

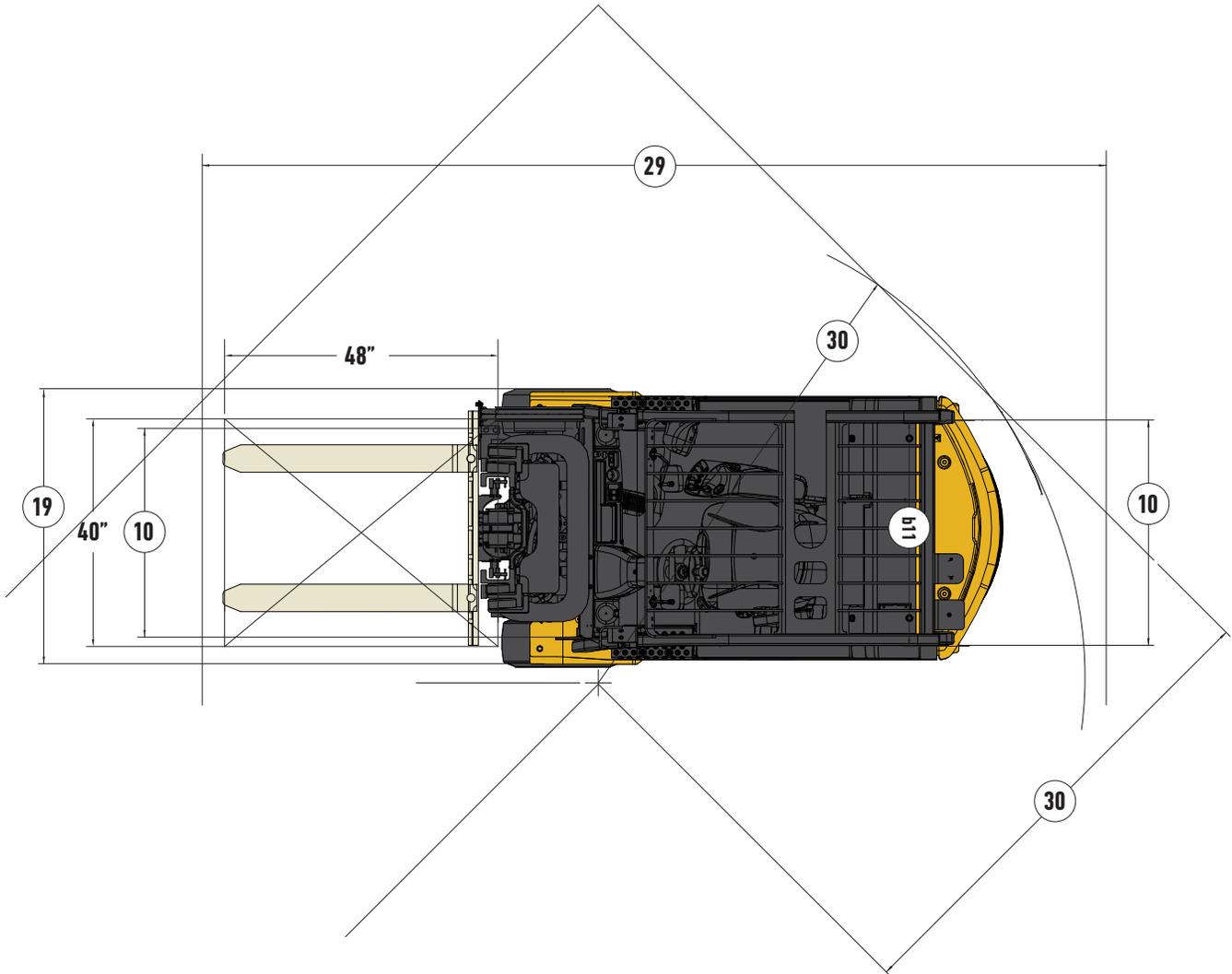


ERC 080VHL

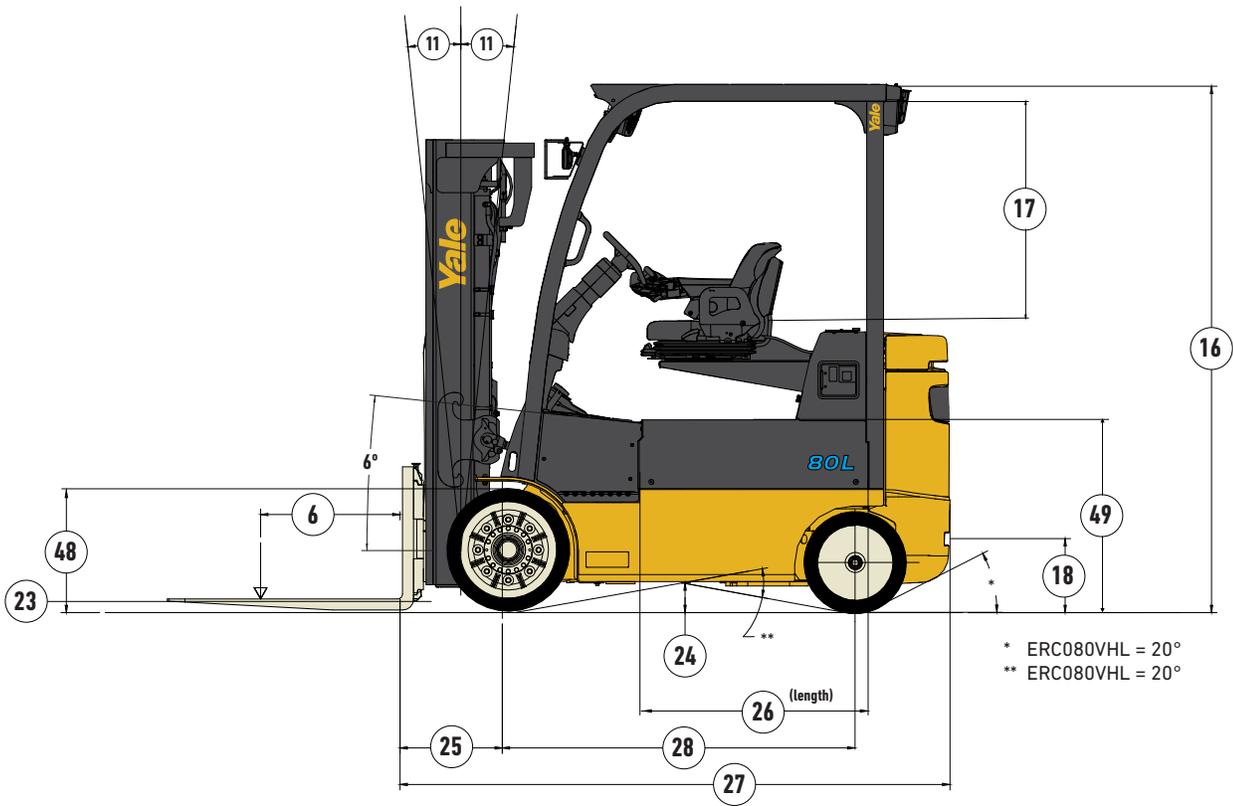
SPEC SHEET

Integrated lithium-ion
counterbalanced
forklift

8,000 lbs.



Circled dimensions correspond to the line numbers on the tabulated chart inside the spec sheet. Dimensions are in inches (millimeters).



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GENERAL SPECIFICATIONS

GENERAL	1	Manufacturer		Yale		
	2	Model designation		ERC080VHL		
	3	Power		Electric		
	4	Operation		Sit		
	5	Rated capacity	lb. (kg)	8000 (3629)		
	6	Load center	in. (mm)	24 (610)		
TIRES/ WHEELS	7	Tire type - cushion, solid, pneumatic, etc.	Drive/steer	Cushion/cushion		
	8	Tire size	Drive/steer	in.	22x9x16 / 18x7x12.1	
	9	Wheels - number	X=driven	Drive/steer	2x/2	
	10	Tread	Center of tires	Narr dr/wide dr/steer	in. (mm)	37/41/38.3 (941/1041/972)
DIMENSIONS	11	Mast tilt	Std opt	degrees	5F/5B 8F/5B	
	12	Mast - lowered height	Std mast	in. (mm)	84.1 (2134)	
	13	Free lift - top of fork	Std 2-stg limited free lift mast		in. (mm)	5 (150)
			Opt 2-stg full free lift mast with/without LBR		in. (mm)	35/53 (900/1352)
	14	Lift height - top of fork	Std 2-stg limited free lift mast		in. (mm)	120 (3050)
	15	Mast - extended height	Std-mast with/without LBR		in. (mm)	169/149 (4284/3783)
	16	Overhead guard height	Std/opt/opt flat plate		in. (mm)	94/91/87.1 (2388/2311/2212)
	17	SIP to bottom std OHG	Susp at mid-point	Susp/swivel/air-ride	in. (mm)	39.0/38.9/38.5 (991/989/979)
	18	Tow pin height	Vertical center of pin		in. (mm)	12.7 (324)
	19	Overall width	Standard tread/wide tread		in. (mm)	47.2/50 (1200/1270)
	20	Forks	Thickness x width x length		in. (mm)	2x4.9x42 (50x125x1067)
	21	Standard carriage width	Class III	in. (mm)	42 (1067)	
	23	Ground clearance	Lowest point	NL/RL	in. (mm)	3.8/3.5 (96/90)
	24	Ground clearance	Center of truck	NL/RL	in. (mm)	5.3/5.1 (134/130)
	25	Load distance	Center of wheel to face of forks		in. (mm)	17.6 (447)
	27	Length to face of forks	Chassis length		in. (mm)	100.3 (2548)
	28	Wheelbase			in. (mm)	62 (1574)
	29	Right angle stack			in. (mm)	154 (3911)
	30	Equal aisle	90° intersecting aisle		in. (mm)	83 (2107)
	31	Outside turning radius			in. (mm)	88.2 (2240)
	WEIGHT	32	Truck weight	With/without battery	NL	lb. (kg)
33		Axle loading - drive	Static with max. wt. battery	NL/RL	lb. (kg)	7120 (3230) / 20860 (9462)
34		Axle loading - steer	Static with max. wt. battery	NL/RL	lb. (kg)	9340 (4237) / 3300 (1497)
PERFORMANCE	STANDARD PERFORMANCE					
				VOLTS	80	
	36	Travel speed	Extended shift OFF	NL/RL	mph (km/h)	11.7/11.2 (18.8/18)
			Extended shift ON	NL/RL	mph (km/h)	10.9/10.8 (17.5/17.4)
	37	Lift speed	Std 2-stg LFL mast	NL/RL	ft/min (m/sec)	118/73 (0.6/0.37)
			Opt 2-stg FFL mast	NL/RL	ft/min (m/sec)	107/66 (0.542/0.334)
			Opt 3-stg FFL mast	NL/RL	ft/min (m/sec)	110/68 (0.56/0.345)
	38	Lower speed	Std 2-stg LFL mast	NL/RL	ft/min (m/sec)	94/104 (0.48/0.53)
			Opt 2-stg FFL mast	NL/RL	ft/min (m/sec)	75/91 (0.38/0.46)
			Opt 3-stg FFL mast	NL/RL	ft/min (m/sec)	77/98 (0.39/0.5)
	39	Gradability	5 minute rating	NL/RL	%	30.1/18.3
60 minute rating			NL/RL	%	10.9/7	
40	Drawbar pull	5 minute rating	NL/RL	lbf	4104/3941	
		60 minute rating	NL/RL	lbf	1541/1526	
41	Brake	Method of control	Service/parking		Hydraulic/spring applied	
		Method of operation	Service/parking		Foot/automatic	
42	Battery	Type		Lithium-ion		
ELECTRIC	STANDARD PERFORMANCE					
				VOLTS	80	
	43	Traction motor	60 minute rating	hp (kW)	28.2 (21)	
	44	Pump motor	15% rating	hp (kW)	48.3 (36)	
	45	Traction motor	Type/control method		AC/transistor	
	46	Pump motor	Type/control method		AC/transistor	
	47	Number of speeds	Traction/pump		Infinitely variable/infinitely variable	
OTHER	48	Step height			in. (mm)	21.1 (536)
	49	Floor height	Lowest point	in. (mm)	33.7 (855)	
	50	Attachment relief pressure		psi (bar)	2250 (155)	
	51	Auxiliary oil flow	3rd and 4th function		gal/min (l/min)	16 (60)
	52	Sound level	Measured per ANSI B56.11.5		dB (A)	69/66

The following chargers are approved to use with the ERC080VHL lithium-ion battery:

- Posicharge ProCORE (80V) - 10kW, 15kW, 20kW or 30kW single cable
- Ecotec Fast Charge Access (80V): Available in 5kW-28kW (charger input voltage dependent)

Please contact your local dealer for more information on approved chargers

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.

BATTERY SPECIFICATIONS

The battery run time and battery charge time tables below are a helpful guide to visualize the truck run time with different batteries in different applications.

- **Heavy** – high throughput, typically runs 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%.
(Charts are a guide only and not a replacement for a site survey and full power study.)

BATTERY RUN TIME

Battery size	Application		
	Heavy	Medium	Light
52.4kWh	5h 45m	8h 0m	11h 0m
43.7kWh	4h 45m	6h 45m	9h 0m
34.9kWh	3h 45m	5h 30m	7h 0m

BATTERY CHARGE TIME

Charger size	Battery size		
	52.4kWh	43.7kWh	34.9kWh
30kW	1h 45m	1h 30m	1h 15m
20kW	2h 45m	2h 15m	1h 45m
15kW	3h 30m	3h 0m	2h 30m
10kW	5h 30m	4h 30m	3h 30m
5kW	10h 30m	8h 45m	7h 0m

ONBOARD CHARGING

The onboard charging option allows integrated lithium-ion forklifts to be charged via commonly available infrastructure without any facility equipment. Ideal for applications with the downtime for slower charging such as those with lower hour usage or with limited charging options.

ONBOARD CHARGE TIME

Charger size	Battery size		
	52.4kWh	43.7kWh	34.9kWh
6kW (240V outlet)	8h 5m	6h 45m	5h 25m
1.4kW (120V outlet)	34h 30m	28h 45m	23h 0m

BATTERY RECHARGE TIME FOLLOWING 1 HOUR OF OPERATION

Charger size	Application		
	Heavy	Medium	Light
6kW (240V outlet)	1h 30m	1h 10m	0h 50m
1.4kW (120V outlet)	6h 20m	4h 30m	3h 20m

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-STAGE LIMITED FREE-LIFT (LFL) MAST					
120 (3050)	84 (2134)	176 (4455)	149 (3783)	5 (150)	5 (150)
143 (3650)	96 (2434)	193 (4884)	173 (4383)	5 (150)	5 (150)
2-STAGE FULL FREE-LIFT (FFL) MAST					
121 (3075)	84 (2134)	170 (4309)	152 (3857)	35 (900)	53 (1352)
144 (3675)	96 (2434)	194 (4909)	176 (4457)	47 (1200)	65 (1652)
3-STAGE FULL FREE-LIFT (FFL) MAST					
173 (4415)	84 (2134)	223 (5649)	205 (5197)	35 (900)	53 (1352)
185 (4715)	88 (2234)	235 (5949)	217 (5497)	39 (1000)	57 (1452)
194 (4950)	92 (2334)	244 (6184)	226 (5732)	43 (1100)	61 (1552)
218 (5550)	100 (2534)	268 (6784)	250 (6332)	51 (1300)	69 (1752)

FEATURES LIST

PERFORMANCE	STD	OPT	ERGONOMICS CONTINUED	STD	OPT
80-Volt electrical system	●		Air-ride seat (vinyl or cloth)		●
83.2V battery @ 630 Ah	●		Full suspension swivel seat (vinyl or cloth)		●
83.2V battery @ 525 Ah		●	Seatside directional control		●
83.2V battery @ 420 Ah		●	Telescoping steering column with tilt memory		●
AC traction and pump motors (completely brushless)	●		LED dome/reading light		●
Transistor drive and pump control	●		Rear drive handle with horn button		●
Advanced VSM (Vehicle System Manager)	●		Dual rear view mirrors		●
Regenerative braking	●		Panoramic rear view mirror		●
Onboard charging		●	Red, high-visibility, non-cinch seat belt with or without interlock		●
ENERGY SYSTEM	STD	OPT	Low mount display		●
Integrated lithium-ion	●		OPERATION	STD	OPT
DRIVE	STD	OPT	Standard environmental construction	●	
Smooth tread rubber drive tire and steer tire	●		Key switch start	●	
Non-marking, rubber, or lug tread tires		●	94" grid style overhead guard	●	
Wide tread tires		●	3-function hydraulic control valve	●	
LIFT	STD	OPT	Integrated CANbus communication	●	
2-stage limited free lift (LFL) mast with maximum fork height of 120" (3050mm) (ERC080VHL)	●		Static strap	●	
5° forward / 5° back mast tilt	●		Tow pin	●	
2-stage full free lift mast		●	Continuous Stability System (CSS™)	●	
3-stage full free lift mast		●	Cooler/freezer package - operating temperatures: -20°F to +120°F		●
8° forward / 5° back tilt		●	4-function hydraulic control valve		●
HANDLING	STD	OPT	Horizontal battery extraction (rollers)		●
42" (1067mm) wide hook-type carriage with 48" (1219mm) high load backrest extension	●		Keyless start (with auxiliary key switch)		●
42" (1067mm) long forks	●		LED brake/tail/back-up light packages		●
48" (1220mm) wide hook type carriage with 48" high load backrest extension		●	LED and halogen work light packages		●
42" (1067mm) wide integral side shift (ERC080VHL)		●	Key switch controlled lights		●
48" (1220mm) integral sideshift carriage		●	Audible alarm - reverse operation (manually adjustable to 87, 97 or 102 dB)		●
Multiple fork lengths		●	Visible amber strobe light - continuous activated, overhead guard mounted		●
Return to set tilt		●	Fire extinguisher - 2.5lb dry chemical		●
Hydraulic attachment extension tubes with or without quick disconnect fittings		●	Impact monitor with programmable shutdown		●
Load weight indicator		●	Operator password start interlock		●
Accumulator		●	Operator daily checklist		●
ERGONOMICS	STD	OPT	System monitor - hydraulic low fluid level indicator and hydraulic filter service indicator		●
Foot directional control pedal	●		Programmable maintenance reminder		●
Accutouch mini-levers	●		12-volt auxiliary power supply		●
Steering wheel with integral spinner knob	●		Auxiliary DC-DC converter		●
Full suspension vinyl seat	●		91" grid style overhead guard		●
Black, non-cinch seat belt with Emergency Locking Retractor (ELR)	●		87" flat plate overhead guard		●
Park brake	●		Battery cooling fan		●
Power assist braking	●		Vented side paneling		●
On-demand hydrostatic power-assist steering	●		Yale Reliant™		●
Auto Deceleration System (ADS)	●		SUPPLEMENTAL	STD	OPT
Multifunction display (high mount)	●		Operating manual	●	
Easy ingress/egress with low step height and contoured handhold	●		12 month / 2,000 hour full truck warranty	●	
Operator convenience station	●		36 month / 6,000 hour powertrain warranty	●	
Adjustable tilt steering column	●		84 month / 12,000 hour factory installed integrated lithium-ion battery warranty	●	
Operator Presence System (OPS)	●				
Cushioned floor mat	●				
Seatside power disconnect button	●				
Full suspension cloth seat		●			

About Yale



Yale Lift Truck Technologies leverages over a century of material handling experience and substantial investment in innovation to bring the most advanced technology-driven lift truck solutions to market. The company offers a full line of award-winning lift trucks, including reach trucks, order pickers, turret trucks, pallet jacks and trucks, pallet stackers, tow tractors and counterbalanced forklifts, as well as powerful operator assist solutions, proven robotics and a wide range of power sources to help customers adapt to today's demanding supply chain. Yale and its independent dealer network support these solutions with comprehensive after-sales service, parts, financing and training.

MATERIALS HANDLING FOR:

Third-party logistics (3PL)

Auto parts distribution

Beverage

Cold & frozen foods

Food distribution

Food processing

Furniture & furnishings

Government

Health & pharma

Home centers & durables

Retail & e-commerce

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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.