ERC030-040VA

ELECTRIC POWERED CUSHION TIRE TRUCKS

Yale® ERC-VA electric trucks are available in 3,000 – 4,000 pound capacities designed for demanding applications that require clean, quiet-running, heavy-duty capability. These trucks are extremely maneuverable and offer plenty of power and high stacking ability, while also offering excellent ergonomics, reliability and maintenance ease.

AC TRANSISTOR TRACTION CONTROL

AC technology offers smooth acceleration and directional changes, as well as proportional regenerative braking. 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 dash display or a PC. A Vehicle Systems Manager 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). LCD 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 ERC-VA 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 provides feedback to the control system, allowing motor speed and direction to be continuously monitored.

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 guickly the truck will decelerate. Duo-servo hydraulic brakes are self-adjusting and self-energizing for reduced pedal effort. The master cylinder is sealed and has an external fluid level sensor connected to a warning indicator on the display. A foot applied/ hand-released parking brake is manually adjustable and has an audible warning if the

operator leaves the truck without applying the brake. The standard Auto Deceleration System automatically slows the truck when the operator's foot is removed from the accelerator pedal, extending brake life.

VOLTAGE

36 and 48 volt systems are available to meet a variety of application requirements. A solid-state, return-to-neutral feature reduces the possibility of inadvertent truck movement.

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, warning indicator for brake fluid, 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) (OPTIONAL)

The 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 for long life and low noise. The motor and pump are

(continued on back)



	BATTERY AND COMPARTMENT SPECIFICATIONS														
Trucks with UL Type "E" Construction															
Battery Com	Battery Compartment Dimensions				Battery Dimensions and Specifications										
	Width	Longth	Height	"Х" "Ү"		"Z"				Max Capacity	Weight				
Compartment Type		Length	пеідііі	Min	Max	Min	Max	Max	Volts	No. of Cells	Plates per Cell	6 Hour Rate	Min	Max	
.,,,,,	in (mm)			in (mm)			,	000	por com	amp hr (kwh)	lb (kg)				
Vertical Removal	35.8 (909)		27.6	24 (610)	30.9	35.7	25.7	27.2	23.5	36	18	17 - 19	1200 (40.6)	1850	2500
(Lift Out)			24 (010)	(784)	(907)	(654)	(692)	(598)	48	24	13 - 15	1000 (45.2)	(839)	(1132)	
Horizontal	35.8 (909)		27.6 23.5	23.5	30.9 35.7 25.7	27.2		36	18	17 - 19	1200 (40.6)	1850	2500		
Removal with Battery Rollers				(784) (907)		(654)	(692)	23 (585)	48	24	13 - 15	1000 (45.2)	(839)	(1132)	

	BATTERY AND COMPARTMENT SPECIFICATIONS													
	Trucks with UL Type "EE" Construction													
Battery Com	Battery Compartment Dimensions					Battery Dimensions and Specifications								
	Width	Longth	Height	")	("	"	/ "	"Z"				Max Capacity	Weight	
Compartment Type	Widii	Length	neigiii	Min	Max	Min	Max	Max	Volts	No. of Cells	Plates per Cell	6 Hour Rate	Min	Max
.,,,,,	in (mm)			in (mm)				555	por com	amp hr (kwh)	lb ((kg)		
Vertical Removal	35.6	35.6 (904) 27.6 (700)		30.9 (784) 35.5 (902)		25.7	27.2	23.5 (598)	36	18	17 - 19	1200 (40.6)	1850	2500
(Lift Out)	(904)				(902)	(654)	(692)		48	24	13 - 15	1000 (45.2)	(839)	(1132)
Horizontal	35.6	27.6	23.5	30.9	35.5	25.7	27.2		36	18	17 - 19	1200 (40.6)	1850	2500
Removal with Battery Rollers	(904) (700)		(784)	(902) (654)	(692)	23 (585)	48	24	13 - 15	1000 (45.2)	1850 (839)	(1132)		

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: 36 volt - Gray SB®350 (Anderson Power Products® P/N 6320G1 or equivalent) 48 volt - Blue SB®350 (Anderson Power Products® P/N 6321G1 or equivalent)

Battery Lead: Length 20" (508mm), Position "B", 2/0 AWG

Battery Notes - Rapid/Fast Charging (Opt G26202)

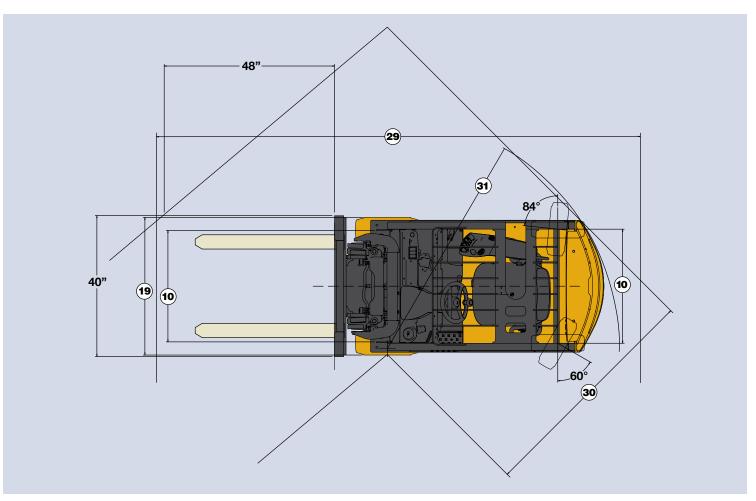
Battery Connector: Requires Dual Positive/Negative Cabling terminating in (2) Female EBC-320 DIN Connectors

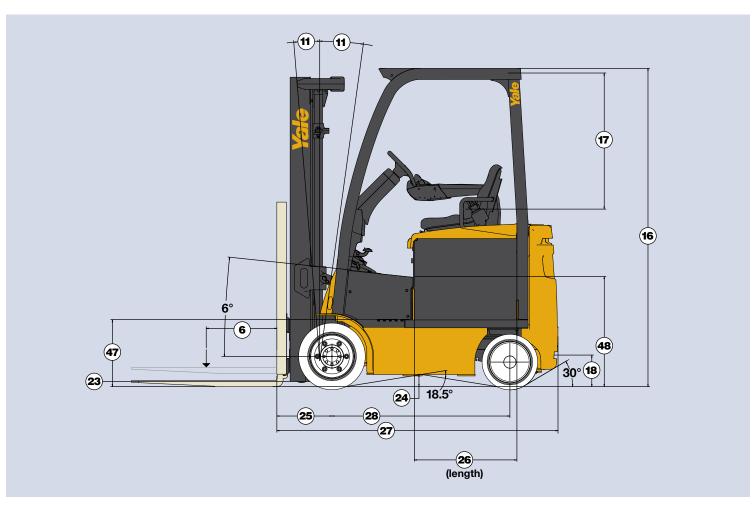
(Anderson Power Products® P/N A32502-0009 or equivalent)

Each individual DIN connector to include 1 Red Conductor to (+) and 1 Black Conductor to (-)

Battery Lead: Length 25" (635mm), Position "B", Minimum Cable Size 3/0 AWG

ERC30-40VA MAST DIMENSIONS								
Maximum Fork Height (TOF) +	UVERSILLOWEREN HT		Overall Extended Height w/o Load Backrest	Free-Lift (TOF) w/ Load Backrest	Free-Lift (TOF) w/o Load Backrest in. (mm)			
in. (mm)			in. (mm)	in. (mm)				
2-STAGE LIMITED FREE-LIFT (LFL) MAST								
127 (3232)	82 (2080)	176 (4455)	150 (3806)	5 (140)	5 (140)			
2-STAGE FULL FREE-LIFT (FFL) MAST								
126 (3218)	82 (2080)	176 (4461)	151 (3812)	31 (807)	57 (1456)			
138 (3518)	88 (2230)	188 (4761)	162 (4112)	37 (957)	63 (1606)			
3-STAGE FULL FREE-LIFT (F	FFL) MAST							
181 (4600)	80 (2030)	224 (5025)	204 (5174)	29 (757)	55 (1406)			
187 (4750)	82 (2080)	236 (5325)	210 (5324)	31 (807)	57 (1455)			
192 (4900)	84 (2130)	238 (5375)	216 (5474)	33 (857)	59 (1506)			
198 (5050)	88 (2230)	248 (5625)	222 (5624)	37 (957)	63 (1606)			
216 (5500)	94 (2380)	265 (6075)	240 (6074)	43 (1107)	69 (1756)			





2 Model Designation												
Total Copyright Security Se		1										
Second Content Seco							ERC0	30VA				
Second Content Seco	8	3	Power					·				
Second Content Seco	益	4	Operation				Si	it				
Text		5	Rated Capacity			lb. (kg)	3000 ((1361)				
Second Color		6				in. (mm)	24 (6	510)				
Description Devic Stear Devic Stear Devic Stear Devic Stear Device St		7										
10 Trad - Other Center of Tires Nat / Int / Wide of * / Wide * / Yide * / * Nat / Int / Wide of * / Wide * / * Nat / Int / Wide of * / Wide * / * Nat / Int / Wide of * / Wide * Nat / Int / Wide of * / Wide * Nat / Int / Wide of * / Wide * Nat / Int / Wide of * / Wide * Nat / Int / Wide of * / Wide * Nat / Int / Wide of * / Wide * Nat / Int / Wide of * / Wide of * Nat / Int / Wide of * / Wide of * Nat / Int / Wide of * / Wide of * Nat / Int / Wide of * / Wide of * Nat / Int / Wide of * / Wide of * Nat / Int / Wide of * / Wide of * Nat / Int / Wide of * / Wide of * Nat / Int / Wide of * / Wide of * Nat / Int / Wide of * / Wide of * Nat / Int / Wide of * / / Wide of * / / / / / / / / / / / / / / / / / /		8	Tire Size	Std	Drive / Steer	in.	18 x 6 x 12.1	/ 14 x 4.5 x 8				
10 Trad - Other Center of Tires Nat / Int / Wide of * / Wide * / Yide * / * Nat / Int / Wide of * / Wide * / * Nat / Int / Wide of * / Wide * / * Nat / Int / Wide of * / Wide * Nat / Int / Wide of * / Wide * Nat / Int / Wide of * / Wide * Nat / Int / Wide of * / Wide * Nat / Int / Wide of * / Wide * Nat / Int / Wide of * / Wide * Nat / Int / Wide of * / Wide of * Nat / Int / Wide of * / Wide of * Nat / Int / Wide of * / Wide of * Nat / Int / Wide of * / Wide of * Nat / Int / Wide of * / Wide of * Nat / Int / Wide of * / Wide of * Nat / Int / Wide of * / Wide of * Nat / Int / Wide of * / Wide of * Nat / Int / Wide of * / Wide of * Nat / Int / Wide of * / / Wide of * / / / / / / / / / / / / / / / / / /	ES .			•	Drive / Steer	in.						
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Max				Opt 2 Stg Full Free Lift Mast w	ith / without LBR	in. (mm)	31 / 57 (80	07 / 1456)				
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Park		17	SIP to Underside OHG	Depressed / Std OHG	Std / Full Susp	in. (mm)	38.7 / 38.9	(984 / 989)				
Forks		18	•			in. (mm)		,				
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Length L		26	Battery Compartment	•	,	in. (mm)	24 / 23.5 (610 / 597)				
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Part		_		Chassis Length	Т	· ·	,					
Equal Aisle 90' Intersecting Aisle in. (mm) 68.7 (1745)							•	,				
37 Outside Turning Radius In. (mm) 64.7 (1644)							· · · · · · · · · · · · · · · · · · ·	,				
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34 Axie Loading - Steer Static with Max. Wt. Battery Nt. / RL Ib. (kg) 4170 / 1790 (1891 / 812)	ا ب	$\overline{}$,	· ·				
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Tarvel Speed Extended Shift OFF NL / RL mph (km/h) 11.4 / 11.4 (18.4 / 18.4)		34	Axie Loading - Steer	Static with Max. Wt. Battery	NL / KL							
Extended Shift ON			Traval Chand	F	NI /DI							
Std 2 Stg LFL Mast NL / RL ft/min (m/sec) 126 / 83 (0.64 / 0.424)		35	Travel Speed				` ,	11.4 / 11.4 (16.4 / 16.4)				
Opt 2 Stg FFL Mast NL / RL ft/min (m/sec) 113 / 75 (0.573 / 0.38)		00	Lift Canad									
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Horizontal Park Horizontal		39	Drawbar Pull									
Hydraulic / Mechanical Method of Operation Service / Parking Foot / Foot (Optional Park Brake – Automatic) Lead Acid Lead Acid Pump Motor Traction Motor Traction Motor Traction Motor Type / Control Method Traction Motor Type / Control Method Traction Motor Type / Control Method AC / Transistor AC / Transistor AC / Transistor Infinitely Variable / Infinitely Variable Taction Motor Type / Control Method Traction Motor Type / Control Method Topic / Transistor Traction Motor Type / Control Method Topic / Transistor Traction Motor Type / Control Method Type / Contro		33	Diawbai Fuli				, ,					
Method of Operation Service / Parking Foot / Foot (Optional Park Brake – Automatic) Lead Acid Lead Acid Lead Acid Pump Motor 43 Pump Motor Traction Motor Type / Control Method Traction Motor Type / Control Method AC / Transistor Infinitely Variable / Infinitely Variable Taction / Pump Motor Type / Control Method Traction / Pump Motor Type / Control Method Traction / Pump Motor Type / Control Method AC / Transistor Infinitely Variable / Infinitely Variable Traction / Pump Motor Type / Control Method To / Transistor Traction / Pump Motor Type / Control Method Traction Motor Type / Control Method Traction Motor Type / Control Method To / Transistor Traction Motor Type / Control Method To / Transistor Traction Motor Type / Control Method To / Transistor Traction Motor Type / Control Method To / Transistor Traction Motor Type / Control Method To / Transistor Traction Motor Type / Control Method To / Transistor Traction Motor Type / Control Method To / Transistor Traction Motor Type / Control Method To / Transistor To / Traction Motor To / Traction Motor Type / Control Method To / Traction Motor To / Traction Motor To / Traction Motor To / Traction Motor To / To / To / Traction Motor To / To		40	Brake			(1)	` '	Mechanical				
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43 Pump Motor S3-15% hp (kW) 21.5 (16) 44 Traction Motor Type / Control Method AC / Transistor 45 Pump Motor Type / Control Method AC / Transistor 46 Number of Speeds Traction / Pump Infinitely Variable / Infinitely Variable 47 Step Height Lowest Point in. (mm) 30.4 (772) 48 Floor Height Lowest Point in. (mm) 30.4 (772) 49 Attachment Relief Pressure Mech Levers / Mini Levers psi (bar) 2596 / 2596 (179 / 179)	63	-	· ·			hp (kW)						
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45 Pump Motor Type / Control Method AC / Transistor 46 Number of Speeds Traction / Pump Infinitely Variable /	22		· · · · · · · · · · · · · · · · · · ·					nsistor				
46 Number of Speeds Traction / Pump Infinitely Variable / Infinitely Variable 47 Step Height in. (mm) 18.7 (475) 48 Floor Height Lowest Point in. (mm) 30.4 (772) 49 Attachment Relief Pressure Mech Levers / Mini Levers psi (bar) 2596 / 2596 (179 / 179)	Ш			••								
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49 Attachment Relief Pressure Mech Levers / Mini Levers psi (bar) 2596 / 2596 (179 / 179)	~	-	Floor Height	Lowest Point		in. (mm)						
50 Auxiliary Oil Flow 3rd Function / 4th Function gal/min (I/min) 10.6 / 10.6 (40 / 40)	E		Attachment Relief Pressure	Mech Levers / Mini Levers		psi (bar)						
	0		Auxiliary Oil Flow	3rd Function / 4th Function		gal/min (l/min)						
51 Sound Level Measured per ANSI B56.11.5 dB (A) 64			Sound Level	Measured per ANSI B56.11.5		dB (A)	64	4				

ERC035VA ERC040VA	2	2
Electric Electric	3	L L
Sit Sit	4	
3500 (1588) 4000 (1814)	5	
24 (610)	6	
Cushion / Cushion Cushion	7	_
18 x 6 x 12.1 / 14 x 4.5 x 8 18 x 7 x 12.1 / 15 x 5 x 11.25	8	
18 x 7 x 12.1 / 15 x 5 x 11.25 N/A/N/A		
2X/2 2X/2	9	_
31 / 31.8 / 37 / 35.7 (788 / 808 / 939 / 906) N/A / 31.8 / N/A / 35.7 (N/A / 808 / N/A / 906)	10	<u>U </u>
32.4 (822) 32.4 (822) 5F/5B 10F/5B 5F/5B 10F/5B		
82 (2080) 82 (2080)	11	
5 (140)	1/ 1:	
31 / 57 (807 / 1456) 31 / 57 (807 / 1456)		•
127 (3232)	14	4
176 / 150 (4455 / 3806) 176 / 150 (4455 / 3806)	1	
88.5 / 86.5 / 83.5 (2248 / 2197 / 2121) 88.5 / 86.5 / 83.5 (2248 / 2197 / 2121)	1	
38.7 / 38.9 (984 / 989) 38.7 / 38.9 (984 / 989)	T T	
9.1 (232)	1	
37.2 / 38.8 / 42.7 (945 / 986 / 1091 / 1084) 38.8 / 42.7 (986 / 1084)	1	
1.6 x 3.9 x 42 (40 x 100 x 1067) 1.6 x 3.9 x 42 (40 x 100 x 1067)		20 2
35.7 (907) 35.7 (907)	2	1 5
17.1 (435)	27	20 NOISHE
3.5 / 3.3 (90 / 84)	23	3 =
3.9 / 3.6 (98 / 92)	24	
14.2 (360)	2	25
24 / 23.5 (610 / 597) 24 / 23.5 (610 / 597)	20	26
35.8 / 35.6 (909 / 904) 35.8 / 35.6 (909 / 904)		_
27.6 (700) 27.6 (700)		_
75.9 (1929) 77.5 (1968)	2	_
48 (1220) 48 (1220)	28	
127.8 (3247) 128.7 (3270)	29	
68.8 (1748) 69.1 (1754)	3(_
65.2 (1657) 66.6 (1692) 5390 (2445) 5770 (2617)	3.	
3400 / 9680 (1542 / 4391) 3340 / 10510 (1515 / 4767)	32	3
4490 / 1710 (2037 / 776) 4830 / 1760 (2191 / 798)	34	
36 48 36 48		7
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126 / 77 (0.64 / 0.392) 142 / 96 (0.72 / 0.49) 126 / 74 (0.64 / 0.376) 142 / 93 (0.72 / 0.47)	30	6
113 / 69 (0.573 / 0.351) 127 / 86 (0.645 / 0.439) 113 / 66 (0.573 / 0.337) 127 / 83 (0.645 / 0.421		
117 / 72 (0.594 / 0.364) 131 / 90 (0.668 / 0.455) 117 / 69 (0.594 / 0.349) 131 / 86 (0.668 / 0.436		يز [
93 / 100 (0.47 / 0.51) 93 / 100 (0.47 / 0.51)	3	7 WANGE
73 / 91 (0.37 / 0.46) 73 / 91 (0.37 / 0.46)		ਵ
81 / 94 (0.41 / 0.48) 81 / 94 (0.41 / 0.48)		#
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618 / 680 (2748 / 3026) 630 / 694 (2804 / 3088) 605 / 667 (2693 / 2965) 617 / 680 (2745 / 3023		_
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AC / Transistor AC / Transistor AC / Transistor	4/	2 3 4 5
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	49 50	18 19 50

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. 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 enhances truck stability in a simple, maintenance free design, without compromising uneven surface travel.

MASTS/CARRIAGE/FORKS/LOAD BACKREST EXTENSION

Yale® 2-stage Limited Free Lift (LFL) and 2 or 3 stage Full Free Lift (FFL) 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.

A single free lift chain provides increased visibility. 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. Forks are "upset forged" from a single piece of high-strength steel give 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 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. The battery compartment can be fitted with rollers.

ADDITIONAL FEATURES

Additional features on the ERC-VA 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 Foot Directional Control Pedal Return to set tilt Telescoping Steering Column with Tilt Memory Rapid / Fast charge Cooler / Freezer Package Full suspension seats **Battery rollers** Overhead guard mounted headlights Lowered overhead guard Drive-in rack overhead guard LED and Halogen work light packages LED Dome / Reading light Basic and Premium LED Brake / Tail / Back-Up light packages 10° Forward / 5° Back Tilt Integral Sideshifter Integral Sideshifting Fork Positioner 48 volt Audible Alarm - Reverse Operation Visible Alarm - Amber strobe Various type drive tires Type "EE" UL construction **Dual Rear View Mirrors** Panoramic Rear View Mirror Fire Extinguisher Accumulator 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

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 6,959,936 and other patents pending.

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