standard Performance Premium Performance Package										
11.2/10.6 (18/17) 13/12.1 (21/19.5)										
116/65 (0.59/0.33) 124/83 (0.63/0.42)										
108/65 (0.55/0.33) 116/81 (0.59/0.41)										
112/65 (0.57/0.33) 118/81 (0.60/0.41)										
91/110 (0.46/0.56)										
73/102 (0.37/0.52)										
79/104 (0.4/0.53)										
34/22 37/24										
11/7 12/8										
4146/4037 4477/4360										
1256/1223 1357/1321										
Hydraulic/Mechanical										
Foot/Automatic										
Lead Acid										
13.4 (10) 13.4 (10) 21.5 (16) 22.2 (24)										
21.5 (16) 32.2 (24)										
Dual AC/Transistor										
AC/Transistor										
Infinitely Variable/Infinitely Variable										
18.7 (475)										
27.8/31.9 (706/810)										
2250 (155)										
11 (40)										
63 65										

Yal	le®	1							
ERP070VL									
Electric/80 Volts									
Sit 7000 (3175)									
7000 (3175) 24 (610)									
24 (6	610)	6							
Pneumatic/Pneum	atic Shaped Solid	7							
23 x 10 - 12/18 x 7 - 8									
2X	/2	8 9	TIRES						
36.9/41.5/39.1 (938/1054/992)									
5F/5B 10F	/5B 5F/6B	11							
87 (2	192)	12							
5 (1	13								
37/60 (95									
126 (3209)									
175/153 (4444/3861)									
86.3/90.4 (2	2193/2297)	<u>15</u> 16							
38.8/39.4/38.9		17							
10.3	(262)	18							
46.9/51.5 (*		19							
46.2/50.7 (,								
2 x 4.9 x 42 (50	,	20	DIMENSIONS						
42 (1		21	N						
9.8 (22	S						
3.9/3.3		23							
5.4/5.2 (24							
17.0		25							
34									
101.2	(2570)	27							
68.9 (28							
		29							
149.9 (3808) 81.8 (2078)									
84.2 (2139)									
7420 (3366)									
5814/16979 (2637/7702)									
6525/2360 ((2960/1070)	<u>33</u> 34	WT.						
Standard Performance	Premium Performance Package								
11.2/9.9 (18/16)	13/11.2 (21/18)	35							
116/61 (0.59/0.31)	124/73 (0.63/0.37)	36							
108/61 (0.55/0.31)	116/73 (0.59/0.37)								
112/61 (0.57/0.31)	118/73 (0.60/0.37)								
91/114 (0	.46/0.58)	37	<u>ਸ</u>						
73/106 (0	.37/0.54)		ERFORMANCE						
79/110 (0	.40/0.56)		MA						
32/20	35/22	38							
10/6	11/7								
4243/4064	4583/4389	39							
1286/1232	1389/1330								
Hydraulic/N	Mechanical	40							
Foot/Au	tomatic								
Lead	Acid	41							
13.4 (10)	42								
21.5 (16)	32.2 (24)	43	ELECTRIC						
Dual AC/1	Fransistor	44	R						
AC/Tra	nsistor	45 46							
Infinitely Variable/Infinitely Variable									
18.7 (475)									
27.8/31.9 (706/810)									
2250 (155)									
11 (40)									
63 65									

A 10-Micron full flow hydraulic filter located in the return line protects the hydraulic system from contaminants and helps provide long life. A by-pass relief valve permits oil flow in the event of the filter clogging.

Hydrostatic Power Steering

Hydrostatic power steering is standard and the all-hydraulic design gives precise, reliable control while eliminating mechanical linkages and road shocks at the steering wheel. An infinitely adjustable tilt steering column provides excellent operator comfort and visibility.

Steering Axle

The steering axle is a one-piece ductile iron casting mounted on elastic cushions that reduce shock and provide a softer ride. The Continuous Stability System (CSS™) enhances truck stability in a simple, maintenance free design, without compromising uneven surface travel. "Zero Turn Radius" steer axle design allows for increased maneuverability.

Masts\Carriage\Forks\Load **Backrest Extension**

Yale® Global Hi-Vis simplex, duplex and triplex masts provide excellent visibility. The mast features flush face design with geometrically matched, angled load rollers, 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 reduces channel web milling and roller wear. Top accessible, "J-hook" mast mounting system allows convenient mast installation and removal. The J-hook

mounting is standardized to allow direct mast interchangeability on a variety of Yale truck models without modification. Bronze steel backed bushings reduce mounting wear. Class II six-roller carriages are standard for the ERP-VL 4,500-5,000 lb. trucks. Class III six-roller carriages are standard for the ERP-VL 6,000-7,000 lb. trucks. Forks are "upset forged" from a single piece of high-strength steel, giving added strength and thickness for wear. A 48" load backrest extension is standard.

Frame

The frame is a unitized construction, stress tested for durability. An integral step on both sides of the truck is provided for easy entry and exit. The truck has a two-piece floor plate that can be easily lifted out for service access. An easily removable counterweight top cover gives easy access to components. A stamped steel, gas spring-assisted hood allows easy changing of the battery.

Additional Features

Additional features on the ERP-VL include an overhead guard, 42" forks, nonsuspension seat, seat belt and an operator sensing switch. An infinitely adjustable tilt steering column, rubber floor mat, and electric horn are also standard.

Options

Accutouch e-hydraulics mini-levers Rapid/Fast Charging Configuration Foot Directional Control Pedal Return to set tilt Telescoping Steering Column with Tilt Memory Wide tread

Full suspension seats (with and without swivel) Various battery compartment lengths Battery rollers Overhead guard mounted headlights LED and Halogen work light packages LED Dome/reading light 10° forward tilt Integral sideshifter Full Steel Operator's Compartment Cab Front and top cab panels Premium Performance Package Audible Alarm - Reverse Operation Light – Amber strobe Pneumatic & Pneumatic Shaped Solid drive tires Type "EE" UL construction **Dual Rear View Mirrors** Panoramic Rear View Mirrors Fire Extinguisher Accumulator Synchronous Steering Red (Hi-Vis[™]) ELR (Emergency Locking Retractor) Non-cinch Seat Belt Red (Hi-Vis[™]) ELR (Emergency Locking Retractor) Non-cinch Seat Belt with Start Interlock Low Mount Display Tilt Cylinder Boots Integrated Rapid Charge IP54 Sealed Drive Axle/Drive Motors with Belly Pan and Side Shields Outdoor Protection/Wash-down Package Front Mud Guards

	BATTERY AND COMPARTMENT SPECIFICATIONS													
			Compartment Size			Battery Specifications								
Model		Model				Electrical			Size			Weight		
			W in (mm)	L in (mm)	H in (mm)	Volts	No. of Cells	Plates per Cell	Max Am Hr (kWh)	W Max in (mm)	L Max in (mm)	H Max in (mm)	Min Ibs (kg)	Max Ibs (kg)
	J45-50XN 8" Compartment	Vertical Extract	40.7 (1034)	28.2 (717)	31.2 (792)	80	40	9	1000 (77.6)	40.5 (1028)	28.0 (711)	30.9 (784)	- (1886)	4100 (1878)
28		Horizontal Removal - Roller	40.7 (1034)	28.2 (717)	31.1 (789)					40.5 (1028)	28.0 (711)	30.8 (782)		
20		Horizontal Removal - Forklift	40.4 (1028)	28.0 (712)	31.3 (796)					40.4 (1026)	27.8 (706)	31.0 (788)		
	50-70XN 4" Compartment	Vertical Extract	40.7 (1034)	33.9 (861)	31.2 (792)	80 40			4000	40.5 (1028)	33.7 (855)	30.9 (784)	1500	
2/		Horizontal Removal - Roller	40.7 (1034)	33.9 (861)	31.1 (789)		11	1000 (77.6)	40.5 (1028)	33.7 (855)	30.8 (782)	4500 (2021)	4900 (2233)	
54		Horizontal Removal - Forklift	40.4 (1028)	33.7 (856)	31.3 (796)				(17.0)	40.4 (1026)	33.5 (850)	31.0 (788)	(2021)	(2200)

Battery Type: "EO" (Without Cover)

Battery rype: "EO" (Window Cover) Battery amp hr (kwh) capacity is max allowable per UL Commercially available lead acid batteries may not necessarily reach these max limits Battery Compartment Length is measured front to rear. Battery Compartment Width is measured across the truck

Battery Notes - Conventional Charging (0pt BC320A) Battery Connector: 80 volt - Black (Anderson Power Products® SBE®320 P/N 6363G1 or REMA® SRE 320 P/N 78350-05) Battery Lead: Length 30" (762 mm), Position "A", 2/0 AWG



P.O. Box 7367, Greenville, NC 27835-7367

www.vale.com

Yale is a Registered Trademark and 뤗 is a Registered Copyright. ©Yale Material Handling Corporation 2013. All Rights Reserved

Manufactured in our own ISO 9001 and 14001 Registered Facilities

2353-1D 6/2018 Trucks may be shown with optional equipment.

Battery Notes - Rapid / Fast Charging (Opt BARQCS) Battery Connector: Requires Positive / Negative Cabling terminating in (1) Female EBC-320 DIN Connector (Anderson Power Products® P/N E32503-00X9 or REMA® 95625-X1) DIN connector to include 1 Red Conductor to (+) and 1 black conductor to (-) Battery Lead: Length 36" (915 mm), Position "A", Minimum Cable Size 3/0 AWG

Battery Notes - Premium, Fully Integrated "Quick Connect" Rapid / Fast Charging Battery Connector: Requires Positive / Negative Cabling terminating in (1) Female EBC-320 DIN Connector (Anderson Power Products" P/N E32503-00X9 or REMA® 95625-X1) DIN connector to include 1 Red Conductor to (+) and 1 black conductor to (-) Battery Lead: Length 36" (915 mm), Position "A", Minimum Cable Size 3/0 AWG

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

This truck meets all applicable mandatory requirements of ANSI B56.1 Safety Standard for Powered Industrial Trucks at the time of manufacture. Classified by Underwriters' Laboratories, Inc., as to fire and electric shock hazard only for Type E industrial trucks.