

ERP series

5,000lb / 6,000lb

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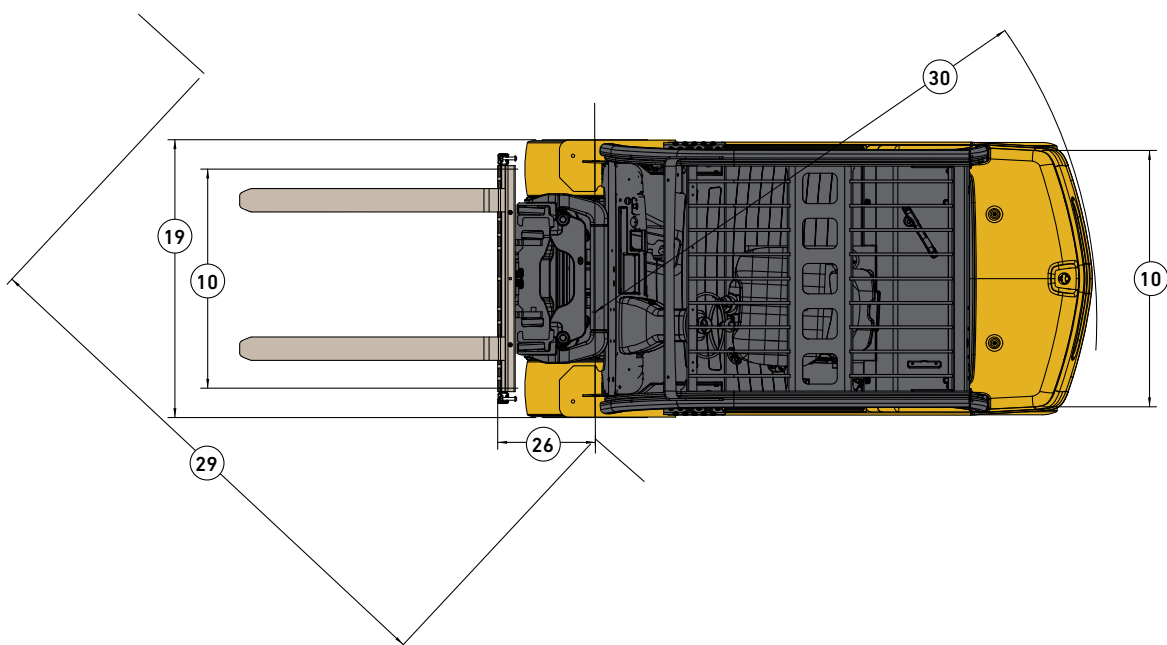
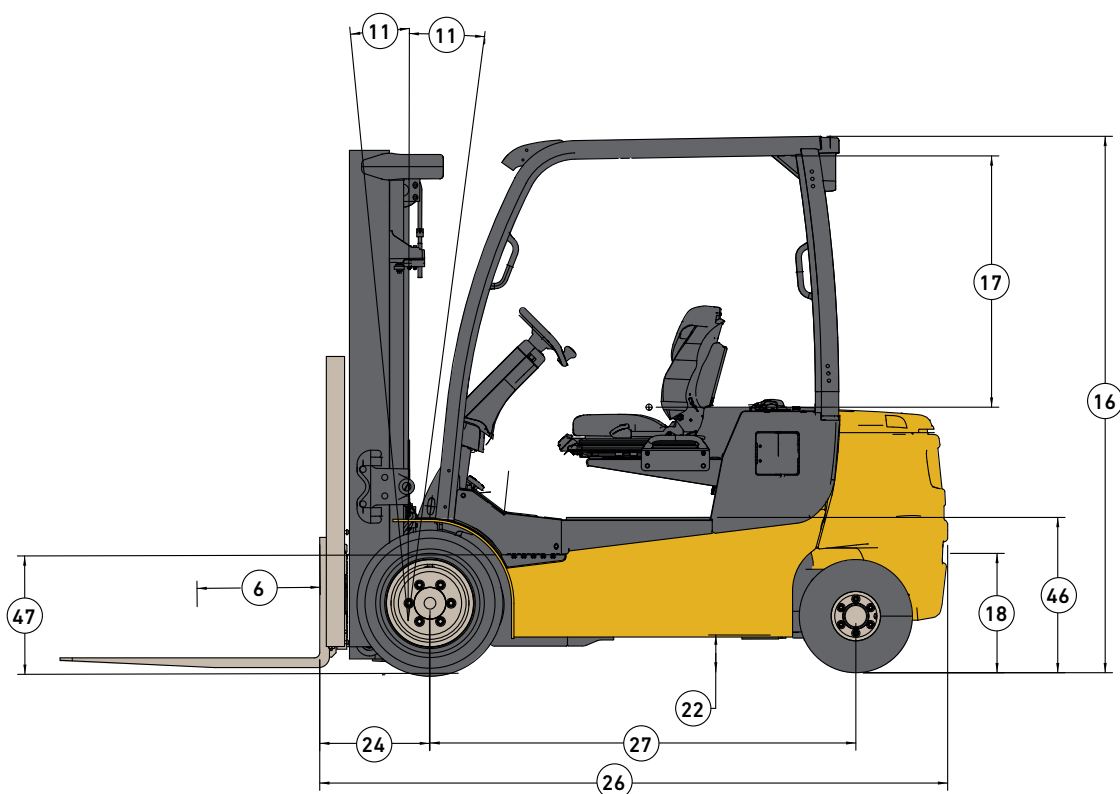
4 Wheel Electric Forklift



SPEC SHEET

Models: ERP050VLL, ERP060VLL

TRUCK DIMENSIONS ERP050-060VLL



Circled truck dimensions correspond to the line numbers in the General Specifications chart. Dimensions are listed in inches (millimeters).

GENERAL SPECIFICATIONS ERP050-060VLL

GENERAL	1	Manufacturer			Yale	
	2	Model designation			ERP050VLL	
	3	Power/voltage			Electric / 80 volts	
	4	Operation			Sit	
	5	Rated capacity		lb (kg)	5000 (2268)	
	6	Load center		in (mm)	24 (610)	
TIRES	7	Tire type (std/opt)			Pneumatic / Pneumatic shaped solid	
	8	Tire size (drive/steer)		in	23x10-12 / 18x7-8	
	9	Wheels-number X=driven (drive/steer)		front/rear	2X/2	
	10	Tread	Center of tires	Std dr/ wide dr/Steer	in (mm)	36.9 / 41.5 / 39.1 (938 / 1054 / 992)
DIMENSIONS	11	Mast tilt	Std / opt / opt	degrees	5F / 5B 10F / 5B 5F / 6B	
	12	Mast-lowered height	Std mast	in (mm)	87 (2192)	
	13	Free lift - top of fork	Std 2 std limited free lift mast	in (mm)	5 (140)	
			Op 2 stg full free lift mast with/without LBR	in (mm)	37 / 64 (962 / 1628)	
	14	Lift height-top of fork	Std 2 stg limited free lift mast	in (mm)	133 (3392)	
	15	Mast-extnd. height	Std mast with/without LBR	in (mm)	182 / 156 (4622 / 3956)	
	16	Overhead grd. height		in (mm)	86.3 (2193)	
	17	SIP to bottom OHG	Seat depressed	Std/Susp/ Air ride	in (mm)	36.9 / 41.5 / 39.1 (938 / 1054 / 992)
	18	Tow pin height	Vertical center of pin	in (mm)	10.3 (262)	
	19	Overall width	Pneumatic tires	Std/wide tread	in (mm)	46.9 / 51.5 (1192 / 1308)
			PSS tires	Std/wide tread	in (mm)	46.2 / 50.7 (1173 / 1289)
	20	Forks	Thickness x width x length	in (mm)	1.6 x 3.9 x 42 (40 x 100 x 1067)	
	21	Std. carriage width		in (mm)	42 (1067)	
	22	Ground clearance	Lowest point (NL/RL)	in (mm)	3.9 / 3.3 (98 / 83)	
	23	Ground clearance	Center of truck (NL/RL)	in (mm)	5.4 / 5.3 (137 / 134)	
	24	Load distance	Center of wheel to face of forks	in (mm)	15.9 (404)	
	25	Battery compartment	Height	in (mm)	12.6 (320)	
			Width	in (mm)	29.1 (738)	
			Length	Nominal	Size	34
			Length	Actual	in (mm)	39.4 (1000)
	26	Length to face /forks		in (mm)	100.5 (2555)	
	27	Wheelbase		in (mm)	68.9 (1750)	
	28	Right angle stack		in (mm)	146.7 (3727)	
	29	Equal aisle	90° Intersecting aisle	in (mm)	80.5 (2045)	
	30	Outside turning radius		in (mm)	81.6 (2073)	
WT.	31	Truck weight	Without battery - no load	lb (kg)	8680 (3945)	
	32	Axle loading-drive	Static with max weight battery (NL)	lb (kg)	4855 (2205) / 13270 (6020)	
	33	Axle loading-steer	Static with max weight battery (NL)	lb (kg)	4680 (2125) / 1765 (800)	
PERFORMANCE					Std. Performance	Premium Performance
	34	Travel speed	NL / RL	mph (kph)	11.2 / 11.2 (18 / 18)	13 / 13 (21 / 21)
	35	Lift speed	Std 2 stg LFL mast (NL/RL)	ft/min (m/sec)	124 / 75 (0.63 / 0.38)	142 / 96 (0.72 / 0.49)
			Opt 2 stg FFL mast (NL/RL)	ft/min (m/sec)	124 / 75 (0.63 / 0.39)	130 / 93 (0.66 / 0.47)
			Opt 3 stg FFL mast (NL/RL)	ft/min (m/sec)	124 / 75 (0.63 / 0.39)	134 / 94 (0.68 / 0.48)
	36	Lower speed	Std 2 stg LFL mast (NL/RL)	ft/min (m/sec)	100 / 112 (0.51 / 0.57)	
			Opt 2 stg FFL mast (NL/RL)	ft/min (m/sec)	91 / 106 (0.46 / 0.54)	
			Opt 3 stg FFL mast (NL/RL)	ft/min (m/sec)	93 / 108 (0.47 / 0.55)	
	37	Gradability	5 Minute rating (NL/RL)	%	35 / 24	38 / 26
			60 Minute rating (NL/RL)	%	12 / 8	13 / 9
	38	Drawbar pull	5 Minute rating (NL/RL)	lbf	4248 / 4148	4588 / 4480
			60 Minute rating (NL/RL)	lbf	1287 / 1257	1390 / 1357
ELECTRIC	39	Brake	Method of control (service/parking)		Hydraulic / Mechanical	
			Method of operation (service/parking)		Foot / Automatic	
	40	Battery compartment	Type		Lithium-ion	
	41	Traction motors /dual	60 Minute rating (each)	hp (kW)	13.4 (10)	13.4 (10)
	42	Pump motor	15 Minute rating	hp (kW)	21.5 (16)	32.2 (24)
	43	Traction motors	Type/control method		Dual AC / Transistor	
OTHER	44	Pump motor	Type/control method		AC / Transistor	
	45	Number of speeds	Traction/pump		Infinitely Variable / Infinitely Variable	
	46	Step height		in (mm)	18.7 (475)	
	47	Floor height		in (mm)	24.4 (620)	
	48	Attachement relief pressure		psi (bar)	2250 (155)	
	49	Auxiliary oil flow	3rd and 4th Function	gal/min (l/min)	11 (40)	
	50	Sound level	Measure per ANSI B56.11.5	dB	63	65

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

NL = no load, RL = rated load

MAST DIMENSIONS ERP050VLL

Maximum Fork Height (TOF)	Overall Lowered Height	Overall Extended Highest		Free Lift (TOF)		Approx. Total Wt. of Std. Equipped Truck
		w/ Load Backrest	w/o Load Backrest	w/ Load Backrest	w/o Load Backrest	
in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	lbs (kg)
2-STAGE LIMITED FREE LIFT (LFL) HI-VIS™₂ MAST						
133 (3392)	87 (2192)	182 (4622)	156 (3956)	5 (140)	5 (140)	9540 (4330)
141 (3592)	91 (2292)	190 (4822)	164 (4156)	5 (140)	5 (140)	9580 (4350)
2-STAGE FULL FREE LIFT (LFL) HI-VIS™ MAST						
133 (3392)	87 (2192)	183 (4632)	157 (3966)	37 (962)	64 (1628)	9580 (4350)
141 (3602)	91 (2292)	191 (4832)	164 (4156)	41 (1062)	68 (1728)	9620 (4365)
3-STAGE FULL FREE LIFT (LFL) HI-VIS™ MAST						
183 (4650)	81 (2042)	232 (5880)	205 (5196)	32 (812)	58 (1496)	9770 (4435)
189 (4800)	83 (2092)	238 (6030)	211 (5346)	33 (862)	60 (1546)	9790 (4445)
194 (4950)	85 (2142)	244 (6180)	217 (5496)	35 (912)	62 (1596)	9810 (4455)
200 (5100)	89 (2242)	250 (6330)	223 (5646)	39 (1012)	66 (1696)	9850 (4470)
206 (5250)	91 (2292)	256 (6480)	229 (5796)	41 (1062)	68 (1746)	9890 (4490)
212 (5400)	93 (2342)	261 (6630)	235 (5946)	43 (1112)	70 (1796)	9920 (4505)

MAST DIMENSIONS ERP060VLL

Maximum Fork Height (TOF)	Overall Lowered Height	Overall Extended Highest		Free Lift (TOF)		Approx. Total Wt. of Std. Equipped Truck
		w/ Load Backrest	w/o Load Backrest	w/ Load Backrest	w/o Load Backrest	
in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	lbs (kg)
2-STAGE LIMITED FREE LIFT (LFL) HI-VIS™₂ MAST						
126 (3209)	87 (2192)	175 (4444)	152 (3861)	5 (150)	5 (150)	10400 (4720)
134 (3409)	91 (2292)	183 (4644)	160 (4061)	5 (150)	5 (150)	10430 (4730)
2-STAGE FULL FREE LIFT (LFL) HI-VIS™ MAST						
126 (3210)	87 (2192)	175 (4445)	152 (3862)	37 (957)	60 (1540)	10430 (4730)
134 (3410)	91 (2292)	183 (4645)	160 (4062)	41 (1057)	64 (1640)	10470 (4750)
3-STAGE FULL FREE LIFT (LFL) HI-VIS™ MAST						
181 (4618)	85 (2142)	231 (5853)	207 (5252)	35 (907)	59 (1508)	10760 (4885)
187 (4768)	89 (2242)	237 (6003)	213 (5402)	39 (1007)	63 (1608)	10810 (4905)
193 (4918)	91 (2292)	243 (6153)	219 (5552)	41 (1057)	65 (1658)	10830 (4920)
205 (5218)	95 (2392)	255 (6453)	231 (5852)	45 (1157)	69 (1758)	10890 (4945)
217 (5518)	101 (2542)	266 (6753)	243 (6152)	51 (1307)	75 (1908)	11070 (5052)

BATTERY CHARGE TIME - ERP050-060VLL

		Battery Size		
		33.6kWh	25.2kWh	16.8kWh
Charge Size	30kW	1h 15m	1h*	1h*
	20kW	1h 45m	1h 15m	1h*
	15kW	2h 15m	1h 45m	1h 15m
	10kW	3h 30m	2h 45m	1h 45m
	5kW	6h 45m	5h 15m	3h 30m

BATTERY RUN TIME - ERP050VLL

		Battery Size		
		33.6kWh	25.2kWh	16.8kWh
Application	Heavy	6h 30m	4h 45m	3h 15m
	Medium	9h 15m	7h	4h 30m
	Light	12h 30m	9h 15m	6h 15m

The below tables are a helpful guide to visualize the truck run time with different batteries in different applications. Charts are a guide only and not a replacement for a site survey and full power survey.

Heavy - high throughput, typically runs near full capacity, runs either attachments or has high lifts
Medium - high throughput, runs near capacity without attachments or high lifts

Light - lower throughput, runs less than rated capacity without attachments or high lifts

*Note: Run time is from 100% to Lift-Lock Out. Charge time is from Lift-Lock Out to 100%. Charge times with * are limited to 1C charging (i.e. cannot charge faster than 1 hour).*

BATTERY RUN TIME - ERP060VLL

		Battery Size		
		33.6kWh	25.2kWh	16.8kWh
Application	Heavy	5h 15m	4h	2h 30m
	Medium	7h 30m	5h 30m	3h 45m
	Light	10h	7h 30m	5h

FEATURES LIST

PERFORMANCE	STD	OPT
80V electrical system	•	
33.6kWh (80V @ 420Ah) battery	•	
25.2kWh (80V @ 315Ah) battery		•
16.8kWh (80V @ 210Ah) battery		•
Standard performance	•	
Dual drive motors	•	
Oil-cooled wet disc brakes	•	
AC traction and pump motors (completely brushless)	•	
Transistor drive and pump control	•	
Advanced VSM (vehicle system manager)	•	
Progressive thermal management system	•	
"Zero turn" steer axle	•	
Premium Performance Package		•
DRIVE	STD	OPT
Pneumatic drive tire and steer tire	•	
Solid pneumatic tires		•
Wide tread tires		•
LIFT	STD	OPT
2-stage limited free lift (LFL) Hi-Vis™2 mast with maximum fork height of 126" (3209mm)	•	
Mast tilt option – 5° forward / 5° back	•	
2-stage full free lift (FFL) Hi-Vis™ mast		•
3-stage full free lift (FFL) Hi-Vis™2 mast		•
4-stage full free lift (FFL) Hi-Vis™ mast		•
Mast tilt option – 10° forward / 5° back		•
Mast tilt option – 5° forward / 4° back		•
HANDLING	STD	OPT
42" (1067mm) wide class III hook-type carriage with 48" (1219mm) high load backrest extension	•	
42" (1067mm) long forks	•	
Return to set tilt		•
Accumulator		•
Load weight indicator		•
Hydraulic attachment extension tubes with or without quick		•
Disconnect fittings		•
Carriage with integral sideshift		•
Carriage with integral sideshifting fork positioner		•
ERGONOMICS	STD	OPT
12" steering wheel with integral spinner knob	•	
Non-suspension vinyl seat	•	
Automatic park brake	•	
Foot Directional Control Pedal	•	
Accutouch mini levers with fully adjustable armrest	•	
On-demand power steering	•	
Power assist braking	•	
ADS (auto deceleration system) with regenerative braking	•	
Multifunction display	•	
Easy ingress / egress with low step height, floor and contoured handhold	•	
Operator convenience station	•	
Adjustable tilt steering column with low profile cowl for excellent visibility	•	
Anti-cinch operator restraint system	•	
Cushioned floor mat	•	

ERGONOMICS continued		
Seatside power disconnect button	•	
Non-suspension seat (cloth)		•
Full suspension seat (vinyl or cloth)		•
Air-ride suspension seat (vinyl or cloth)		•
Swivel seat, full suspension (vinyl or cloth)		•
Seat side directional control		•
Telescopic steering column with tilt memory		•
LED and halogen work light packages		•
LED dome / reading light		•
LED brake / tail / back-up light packages		•
Rear drive handle with integrated horn button		•
Side view mirrors		•
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		•
OPERATION	STD	OPT
Standard construction	•	
Black ELR non-cinch seat belt	•	
Key switch start	•	
86.3" grid style overhead guard	•	
3-function hydraulic control valve	•	
Fully integrated CANbus communication	•	
Operator presence system (OPS)	•	
Static strap	•	
Tow pin	•	
On-board software: program, test & diagnose; password protected	•	
Electronic horn with integral relay (long life / no adjustments)	•	
4 Function hydraulic control valve		•
Front and top cab panels: includes front panel with wiper / washer and top panel		•
Keyless start (with auxiliary key switch)		•
Audible reverse activated alarm		•
Visible amber strobe light - continuous activated, overhead guard mounted		•
Impact monitor		•
Operator password		•
Operator daily checklist		•
System monitor – hydraulic low fluid level indicator and hydraulic		•
Filter service indicator		•
Fire extinguisher – 2.5 Lb. Dry chemical		•
IP54 sealed drive axle/motors with belly pan and side shields		•
Outdoor protection / wash-down package		•
Front mud guards		•
Tilt cylinder boots		•
SUPPLEMENTAL	STD	OPT
12 month / 2,000 hour full truck warranty	•	
36 month / 6,000 hour powertrain warranty	•	
84 month / 12,000 hour lithium-ion battery warranty	•	
Operating manual	•	

About Yale®



Yale Materials Handling Corporation is one of the oldest manufacturers of lift trucks in the world. We've been in the business of lifting since 1875 and we apply that experience to help customers solve materials handling challenges. Our full line of lift trucks range in capacity from 2,000 to 36,000 pounds and are powered by internal combustion engines or electric options. Yale also offers robotic solutions, telemetry, fleet management, parts, financing and training. From traditional lift truck equipment to emerging technologies, our goal, every day, is to work with our nationwide dealer network to continually improve and provide the solutions you need, when and how you need them.

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CERTIFICATION: Yale lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.1 revision in effect at time of manufacture. Classified by Underwriters' Laboratories, Inc.