



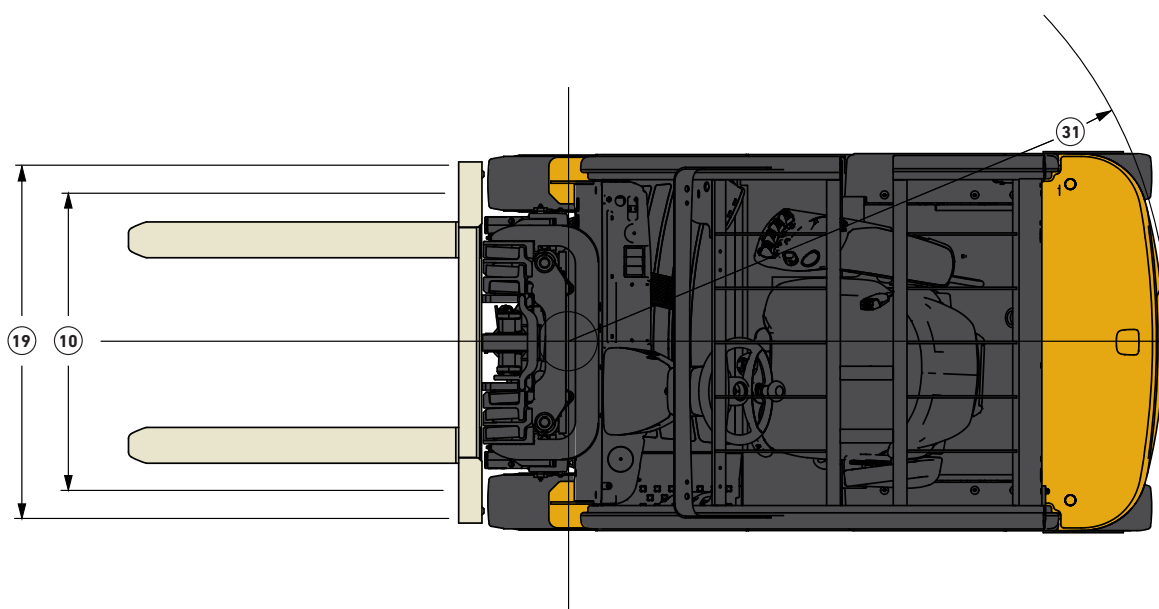
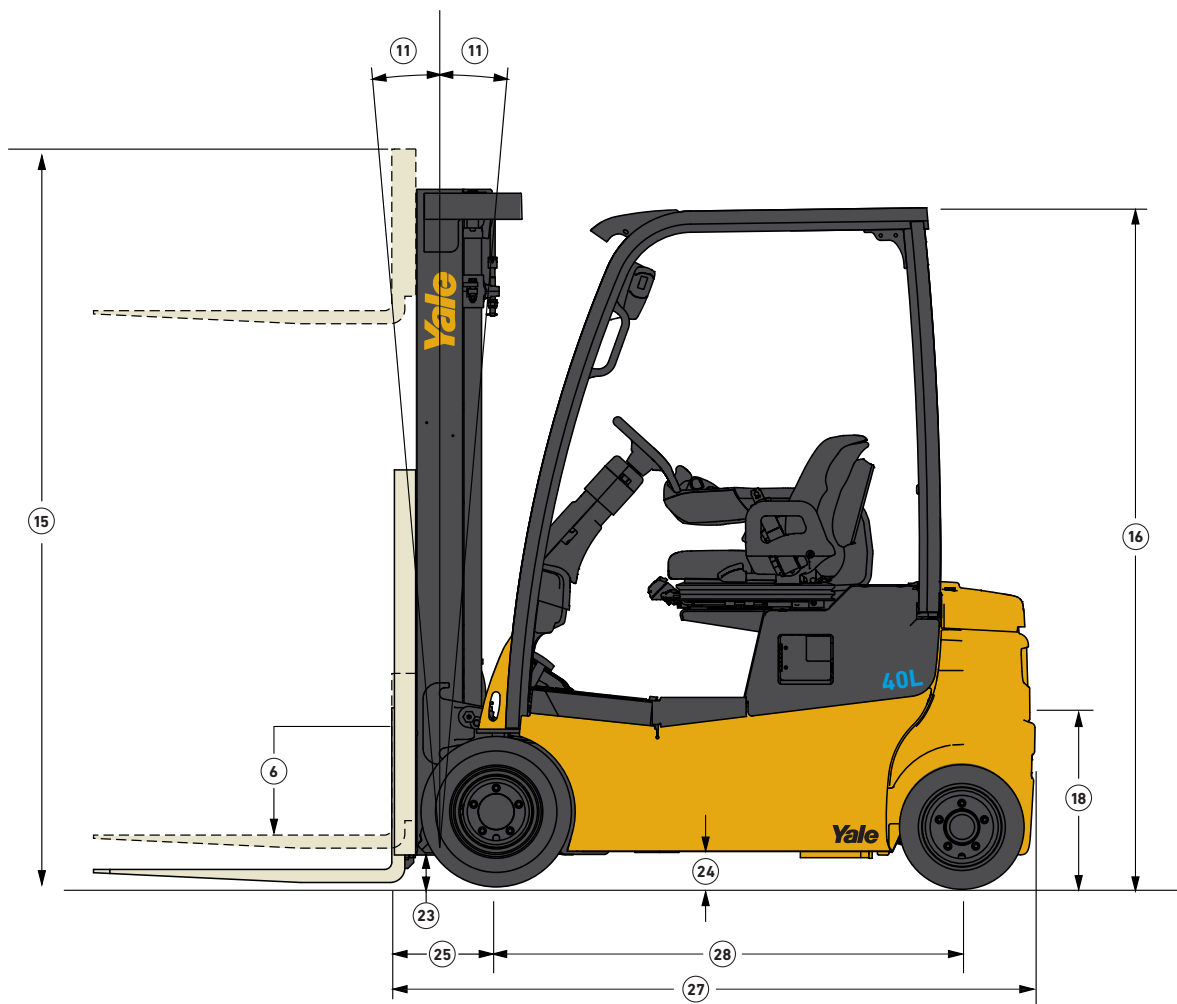
ERP 040VFL

SPEC SHEET

Pneumatic tire integrated
lithium-ion counterbalanced forklift

4,000 lbs.

TRUCK DIMENSIONS



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

GENERAL SPECIFICATIONS					
GENERAL	1	Manufacturer			Yale
	2	Model designation			ERP040VFL
	3	Power			Electric
	4	Operation			Sit
	5	Rated capacity	lb. (kg)	4000 (1814)	
	6	Load center	in. (mm)	24 (610)	
TIRES	7	Tire type	Drive/steer	Pneumatic shaped solid / pneumatic shaped solid	
	8	Tire size	Drive/steer in.	200/50-10 / 140/55-9	
	9	Wheels - number	X= Driven Drive/steer	2x / 2	
	10	Tread	Center of tires Drive/steer in. (mm)	35.7 / 35.4 (908 / 898)	
DIMENSIONS	11	Mast tilt	Std opt opt	degrees	5F/5B 10F/5B 5F/4B
	12	Mast - lowered height	Std mast	in. (mm)	78 (1980)
	13	Free lift - top of fork	Std 2-stg limited free lift mast	in. (mm)	5 (140)
			Opt 2-stg full free lift mast with/without LBR	in. (mm)	29 / 55 (750 / 1405)
	14	Lift height - top of fork	St 2-stg limited free lift mast	in. (mm)	119 (3032)
	15	Mast - extended height	Std mast with/without LBR	in. (mm)	168 / 142 (4262 / 3606)
	16	Overhead guard height	Std/flat plate/drive in rack	in. (mm)	81.5 / 77.9 / 81.5 (2070 / 1979 / 2070)
	17	SIP to bottom std OHG	Nominal Std/susp/swivel	in. (mm)	38.9 / 39.2 / 38.7 (989 / 997 / 985)
	18	Tow pin height	Vertical center of pin	in. (mm)	14.1 (360)
	19	Overall width		in. (mm)	43.9 (1116)
	20	Forks	Thickness x width x length	in. (mm)	1.6 x 3.9 x 42 (40 x 100 x 1067)
	21	Standard carriage width		in. (mm)	38.5 (977)
	22	Ground clearance	Lowest point	NL/RL in. (mm)	2.8 / 2.8 (70 / 70)
	23		Center of truck	NL/RL in. (mm)	3.7 / 3.5 (95 / 90)
	24	Load distance	Center of wheel to face of forks	in. (mm)	12.6 (321)
	25	Length to face of forks	Chassis Length	in. (mm)	77.8 (1975)
	26	Wheelbase		in. (mm)	56.3 (1431)
	27	Right angle stack		in. (mm)	129 (3278)
	28	Equal aisle	90 Intersecting aisle	in. (mm)	72.2 (1835)
	29	Outside turning radius		in. (mm)	65.2 (1656)
WT.	30	Truck weight		lb. (kg)	7550 (3435)
	31	Axle loading - drive	Static NL/RL	lb. (kg)	3675 (1665) / 10375 (4705)
	32	Axle loading - steer	Static NL/RL	lb. (kg)	3900 (1765) / 1200 (545)
PERFORMANCE	33	Travel speed	Extended shift OFF	NL/RL mph (km/h)	9.8 / 9.8 (15.7 / 15.7)
			Extended shift ON	NL/RL mph (km/h)	8.7 / 8.7 (14.0 / 14.0)
	34	Lift speed	Std 2-stg LFL mast	NL/RL ft/min (m/sec)	134 / 83 (0.68 / 0.42)
			Opt 2-stg FFL mast	NL/RL ft/min (m/sec)	120 / 81 (0.61 / 0.41)
			Opt 3 -stg FFL mast	NL/RL ft/min (m/sec)	120 / 81 (0.61 / 0.41)
			Opt 4-stg FFL mast	NL/RL ft/min (m/sec)	126 / 89 (0.64 / 0.45)
	35	Lower speed	Std 2-stg LFL mast	NL/RL ft/min (m/sec)	93 / 100 (0.47 / 0.51)
			Opt 2-stg FFL mast	NL/RL ft/min (m/sec)	77 / 93 (0.41 / 0.47)
			Opt 3-stg FFL mast	NL/RL ft/min (m/sec)	81 / 93 (0.41 / 0.47)
			Opt 4-stg FFL mast	NL/RL ft/min (m/sec)	94 / 98 (0.48 / 0.50)
	36	Gradability	5 Minutes rating	NL/RL %	34.0 / 21.0
			60 Minutes rating	NL/RL %	9.2 / 5.6
ELECTRICS	37	Drawbar pull	5 Minutes rating	NL/RL lbf.	2480 / 2410 (11025 / 10715)
			60 Minutes rating	NL/RL lbf.	730 / 660 (3260 / 2950)
	38	Brake	Method of control	Service/parking	Hydraulic / mechanical
			Method of operation	Service/Operation	Foot / automatic
	39	Battery	Type	Lithium ion	
	40	Dual voltage battery	Size Discharge/charge	48V @ 420Ah / 96V @ 210Ah	
	41	Traction motors (dual)	60 Minute rating (each)	hp (kW)	6.7 (5.0)
	42	Pump motor	15 Minute rating	hp (kW)	16.1 (12.0)
OTHER	43	Traction motors	Type/control method	AC / transistor	
	44	Pump motor	Type/control method	AC / transistor	
	45	Number of speeds	Traction/pump	Infinitely variable / infinitely variable	
	46	Step height		in. (mm)	19.1 (484)
	47	Floor height	Lowest point	in. (mm)	21.9 (557)
	48	Attachment relief pressure		psi (bar)	2611 / 2248 (180 / 155)
	49	Auxiliary oil flow	3rd and 4th function	gal/min (l/min)	5.3 / 10.6 (20 / 40)
	50	Sound level	Measured per ANSI B56.11.5	dB	69

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

Maximum fork height (TOF) +	Overall lowered height	Overall extended height		Free-lift (TOF)	
		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)
2-STAGE LIMITED FREE-LIFT (LFL) MAST					
119 (3032)	78 (1980)	168 (4262)	142 (3606)	5 (140)	5 (140)
127 (3232)	82 (2080)	176 (4462)	150 (3806)	5 (140)	5 (140)
2-STAGE FULL FREE-LIFT (FFL) MAST					
118 (3018)	78 (1980)	168 (4262)	143 (3613)	29 (750)	55 (1405)
126 (3218)	82 (2080)	176 (4462)	151 (3813)	33 (850)	59 (1505)
3-STAGE FULL FREE-LIFT (FFL) MAST					
175 (4450)	78 (1980)	224 (5025)	198 (5025)	29 (750)	55 (1405)
187 (4750)	82 (2080)	236 (5325)	210 (5325)	33 (850)	59 (1505)
192 (4900)	84 (2130)	238 (5375)	212 (5375)	35 (900)	61 (1555)
198 (5050)	88 (2230)	248 (5625)	222 (5625)	39 (1000)	65 (1655)
216 (5500)	94 (2380)	265 (6075)	240 (6075)	45 (1150)	71 (1805)
4-STAGE FULL FREE-LIFT (FFL) MAST					
241 (6121)	84 (2121)	291 (7380)	265 (6721)	34 (873)	59 (1511)
259 (6578)	90 (2273)	309 (7837)	283 (7179)	40 (1025)	65 (1663)

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
20.1 kWh	3h 45m	5h 15m	7h 15m

BATTERY CHARGE TIME

Charger size	Battery size	
	20.1 kWh	
30kW	0h 45m	
20kW	1h 15m	
15kW	1h 30m	
10kW	2h 15m	
5kW	4h 15m	

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
	20.1 kWh
6kW (240V outlet)	3h 15m
1.4kW (120V outlet)	13h 15m

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 40m	2h 0m

FEATURES LIST

PERFORMANCE	STD	OPT
48-Volt electrical system	●	
Dual voltage lithium battery technology	●	
AC tractions and pump motors (completely brushless)	●	
Hydrostatic steer system	●	
Transistor drive and pump control	●	
Advanced VSM (Vehicle System Manager)	●	
Dual drive motors	●	
Wet disc brakes	●	
"Zero turn radius" turning	●	
Regenerative braking	●	
Reverse Speed System		●
Onboard charging		●
DRIVE	STD	OPT
Pneumatic-shaped solid drive tire and steer tire	●	
Rubber cushion smooth tread drive tire and steer tire		●
LIFT	STD	OPT
2-Stage limited free lift (LFL) mast with maximum fork height of 119"	●	
5 Forward / 5 back mast tilt	●	
2-Stage full free lift mast		●
3-Stage full free list mast		●
4-Stage full free lift mast		●
Mast tilt option - 10F / 5B		●
Mast tilt option - 5F / 4B		●
HANDLING	STD	OPT
38.5" Wide class II carriage with 48" high load backrest extension	●	
42" (1067mm) Long forks	●	
Carriage with integral sideshift		●
Carriage with integral sideshifting forkpositioner		●
Return to set tilt		●
Hydraulic attachment extension tubes with or without quick disconnect fittings		●
Load weight indicator		●
ERGONOMICS	STD	OPT
Foot directional control pedal	●	
Accutouch hydraulic mini-levers	●	
12" Steering wheel with integral spinner knob and tilt column	●	
Vinyl non-suspension seat	●	
Black, non-cinch seat belt with Emergency Locking Retractor (ELR)	●	
Automatic park brake	●	
Power assist braking	●	
On-demand hydrostatic power-assist steering	●	
Auto Deceleration System	●	
Multifunction display (and all its sub features)	●	
Easy ingress/egress with low step height and contoured handhold	●	
Operator convenience station	●	
Adjustable tilt steering column with low profile cowl	●	
Operator Presence System (OPS)	●	
Cushioned floormat	●	
Static strap	●	
Tow pin	●	
Seatside power disconnect button	●	

ERGONOMICS CONTINUED	STD	OPT
Battery side covers	●	
On-board software (Program, test & diagnose / password protected)	●	
Electronic horn with integral relay (long life / no adjustments)	●	
Non-suspension cloth seat		●
Full-suspension seat (vinyl or cloth)		●
Full-suspension swivel seat (vinyl or cloth)		●
Seatside directional control		●
Telescopic steering column with tilt memory		●
LED and halogen work light packages		●
LED dome / reading light		●
Rear dive handle with horn button		●
Mirrors - dual side view - LH & RH OHG side mounted		●
Mirror - single panoramic - OHG mounted		●
Low mount display		●
OPERATION	STD	OPT
Standard environmental construction	●	
Key switch start	●	
81.5" Grid style overhead guard	●	
3-Function hydraulic valve	●	
Full integrated CANbus communication	●	
Cooler / freezer package: operating temperature 0F to +120F		●
SubZero freezer package: operating temperature -40F to +120F		●
4-Function hydraulic control valve		●
77.9" Flat plate overhead guard		●
81.5" Drive-in rack grid style overhead guard		●
Keyless start (with auxiliary key switch)		●
Basic and premium LED brake / tail / back-up light packages		●
Key switch controlled lights		●
Audible alarm - reverse operation (manually adjustable to 87, 97 or 102 dB)		●
Visible amber strobe light - continuous activated, overhead guard mounted		●
Fire extinguisher - 2.5lb dry chemical		●
Impact monitor		●
Operator password start interlock		●
Operator daily checklist		●
System monitor - hydraulic low fluid level indicator and hydraulic filter service indicator		●
Programmable maintenance reminder		●
Synchrone steering		●
Red, high-visibility, non-cinch seat belt with or without start interlock		●
Yale Vision™		●
Yale Reliant™		●
SUPPLEMENTAL	STD	OPT
84 Month / 12,000 hour lithium-ion battery warranty	●	
Operating manual	●	
12 Month / 2,000 hour full truck warranty	●	
36 Month / 6,000 hour powertrain warranty	●	

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

Yale Lift Truck Technologies
P.O. Box 7367
Greenville, NC 27835-7367
U.S.A.

yale.com



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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.