



# ERP-VL

## ELECTRIC POWERED PNEUMATIC TIRE TRUCKS

4,500 · 5,000 · 6,000 · 7,000 lbs

**Yale® ERP-VL** electric trucks are available in 4,500 – 7000 pound capacities designed for demanding applications that require clean, quiet-running, heavy-duty 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

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 pre-shift operator checklist are also available.

### Foot Directional Control Pedal (FDC)

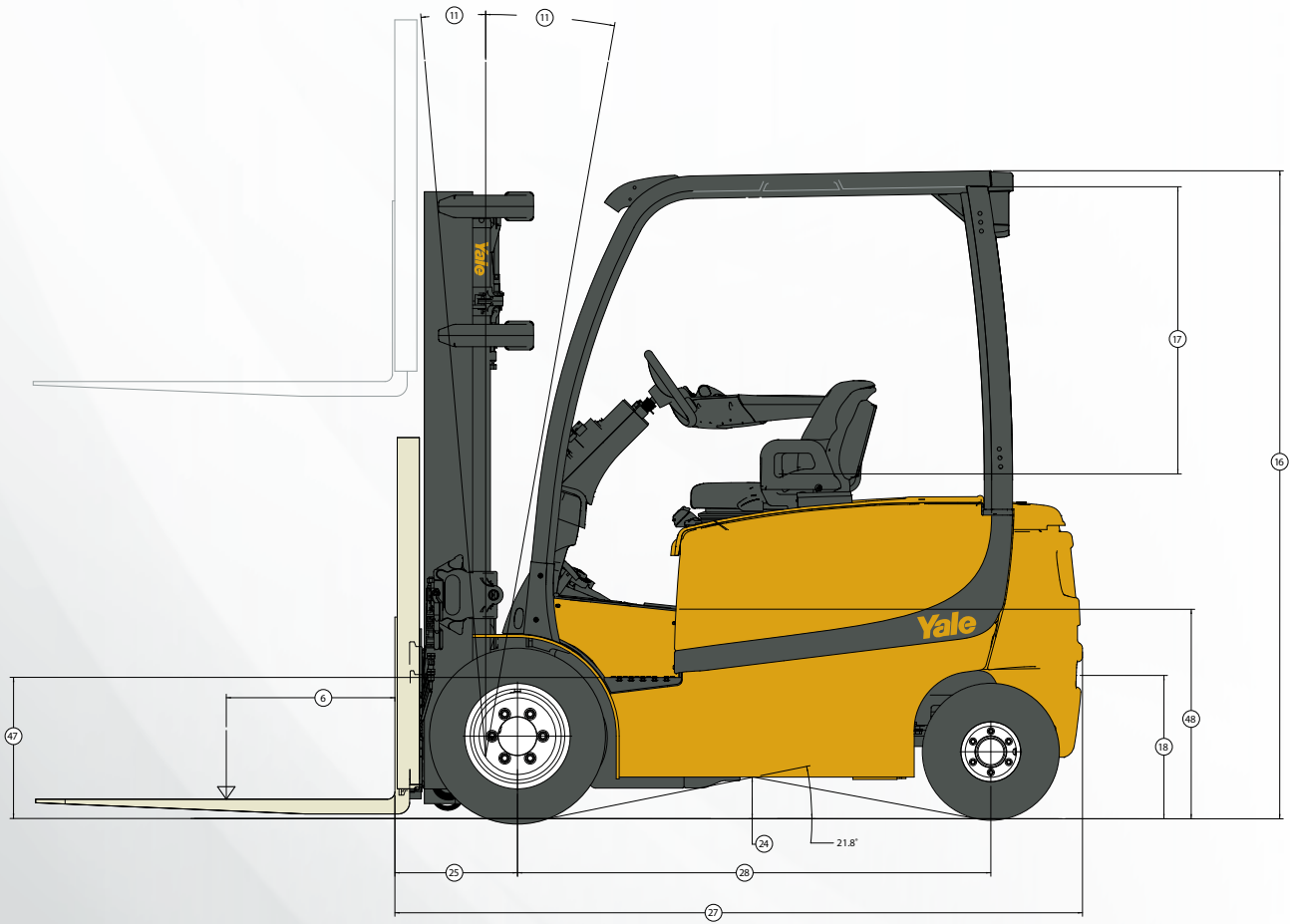
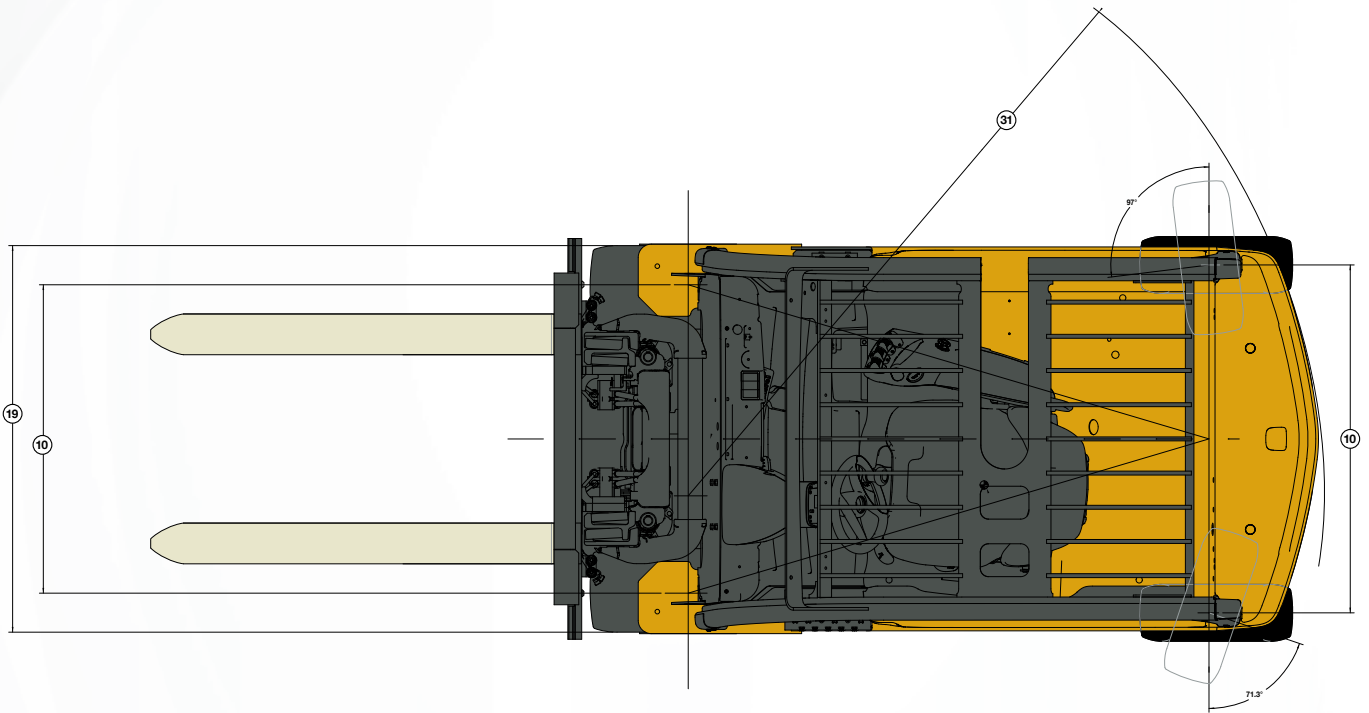
The optional foot directional control pedal is a highly productive directional/accelerator pedal. One pedal allows the operator to change direction and acceleration reducing operator movement and resulting in increased productivity.

### 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)*





<b>GENERAL</b>	1	Manufacturer				
	2	Model Designation				
	3	Power/Voltage				
	4	Operation				
<b>TIRES</b>	5	Rated Capacity		lb. (kg)		
	6	Load Center		in. (mm)		
	7	Tire Type (Std/Opt)				
<b>TIRES</b>	8	Tire Size (Drive/Steer)		in.		
	9	Wheels – Number X=Driven (Drive/Steer)		front/rear		
	10	Tread	Ctr. of Tires	Std Dr/Wide Dr/Steer	in. (mm)	
<b>DIMENSIONS</b>	11	Mast Tilt		Std Opt Opt	degrees	
	12	Mast - Lowered Height		Std Mast	in. (mm)	
	13	Free Lift - Top of Fork		Std 2 Stg Limited Free Lift Mast	in. (mm)	
				Opt 2 Stg Full Free Lift Mast with/without LBR	in. (mm)	
	14	Lift Height - Top of Fork		Std 2 Stg Limited Free Lift Mast	in. (mm)	
	15	Mast - Extended Height		Std Mast with/without LBR	in. (mm)	
	16	Overhead Guard Height		Without/With Battery Rollers	in. (mm)	
	17	SIP to Bottom of OHG		Seat Depressed	Std/Susp/Swivel	in. (mm)
	18	Tow Pin Height		Vertical Center of Pin		in. (mm)
	19	Overall Width		Pneumatic Tires	Std/Wide Tread	in. (mm)
				PSS Tires	Std/Wide Tread	in. (mm)
	20	Forks		Thickness x Width x Length		in. (mm)
	21	Standard Carriage Width				in. (mm)
	22	Floor to Top of Battery Rollers				in. (mm)
	23	Ground Clearance		Lowest Point (NL/RL)		in. (mm)
	24	Ground Clearance		Center of Truck (NL/RL)		in. (mm)
	25	Load Distance		Center of Wheel to Face of Forks		in. (mm)
	26	Battery Compartment		Height	without/with Batt. Rollers	in. (mm)
				Width		in. (mm)
					Nominal	SIZE
				Length	Actual	in. (mm)
27	Length to Face of Forks		Chassis Length		in. (mm)	
28	Wheelbase				in. (mm)	
29	Right Angle Stack				in. (mm)	
30	Equal Aisle		90° Intersecting Aisle		in. (mm)	
31	Outside Turning Radius				in. (mm)	
<b>WT.</b>	32	Truck Weight		Without Battery (NL)	lb. (kg)	
	33	Axle Loading - Drive		Static with Max. Wt. Battery (NL/RL)		lb. (kg)
	34	Axle Loading - Steer		Static with Max. Wt. Battery (NL/RL)		lb. (kg)
<b>PERFORMANCE</b>	35	Travel Speed		(NL/RL)	mph (km/h)	
	36	Lift Speed		Std 2 Stg LFL Mast (NL/RL)	ft/min (m/sec)	
				Opt 2 Stg FFL Mast (NL/RL)	ft/min (m/sec)	
				Opt 3 Stg FFL Mast (NL/RL)	ft/min (m/sec)	
	37	Lower Speed		Std 2 Stg LFL Mast (NL/RL)	ft/min (m/sec)	
				Opt 2 Stg FFL Mast (NL/RL)	ft/min (m/sec)	
				Opt 3 Stg FFL Mast (NL/RL)	ft/min (m/sec)	
	38	Gradability		5 Minute Rating (NL/RL)	%	
				60 Minute Rating (NL/RL)	%	
	39	Drawbar Pull		5 Minute Rating (NL/RL)	lbf	
60 Minute Rating (NL/RL)				lbf		
40	Brake		Method of Control (Service/Parking)			
			Method of Operation (Service/Parking)			
<b>ELECTRIC</b>	41	Battery		Type		
	42	Traction Motors (Dual)		60 Minute Rating (Each)	hp (kW)	
	43	Pump Motor		15 Minute Rating	hp (kW)	
	44	Traction Motors		Type/Control Method		
	45	Pump Motor		Type/Control Method		
46	Number of Speeds		Traction/Pump			
<b>OTHER</b>	47	Step Height			in. (mm)	
	48	Floor Height		Without/With Battery Rollers	in. (mm)	
	49	Attachment Relief Pressure			psi (bar)	
	50	Auxiliary Oil Flow		3rd and 4th Function	gal/min (l/min)	
	51	Sound Level		Measured per ANSI B56.11.5		dB (A)

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

Yale®	
ERP045VL	
Electric/80 Volts	
Sit	
4500 (2041)	
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)	
10.3 (262)	
46.9/51.5 (1192/1308)	
46.2/50.7 (1173/1289)	
1.6 x 3.9 x 42 (40 x 100 x 1067)	
42 (1067)	
9.8 (250)	
3.9/3.3 (98/83)	
5.4/5.3 (137/135)	
16.5 (419)	
31.2/31.2 (792/792)	
40.7 (1034)	
<b>28"</b>	
28.2 (717)	
92.0 (2336)	
63.2 (1606)	
141.8 (3602)	
78.2 (1986)	
76 (1931)	
6360 (2885)	
5266/12649 (2389/5737)	
5236/2352 (2375/1067)	
<b>Standard Performance</b>	<b>Premium Performance Package</b>
11.2/11.2 (18/18)	13/13 (21/21)
124/79 (0.63/0.40)	142/102 (0.72/0.52)
124/81 (0.63/0.41)	130/98 (0.66/0.50)
124/79 (0.63/0.40)	134/100 (0.68/0.51)
100/112 (0.51/0.57)	
91/102 (0.46/0.52)	
93/106 (0.47/0.54)	
39/26	42/28
13/9	14/10
4283/4057	4626/4462
1298/1229	1402/1357
Hydraulic/Mechanical	
Foot/Automatic	
Lead Acid	
13.4 (10)	13.4 (10)
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

Yale®		
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)		
10.3 (262)		
46.9/51.5 (1192/1308)		
46.2/50.7 (1173/1289)		
1.6 x 3.9 x 42 (40 x 100 x 1067)		
42 (1067)		
9.8 (250)		
3.9/3.3 (98/83)		
5.4/5.3 (137/134)		
16.5 (419)		
31.2/31.2 (792/792)		
40.7 (1034)		
<b>28"</b>		<b>34"</b>
28.2 (717)		33.9 (861)
92.0 (2336)		97.6 (2480)
63.2 (1606)		68.9 (1750)
141.8 (3602)		147.3 (3742)
78.2 (1986)		80.7 (2049)
76 (1931)		81.6 (2073)
6360 (2885)		6560 (2976)
5266/13470 (2389/6110)		5718/13659 (2594/6196)
5236/2032 (2375/922)		5762/2821 (2614/1280)
<b>Standard Performance</b>	<b>Premium Performance Package</b>	
11.2/11.2 (18/18)	13/13 (21/21)	
124/75 (0.63/0.38)	142/96 (0.72/0.49)	
124/77 (0.63/0.39)	130/93 (0.66/0.47)	
124/77 (0.63/0.39)	134/94 (0.68/0.48)	
100/112 (0.51/0.57)		
91/106 (0.46/0.54)		
93/108 (0.47/0.55)		
35/24	38/26	
12/8	13/9	
4248/4148	4588/4480	
1287/1257	1390/1357	
Hydraulic/Mechanical		
Foot/Automatic		
Lead Acid		
13.4 (10)	13.4 (10)	
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	

<b>Yale®</b>	
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)	
126 (3209)	
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)	
9.8 (250)	
3.9/3.3 (98/83)	
5.4/5.3 (137/134)	
17.0 (431)	
31.2/31.2 (792/792)	
40.7 (1034)	
<b>34"</b>	
33.9 (861)	
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)	
<b>Standard Performance</b>	<b>Premium Performance Package</b>
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)	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

<b>Yale®</b>		<b>1</b>
ERP070VL		<b>2</b>
Electric/80 Volts		<b>3</b>
Sit		<b>4</b>
7000 (3175)		<b>5</b>
24 (610)		<b>6</b>
Pneumatic/Pneumatic Shaped Solid		<b>7</b>
23 x 10 - 12/18 x 7 - 8		<b>8</b>
2X/2		<b>9</b>
36.9/41.5/39.1 (938/1054/992)		<b>10</b>
5F/5B 10F/5B 5F/6B		<b>11</b>
87 (2192)		<b>12</b>
5 (140)		<b>13</b>
37/60 (957/1540)		<b>14</b>
126 (3209)		<b>15</b>
175/153 (4444/3861)		<b>16</b>
86.3/90.4 (2193/2297)		<b>17</b>
38.8/39.4/38.9 (986/1001/989)		<b>18</b>
10.3 (262)		<b>19</b>
46.9/51.5 (1192/1308)		<b>20</b>
46.2/50.7 (1173/1289)		<b>21</b>
2 x 4.9 x 42 (50 x 125 x 1067)		<b>22</b>
42 (1067)		<b>23</b>
9.8 (250)		<b>24</b>
3.9/3.3 (98/83)		<b>25</b>
5.4/5.2 (137/132)		<b>26</b>
17.0 (431)		<b>27</b>
31.2/31.2 (792/792)		<b>28</b>
40.7 (1034)		<b>29</b>
<b>34"</b>		<b>30</b>
33.9 (861)		<b>31</b>
101.2 (2570)		<b>32</b>
68.9 (1750)		<b>33</b>
149.9 (3808)		<b>34</b>
81.8 (2078)		<b>35</b>
84.2 (2139)		<b>36</b>
7420 (3366)		<b>37</b>
5814/16979 (2637/7702)		<b>38</b>
6525/2360 (2960/1070)		<b>39</b>
<b>Standard Performance</b>	<b>Premium Performance Package</b>	<b>40</b>
11.2/9.9 (18/16)	13/11.2 (21/18)	<b>41</b>
116/61 (0.59/0.31)	124/73 (0.63/0.37)	<b>42</b>
108/61 (0.55/0.31)	116/73 (0.59/0.37)	<b>43</b>
112/61 (0.57/0.31)	118/73 (0.60/0.37)	<b>44</b>
91/114 (0.46/0.58)		<b>45</b>
73/106 (0.37/0.54)		<b>46</b>
79/110 (0.40/0.56)		<b>47</b>
32/20	35/22	<b>48</b>
10/6	11/7	<b>49</b>
4243/4064	4583/4389	<b>50</b>
1286/1232	1389/1330	<b>51</b>
Hydraulic/Mechanical		
Foot/Automatic		
Lead Acid		
13.4 (10)	13.4 (10)	
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	

(continued from cover)

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, non-suspension 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												
Model	Compartment Size			Battery Specifications								
				Electrical				Size			Weight	
	W in (mm)	L in (mm)	H in (mm)	Volts	No. of cells	Plates per cell	Max Amp Hr (kwh)	“X” Max in (mm)	“Y” Max in (mm)	“Z” Max in (mm)	Min lbs (kg)	Max lbs (kg)
<b>ERP045-050VL 28" Compartment</b>	40.7 (1034)	28.2 (717)	31.2 (792)	80	40	9	1000 (77.6)	40.5 (1028)	28 (711)	30.9 (784)	3700 (1686)	4100 (1878)
<b>ERP050-070VL 34" Compartment</b>	40.7 (1034)	33.9 (861)	31.2 (792)	80	40	11	1000 (77.6)	40.5 (1028)	33.7 (855)	30.9 (784)	4500 (2021)	4900 (2233)

Battery Type: “EO” (Without 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 (Opt G26201)**  
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

**Battery Notes - Rapid / Fast Charging (Opt G26202)**  
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



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Manufactured in our own ISO 9001 and 14001 Registered Facilities

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