

ERP series

4,000 lbs



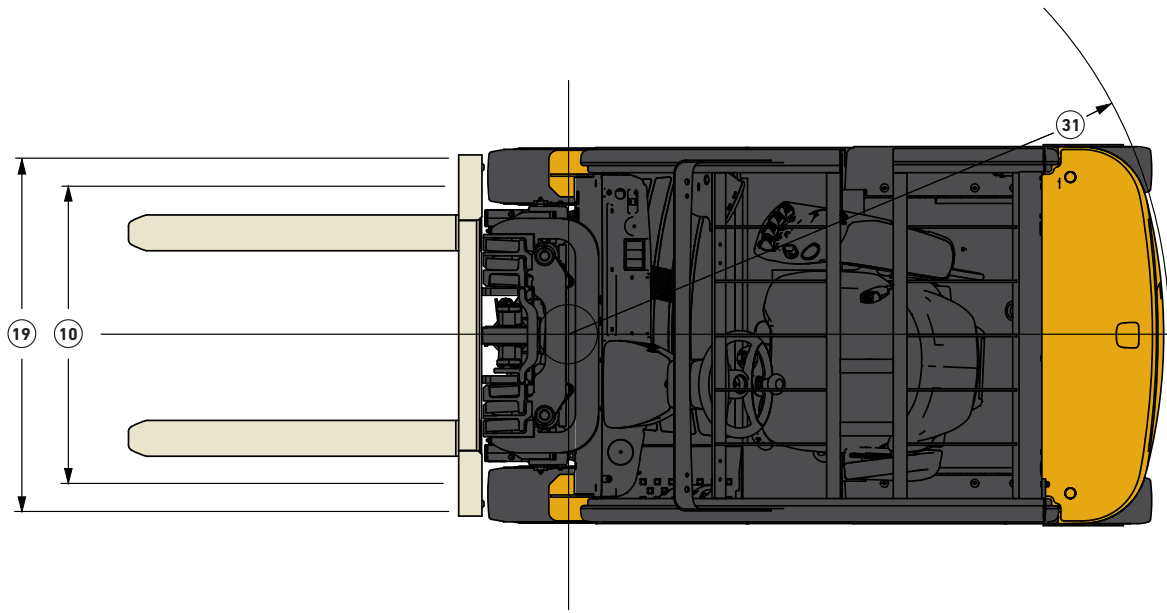
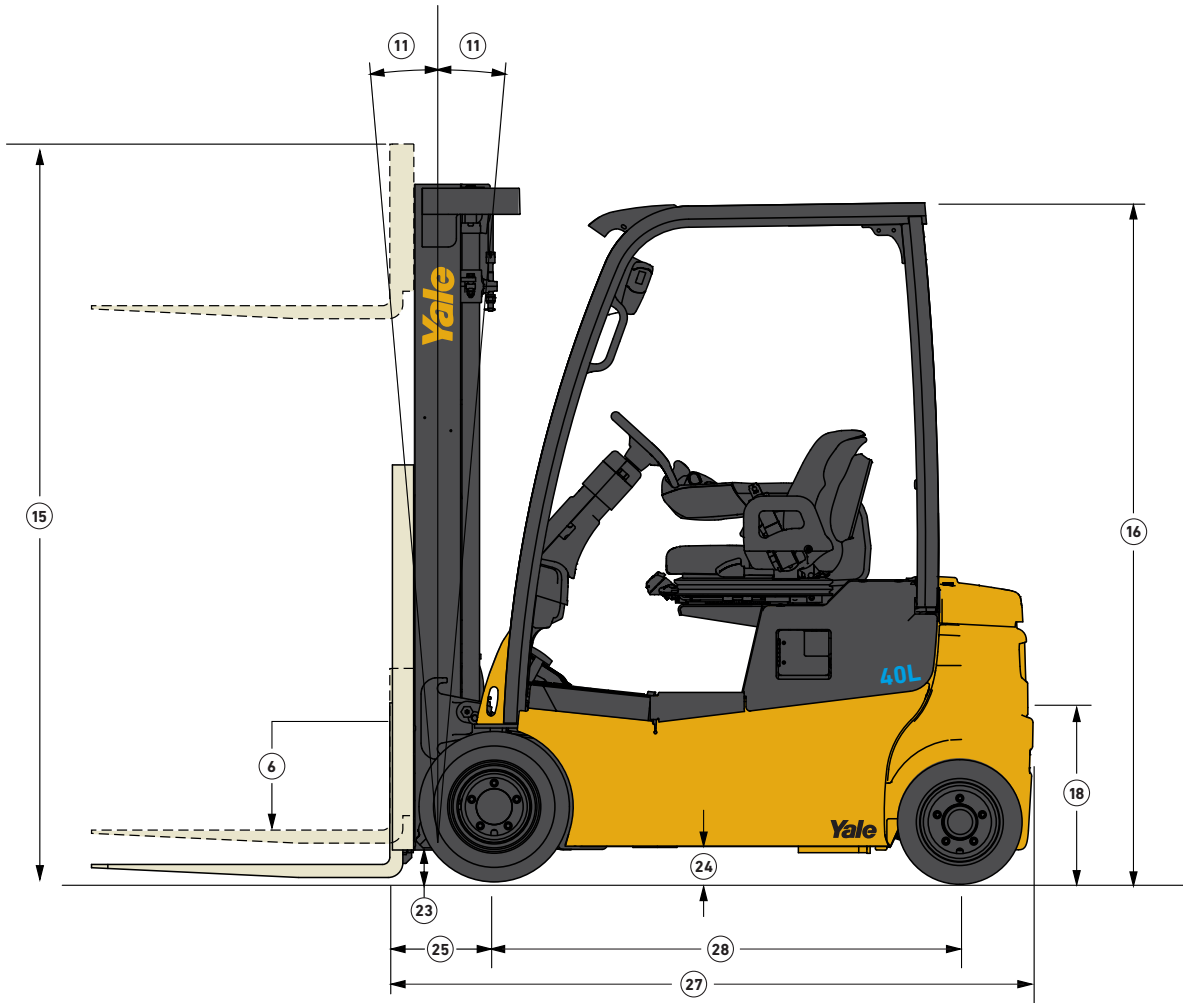
4-Wheel Electric Forklift



SPEC SHEET

Model: ERP040VFL

TRUCK DIMENSIONS - ERP040VFL



GENERAL SPECIFICATIONS ERP040VFL

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)		200/50-10 / 140/55-9		
	9	Wheels - Number X= Driven (Drive/Steer)		2x / 2		
	10	Tread - Center of Tires (Drive/Steer)		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	Ground Clearance	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 Minue Rating (NL/RL)	%	9.2 / 5.6	
37	Drawbar Pull	5 Minutes Rating	lbf.	2480 / 2410 (11025 / 10715)		
		60 Minue Rating (NL/RL)	lbf.	730 / 660 (3260 / 2950)		
38	Brake	Method of Control (Service/Parking)		Hydraulic / Mechanical		
		Method of Operation (Service/Operation)		Foot / Automatic		
ELECTRICS	39	Battery	Type	Lithium		
	40	Dual Voltage Battery	Size (Discharge / Charge)	48V @ 420Ah		
	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)	
	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		
OTHER	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	

MAST DIMENSIONS - ERP040VFL

Maximum Fork Height (TOF) +	Overall Lowered Ht.	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)

The below 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

Run time is from 100% to Lift-Lock out.

Charge time is from Lift-Lock out to 100%.

BATTERY RUN TIME - ERP040VFL

		Battery Size
		20.1 kWh
Application	Heavy	3h 45m
	Medium	5h 15m
	Light	7h 15m

BATTERY CHARGE TIME - ERP040VFL

		Battery Size
		20.1 kWh
Charge Size	30 kW	45m
	20 kW	1h 15m
	15 kW	1h 30m
	10 kW	2h 15m
	5 kW	4h 15m

FEATURES LIST - ERP040VFL

PERFORMANCE	STD	OPT	ERGONOMICS continued	STD	OPT
48-volt electrical system	•		Battery side covers	•	
Dual Voltage Lithium Battery Technology	•		On-board software (Program, test & diagnose / password protected)	•	
AC tractions and pump motors (completely brushless)	•		Electronic horn with integral relay (long life / no adjustments)	•	
Hydrostatic steer system	•		Non-suspension cloth seat		•
Transistor drive and pump control	•		Full-suspension seat (vinyl or cloth)		•
Advanced VSM (Vehicle System Manager)	•		Full-suspension swivel seat (vinyl or cloth)		•
Dual drive motors	•		Seatside directional control		•
Wet disc brakes	•		Telescopic steering column with tilt memory		•
Regenerative braking	•		LED and halogen work light packages		•
DRIVE	STD	OPT	LED dome / reading light		•
Pneumatic-shaped solid drive tire and steer tire	•		Rear dive handle with horn button		•
Rubber cushion smooth tread drive tire and steer tire		•	Mirrors - dual rear view - LH & RH OHG side mounted		•
LIFT	STD	OPT	Mirror - single panoramic - OHG mounted		•
2-Stage limited free lift (LFL) mast with maximum fork height of 119"	•		low mount display		•
5 forward / 5 back mast tilt	•		OPERATION	STD	OPT
2-Stage full free lift mast		•	Standard environmental construction	•	
3-Stage full free lift mast		•	Key switch start	•	
4-Stage full free lift mast		•	81.5" grid style overhead guard	•	
Mast tilt option - 10F / 5B		•	3-function hydraulic valve	•	
Mast tilt option - 5F / 4B		•	Full integrated CANbus communication	•	
HANDLING	STD	OPT	Cooler / Freezer package: operating temperature 0F to +120F		•
38.5" wide Class II carriage with 48" high load backrest extension	•		SubZero freezer package: operating temperature -40F to +120F		•
42" (1067mm) long forks	•		4-function hydraulic control valve		•
Carriage with integral sideshift		•	77.9" flat plate overhead guard		•
Carriage with integral sideshifting forkpositioner		•	81.5" drive-in rack grid style overhead guard		•
Return to set tilt		•	Keyless start (with auxiliary key switch)		•
Hydraulic attachment extension tubes with or without quick disconnect fittings		•	Basic and premium LED brake / tail / back-up light packages		•
Load weight indicator		•	Key switch controlled lights		•
ERGONOMICS	STD	OPT	Audible alarm - reverse operation (manually adjustable to 87, 97 or 102 dB)		•
MONOTROL foot direction control	•		Visible amber strobe light - continuous activated, overhead guard mounted		•
TouchPoint hydraulic mini-levers	•		Fire extinguisher - 2.5lb dry chemical		•
12" steering wheel with integral spinner knob and tilt column	•		impact monitor		•
Vinyl non-suspension seat	•		operator password start interlock		•
Black, non-cinch seat belt with Emergency Locking Retractor (ELR)	•		operator daily checklist		•
Automatic park brake	•		system monitor - hydraulic low fluid level indicator and hydraulic filter service indicator		•
Power assist braking	•		Programmable maintenance reminder		•
On-demand hydrostatic power-assist steering	•		Synchronous steering		•
Auto Deceleration System (ADS)	•		Red, high-visibility, non-cinch seat belt with or without start interlock		•
Multifunction display (and all its sub features)	•		Yale Reliant™		•
Easy ingress/egress with low step height and contoured handhold	•		SUPPLEMENTAL	STD	OPT
Operator convenience station	•		84 month / 12,000 hour lithium-ion battery warranty	•	
Adjustable tilt steering column with low profile cowl	•		Operating manual	•	
Operator Presence System (OPS)	•		12 month / 2,000 hour full truck warranty	•	
Cushioned floormat	•		36 month / 6,000 hour powertrain warranty	•	
Static strap	•				
Tow pin	•				
Seatside power disconnect button	•				

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