



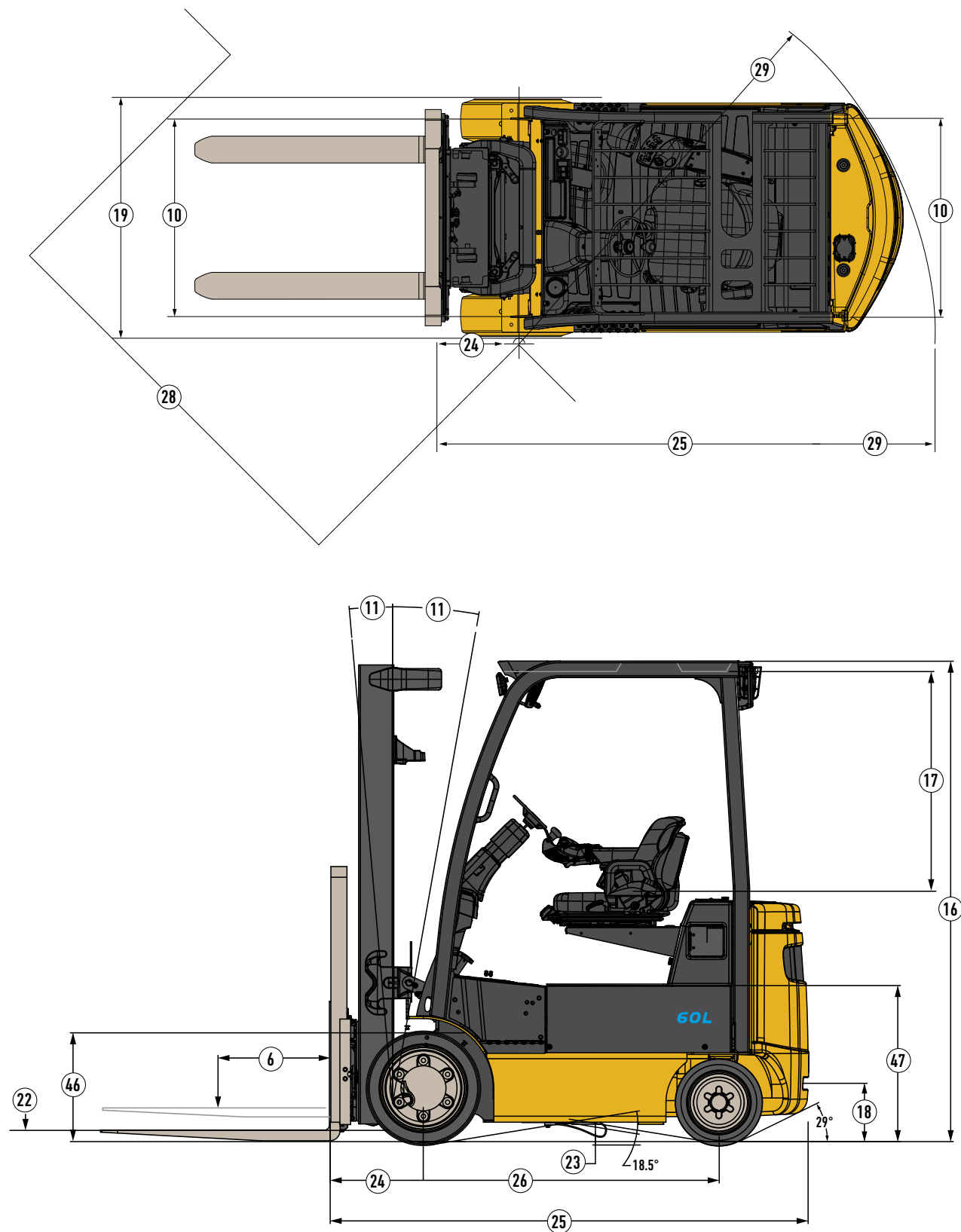
# ERC 050-060VGL

SPEC SHEET

Cushion tire integrated lithium-ion  
counterbalanced forklift

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5,000-6,000 lbs.



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		lb. (kg)	5000 (2268)	6000 (2722)	
	6	Load center		in. (mm)	24 (610)		
TIRES	7	Tire type - cushion, solid, pneumatic etc.		Drive/steer	Cushion/ Cushion		
	8	Tire size		Drive/steer	in.	21x7x15 / 16x5x10.5      21x7x15 / 16x5x10.5	
	9	Wheels - numbers	X=Driven	Drive/steer	in. (mm)	2X / 2	
	10	Tread	Tires	Std Dr/Wide Dr/Steer	in. (mm)	35.1/41.9/37 (892/1064/940)      35.6/40.9/36 (905/1039/915)	
DIMENSIONS	11	Mast tilt		Std Opt Opt	degrees	5F5B 10F/5B (5F/4B)	
	12	Mast - lowered height		Std mast	in. (mm)	83 (2085)	
	13	Free lift - top of fork	Std 2 stg limited free lift mast		in. (mm))	5(140)	
			Opt 2 stg full free mast with/without LBR		in. (mm)	33/60 (860/1525)      33/56 (855/1440)	
	14	Lift height-top of fork	Std 2 stg limited free lift mast		in. (mm)	125 (3192)      118 (3009)	
	15	Mast - extended height/wheel to fork tips	Std mast with/without LBR		in. (mm)	174/148 (4415/3740)      167/144 (4235/3655)	
	16	Overhead guard height	Std/drive in rack/opt/opt flat plate		in. (mm)	91.5/91.5/89.5/87.4 (2324/2324/2273/2213)	
	17	SIP to bottom std OHG	RSusp at mid-point	Std/susp/swivel	in. (mm)	35.3/34.4/34.3 (899/874/872)	
	18	Tow pin height	Vertical center of pin		in. (mm)	11 (280)	
	19	Overall width	Standard tread/wide tread		in. (mm)	42.1/48.9 (1070/1242)      43.6/48.9 (1108/1242)	
	20	Forks	Thickness x width x length		in. (mm)	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	in. (mm)	38.5 (977)	
	22	Ground clearance	Lowest point	NL/RL	in. (mm)	3.6/3.3 (91/85)	
	23	Ground clearance	Center of truck	NL/RL	in. (mm)	3.9/3.6 (98/92)      3.7/3.6 (94/92)	
	24	Load distance	Center of wheel to face of forks		in. (mm)	15.4 (390)      15.8 (402)	
	25	Length to face of forks	Chassis length		in. (mm)	84.3 (2143)      86.5 (2199)	
	26	Wheelbase			in. (mm)	54.2 (1377)	
	27	Right angle stack			in. (mm)	137.5 (3493)      139.2 (3536)	
	28	Equal aisle	90° Intersecting aisle		in. (mm)	73.1 (1858)      74.2 (1885)	
	29	Outside turning radius			in. (mm)	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	lb. (kg)	4090 (1860) / 12730 (1460)      4180 (1900) / 14590 (6620)	
	32	Axle loading - steer	Static w/max. wt. battery	NL/RL	lb. (kg)	5100 (2315) / 5780 (665)      6070 (2755) / 6620 (755)	
PERFORMANCE	33	Travel speed	Extended shift OFF	NL/RL	mph (km/h)	12.3/12.5 (19.8/20.1)	
			Extended shift ON	NL/RL	mph (km/h)	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 dimensions provided with a 48" long and 40" wide pallet load, allowing zero clearance.

## 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)	lbs. (kg)
<b>2-STAGE LIMITED FREE LIFT (LFL) HI-VIS™2 MAST</b>						
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)
<b>2-STAGE FULL FREE LIFT (LFL) HI-VIS™ MAST</b>						
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)
<b>3-STAGE FULL FREE LIFT (LFL) HI-VIS™2 MAST</b>						
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)
<b>4-STAGE FULL FREE LIFT (LFL) HI-VIS™ MAST</b>						
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)	lbs. (kg)
<b>2-STAGE LIMITED FREE LIFT (LFL) HI-VIS™2 MAST</b>						
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)
<b>2-STAGE FULL FREE LIFT (LFL) HI-VIS™ MAST</b>						
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)
<b>3-STAGE FULL FREE LIFT (LFL) HI-VIS™2 MAST</b>						
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)
<b>4-STAGE FULL FREE LIFT (LFL) HI-VIS™ MAST</b>						
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 SPECIFICATIONS

ERC050VGL BATTERY RUN TIME			
Battery size	Application		
	Heavy	Medium	Light
33.6kWh	7h 15m	10h 15m	13h 45m
25.2kWh	5h 30m	7h 45m	10h 15m
16.8kWh	3h 30m	5h 0m	6h 45m
ERC060VGL BATTERY RUN TIME			
Battery size	Application		
	Heavy	Medium	Light
33.6kWh	6h 45m	9h 45m	13h 0m
25.2kWh	5h 0m	7h 15m	9h 45m
16.8kWh	3h 15m	4h 45m	6h 30m
BATTERY CHARGE TIME			
Charger size	Battery size		
	33.6kWh	25.2kWh	16.8kWh
30kW	1h 15m	1h 0m*	1h 0m*
20kW	1h 45m	1h 15m	1h 0m*
15kW	2h 15m	1h 45m	1h 15m
10kW	3h 30m	2h 45m	1h 45m
5kW	6h 45m	5h 15m	3h 30m

## ONBOARD CHARGING

ONBOARD CHARGE TIME			
Charger size	Battery size		
	33.6kWh	25.2kWh	16.8kWh
6kW (240V outlet)	5h 10m	3h 55m	2h 35m
1.4kW (120V outlet)	22h 5m	16h 35m	11h 5m
BATTERY RECHARGE TIME FOLLOWING 1 HOUR OF OPERATION			
Charger size	Application		
	Heavy	Medium	Light
6kW (240V outlet)	0h 50m	0h 40m	0h 30m
1.4kW (120V outlet)	3h 50m	2h 30m	1h 50m

The battery run time and battery charge time tables 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.)

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.

## 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	●	
Reverse Speed System		●
Onboard charging		●
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 Directional Control Pedal	●	
On-demand power steering	●	
Power assist braking	●	
Auto Deceleration System 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	STD	OPT
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 Vision™		●
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 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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Trucks may be shown with optional equipment and/or features not available in all regions. Truck performance may be affected by the condition of the vehicle, how it is equipped and the application. Specifications are subject to change without notice. Consult your Yale® Dealer if any of the information shown is critical to your application.

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.