

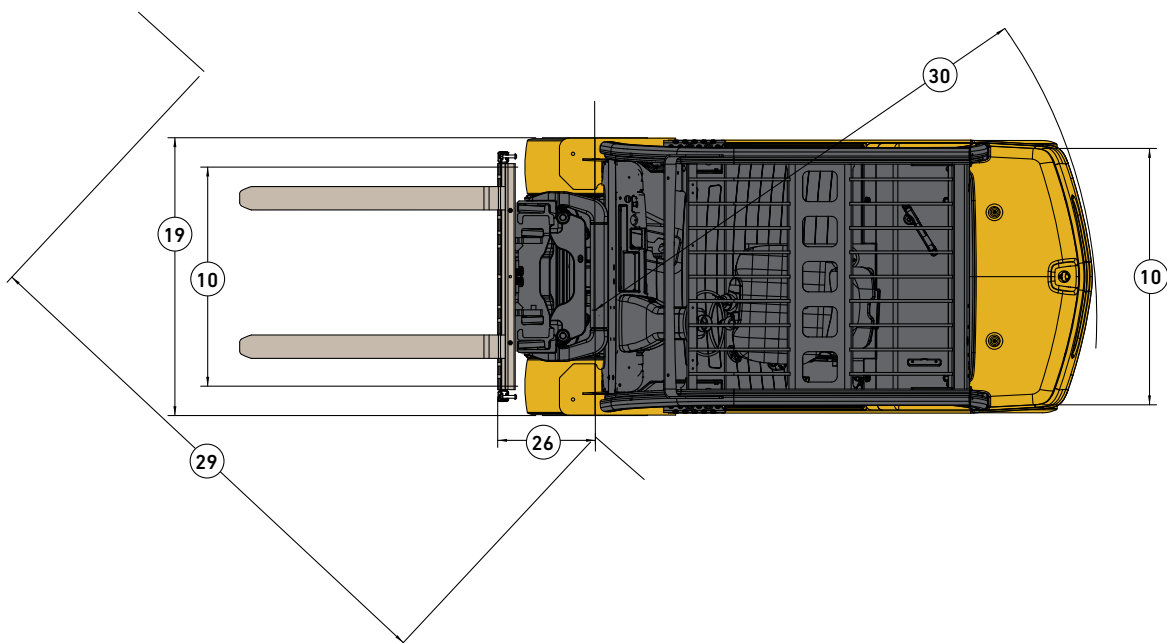
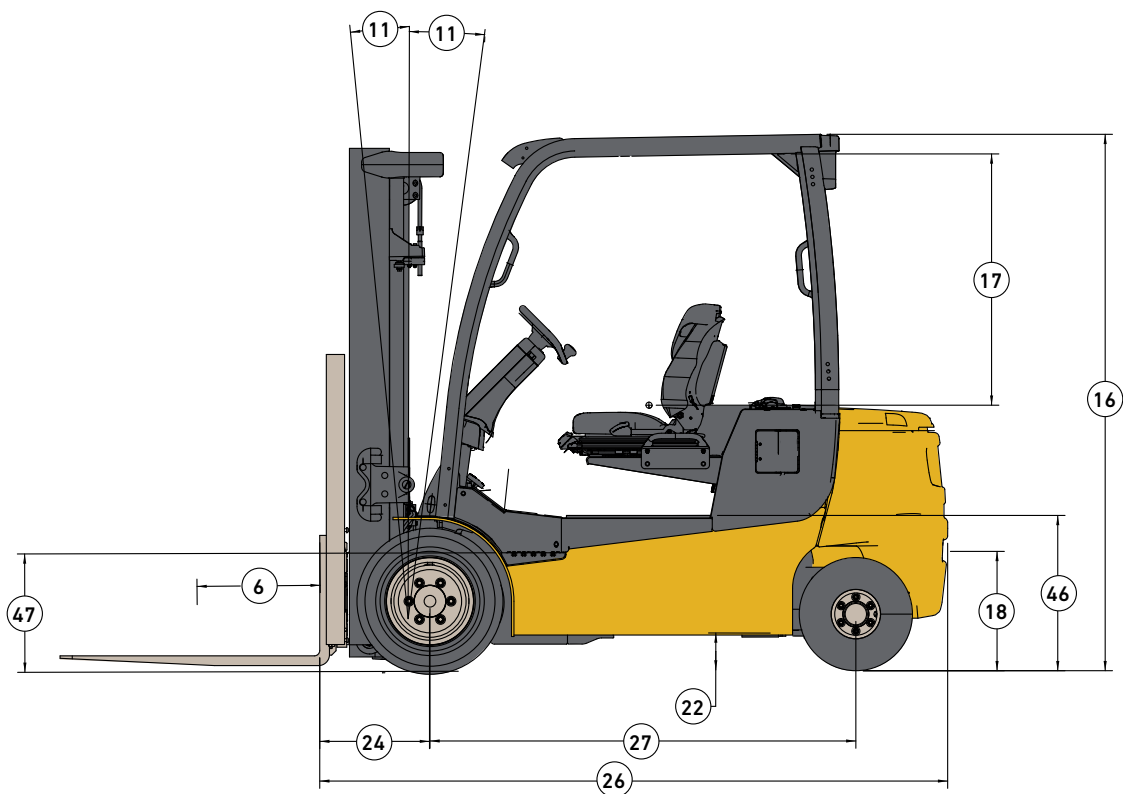


ERP 050-060VLL

SPEC SHEET

Pneumatic tire integrated
lithium-ion forklift

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 - ERP050-060VLL

GENERAL	1	Manufacturer			Yale			Yale			
	2	Model designation			ERP050VLL			ERP060VLL			
	3	Power/voltage			Electric / 80 volts			Electric / 80 volts			
	4	Operation			Sit			Sit			
	5	Rated capacity		lb. (kg)	5000 (2268)			6000 (2722)			
	6	Load center		in. (mm)	24 (610)			24 (610)			
TIRES	7	Tire type (std/opt)			Pneumatic / pneumatic shaped solid			Pneumatic / pneumatic shaped solid			
	8	Tire size (drive/steer)		in.	23x10-12 / 18x7-8			23x10-12 / 18x7-8			
	9	Wheels - number	X=Driven	Drive/steer	Front/rear	2X/2			2X/2		
DIMENSIONS	10	Tread	Center of tires	Std dr/wide dr/steer	in. (mm)	36.9 / 41.5 / 39.1 (938 / 1054 / 992)			36.9 / 41.5 / 39.1 (938 / 1054 / 992)		
	11	Mast tilt	Std / opt / opt		degrees	5F / 5B 10F / 5B 5F / 6B			5F / 5B 10F / 5B 5F / 6B		
	12	Mast-lowered height	Std mast		in. (mm)	87 (2192)			87 (2192)		
	13	Free lift - top of fork	Std 2-stg limited free lift mast		in. (mm)	5 (140)			5 (140)		
			Op 2-stg full free lift mast with/without LBR		in. (mm)	37 / 64 (962 / 1628)			37 / 60 (957 / 1540)		
	14	Lift height-top of fork	Std 2-stg limited free lift mast		in. (mm)	133 (3392)			126 (3209)		
	15	Mast-extnd. height	Std mast with/without LBR		in. (mm)	182 / 156 (4622 / 3956)			175 / 153 (4444 / 3861)		
	16	Overhead guard height			in. (mm)	86.3 (2193)			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)			35.2 / 35.8 / 35.3 (894 / 909 / 897)		
	18	Tow pin height	Vertical center of pin		in. (mm)	10.3 (262)			10.3 (262)		
	19	Overall width	Pneumatic tires	Std/wide tread	in. (mm)	46.9 / 51.5 (1192 / 1308)			46.9 / 51.5 (1192 / 1308)		
			PSS tires	Std/wide tread	in. (mm)	46.2 / 50.7 (1173 / 1289)			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)			2 x 4.9 x 42 (50 x 125 x 1067)		
	21	Standard carriage width			in. (mm)	42 (1067)			42 (1067)		
	22	Ground clearance	Lowest point		in. (mm)	3.9 / 3.3 (98 / 83)			3.9 / 3.3 (98 / 83)		
			Center of truck		in. (mm)	5.4 / 5.3 (137 / 134)			5.4 / 5.3 (137 / 134)		
	23	Load distance	Center of wheel to face of forks		in. (mm)	15.9 (404)			16.4 (416)		
	25	Battery compartment	Height		in. (mm)	12.6 (320)			12.6 (320)		
			Width		in. (mm)	29.1 (738)			29.1 (738)		
			Length	Nominal	Size	34			34		
			Length	Actual	in. (mm)	39.4 (1000)			39.4 (1000)		
	26	Length to face /forks			in. (mm)	97.6 (2480)			100.5 (2555)		
	27	Wheelbase			in. (mm)	68.9 (1750)			68.9 (1750)		
	28	Right angle stack			in. (mm)	147.3 (3742)			149.3 (3793)		
	29	Equal aisle	90° Intersecting aisle		in. (mm)	81.4 (2068)			81.7 (2074)		
30	Outside turning radius			in. (mm)	81.6 (2073)			84.2 (2139)			
WT.	31	Truck weight	Without battery	NL	lb. (kg)	8680 (3945)			9540 (4340)		
	32	Axle loading-drive	Static with max weight battery	NL	lb. (kg)	4855 (2205) / 13270 (6020)			5645 (2566) / 15150 (6886)		
	33	Axle loading-steer	Static with max weight battery	NL	lb. (kg)	4680 (2125) / 1765 (800)			5630 (2559) / 2125 (966)		
PERFORMANCE						Std. performance	Premium performance	Std. performance	Premium performance		
	34	Travel speed		NL / RL	mph (kph)	11.2 / 11.2 (18 / 18)	13 / 13 (21 / 21)	11.2 / 10.6 (18 / 17)	13 / 12.1 (21 / 19.5)		
	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)	116 / 65 (0.59 / 0.33)	124 / 83 (0.63 / 0.42)		
			Opt 2 stg FFL mast	NL/RL	ft/min (m/sec)	124 / 75 (0.63 / 0.39)	130 / 93 (0.66 / 0.47)	108 / 65 (0.55 / 0.33)	116 / 81 (0.59 / 0.41)		
			Opt 3 stg FFL mast	NL/RL	ft/min (m/sec)	124 / 75 (0.63 / 0.39)	134 / 94 (0.68 / 0.48)	112 / 65 (0.57 / 0.33)	118 / 81 (0.60 / 0.41)		
	36	Lower speed	Std 2 stg LFL 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 (0.40 / 0.53)			
	37	Gradability	5 Minute rating	NL/RL	%	35 / 24	38 / 26	34 / 22	37 / 24		
			60 Minute rating	NL/RL	%	12 / 8	13 / 9	11 / 7	12 / 8		
	38	Drawbar pull	5 Minute rating	NL/RL	lbf	4248 / 4148	4588 / 4480	4146 / 4037	4477 / 4360		
			60 Minute rating	NL/RL	lbf	1287 / 1257	1390 / 1357	1256 / 1226	1357 / 1321		
39	Brake	Method of control	Service/parking		Hydraulic / mechanical		Hydraulic / mechanical				
		Method of operation	Service/parking		Foot / automatic		Foot / automatic				
ELECTRIC	40	Battery compartment	Type		Lithium-ion		Lithium-ion				
	41	Traction motors /dual	60 Minute rating (each)		hp (kW)	13.4 (10)	13.4 (10)	13.4 (10)	13.4 (10)		
	42	Pump motor	15 Minute rating		hp (kW)	21.5 (16)	32.2 (24)	21.5 (16)	32.2 (24)		
	43	Traction motors	Type/control method		Dual AC / transistor		Dual AC / transistor				
	44	Pump motor	Type/control method		AC / transistor		AC / transistor				
45	Number of speeds	Traction/pump		Infinitely variable / infinitely variable		Infinitely variable / infinitely variable					
OTHER	46	Step height			in. (mm)	18.7 (475)		18.7 (475)			
	47	Floor height			in. (mm)	24.4 (620)		24.4 (620)			
	48	Attachement relief pressure			psi (bar)	2250 (155)		2250 (155)			
	49	Auxiliary oil flow	3rd and 4th function		gal/min (l/min)	11 (40)		11 (40)			
	50	Sound level	Measure per ANSI B56.11.5		dB	63	65	63	65		

NL = no load, RL = rated load

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 - 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 (3402)	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 SPECIFICATIONS

ERC050VLL BATTERY RUN TIME			
Battery size	Application		
	Heavy	Medium	Light
33.6kWh	6h 30m	9h 15m	12h 30m
25.2kWh	4h 45m	7h 0m	9h 15m
16.8kWh	3h 15m	4h 30m	6h 15m
ERC060VLL BATTERY RUN TIME			
Battery size	Application		
	Heavy	Medium	Light
33.6kWh	5h 15m	7h 30m	10h 0m
25.2kWh	4h 0m	5h 30m	7h 30m
16.8kWh	2h 30m	3h 45m	5h 0m
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)	1h 10m	0h 40m	0h 30m
1.4kW (120V outlet)	4h 30m	3h 10m	2h 20m

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	●	
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 radius" turning	●	
Premium performance package		●
Reverse Speed System		●
Onboard charging		●
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	●	
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 floormat	●	
Seatside power disconnect button	●	
Non-suspension seat (cloth)		●

ERGONOMICS CONTINUED	STD	OPT
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)	●	
Zero turn radius	●	
Outdoor protection / wash-down package	●	
Front mud guards	●	
IP54 sealed drive axle/motors with belly pan and side shields	●	
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		●
Tilt cylinder boots		●
Yale Vision™		●
Yale Reliant™		●
ENERGY SYSTEM	STD	OPT
Lithium-ion	●	
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.