

People. Products. Productivity.™

Yale® ERP-VM electric trucks are available in 8,000 – 12,000 pound capacities designed for demanding applications that require clean, quietrunning, 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) utilizina 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 controllers 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 truck status and service indicators.

ERP-VM

Electric, Pneumatic Tire Trucks 8,000 · 9,000 · 10,000 · 11,000 · 12,000 lbs

Electrical System

The ERP-VM forklift 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 electrical 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-VM lift truck features a standard 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." A manual override (located underneath the floor plate) is provided to disengage the brake if the truck has to be moved during service conditions or in the absence of power.

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. These low pedal effort brakes require no adjustments and very little maintenance, yet provide long service life.

Power-assist braking

Power-assist 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 a fluid level sensor that illuminates an icon on the display if low. The standard Auto Deceleration System automatically slows the truck when the operator's foot is removed from the accelerator pedal, extending brake life.

Voltage

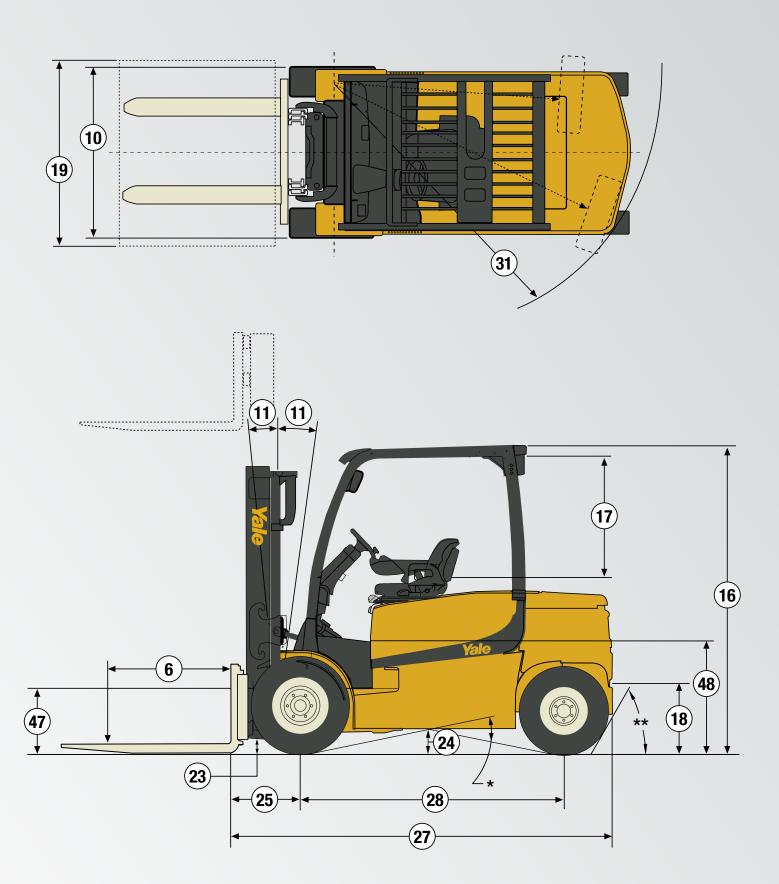
The ERP-VM lift truck uses an 80-volt electrical system for high performance and long run time to meet a variety of application requirements.

An operator presence system reduces the possibility of inadvertent truck movement.

Operator Interface Display

The display is conveniently located in the upper right area of the operator's compartment. The LCD display includes an hour meter, battery discharge indicator with lift interrupt, seat belt reminder and digital clock. Additional indicators are provided for travel direction, performance mode, brake fluid level, park brake and truck status. The display also permits access for service technicians to adjust performance (continued on back)





* Ground Clearance Grade 23.4° (ERP080VM, ERP090VM, ERP100VM) 20.7° (ERP100VML, ERP110VM, ERP120VM)

** Counterweight Angle 61° (ERP080VM, ERP090VM, ERP100VM) 75° (ERP100VML, ERP110VM, ERP120VM)

	1	Manufacturer					ale	
₽	2	Model Designation		ERP080VM	ERP090VM			
GENERAL	3	Power/Voltage			/80 Volts			
8	4	Operation Rated Capacity		lh (kg)		9000 (4082)		
	5 6	Load Center			lb (kg) in (mm)	8000 (3629)	610)	
	7	Tire Type - Cushion, Solid, Pneur	natic atc	Std/Opt	111 (111111)	<u>'</u>	natic Shaped Solid	
			, ,			250 x 15	· · · · · · · · · · · · · · · · · · ·	
TIRES	8	Tire Size (Standard)		Drive/Steer	in		2 16 Ply	
Œ	9	Wheels - Number	X=Driven	Drive/Steer		2)	V/2	
	10	Tread (Drive / Steer)		•		See Tread Ch	art on page 7	
	11	Mast Tilt	Std Opt Opt		degrees	6F/6B 6F/	/8B 6F/4B	
	12	Mast - Lowered Height	Std Mast		in (mm)	92 (2	2320)	
	13	Free Lift - Top of Fork	Std 2 Stg Limited Free Lift Mas		in (mm)	5 (1		
	14	Lift Height - Top of Fork	Std 2 Stg Limited Free Lift Mas	st	in (mm)	131 (
	15	Mast - Extended Height	Std Mast with/without LBR		in (mm)	<u> </u>	1591/4109)	
	16	Overhead Guard Height	I 0	0.10	in (mm)	92 (2	/	
	17 18	SIP to Bottom of OHG	Seat Depressed Vertical Center of Pin	Std/Susp/Swivel	in (mm)	38.5/39.1/38.5	. ' '	
	19	Tow Pin Height Overall Width (Drive Tires)	vertical center of Pili		in (mm)	20.7 See Overall Width	.` '	
1		, i				2.0 x 4.9 x 48	2.0 x 5.9 x 48	
DIMENSIONS	20	Forks	Thickness x Width x Length		in (mm)	(50 x 125 x 1219)	(50 x 150 x 1219)	
	21	Standard Carriage Width	Class III (8000-9000 lb.) Class	IV (10000 - 12000 lb.)	in (mm)	48 (1	219)	
JEN	23	Ground Clearance	Lowest Point			See Ground Clearar	nce Chart on page 7	
	24	Ground Clearance	Center of Truck	NL/RL	in (mm)	7.2/7.0 (183/177)	
	25	Load Distance	Center of Wheel to Face of For	-	in (mm)	20.6	(523)	
	26a	-	Height	w/Vertical Battery Removal	in (mm)	31.8	` '	
	26b	Battery Compartment	Width		in (mm)	40.8 (
	26c	, '	Land	Nominal (Std/Opt)	SIZE		/34	
	26d 27	Length to Face of Forks	Length Chassis Length	Actual (Std/Opt)	in (mm)		(1006/859)	
	28	Wheelbase	Oliassis Leligui		in (mm) in (mm)	114.5 (2908) 79.5 (2020)		
	29				in (mm)	163.9	,	
	30	Equal Aisle	90° Intersecting Aisle		in (mm)	91.4 (.` '	
	31	Outside Turning Radius	Ĭ			94.9 (2411)		
	,	outside furthing fludius			in (mm)	94.9 ((2411)	
	32	Truck Weight	Without Battery	NL	In (mm)	94.9 ((2411) 11390 (5166)	
WT.	32 33	Truck Weight Axle Loading - Drive	Static with Max. Wt. Battery	NL/RL	lb (kg)	11080 (5026) 8791/21276 (3988/9651)	11390 (5166) 8912/22958 (4042/10414)	
WT.	32	Truck Weight	· · · · · · · · · · · · · · · · · · ·		lb (kg)	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452)	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281)	
WT.	32 33 34	Truck Weight Axle Loading - Drive	Static with Max. Wt. Battery Static with Max. Wt. Battery	NL/RL NL/RL	lb (kg) lb (kg) lb (kg)	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452) Standard P	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281) erformance	
WT.	32 33 34 35a	Truck Weight Axle Loading - Drive	Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift On	NL/RL NL/RL	Ib (kg) Ib (kg) Ib (kg) mph (km/h)	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452) Standard P	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281) erformance 10.7/9.5 (17.2/15.3)	
WT.	32 33 34 35a 35b	Truck Weight Axle Loading - Drive Axle Loading - Steer	Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift On Extended Shift Off	NL/RL NL/RL NL/RL NL/RL	lb (kg) lb (kg) lb (kg) mph (km/h) mph (km/h)	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452) Standard P 11.0/9.9 (17.7/15.9) 13.0/12.4	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281) erformance 10.7/9.5 (17.2/15.3) (21.0/20.0)	
WT.	32 33 34 35a 35b 36a	Truck Weight Axle Loading - Drive Axle Loading - Steer Travel Speed	Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift On Extended Shift Off Std 2 Stg LFL Mast	NL/RL NL/RL NL/RL NL/RL NL/RL	lb (kg) lb (kg) lb (kg) mph (km/h) mph (km/h) ft/min (m/sec)	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452) Standard P 11.0/9.9 (17.7/15.9) 13.0/12.4 118/87 (0	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281) erformance 10.7/9.5 (17.2/15.3) (21.0/20.0) 0.60/0.44)	
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	32 33 34 35a 35b 36a 36b 36c	Truck Weight Axle Loading - Drive Axle Loading - Steer Travel Speed	Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift On Extended Shift Off Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast	NL/RL NL/RL NL/RL NL/RL NL/RL NL/RL NL/RL NL/RL	Ib (kg) Ib (kg) Ib (kg) Ib (kg) mph (km/h) mph (km/h) ft/min (m/sec) ft/min (m/sec) ft/min (m/sec)	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452) Standard P 11.0/9.9 (17.7/15.9) 13.0/12.4 118/87 (C 107/78 (O. 110/81 (O	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281) erformance 10.7/9.5 (17.2/15.3) (21.0/20.0) 0.60/0.44) 542/0.398) .56/0.411)	
ICE	32 33 34 35a 35b 36a 36b 36c 36d	Truck Weight Axle Loading - Drive Axle Loading - Steer Travel Speed Lift Speed, Extended Shift On	Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift On Extended Shift Off Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Std 2 Stg LFL Mast	NL/RL	Ib (kg) Ib (kg) Ib (kg) Ib (kg) Ib (km/h) If/min (m/sec) If/min (m/sec) If/min (m/sec) If/min (m/sec) If/min (m/sec)	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452) Standard P 11.0/9.9 (17.7/15.9) 13.0/12.4 118/87 (0 107/78 (0. 110/81 (0 118/87 (0	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281) erformance 10.7/9.5 (17.2/15.3) (21.0/20.0) 0.60/0.44) 542/0.398) .56/0.411) 0.60/0.44)	
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	32 33 34 35a 35b 36a 36b 36c 36d 36e 36f 37a 37b 37c	Truck Weight Axle Loading - Drive Axle Loading - Steer Travel Speed Lift Speed, Extended Shift On Lift Speed, Extended Shift Off	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift On Extended Shift Off Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast	NL/RL	mph (km/h) mph (km/h) ft/min (m/sec)	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452) Standard P 11.0/9.9 (17.7/15.9) 13.0/12.4 118/87 (0 107/78 (0. 110/81 (0 118/87 (0 107/78 (0. 110/81 (0 94/104 (0 75/91 (0 77/98 (0)	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281) erformance 10.7/9.5 (17.2/15.3) (21.0/20.0) 0.60/0.44) 542/0.398) .56/0.411) 0.60/0.44) 542/0.398) .56/0.411) 0.48/0.53) .38/0.46)	
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ICE	32 33 34 35a 35b 36a 36b 36c 36d 36e 37a 37b 37c 38a 38b 39a 39b 40a	Truck Weight Axle Loading - Drive Axle Loading - Steer Travel Speed Lift Speed, Extended Shift On Lift Speed, Extended Shift Off Lower Speed Gradeability	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift On Extended Shift Off Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Opt 2 Stg LFL Mast Opt 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast	NL/RL	Ib (kg) Ib (kg	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452) Standard P 11.0/9.9 (17.7/15.9) 13.0/12.4 118/87 (C 107/78 (0. 110/81 (0 118/87 (C 107/78 (0. 20/10/10/10/10/10/10/10/10/10/10/10/10/10	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281) erformance 10.7/9.5 (17.2/15.3) (21.0/20.0) 0.60/0.44) 542/0.398) 0.56/0.411) 0.60/0.44) 542/0.398) 0.56/0.411) 0.48/0.53) 0.38/0.46) 0.39/0.50) 22.7/14.9 8.3/5.5 4025/3908 1493/1460 pring Applied	
ICE	32 33 34 35a 35b 36a 36b 36c 36d 36e 37a 37b 37c 38a 38b 39a 39b 40a 40b	Truck Weight Axle Loading - Drive Axle Loading - Steer Travel Speed Lift Speed, Extended Shift On Lift Speed, Extended Shift Off Lower Speed Gradeability Drawbar Pull Brake	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift On Extended Shift Off Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Opt 2 Stg FFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast	NL/RL	Ib (kg) Ib (kg	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452) Standard P 11.0/9.9 (17.7/15.9) 13.0/12.4 118/87 (0 107/78 (0. 110/81 (0) 118/87 (0 107/78 (0. 110/81 (0) 94/104 (0 75/91 (0) 75/91 (0) 23/15.6 8.4/5.8 3985/3867 1475/1444 Hydraulic/Sp	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281) erformance 10.7/9.5 (17.2/15.3) (21.0/20.0) 0.60/0.44) 542/0.398) 0.56/0.411) 0.60/0.44) 542/0.398) 0.56/0.411) 0.48/0.53) 0.38/0.46) 0.39/0.50) 22.7/14.9 8.3/5.5 4025/3908 1493/1460 bring Applied ttomattic	
PERFORMANCE	32 33 34 35a 35b 36a 36b 36c 36d 36e 36f 37a 37b 37c 38a 38b 39a 39b 40a 40b 41	Truck Weight Axle Loading - Drive Axle Loading - Steer Travel Speed Lift Speed, Extended Shift On Lift Speed, Extended Shift Off Lower Speed Gradeability Drawbar Pull	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift On Extended Shift Off Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Opt 2 Stg FFL Mast Opt 2 Stg FFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Op	NL/RL	Ib (kg) Ib (kg	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452) Standard P 11.0/9.9 (17.7/15.9) 13.0/12.4 118/87 (C 107/78 (0. 110/81 (0) 118/87 (C 107/78 (0. 110/81 (0) 94/104 (C 75/91 (0) 77/98 (0. 23/15.6 8.4/5.8 3985/3867 1475/1444 Hydraulic/Sp Foot/Au	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281) erformance 10.7/9.5 (17.2/15.3) (21.0/20.0) 0.60/0.44) 542/0.398) 0.56/0.411) 0.60/0.44) 542/0.398) 0.56/0.411) 0.48/0.53) 0.38/0.46) 0.39/0.50) 22.7/14.9 8.3/5.5 4025/3908 1493/1460 pring Applied	
PERFORMANCE	32 33 34 35a 35b 36a 36b 36c 36d 36e 37a 37b 37c 38a 38b 39a 39b 40a 40b	Truck Weight Axle Loading - Drive Axle Loading - Steer Travel Speed Lift Speed, Extended Shift On Lift Speed, Extended Shift Off Lower Speed Gradeability Drawbar Pull Brake Battery	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift On Extended Shift Off Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Opt 2 Stg FFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast	NL/RL Service/Parking	Ib (kg) If (m/sec) If/min (m/sec) If/min (m/sec) If/min (m/sec) If/min (m/sec) If/min (m/sec) If/min (m/sec) Ib I	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452) Standard P 11.0/9.9 (17.7/15.9) 13.0/12.4 118/87 (C 107/78 (0. 110/81 (0) 118/87 (C 107/78 (0. 110/81 (0) 94/104 (C 75/91 (0) 77/98 (0. 23/15.6 8.4/5.8 3985/3867 1475/1444 Hydraulic/Sp Foot/Au	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281) erformance 10.7/9.5 (17.2/15.3) (21.0/20.0) 0.60/0.44) 542/0.398) .56/0.411) 0.60/0.44) 542/0.398) .56/0.411) 0.48/0.53) .38/0.46) .39/0.50) 22.7/14.9 8.3/5.5 4025/3908 1493/1460 bring Applied tomatic 1.4cid (14.7)	
PERFORMANCE	32 33 34 35a 35b 36a 36b 36c 36d 36e 37a 37b 37c 38a 38b 39a 39b 40a 40b 41 42 43 44	Truck Weight Axle Loading - Drive Axle Loading - Steer Travel Speed Lift Speed, Extended Shift On Lift Speed, Extended Shift Off Lower Speed Gradeability Drawbar Pull Brake Battery Traction Motors (Dual) Pump Motor Traction Motors	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift On Extended Shift Off Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Op	NL/RL Service/Parking	Ib (kg) Ib (kg	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452) Standard P 11.0/9.9 (17.7/15.9) 13.0/12.4 118/87 (C 107/78 (0. 110/81 (0) 118/87 (C 107/78 (0. 20/10.24) 110/81 (0) 110/81 (0) 94/104 (C 75/91 (0) 77/98 (0. 23/15.6 8.4/5.8 3985/3867 1475/1444 Hydraulic/Sg Foot/Au Lead	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281) erformance 10.7/9.5 (17.2/15.3) (21.0/20.0) 0.60/0.44) 542/0.398) .56/0.411) 0.60/0.44) 542/0.398) .56/0.411) 0.48/0.53) .38/0.46) .39/0.50) 22.7/14.9 8.3/5.5 4025/3908 1493/1460 bring Applied tomatic 1.4cid (14.7)	
ICE	32 33 34 35a 35b 36a 36b 36c 36d 36e 37a 37b 37c 38a 38b 39a 39b 40a 40b 41 42 43	Truck Weight Axle Loading - Drive Axle Loading - Steer Travel Speed Lift Speed, Extended Shift On Lift Speed, Extended Shift Off Lower Speed Gradeability Drawbar Pull Brake Battery Traction Motors (Dual) Pump Motor	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift On Extended Shift Off Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Opt 2 Stg FFL Mast Opt 3 Opt	NL/RL Service/Parking	Ib (kg) Ib (kg	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452) Standard P 11.0/9.9 (17.7/15.9) 13.0/12.4 118/87 (C 107/78 (0. 110/81 (0) 118/87 (C 107/78 (0. 20/10.6) 110/81 (0) 94/104 (C 75/91 (0) 77/98 (0. 23/15.6 8.4/5.8 3985/3867 1475/1444 Hydraulic/Sg Foot/Au Lead 19.7 48.3 Dual AC/	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281) erformance 10.7/9.5 (17.2/15.3) (21.0/20.0) 0.60/0.44) 542/0.398) .56/0.411) 0.60/0.44) 542/0.398) .56/0.411) 0.48/0.53) .38/0.46) .39/0.50) 22.7/14.9 8.3/5.5 4025/3908 1493/1460 bring Applied atomatic 1.4 Acid (14.7) 1.6 (366)	
PERFORMANCE	32 33 34 35a 35b 36a 36b 36c 36d 36e 37a 37b 37c 38a 38b 39a 39b 40a 40b 41 42 43 44 45 46	Truck Weight Axle Loading - Drive Axle Loading - Steer Travel Speed Lift Speed, Extended Shift On Lift Speed, Extended Shift Off Lower Speed Gradeability Drawbar Pull Brake Battery Traction Motors (Dual) Pump Motor Traction Motors Pump Motor Number of Speeds	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift On Extended Shift Off Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Opt 4 Stg FFL Mast Opt 5 Minute Rating S Minute Rating Type/Control Method	NL/RL Service/Parking	Ib (kg) Ib (m/sec) It/min (m/sec) Ib I	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452) Standard P 11.0/9.9 (17.7/15.9) 13.0/12.4 118/87 (C 107/78 (0. 110/81 (0) 118/87 (C 107/78 (0. 17/78 (0. 17/78 (0. 17/78 (0. 18/87 (0. 19/81 (0. 19/	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281) erformance 10.7/9.5 (17.2/15.3) (21.0/20.0) 0.60/0.44) 542/0.398) .56/0.411) 0.60/0.44) 542/0.398) .56/0.411) 0.48/0.53) .38/0.46) .39/0.50) 22.7/14.9 8.3/5.5 4025/3908 1493/1460 bring Applied tomatic 1.4cid (14.7) 1.6 (36) Transistor Insistor Insistor Infinitely Variable	
PERFORMANCE	32 33 34 35a 35b 36a 36b 36c 36d 36e 37a 37b 37c 38a 38b 39a 39b 40a 40b 41 42 43 44 45 46 47	Truck Weight Axle Loading - Drive Axle Loading - Steer Travel Speed Lift Speed, Extended Shift On Lift Speed, Extended Shift Off Lower Speed Gradeability Drawbar Pull Brake Battery Traction Motors (Dual) Pump Motor Traction Motors Pump Motor Number of Speeds Step Height	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift On Extended Shift Off Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Opt 2 Stg FFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Opt 4 Stg FFL Mast Opt 3 Stg FFL Mast Opt 3 Stg FFL Mast Opt 3 Stg FFL Mast Opt 4 Stg FFL Mast Opt 3 Stg FFL Mast Opt 4 Stg FFL Mast Opt 4 Stg FFL Mast Opt 5 Stg FFL Mast Opt 5 Stg FFL Mast Opt 6 Stg FFL Mast Op	NL/RL Service/Parking	Ib (kg) If/min (m/sec) Ib I	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452) Standard P 11.0/9.9 (17.7/15.9) 13.0/12.4 118/87 (0 107/78 (0. 110/81 (0) 118/87 (0 107/78 (0. 110/81 (0) 94/104 (0 75/91 (0) 77/98 (0. 23/15.6 8.4/5.8 3985/3867 1475/1444 Hydraulic/S; Foot/Au Lead 19.7 48.3 Dual AC/ AC/Tra Infinitely Variable.	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281) erformance 10.7/9.5 (17.2/15.3) (21.0/20.0) 0.60/0.44) 542/0.398) .56/0.411) 0.60/0.44) 542/0.398) .56/0.411) 0.48/0.53) .38/0.46) .39/0.50) 22.7/14.9 8.3/5.5 4025/3908 1493/1460 oring Applied tomatic Acid (14.7) 16 (36) Transistor Insistor Insistor Infinitely Variable (490)	
ELECTRIC PERFORMANCE	32 33 34 35a 35b 36a 36b 36c 36d 36e 37a 37b 37c 38a 38b 39a 39b 40a 40b 41 42 43 44 45 46 47 48	Truck Weight Axle Loading - Drive Axle Loading - Steer Travel Speed Lift Speed, Extended Shift On Lift Speed, Extended Shift Off Lower Speed Gradeability Drawbar Pull Brake Battery Traction Motors (Dual) Pump Motor Traction Motors Pump Motor Number of Speeds Step Height Floor Height	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift On Extended Shift Off Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Opt 2 Stg FFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Opt 4 Stg FFL Mast Opt 3 Stg FFL Mast Opt 3 Stg FFL Mast Opt 3 Stg FFL Mast Opt 4 Stg FFL Mast Opt 3 Stg FFL Mast Opt 4 Stg FFL Mast Opt 4 Stg FFL Mast Opt 5 Stg FFL Mast Opt 5 Stg FFL Mast Opt 6 Stg FFL Mast Op	NL/RL Service/Parking	Ib (kg) If/min (m/sec) If/min (m/sec) If/min (m/sec) If/min (m/sec) If/min (m/sec) If/min (m/sec) Ibf Ibf Ibf Ibf Ibf In (mm) In (mm) In (mm)	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452) Standard P 11.0/9.9 (17.7/15.9) 13.0/12.4 118/87 (0 107/78 (0. 110/81 (0) 118/87 (0 107/78 (0. 110/81 (0) 94/104 (0 75/91 (0) 77/98 (0. 23/15.6 8.4/5.8 3985/3867 1475/1444 Hydraulic/S; Foot/Au Lead 19.7 48.3 Dual AC/ AC/Tra Infinitely Variable. 19.3	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281) erformance 10.7/9.5 (17.2/15.3) (21.0/20.0) 0.60/0.44) 542/0.398) .56/0.411) 0.60/0.44) 542/0.398) .56/0.411) 0.48/0.53) .38/0.46) .39/0.50) 22.7/14.9 8.3/5.5 4025/3908 1493/1460 oring Applied tomatic Acid (14.7) 16 (36) Transistor Insistor Insistor Insistor Infinitely Variable (490) (840)	
ELECTRIC PERFORMANCE	32 33 34 35a 35b 36a 36b 36c 36d 36e 36f 37a 37b 37c 38a 38b 39a 40a 40b 41 42 43 44 45 46 47 48 49	Truck Weight Axle Loading - Drive Axle Loading - Steer Travel Speed Lift Speed, Extended Shift On Lift Speed, Extended Shift Off Lower Speed Gradeability Drawbar Pull Brake Battery Traction Motors (Dual) Pump Motor Traction Motors Pump Motor Number of Speeds Step Height Floor Height Attachment Relief Pressure	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift On Extended Shift Off Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Std 10 Stg FFL Mast Opt 3 Stg FFL Mast Opt 3 Stg FFL Mast Std 10 Stg FFL Mast Opt 3 Stg FFL Mast Std 10 Stg FFL Mast Opt 3 Stg FFL Mast Std 10 Stg FFL Mast Opt 3 Stg FFL Mast Opt 3 Stg FFL Mast Std 10 Stg FFL Mast Opt 3 Stg FF	NL/RL Service/Parking	mph (km/h) mph (km/h) mph (km/h) ft/min (m/sec) in (mm) in (mm) psi (bar)	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452) Standard P 11.0/9.9 (17.7/15.9) 13.0/12.4 118/87 (0 107/78 (0. 110/81 (0) 118/87 (0 107/78 (0. 110/81 (0) 94/104 (0 75/91 (0) 77/98 (0. 23/15.6 8.4/5.8 3985/3867 1475/1444 Hydraulic/S; Foot/Au Lead 19.7 48.3 Dual AC/ AC/Tra Infinitely Variable. 19.3 33.1	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281) erformance 10.7/9.5 (17.2/15.3) (21.0/20.0) 0.60/0.44) 542/0.398) .56/0.411) 0.60/0.44) 542/0.398) .56/0.411) 0.48/0.53) .38/0.46) .39/0.50) 22.7/14.9 8.3/5.5 4025/3908 1493/1460 bring Applied tomatic Acid (14.7) 16 (36) Transistor Insistor Insistor Insistor Insistor Infinitely Variable (490) (840) (155)	
PERFORMANCE	32 33 34 35a 35b 36a 36b 36c 36d 36e 36f 37a 37b 37c 38a 38b 39a 40a 40b 41 42 43 44 45 46 47 48 49 50	Truck Weight Axle Loading - Drive Axle Loading - Steer Travel Speed Lift Speed, Extended Shift On Lift Speed, Extended Shift Off Lower Speed Gradeability Drawbar Pull Brake Battery Traction Motors (Dual) Pump Motor Traction Motors Pump Motor Number of Speeds Step Height Floor Height Attachment Relief Pressure Auxiliary Oil Flow	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift On Extended Shift Off Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast 5 Minute Rating 60 Minute Rating 5 Minute Rating Method of Control Method of Operation Type 60 Minute Rating 15 Minute rating Type/Control Method Type/Control Method Traction/Pump 3rd and 4th Function	NL/RL Service/Parking	Ib (kg) If/min (m/sec) Ib I	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452) Standard P. 11.0/9.9 (17.7/15.9) 13.0/12.4 118/87 (C 107/78 (0. 110/81 (0) 118/87 (C 107/78 (0. 110/81 (0) 94/104 (C 75/91 (0) 77/98 (0) 23/15.6 8.4/5.8 3985/3867 1475/1444 Hydraulic/Sp Foot/Au Lead 19.7 48.3 Dual AC/ AC/Tra Infinitely Variable 19.3 33.1 2250	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281) erformance 10.7/9.5 (17.2/15.3) (21.0/20.0) .60/0.44) 542/0.398) .56/0.411) .0.60/0.44) 542/0.398) .56/0.4111 .0.48/0.53) .38/0.46) .39/0.50) 22.7/14.9 8.3/5.5 4025/3908 1493/1460 pring Applied tomatic thacid (14.7) (14.7) (36) (14.7) (36) Transistor Infinitely Variable (490) (840) (155) (60)	
ELECTRIC PERFORMANCE	32 33 34 35a 35b 36a 36b 36c 36d 36e 36f 37a 37b 37c 38a 38b 39a 40a 40b 41 42 43 44 45 46 47 48 49	Truck Weight Axle Loading - Drive Axle Loading - Steer Travel Speed Lift Speed, Extended Shift On Lift Speed, Extended Shift Off Lower Speed Gradeability Drawbar Pull Brake Battery Traction Motors (Dual) Pump Motor Traction Motors Pump Motor Number of Speeds Step Height Floor Height Attachment Relief Pressure	Static with Max. Wt. Battery Static with Max. Wt. Battery Static with Max. Wt. Battery Extended Shift On Extended Shift Off Std 2 Stg LFL Mast Opt 2 Stg FFL Mast Opt 3 Stg FFL Mast Std 10 Stg FFL Mast Opt 3 Stg FFL Mast Opt 3 Stg FFL Mast Std 10 Stg FFL Mast Opt 3 Stg FFL Mast Std 10 Stg FFL Mast Opt 3 Stg FFL Mast Std 10 Stg FFL Mast Opt 3 Stg FFL	NL/RL Service/Parking	mph (km/h) mph (km/h) mph (km/h) ft/min (m/sec) in (mm) in (mm) psi (bar)	11080 (5026) 8791/21276 (3988/9651) 7687/3201 (3487/1452) Standard P 11.0/9.9 (17.7/15.9) 13.0/12.4 118/87 (C 107/78 (0. 110/81 (0) 94/104 (C 75/91 (0) 77/98 (0) 23/15.6 8.4/5.8 3985/3867 1475/1444 Hydraulic/Sp Foot/Au Lead 19.7 48.3 Dual AC/ AC/Tra Infinitely Variable 19.3 33.1 2250 16	11390 (5166) 8912/22958 (4042/10414) 7870/2824 (3570/1281) erformance 10.7/9.5 (17.2/15.3) (21.0/20.0) 0.60/0.44) 542/0.398) .56/0.411) 0.60/0.44) 542/0.398) .56/0.411) 0.48/0.53) .38/0.46) .39/0.50) 22.7/14.9 8.3/5.5 4025/3908 1493/1460 bring Applied tomatic Acid (14.7) 16 (36) Transistor Insistor Insistor Insistor Insistor Infinitely Variable (490) (840) (155)	

Second Comment Seco		1	Manufacturer				Yale		
State Capacity In (mm) Presumblic State Office Presumblic Staged Shift Presumblic Stag		2					ERP100VML		
State Capazary Stat	₩.	3							
Starbet Cupracry			•	,					
Text Spee Casterion (3) Stephenomic (etc. Subfiget Presented Stephenomic Staped Sold Presented Stephenomic Stephenomic Staped Sold Presented Stephenomic	5	5	Rated Capacity			lb (kg)	10000 (45	i36)	
28 Tire Size (Standard)		6	Load Center			in (mm)	24 (610)	
Winestern		7	Tire Type - Cushion, Solid, Pneun	natic, etc.	Std/Opt		Pneumatic/Pneumatic Shaped Solid	Pneumatic Shaped Solid	
Windows - Number Pactures Decrease See Beed Chart on page 7	RES	8	Tire Size (Standard)		Drive/Steer	in			
1 Mast Tit		9	Wheels - Number	X=Driven	Drive/Steer		2X/2		
2		10	Tread (Drive / Steer)				See Tread Chart	on page 7	
1		11	Mast Tilt	Std Opt Opt		degrees	6F/6B 6F/8B	6F/4B	
Lift Height - Top of Fork Std 25th Limited Free Lift Mast In (mm) 1721 (2009)		_				in (mm)		<i>'</i>	
15 Mast - Extended Height 15 Mast with/without LBR		_	· · · · · · · · · · · · · · · · · · ·			` '			
16		_		•	st	` '	· · · · · · · · · · · · · · · · · · ·	,	
18				Std Mast with/without LBR		`	· · · · · · · · · · · · · · · · · · ·	,	
19 Overall Width (Drive Tree)			•	Coat Danroaced	Ctd/Cuan/Curival	` '	<u>'</u>	·	
See Overall Width (Drive Tires) See Overall Width (Dark or page 7				•	Stu/Susp/Swivei	` '	· · · · · · · · · · · · · · · · · · ·	<u> </u>	
2			· · · · · · · · · · · · · · · · · · ·	Vertical Center of Fin		III (IIIIII)	,	,	
Second Clearance Construct Region Class III (1900 - 12000 ib.) In (mm) 48 (1219)			•						
Description See Ground Clearance Lowest Point See Ground Clearance Center of Track NL/RL in (mm) 7.27 of (1831/177)	¥ _			-		in (mm)	(50 x 150 x	1219)	
Section Control of Truck Nu.Rt In (mm) 7.27.0 (183/177)			•	· · · · · ·	IV (10000 - 12000 lb.)	in (mm)		,	
Center of Wheel to Face of Forks In (mm) 20.6 (523)	ME				NI /DI				
Height Width Width Width In (mm) 31.8 (B0B)						` '	· · · · · · · · · · · · · · · · · · ·		
Battery Compartment			Luau distance			` '	· · · · · · · · · · · · · · · · · · ·	,	
Nominal (Stut/Opt) SIZE 40					W/ Vertical Dattery hemoval	` '		/	
Length Length Actual (Std/Opt) in (mm) 39.6 (1006)			Battery Compartment	maar	Nominal (Std/Opt)	` '	· · · · · · · · · · · · · · · · · · ·	,,,	
27 Length to Face of Forks 28 Wheelbase 29 Right Angle Stack 30 Equal Aisle 30 Equal Aisle 31 Outside Turning Radius 31 Outside Turning Radius 32 Truck Weight 33 Axle Loading - Drive 34 Stale Loading - Drive 34 Stale Loading - Steer 35 Extended Shift Off 36 Extended Shift Off 36 Extended Shift Off 37 Extended Shift Off 38 Stale Loading - Steer 38 Stale Loading - Steer 48 Stale Loading - Steer 49 Stale Loading - Steer 49 Stale Loading - Steer 40 Stale Loading - Steer 41 Stale Loading - Steer 42 Stale Lift Speed, Extended Shift Off 43 Stale Loading - Steer 44 Stale Loading - Steer 45 Stale Lift Speed, Extended Shift Off 46 Stale Lift Speed, Extended Shift Off 47 Stale Loading - Steer 48 Stale Loading - Steer 49 Stale Lift Speed, Extended Shift Off 40 Stale Lift Speed, Extended Shift Off 40 Stale Lift Speed, Extended Shift Off 40 Stale Lift Speed, Extended Shift Off 41 Stale Lift Speed, Extended Shift Off 42 Stale Lift Speed, Extended Shift Off 44 Stale Loading - Steer 45 Stale Lift Speed, Extended Shift Off 46 Stale Lift Speed, Extended Shift Off 47 Stale Lift Speed, Extended Shift Off 48 Stale Lift Speed, Extended Shift Off 49 Stale Lift Speed, Extended Shift Off 40 Stale Lift Spe				Length	· · · · ·			06)	
29 Right Angle Stack 90 Intersecting Aisle 91 170 2 (4322) 95.9 (2436)			Length to Face of Forks	-	,	` '	· · · · · · · · · · · · · · · · · · ·	,	
30 Equal Aisle 90' Intersecting Aisle in (mm) 91.4 (2322) 95.9 (2436) 31 Outside Turning Radius in (mm) 94.9 (2411) 101.3 (2573) 32 Truck Weight Without Battery NL Ib (kg) 12220 (5543) 13710 (6219) 33 Avice Loading - Drive Static with Max. Wt. Battery NL/RL Ib (kg) 9341(25253 (4237/11446) 9916/25354 (4452/1150 34 Avice Loading - Steer Static with Max. Wt. Battery NL/RL Ib (kg) 9241(252378 (3752/1079) 9287/3750 (4213/1701 35a Travel Speed Extended Shift Off NL/RL mph (km/h) 10.4/94 (16.715.1) 11.6/91 (18.714.7) 35a Sib Iff Speed, Extended Shift Off NL/RL mph (km/h) 13.0/12.4 (21.0/20.0) 35a Sib Iff Speed, Extended Shift Off NL/RL mph (km/h) 13.0/12.4 (21.0/20.0) 35a Sid 2 Stg LFL Mast NL/RL ft/min (m/sec) 93/71 (0.470.36) 91/61 (46/.31) 36a Sid 2 Stg LFL Mast NL/RL ft/min (m/sec) 37/76 (0.4440.34) 83/59 (4227.3) 36b Lift Speed, Extended Shift Off Opt 2 Stg FFL Mast NL/RL ft/min (m/sec) 93/71 (0.470.36) 96/69 (49/.35) 36c Sid 2 Stg LFL Mast NL/RL ft/min (m/sec) 93/71 (0.470.36) 96/69 (49/.35) 36c Sid 2 Stg LFL Mast NL/RL ft/min (m/sec) 93/71 (0.470.36) 96/69 (49/.35) 37a Sid 2 Stg LFL Mast NL/RL ft/min (m/sec) 93/76 (0.4440.34) 89/66 (4527.344) 37b Lower Speed Opt 2 Stg FFL Mast NL/RL ft/min (m/sec) 73/89 (0.370.45) 71/91 (387.46) 37b Lower Speed Opt 2 Stg FFL Mast NL/RL ft/min (m/sec) 73/89 (0.370.45) 71/91 (387.46) 37a Sid 2 Stg LFL Mast NL/RL ft/min (m/sec) 73/89 (0.370.44) 61/89 (31/4.5) 37a Sid 2 Stg LFL Mast NL/RL ft/min (m/sec) 73/89 (0.370.44) 61/89 (31/4.5) 37a Sid 2 Stg LFL Mast NL/RL ft/min (m/sec) 73/89 (0.370.44) 61/89 (31/4.5) 37a Sid 2 Stg LFL Mast NL/RL ft/min (m/sec) 73/89 (0.370.44) 61/89 (31/4.5) 37a Sid 2 Stg LFL Mast NL/RL ft/min (m/sec) 73/89 (0.370.44) 61/89 (31/4.5) 37a Sid 2 Stg LFL M		28	Wheelbase			in (mm)	79.5 (2020)	85.8 (2180)	
31 Outside Turning Radius In (mm) 94.9 (2411) 101.3 (2573)		29	Right Angle Stack			in (mm)	163.9 (4164)	170.2 (4323)	
32 Truck Weight Without Battery NL Ib (kg) 12220 (5543) 13710 (6219)		30	Equal Aisle	90° Intersecting Aisle		in (mm)	91.4 (2322)	95.9 (2436)	
Static with Max. Wt. Battery NL/RL Ib (kg) 9341/25235 (4237/11446) 9816/25354 (4452/1150 34 Axle Loading - Steer Static with Max. Wt. Battery NL/RL Ib (kg) 8272/2378 (3752/1079) 92877/3750 (4213/1701 10 kg) 8272/2378 (3752/1079) 92877/3750 (4213/1701 10 kg) 8272/2378 (3752/1079) 92877/3750 (4213/1701 10 kg) 8372/2378 (3752/1079) 9287/3750 (4213/1701 10 kg) 10 kg					I	` '	\ /	, ,	
Sate Static with Max. Wt. Battery NL/RL 1b (kg) 8272/2378 (3752/1079) 9287/3750 (4213/1701 11.6/9.1 (11.6/9.1 (11.6/9.1 (18.7/14.7) 11.6/9.1 (18			•	•			` '	` ,	
Standard Performance Standard Performance			•			, ,,	, , ,	· · · · · · · · · · · · · · · · · · ·	
Travel Speed		J4	Axic Loading - Steel	Static With Max. Wt. Dattery	NL/IIL	ib (kg)	, , ,		
State Speed Extended Shift Off NL/RL mph (km/h) 13.0/12.4 (21.0/20.0)		35a	a .	Extended Shift On	NL/RL	mph (km/h)			
Second S			Iravel Speed	Extended Shift Off	NL/RL	mph (km/h)	13.0/12.4 (21	.0/20.0)	
1		36a		Std 2 Stg LFL Mast	NL/RL	ft/min (m/sec)	93/71 (0.47/0.36)	91/61 (.46/.31)	
Std 2 Stg LFL Mast NL/RL ft/min (m/sec) 93/71 (0.47/0.36) 96/69 (.49/.35)		36b	Lift Speed, Extended Shift On	Opt 2 Stg FFL Mast	NL/RL	ft/min (m/sec)	87/67 (0.444/0.34)	83/59 (.422/.3)	
Number of Speeds Extended Shift Off Opt 2 Stg FFL Mast NL/RL ft/min (m/sec) 87/67 (0.444/0.34) 89/66 (452/.346) 91/67 (446/.339)		36c		Opt 3 Stg FFL Mast	NL/RL	ft/min (m/sec)	89/68 (0.452/0.346)	85/60 (.434/.303)	
Specific							` ′		
37c 38a 38b 37d 38d			Lift Speed, Extended Shift Off		+				
37c 38a 38b 37d 38d	RM/					, ,	, ,	· · · · · · · · · · · · · · · · · · ·	
37c 38a 38b 37d 38d	<u>چ</u>		Lawar Chaod			` '	, ,	. ,	
38a 38b 38b 38b 39b 60 Minute Rating NL/RL W 8.1/5.2 4.7/3.2			Lower Speed			`	` '	, ,	
Sab Gaucian Sab						` '	` ′	. ,	
39a 39b 39b 39b 60 Minute Rating NL/RL Ibf 4022/3907 4020/3898 1485/1451 40a 40b 4			Gradeability						
Superscript				•					
Method of Control Service/Parking Hydraulic/Spring Applied			Drawbar Pull						
40b Method of Operation Service/Parking Foot/Automatic 41 Battery Type Lead Acid 42 Traction Motors (Dual) 60 Minute Rating Each hp (kW) 19.7 (14.7) 43 Pump Motor 15 Minute rating hp (kW) 48.3 (36) 44 Traction Motors Type/Control Method Dual AC/Transistor 45 Pump Motor Type/Control Method AC/Transistor 46 Number of Speeds Traction/Pump Infinitely Variable/Infinitely Variable 47 Step Height in (mm) 19.3 (490) 48 Floor Height in (mm) 33.1 (840)		40a	Rrake	· · · · · ·	Service/Parking		Hydraulic/Sprin		
42 Traction Motors (Dual) 60 Minute Rating Each hp (kW) 19.7 (14.7) 43 Pump Motor 15 Minute rating hp (kW) 48.3 (36) 44 Traction Motors Type/Control Method Dual AC/Transistor 45 Pump Motor Type/Control Method AC/Transistor 46 Number of Speeds Traction/Pump Infinitely Variable/Infinitely Variable 47 Step Height in (mm) 19.3 (490) 48 Floor Height in (mm) 33.1 (840)				Method of Operation	Service/Parking		Foot/Auton	natic	
43 Pump Motor 15 Minute rating hp (kW) 48.3 (36) 44 Traction Motors Type/Control Method Dual AC/Transistor 45 Pump Motor Type/Control Method AC/Transistor 46 Number of Speeds Traction/Pump Infinitely Variable/Infinitely Variable/Infinitely Variable 47 Step Height in (mm) 19.3 (490) 48 Floor Height in (mm) 33.1 (840)				••					
45 Pump Motor Type/Control Method AC/Transistor 46 Number of Speeds Traction/Pump Infinitely Variable/Infinitely Variable/Infinitely Variable 47 Step Height in (mm) 19.3 (490) 48 Floor Height in (mm) 33.1 (840)	<u></u>		` '	•	Each	- ' '		·	
45 Pump Motor Type/Control Method AC/Transistor 46 Number of Speeds Traction/Pump Infinitely Variable/Infinitely Variable 47 Step Height In (mm) 19.3 (490) 48 Floor Height In (mm) 33.1 (840)	E E		<u> </u>	•		hp (kW)	· · · · · · · · · · · · · · · · · · ·	,	
46 Number of Speeds Traction/Pump Infinitely Variable/Infinitely Variable 47 Step Height in (mm) 19.3 (490) 48 Floor Height in (mm) 33.1 (840)	ij.			• • • • • • • • • • • • • • • • • • • •					
47 Step Height in (mm) 19.3 (490) 48 Floor Height in (mm) 33.1 (840)			<u> </u>						
48 Floor Height in (mm) 33.1 (840)			•	n action/rump		in (mm)			
						` ′	· ·	·	
Part Particular in the court Dat (Dati) ZZ30 (133)		49	Attachment Relief Pressure			psi (bar)	2250 (15	,	
49 Attachment Relief Pressure psi (bar) 2250 (155) 50 Auxiliary Oil Flow 3rd and 4th Function gal/min (l/min) 16 (60)	품			3rd and 4th Function		· ` ` '	<u>`</u> _	·	
51a Sound Level Extended Shift On dB (A) 68						` '			
		V . W					68 69		

	4	Manufacturar			T	Va	la la	
	2	Manufacturer Model Designation		,		Ya ERP110VM	ERP120VM	
Æ	3	Power/Voltage				Electric/		
GENERA	4	Operation			S			
쁑	5	Rated Capacity		lb (kg)	11000 (4990)	12000 (5443)		
	6	Load Center			in (mm)	24 ((,	
		Tire Type - Cushion, Solid, Pneur	natic, etc.	Std/Opt	()	Pneumatic S	- '/	
S		Tire Cine (Ctandord)	,		in		·	
IIRES	8	Tire Size (Standard)		Drive/Steer	in	355/50-15	/26 X 9-15	
▎▘▏	9	Wheels - Number	X=Driven	Drive/Steer		2X/2		
	10	Tread (Drive / Steer)	Ta			See Tread Ch		
	11	Mast Tilt	Std Opt Opt		degrees	6F/6B 6F/		
	12	Mast - Lowered Height	Std Mast		in (mm)	92 (2		
	13 14	Free Lift - Top of Fork Lift Height - Top of Fork	Std 2 Stg Limited Free Lift Mas Std 2 Stg Limited Free Lift Mas		in (mm) in (mm)	5 (150) 121 (3090)	6 (160) 122 (4000)	
	15	Mast - Extended Height	Std Mast with/without LBR		in (mm)	172/159 (4	, ,	
	16	Overhead Guard Height	Ota Mast With Without Edit		in (mm)	92 (2	· · · · · · · · · · · · · · · · · · ·	
	17	SIP to Bottom of OHG	Seat Depressed	Std/Susp/Swivel	in (mm)	38.5/39.1/38.5	,	
	18	Tow Pin Height	Vertical Center of Pin		in (mm)	20.7	, ,	
	19	Overall Width (Drive Tires)			`	See Overall Width	Chart on page 7	
	20	Forks	Thickness x Width x Length		in (mm)	2.0 x 5.9 x 48	2.4 x 5.9 x 48	
SNC					` ′	(50 x 150 x 1219)	(60 x 150 x 1219)	
DIMENSIONS	21	Standard Carriage Width	Class III (8000-9000 lb.) Class	IV (10000 - 12000 lb.)	in (mm)	48 (1	,	
ME	23	Ground Clearance	Lowest Point	NI /DI	! ()	See Ground Clearar		
ū	24 25	Ground Clearance Load Distance	Center of Truck Center of Wheel to Face of For	NL/RL	in (mm) in (mm)	7.2/7.0 (20.6	,	
	26a	Ludu Distalice	Height	w/Vertical Battery Removal	in (mm)	31.8	,	
	26b	-	Width	W/ Vertical Dattery Hemoval	in (mm)	40.8 (` '	
	26c	Battery Compartment	· · · · · · · · · · · · · · · · · · ·	Nominal (Std/Opt)	SIZE	4	,	
	26d	-	Length Actual (Std/Opt)		in (mm)	39.6 (1006)		
	27	Length to Face of Forks	Chassis Length		in (mm)	120.8 (3068)		
	28	Wheelbase			in (mm)	85.8 (2180)		
	29	Right Angle Stack			in (mm)	170.2 (4323)		
	30	Equal Aisle	90° Intersecting Aisle		in (mm)	95.9 (,	
	31	Outside Turning Radius		I	in (mm)	101.3	,	
ايرا	32	Truck Weight	Without Battery	NL NL (D)	lb (kg)	13930 (6319)	14510 (6582)	
M	33 34	Axle Loading - Drive Axle Loading - Steer	Static with Max. Wt. Battery Static with Max. Wt. Battery	NL/RL NL/RL	lb (kg) lb (kg)	9839/26931 (4463/12216) 9485/3393 (4302/1539)	10118/28726 (4589/13030) 9789/3180 (4440/1442)	
	34	Axie Loading - Steel	Static With Max. Wt. Dattery	NL/NL	ID (Kg)	9460/3393 (4302/1339) Standard Po	, , ,	
	35a		Extended Shift On	NL/RL	mph (km/h)	11.6/9.0 (18.7/14.5)	11.6/9.0 (18.7/14.5)	
	35b	Travel Speed	Extended Shift Off	NL/RL	mph (km/h)	13.0/12.4 (21.0/20.0)	13.0/12.1 (21.0/19.5)	
	36a		Std 2 Stg LFL Mast	NL/RL	ft/min (m/sec)	91/59 (.46/.30)	91/59 (.46/.30)	
	36b	Lift Speed, Extended Shift On	Opt 2 Stg FFL Mast	NL/RL	ft/min (m/sec)	83/58 (.422/.295)	83/58 (.422/.295)	
	36c		Opt 3 Stg FFL Mast	NL/RL	ft/min (m/sec)	85/58 (.434/.297)	85/58 (.43/.297)	
ш	36d		Std 2 Stg LFL Mast	NL/RL	ft/min (m/sec)	96/67 (.49/.34)	96/65 (.49/.33)	
ANCE		Lift Speed, Extended Shift Off	Opt 2 Stg FFL Mast	NL/RL	ft/min (m/sec)	89/65 (.452/.33)	89/64 (.452/.325)	
RM/	36f		Opt 3 Stg FFL Mast	NL/RL	ft/min (m/sec)	91/66 (.464/.333)	91/64 (.464/.327)	
	37a	Lower Cnest	Std 2 Stg LFL Mast	NL/RL	ft/min (m/sec)	71/91 (.36/.46)	71/91 (.36/.46)	
퓝	37b	Lower Speed	Opt 2 Stg FFL Mast	NL/RL	ft/min (m/sec)	55/83 (.28/.42)	55/83 (.28/.42)	
	37c 38a		Opt 3 Stg FFL Mast 5 Minute Rating	NL/RL NL/RL	ft/min (m/sec) %	61/89 (.31/.45) 21.5/13.7	61/89 (.31/.45) 21.0/13.0	
	38b	Gradeability	o minute nating	/ 1 11		£1.J/1J.1		
	-0.010	,	60 Minute Rating			4 6/3 0	4 5/2 9	
	39a	·	60 Minute Rating 5 Minute Rating	NL/RL NL/RL	%	4.6/3.0 4020/3895	4.5/2.9 4018/3892	
	39a 39b	Drawbar Pull	60 Minute Rating 5 Minute Rating 60 Minute Rating	NL/RL	%	4.6/3.0 4020/3895 1484/1448		
الحي		Drawbar Pull	5 Minute Rating	NL/RL NL/RL	% Ibf	4020/3895	4018/3892 1483/1445	
	39b 40a 40b	Drawbar Pull Brake	5 Minute Rating 60 Minute Rating	NL/RL NL/RL NL/RL	% Ibf	4020/3895 1484/1448	4018/3892 1483/1445 ring Applied	
	39b 40a 40b 41	Drawbar Pull Brake Battery	5 Minute Rating 60 Minute Rating Method of Control Method of Operation Type	NL/RL NL/RL NL/RL Service/Parking Service/Parking	% Ibf	4020/3895 1484/1448 Hydraulic/Sp Foot/Au Lead	4018/3892 1483/1445 vring Applied tomatic Acid	
10	39b 40a 40b 41 42	Drawbar Pull Brake Battery Traction Motors (Dual)	5 Minute Rating 60 Minute Rating Method of Control Method of Operation Type 60 Minute Rating	NL/RL NL/RL NL/RL Service/Parking	% Ibf Ibf	4020/3895 1484/1448 Hydraulic/Sp Foot/Au Lead 19.7	4018/3892 1483/1445 vring Applied tomatic Acid 14.7)	
CTRIC	39b 40a 40b 41 42 43	Drawbar Pull Brake Battery Traction Motors (Dual) Pump Motor	5 Minute Rating 60 Minute Rating Method of Control Method of Operation Type 60 Minute Rating 15 Minute rating	NL/RL NL/RL NL/RL Service/Parking Service/Parking	% Ibf	4020/3895 1484/1448 Hydraulic/Sp Foot/Au Lead 19.7 48.3	4018/3892 1483/1445 vring Applied tomatic Acid 14.7) (36)	
ELECTRIC	39b 40a 40b 41 42 43 44	Drawbar Pull Brake Battery Traction Motors (Dual) Pump Motor Traction Motors	5 Minute Rating 60 Minute Rating Method of Control Method of Operation Type 60 Minute Rating 15 Minute rating Type/Control Method	NL/RL NL/RL NL/RL Service/Parking Service/Parking	% Ibf Ibf	4020/3895 1484/1448 Hydraulic/Sp Foot/Au Lead 19.7 48.3 Dual AC/	4018/3892 1483/1445 vring Applied tomatic Acid 14.7) (36) Transistor	
ELECTRIC	39b 40a 40b 41 42 43 44 45	Drawbar Pull Brake Battery Traction Motors (Dual) Pump Motor Traction Motors Pump Motor	5 Minute Rating 60 Minute Rating Method of Control Method of Operation Type 60 Minute Rating 15 Minute rating Type/Control Method Type/Control Method	NL/RL NL/RL NL/RL Service/Parking Service/Parking	% Ibf Ibf	4020/3895 1484/1448 Hydraulic/Sp Foot/Au Lead 19.7 48.3 Dual AC/Tra	4018/3892 1483/1445 vring Applied tomatic Acid 14.7) (36) Transistor	
ELECTRIC	39b 40a 40b 41 42 43 44 45 46	Drawbar Pull Brake Battery Traction Motors (Dual) Pump Motor Traction Motors Pump Motor Number of Speeds	5 Minute Rating 60 Minute Rating Method of Control Method of Operation Type 60 Minute Rating 15 Minute rating Type/Control Method	NL/RL NL/RL NL/RL Service/Parking Service/Parking	% lbf lbf lbf hp (kW) hp (kW)	4020/3895 1484/1448 Hydraulic/Sp Foot/Au Lead 19.7 48.3 Dual AC/Tra Infinitely Variable,	4018/3892 1483/1445 ring Applied tomatic Acid 14.7) (36) Transistor nsistor	
ELECTRIC	39b 40a 40b 41 42 43 44 45 46 47	Drawbar Pull Brake Battery Traction Motors (Dual) Pump Motor Traction Motors Pump Motor Number of Speeds Step Height	5 Minute Rating 60 Minute Rating Method of Control Method of Operation Type 60 Minute Rating 15 Minute rating Type/Control Method Type/Control Method	NL/RL NL/RL NL/RL Service/Parking Service/Parking	% lbf lbf lbf hp (kW) hp (kW) in (mm)	4020/3895 1484/1448 Hydraulic/Sp Foot/Au Lead 19.7 48.3 Dual AC/Tra Infinitely Variable,	4018/3892 1483/1445 ring Applied tomatic Acid (14.7) (36) Transistor nsistor Infinitely Variable (490)	
	39b 40a 40b 41 42 43 44 45 46 47	Drawbar Pull Brake Battery Traction Motors (Dual) Pump Motor Traction Motors Pump Motor Number of Speeds	5 Minute Rating 60 Minute Rating Method of Control Method of Operation Type 60 Minute Rating 15 Minute rating Type/Control Method Type/Control Method	NL/RL NL/RL NL/RL Service/Parking Service/Parking	% lbf lbf lbf hp (kW) hp (kW) in (mm) in (mm)	4020/3895 1484/1448 Hydraulic/Sp Foot/Au Lead 19.7 48.3 Dual AC/Tra Infinitely Variable, 19.3 33.1	4018/3892 1483/1445 ring Applied tomatic Acid (14.7) (36) Transistor nsistor Infinitely Variable (490) (840)	
	39b 40a 40b 41 42 43 44 45 46 47	Drawbar Pull Brake Battery Traction Motors (Dual) Pump Motor Traction Motors Pump Motor Number of Speeds Step Height Floor Height	5 Minute Rating 60 Minute Rating Method of Control Method of Operation Type 60 Minute Rating 15 Minute rating Type/Control Method Type/Control Method	NL/RL NL/RL NL/RL Service/Parking Service/Parking	% lbf lbf lbf hp (kW) hp (kW) in (mm)	4020/3895 1484/1448 Hydraulic/Sp Foot/Au Lead 19.7 48.3 Dual AC/Tra Infinitely Variable,	4018/3892 1483/1445 rring Applied tomatic Acid (14.7) (36) Transistor Infinitely Variable (490) (840) (155)	
OTHER ELECTRIC	39b 40a 40b 41 42 43 44 45 46 47 48 49	Drawbar Pull Brake Battery Traction Motors (Dual) Pump Motor Traction Motors Pump Motor Number of Speeds Step Height Floor Height Attachment Relief Pressure	5 Minute Rating 60 Minute Rating Method of Control Method of Operation Type 60 Minute Rating 15 Minute rating Type/Control Method Type/Control Method Traction/Pump	NL/RL NL/RL NL/RL Service/Parking Service/Parking	hp (kW) hp (kW) in (mm) in (mm) psi (bar)	4020/3895 1484/1448 Hydraulic/Sp Foot/Au Lead 19.7 48.3 Dual AC/Ta Infinitely Variable, 19.3 33.1	4018/3892 1483/1445 vring Applied tomatic Acid (14.7) (36) Transistor Infinitely Variable (490) (840) (155)	

	ERP080-090VM MAST DIMENSIONS										
Maximum Fork Height (TOF)			Overall Extended Overall Extended Height with Height without Load Backrest Load Backrest		Free Lift (TOF) without Load Backrest						
in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)						
	2-STA	GE LIMITED FREE	LIFT (LFL) Hi-Vis™	MAST							
131 (3350)	92 (2320)	181 (4591)	162 (4109)	5 (150)	5 (150)						
143 (3650)	98 (2470)	193 (4891)	174 (4409)	5 (150)	5 (150)						
167 (4250)	110 (2770)	217 (5491)	198 (5009)	5 (150)	5 (150)						
	2-\$1	AGE FULL FREE LI	FT (FFL) Hi-Vis™ M	AST							
132 (3375)	92 (2320)	182 (4622)	165 (4187)	42 (1079)	59 (1514)						
144 (3675)	98 (2470)	194 (4922)	177 (4487)	48 (1229)	65 (1664)						
	3-S1	AGE FULL FREE LI	FT (FFL) Hi-Vis™ M	IAST							
185 (4715)	90 (2270)	235 (5962)	218 (5527)	40 (1029)	57 (1464)						
194 (4950)	94 (2370)	244 (6197)	227 (5762)	44 (1129)	61 (1564)						
206 (5250)	98 (2470)	256 (6497)	239 (6062)	48 (1229)	65 (1664)						
218 (5550)	102 (2570)	268 (6797)	251 (6362)	52 (1329)	69 (1764)						
236 (6000)	110 (2770)	286 (7247)	269 (6812)	60 (1529)	77 (1964)						

	ERP100-120VM MAST DIMENSIONS										
Maximum Fork Height (TOF)	Overall Lowered Height	Overall Extended Height with Load Backrest	Overall Extended Height without Load Backrest	Free Lift (TOF) with Load Backrest	Free Lift (TOF) without Load Backrest						
in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)						
	2-STA	GE LIMITED FREE	LIFT (LFL) Hi-Vis™	MAST							
121 (3090)	92 (2320)	172 (4364)	159 (4030)	5 (150)	5 (150)						
133 (3390)	98 (2470)	184 (4664)	171 (4330)	5 (150)	5 (150)						
157 (3990)	110 (2770)	208 (5264) 195 (4930)		5 (150)	5 (150)						
	2-S1	AGE FULL FREE LI	FT (FFL) Hi-Vis™ M	AST							
122 (3115)	92 (2320)	173 (4389)	162 (4107)	41 (1052)	52 (1334)						
134 (3415)	98 (2470)	185 (4689)	174 (4407)	47 (1202)	58 (1484)						
	3-S1	TAGE FULL FREE LI	FT (FFL) Hi-Vis™ M	AST							
174 (4437)	90 (2270)	225 (5711)	214 (5429)	39 (996)	50 (1278)						
184 (4690)	94 (2370)	235 (5964)	224 (5682)	43 (1096)	54 (1378)						
196 (4990)	98 (2470)	247 (6264)	236 (5982)	47 (1196)	58 (1478)						
208 (5290)	102 (2570)	259 (6564)	248 (6282)	51 (1296)	62 (1578)						

	TREAD (DRIVE AND STEER TIRES)												
Tiro Tupo	Drive Tire / Steer Tire	ERP080VM	ERP090VM	ERP100VM	ERP100VML	ERP110VM	ERP120VM						
Tire Type	Drive file / Steel file			in (ı	mm)								
Pneumatic Tire	250 x 15 20 Ply / 7.00 x 12 16 Ply	44.2 / 45.0 (1123 / 1143)	N/A		N/A							
PSS Tires	250 x 15-7.5 / 7.00 x 12 / 5.0	44.2 / 45.0 (1123 / 1143) N/A			N/A								
Pneumatic Tire	28 x 12.5-15 24 Ply / 7.00 x 12 16 Ply	4	5.9 / 45.0 (1167 / 114	3)	N/A								
PSS Tires	355 / 50-15 / 7.00 x 12 / 5.0	4	5.9 / 45.0 (1167 / 114	3)	N/A								
Pneumatic Tire (Dual Drive)	7.00 x 15 14 Ply / 7.00 x 12 16 Ply	6	0.1 / 45.0 (1526 / 114	3)	N/A								
PSS Tires (Dual Drive)	7.00 x 15-5.5 / 7.00 x 12 / 5.0	60.1 / 45.0 (1526 / 1143)			N/A								
PSS Tires	355 / 50-15 / 28 x 9-15		N/A			45.9 / 45.0 (1167 / 1143)							
PSS Tires (Dual Drive)	700 x 15 / 5.5 / 28 x 9-15		N/A		60.1 / 45.0 (1526 / 1143)								

OVERALL WIDTH (DRIVE TIRES)											
Tiro Tuno	Drive Tire	ERP080VM	ERP080VM ERP090VM ERP100VM ERP100VML		ERP100VML	ERP100VML ERP110VM					
Tire Type	Dilve file			in (ı	nm)						
Pneumatic Tires	250 x 15 20 Ply	54.1 (1373)	N/A	N/A						
PSS Tires	250 x 15-7.5	54.7 (1388)	N/A	N/A						
Pneumatic Tires	28 x 12.5-15 24 Ply		58.0 (1472)			N/A					
PSS Tires	355/50-15		57.1 (1451)		57.1 (1451)						
Pneumatic Tires (Dual Drive)	7.00 x 15 14 Ply	67.9 (1724)			N/A						
PSS Tires (Dual Drive)	7.00 x 15-5.5		68.5 (1739)			68.5 (1739)					

GROUND CLEARANCE (LOWEST POINT)										
	ERP080VM	ERP090VM	ERP100VM	ERP100VML	ERP110VM	ERP120VM				
			NL / RL	in (mm)						
250 x 15 20 Ply	5.7/4.9 (144/125)	N/A	N/A						
250 x 15-7.5	5.6/5.1 (141/130)	N/A		N/A					
28 x 12.5-15 24 Ply		5.8/5.0 (148/128)			N/A					
355/50-15		5.6/5.3 (143/135)			5.6/5.3 (143/135)					
7.00 x 15 14 Ply (Dual Drive)		6.1/5.3 (156/135)		N/A						
7.00 x 15-5.5 (Dual Drive)		5.7/5.3 (145/135)			5.7/5.3 (145/135)					

BATTERY AND COMPARTMENT SPECIFICATIONS											
Battery Compartment Dimensions						Batter	y Dimen	sions and	I Specifications		
	Width	Longth	Height	"X"	"V"	"Z"			Max Capacity 6	Wei	ght
Truck Model	wiutii	Length	пеідііі	Volte	No. of cells	Hr Rate	Min	Max			
		in (mm)			in (mm)			000	amp Hr (kWh)	lbs	(kg)
ERP080-120VM 40" Compartment	40.8 (1037)	39.6 (1006)	31.8 (808)	40.6 (1030)	39.4 (1000)	31.4 (798)	80	40	840 (65.2)	4600 (2080)	5400 (2440)
ERP080/090VM 34" Compartment	40.8 (1037)	33.8 (859)	31.8 (808)	40.6 (1030)	33.1 (840)	31.4 (798)	80	40	700 (54.3)	4400 (1991)	5100 (2319)

Battery Type: "EO" (Without Cover)

Max allowable battery capacity per UL is 1000 amp hr (77.6 kwh)

Commercially available lead acid batteries may not necessarily reach these max limits

34" Compartment achieved by use of a Front Compartment Spacer - Reduces Compartment Length from 39.6" to 33.8"

Allows use of 31.5" - 33" (800 - 840 mm) battery in the 40" (1006 mm) Battery Compartment

Battery Compartment Length is measured front to rear. Battery Compartment Width is measured across the truck.

Battery Notes - Conventional Charging

Battery Notes - Conventional Charging
Battery Connector: 80 volt - Black SBE®320
Anderson Power Products® P/N E6363G2 (3/0 AWG), E6363G3 (4/0 AWG) or equivalent
Battery Lead: Length 20" (508 mm), Position "A", Minimum Cable Size 3/0 AWG
Handle (not required): SB®350 and SBE®320 (Anderson Power Products®): "A" TYPE (Grey) P/N 995G2 or equivalent)

Battery Notes - Premium, Fully Integrated "Quick Connect" Rapid / Fast Charging

NOTE: A Site Survey is required to confirm your application is a candidate for Rapid Charge and to determine the battery and charger specifications required. Contact your battery and charger supplier. Battery Connector: Requires Positive / Negative Cabling terminating in (1) Female EBC-320 DIN Connector
Anderson Power Products® P/N E32595-00X9 (3/0 AWG), A32504-00X9 (4/0 AWG) or equivalent. (X = Auxiliary Contacts)
DIN connector to include 1 Red Conductor to (+) and 1 black conductor to (-)
Battery Lead: Length 20" (508 mm), Position "A", Minimum Cable Size 3/0 AWG

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 an onboard, customizable operator checklist are also available.

Foot Directional Control Pedal

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 fatigue and resulting in increased productivity. Yale offers the foot direction control pedal as a no charge option.

Hydraulic Components

The hydraulic pump motor is powered by a transistor controller. A wet spline coupling joins a brushless, AC induction motor to the pump for long life and low noise. 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. A 10-micron full flow hydraulic filter located in the return line protects the hydraulic system from contaminants and helps provide long life. A bypass 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 (CSSTM) 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® 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 and easy mast service. 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 III six-roller carriages are standard for the ERP-VM 8.000 and 9.000 lb. trucks. Class IV six-roller carriages are standard for the ERP-VM 10,000, 11,000 and 12,000 lb. trucks. Forks are "upset forged" from a single piece of highstrength steel to 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 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-VM series include an overhead guard, seatside directional control, operator presence system, 48" forks, nonsuspension seat and seat belt. An infinitely adjustable tilt steering column, rubber floor mat, and electronic horn are standard.

Options

Accutouch mini-levers
Foot directional control pedal
Return to set tilt
Telescoping steering column with tilt
memory

Full-suspension seat (vinyl or cloth)
Full-suspension swivel seat (vinyl or cloth)

Keyless start switch
Rear drive handle with horn button

Load weight indicator

Impact monitor

Key switch controlled lights

LED and halogen work light packages

LED dome / reading light

LED brake / tail / back-up light packages

6° forward / 8° back tilt

 6° forward / 4° back tilt

Integral sideshifter

Full steel cab

Front, top and rear cab panels
Audible alarm – reverse operation
(manually adjustable to 87, 97 or 102 dB)

Visible alarm – amber led strobe with continuous operation

Dual drive tires

Type "EE" UL construction

Dual rear view mirrors

Panoramic rear view mirror

Fire extinguisher

Accumulator

Cooler / freezer package: Operating temperatures: -20° F to + 120° F

Synchronous steering

Red, high-visibility, non-cinch seat belt with or without start interlock

Low mount display

Outdoor protection / wash-down package

Front mud guards

Tilt cylinder boots

Premium, fully integrated "quick connect" rapid charge system



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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.