

ERC series

5,000lb / 6,000lb

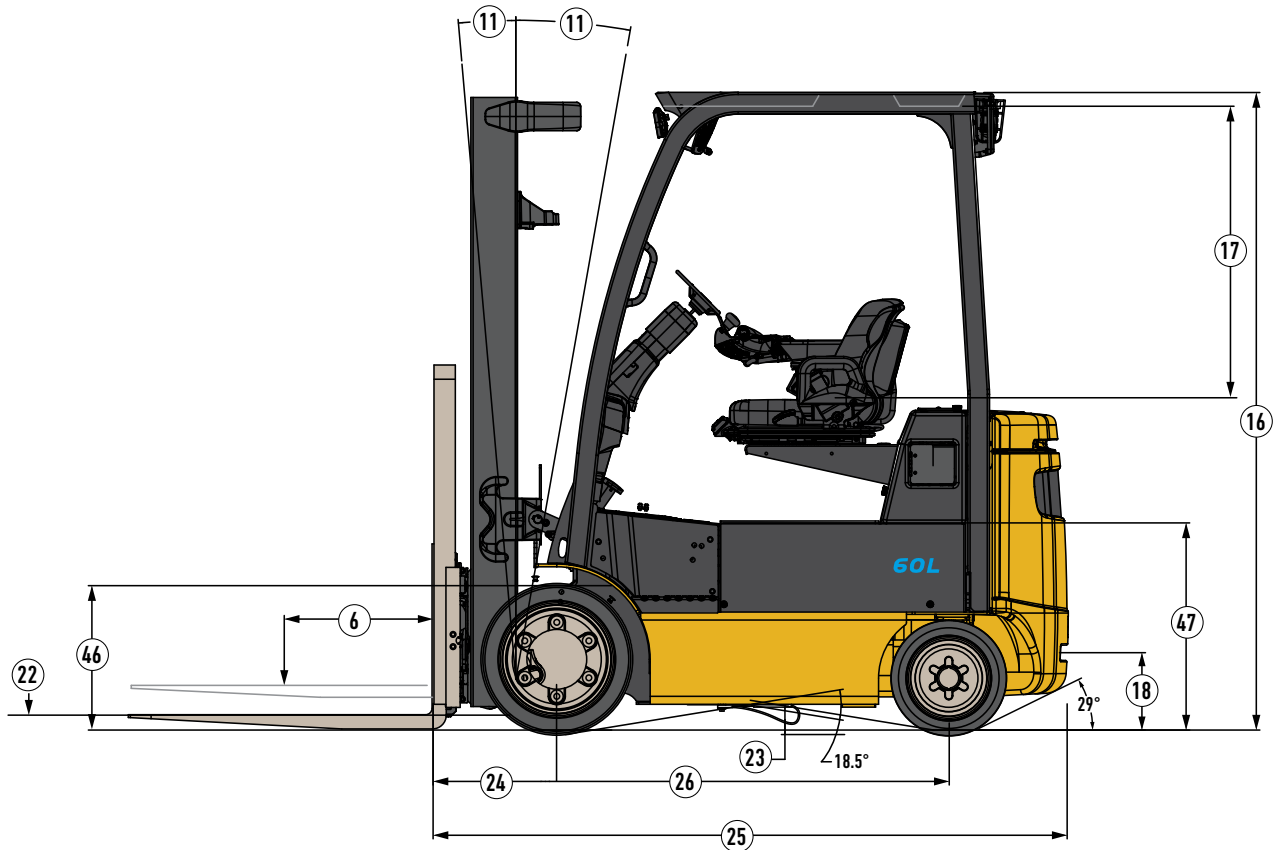
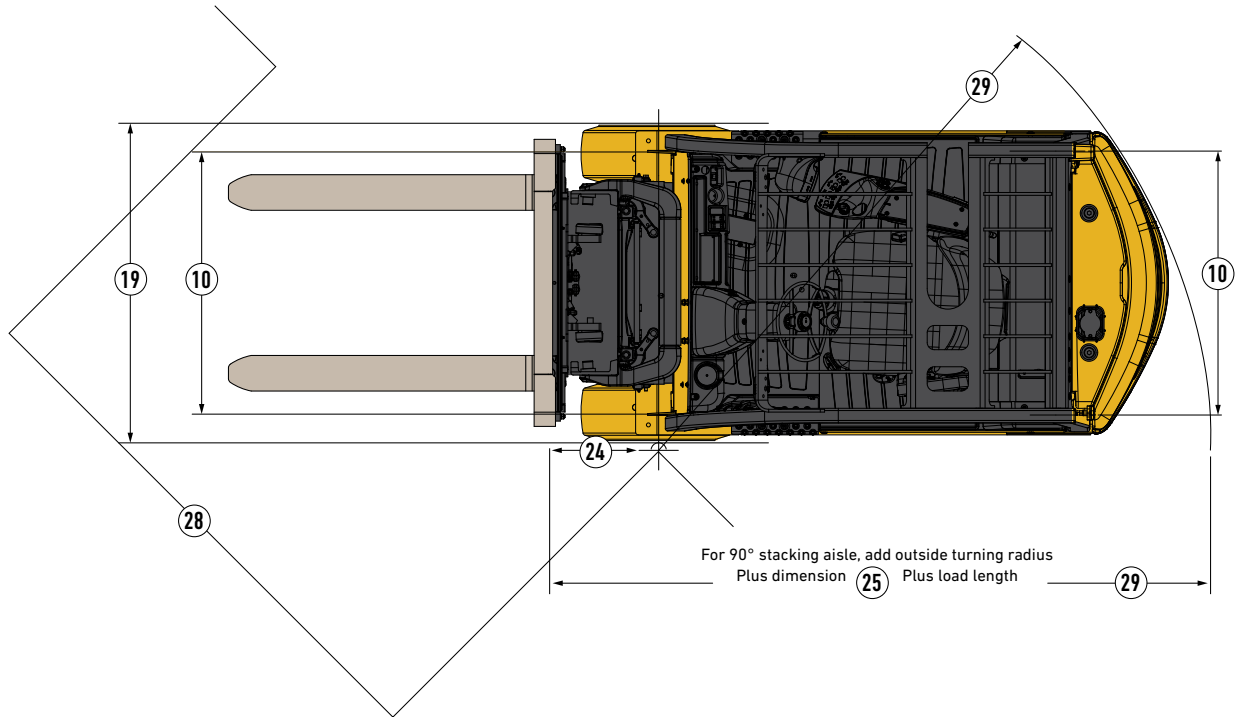
4 Wheel Electric Forklift



SPEC SHEET

Models: ERC050VGL, ERC060VGL

TRUCK DIMENSIONS ERC050-060VGL



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

GENERAL SPECIFICATIONS ERC050-060VGL

GENERAL	1	Manufacturer			Yale		
	2	Model designation			ERC050VGL	ERC060VGL	
	3	Power type			Electric		
	4	Operator type			Sit		
	5	Rated capacity			5000 (2268)	6000 (2722)	
	6	Load center			24 (610)		
TIRES	7	Tire type - cushion, solid, pneumatic etc.		Drive/steer	Cushion/ Cushion		
	8	Tire size		Drive/steer	21x7x15 / 16x5x10.5	21x7x15 / 16x5x10.5	
	9	Wheels - numbers	X=Driven	Drive/steer	2X / 2		
	10	Tread	Tires	Std Dr/Wide Dr/Steer	35.1/41.9/37 (892/1064/940)	35.6/40.9/36 (905/1039/915)	
DIMENSIONS	11	Mast tilt		Std Opt Opt	5F5B 10F/5B (5F/4B)		
	12	Mast - lowered height		Std mast	83 (2085)		
	13	Free lift - top of fork	Std 2 stg limited free lift mast		5(140)		
		Opt 2 stg full free mast with/without LBR			33/60 (860/1525)	33/56 (855/1440)	
	14	Lift height-top of fork	Std 2 stg limited free lift mast		125 (3192)	118 (3009)	
	15	Mast - extended height/wheel to fork tips	Std mast with/without LBR		174/148 (4415/3740)	167/144 (4235/3655)	
	16	Overhead guard height	Std/drive in rack/opt/opt flat plate		91.5/91.5/89.5/87.4 (2324/2324/2273/2213)		
	17	SIP to bottom std OHG	R5usp at mid-point	Std/susp/swivel	35.3/34.4/34.3 (899/874/872)		
	18	Tow pin height	Vertical center of pin		11 (280)		
	19	Overall width	Standard tread/wide tread		42.1/48.9 (1070/1242)	43.6/48.9 (1108/1242)	
	20	Forks	Thickness x width x length		1.6 x 3.9 x 42 (40 x 100 x 1067)	2 x 4.9 x 42 (50 x 125 x 1067)	
	21	Standard carriage width		Class II	38.5 (977)		
	22	Ground clearance	Lowest point	NL/RL	3.6/3.3 (91/85)		
	23	Ground clearance	Center of truck	NL/RL	3.9/3.6 (98/92)	3.7/3.6 (94/92)	
	24	Load distance	Center of wheel to face of forks		15.4 (390)	15.8 (402)	
	25	Length to face of forks	Chassis length		84.3 (2143)	86.5 (2199)	
	26	Wheelbase			54.2 (1377)		
	27	Right angle stack			137.5 (3493)	139.2 (3536)	
	28	Equal aisle	90° Intersecting aisle		73.1 (1858)	74.2 (1885)	
29	Outside turning radius			74.2 (1884)	75.4 (1915)		
WT.	30	Truck weight	NL	lb (kg)	9180 (4170)	10240 (4650)	
	31	Axle loading - drive	Static w/max. wt. battery	NL/RL	4090 (1860) / 12730 (1460)	4180 (1900) / 14590 (6620)	
	32	Axle loading - steer	Static w/max. wt. battery	NL/RL	5100 (2315) / 5780 (665)	6070 (2755) / 6620 (755)	
	33	Travel speed	Extended shift OFF	NL/RL	12.3/12.5 (19.8/20.1)		
			Extended shift ON	NL/RL	12.2/12.2 (19.7/19.7)	12.2/12.1 (19.7/19.4)	
	34	Lift speed	Std 2 stg FFL mast	NL/RL	ft/min (m/sec)	142/96 (0.72/0.49)	124/83 (0.63/0.42)
			Opt 2 stg FFL mast	NL/RL	ft/min (m/sec)	130/93 (0.66/0.47)	116/81 (0.59/0.41)
			Opt 3 stg FFL mast	NL/RL	ft/min (m/sec)	134/94 (0.68/0.48)	118/81 (0.6/0.41)
			Opt 4 stg FFL mast	NL/RL	ft/min (m/sec)	136/94 (0.69/0.48)	
	35	Lower speed	Std 2 stg FFL mast	NL/RL	ft/min (m/sec)	100/112 (0.51/0.57)	91/110 (0.46/0.56)
			Opt 2 stg FFL mast	NL/RL	ft/min (m/sec)	91/106 (0.46/0.54)	73/102 (0.37/0.52)
			Opt 3 stg FFL mast	NL/RL	ft/min (m/sec)	93/108 (0.47/0.55)	79/104 (0.4/0.53)
			Opt 4 stg FFL mast	NL/RL	ft/min (m/sec)	77/91 (0.39/0.46)	
36	Gradeability	5 minute rating	NL/RL	%	39/33	36/28	
		60 minute rating	NL/RL	%	32/19	29/16	
37	Drawbar pull	5 minute rating	NL/RL	ibf	3773/4926	3883/4830	
		60 minute rating	NL/RL	ibf	3208/2993	3181/2912	
38	Brake	Method of control	Service/parking		Hydraulic / mechanical		
		Method of operation	Service/parking		Foot / foot		
ELECTRIC	39	Battery	Type		Lithium-ion		
				Volts	80		
	40	Traction motor	60 minute rating		hp (kW)	31.6 (23.6)	
	41	Pump motor	15% rating		hp (kW)	32.2 (24)	
	42	Traction motor	Type/control method		AC / transistor		
	43	Pump motor	Type/control method		AC / transistor		
44	Number of speeds	Traction/pump		Infinitely variable / Infinitely variable			
OTHER	45	Step height		in (mm)	18.7 (475)		
	46	Floor height	Lowest point	in (mm)	27.4 (696)		
	47	Attachment relief pressure		psi (bar)	2250 (155)		
	48	Auxiliary relief pressure	3rd and 4th function		gal/min (l/min)	11 (40)	
	49	Sound level	Measured per ANSI B56.11.5		dB (A)	65	

NL = no load, RL = rated load

The following chargers are approved to use with the ERC050-060VGL lithium-ion battery:

- Posicharge ProCORE (80V) - 10kW, 15kW, 20kW or 30kW single cable
- EcoTec Fast Charge Access (80V) - 80-500-32FC or 80-650-32FC

Above specifications, unless otherwise listed, are for a standard truck without optional equipment.

Right angle stack and equal intersecting aisle are calculated using a 40" wide pallet.

MAST DIMENSIONS ERC050VGL

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)	ERC050VGL lbs (kg)
2-STAGE LIMITED FREE LIFT (LFL) HI-VIS™₂ MAST						
125 (3192)	83 (2085)	174 (4415)	147 (3749)	5 (140)	5 (140)	9180 (4170)
133 (3392)	86 (2185)	182 (4615)	155 (3949)	5 (140)	5 (140)	9220 (4185)
1137 (3492)	88 (2235)	186 (4715)	159 (4049)	5 (140)	5 (140)	9240 (4195)
2-STAGE FULL FREE LIFT (LFL) HI-VIS™ MAST						
126 (3202)	83 (2085)	175 (4425)	148 (3759)	33 (862)	60 (1528)	9220 (4185)
133 (3402)	86 (2185)	183 (4625)	155 (3959)	37 (964)	64 (1628)	9260 (4205)
137 (3502)	88 (2235)	186 (4725)	159 (4059)	39 (1012)	66 (1678)	9280 (4215)
3-STAGE FULL FREE LIFT (LFL) HI-VIS™₂ MAST						
189 (4800)	83 (2085)	238 (6023)	210 (5399)	33 (862)	60 (1546)	9560 (4340)
194 (4950)	85 (2135)	243 (6173)	216 (5489)	36 (917)	62 (1596)	9580 (4350)
200 (5100)	88 (2235)	249 (6323)	222 (5639)	39 (1012)	66 (1696)	9630 (4370)
218 (5550)	94 (2385)	267 (6773)	239 (6089)	45 (1162)	72 (1846)	9720 (4415)
236 (6000)	102 (2585)	285 (7223)	257 (6539)	53 (1362)	80 (2046)	9910 (4500)
4-STAGE FULL FREE LIFT (LFL) HI-VIS™ MAST						
240 (6098)	84 (2133)	289 (7321)	263 (6678)	35 (910)	61 (1553)	10100 (4585)
252 (6404)	88 (2235)	301 (7627)	275 (6984)	39 (1012)	65 (1655)	10160 (4610)
264 (6710)	92 (2336)	313 (7933)	287 (7290)	43 (1113)	69 (1756)	10220 (4640)

MAST DIMENSIONS ERC060VGL

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)	ERC060VGL lbs (kg)
2-STAGE LIMITED FREE LIFT (LFL) HI-VIS™₂ MAST						
118 (3009)	83 (2085)	167 (4237)	143 (3654)	5 (150)	5 (150)	10240 (4650)
126 (3209)	86 (2185)	175 (4437)	151 (3854)	5 (150)	5 (150)	10280 (4665)
130 (3309)	88 (2235)	179 (4537)	155 (3954)	5 (150)	5 (150)	10300 (4675)
2-STAGE FULL FREE LIFT (LFL) HI-VIS™ MAST						
118 (3010)	83 (2085)	167 (4237)	144 (3655)	33 (857)	56 (1440)	10280 (4665)
126 (3210)	86 (2185)	175 (4437)	151 (3855)	37 (957)	60 (1540)	10320 (4685)
130 (3310)	88 (2235)	179 (4537)	155 (3955)	39 (1007)	62 (1590)	10340 (4695)
3-STAGE FULL FREE LIFT (LFL) HI-VIS™₂ MAST						
175 (4468)	83 (2085)	225 (5696)	200 (5095)	33 (857)	57 (1458)	10610 (4815)
181 (4618)	85 (2135)	231 (5846)	206 (5245)	35 (907)	59 (1508)	10640 (4830)
187 (4768)	88 (2235)	237 (5996)	212 (5395)	39 (1007)	63 (1608)	10660 (4840)
205 (5218)	94 (2385)	254 (6446)	230 (5845)	45 (1157)	69 (1758)	10770 (4890)
223 (5668)	102 (2585)	272 (6896)	248 (6295)	53 (1357)	77 (1958)	10910 (4955)
4-STAGE FULL FREE LIFT (LFL) HI-VIS™ MAST						
240 (6098)	84 (2133)	289 (7321)	263 (6678)	35 (910)	61 (1553)	11000 (4995)
252 (6404)	88 (2235)	301 (7627)	275 (6984)	39 (1012)	65 (1655)	11060 (5020)
264 (6710)	92 (2336)	313 (7933)	287 (7290)	43 (1113)	69 (1756)	11120 (5050)

BATTERY CHARGE TIME - ERC050-060VGL

		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 - ERC050VGL

		Battery Size		
		33.6kWh	25.2kWh	16.8kWh
Application	Heavy	7h 15m	5h 30m	3h 30m
	Medium	10h 15m	7h 45m	5h
	Light	13h 45m	10h 15m	6h 45m

The above 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 - ERC060VGL

		Battery Size		
		33.6kWh	25.2kWh	16.8kWh
Application	Heavy	6h 45m	5h	3h 15m
	Medium	9h 45m	7h 15m	4h 45m
	Light	13h	9h 45m	6h 30m

FEATURES LIST

PERFORMANCE	STD	OPT
80V electrical system	•	
80V @ 420Ah battery	•	
80V @ 315Ah battery		•
80V @ 210Ah battery		•
Premium Performance Package	•	
AC traction and pump motors (completely brushless)	•	
Transistor drive and pump control	•	
Advanced VSM (vehicle system manager)	•	
Progressive thermal management system	•	
DRIVE	STD	OPT
Smooth tread rubber drive tire and steer tire	•	
Non-marking, rubber, or lug tread tires		•
Wide tread tires		•
LIFT	STD	OPT
2-stage limited free lift (LFL) Hi-Vis™2 mast with maximum fork height of 125" (3192mm) (ERC050VGL) or 118" (4800mm) (ERC060VGL)	•	
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
38.5" (980mm) wide Class II (ERC050VGL) or Class III (ERC060VGL) hook-type carriage with 38.5" (980 mm) high load backrest extension	•	
42" (1067mm) long forks	•	
Carriage with integral sideshift		•
Carriage with integral sideshifting fork positioner		•
Attachment carriages		•
Return to set tilt		•
Accumulator		•
Load weight indicator		•
Hydraulic attachment extension tubes with quick disconnect fittings		•
ERGONOMICS	STD	OPT
12" steering wheel with integral spinner knob	•	
Non-suspension vinyl seat	•	
Black, non-cinch seat belt with Emergency Locking Retractor	•	
Foot applied / hand released park brake	•	
Foot Direction Control Pedal	•	
On-demand power steering	•	
Power assist braking	•	
Auto Deceleration System (ADS) with regenerative braking	•	
Multifunction display	•	
Easy ingress/egress with low step height and contoured handhold	•	
Operator convenience station - storage areas, beverage & clipboard holders	•	
Accutouch electro-hydraulic mini-lever controls with fully adjustable armrest	•	
Adjustable tilt steering column with low profile cowl	•	
Cushioned floor mat	•	
Seatside power disconnect button	•	

ERGONOMICS continued		
Cooler/freezer package—operating temp: -20°F to +120°F		•
Air Ride suspension seat		•
Non-suspension seat (cloth)		•
Full-suspension seat (vinyl or cloth)		•
Full-suspension swivel seat (vinyl or cloth)		•
Seatside directional control		•
Automatic electro-mechanical park brake		•
Telescopic steering column with tilt memory		•
LED and halogen work light packages		•
LED dome / reading light		•
Basic & premium LED brake/tail/back-up light packages		•
Key switch controlled lights		•
Rear drive handle with integrated horn button		•
Mirrors – dual side view or panoramic		•
Low mount display		•
OPERATION	STD	OPT
Standard construction	•	
Key switch start	•	
88.5" grid style overhead guard	•	
3-function hydraulic control valve	•	
Fully integrated CANbus communication	•	
Continuous Stability System (CSS™)	•	
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		•
86.5" grid style overhead guard		•
84.1" flat plate overhead guard		•
88.5" drive-in rack grid style overhead guard		•
Keyless start (with auxiliary key switch)		•
Audible alarm – reverse operation (manually adjustable to 87, 97 or 102 dB)		•
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		•
Synchronous steering		•
Red, high-visibility, non-cinch seat belt with or without start interlock		•
Yale Reliant™		•
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.