

# LPX40

4,000 LB. CAPACITY

INTEGRATED LITHIUM-ION PNEUMATIC TIRE FORKLIFT



**SPECIFICATIONS**



## **AN ELECTRIC FORKLIFT MADE TO THRIVE OUTSIDE.**

Want to eliminate fuel and engine maintenance costs but need to work outdoors? This is the solution. The LPX40 features large tires and plenty of ground clearance for outdoor applications where internal combustion forklifts used to dominate. Big Joe's purpose-built integrated Lithium-ion forklift, available with a full cab and heater, allows operations to go electric without sacrificing productivity or operator comfort.

## FEATURES



### **Integrated Lithium: Power that Means Business**

The UL-recognized Lithium-ion battery is designed and manufactured by Big Joe, in our state-of-the-art, automated facility to deliver the highest levels of quality, durability and reliability. The battery pairs seamlessly with the truck, requiring no additional displays, connection ports, power buttons or other complications. Simply buckle up, turn the key, release the parking brake and go.

### **Charging Made Easy**

Every LPX40 forklift comes standard with an onboard charger that plugs into a typical single-phase 120V or 240V wall outlet, allowing you to recharge almost anywhere. For operations that require faster charge rates, external chargers that conveniently connect to the truck's integrated charge port are available.

### **Operator Compartment - Your Employee's Office**

The operator reaps the benefits of a wide-open operator compartment, large step, chamfered hood and natural operating position, all thanks to the integrated design of the battery. For operators accustomed to internal combustion forklifts, LPX40 feels natural.

### **Smooth and Efficient Hydraulic Controls**

Ergonomic controls are within easy reach of the operator and allow for smooth, precise load control. Available fingertip controls, paired with Big Joe's electro-hydraulic control valve, maximize comfort for the operator. Energy efficiency is optimized since the hydraulic pump only activates when flow is needed and utilizes proportional control. Optional fingertip controls maximize operator productivity and support an upright posture for the operator.

## FEATURES

### Advanced Electrical System

Big Joe AC controller technology delivers high performance efficiently while significantly reducing maintenance costs and extending the vehicle's service life. The battery management system continuously monitors performance during operation and charging to optimize the battery's service life.



### A Drivetrain for High Productivity and Low Operating Cost

A permanent magnet AC drive motor delivers efficiency and fine inching control when precision matters. This same system delivers responsive torque and smooth acceleration when it's time to get moving. Regenerative motor braking recharges the battery, while drum brakes provide additional brake performance when needed. Operators working outside can appreciate the lack of a hot, noisy engine under the seat. Business owners can appreciate the lack of fuel costs and not needing to worry about unexpected—and expensive—engine breakdowns.



### Remote Work Isn't Just for the Office

LPX40 comes standard with a digital LCD display that enables wireless programming and diagnostics via Bluetooth or the standard Pulse telematics system. Pulse includes cloud-based maintenance monitoring, GPS tracking and related data services. When maintenance is required, features like a gas-spring assisted hood, removable floorplates and covers, and a design philosophy centered on simplicity help make the technician's job easier.



### Pulse Telemetry for Operational Insights

LPX40 comes standard with 5 years of Big Joe Pulse telematics that track key utilization metrics like key-on time, energy consumption, error codes and recharging patterns. This data can help spot missed opportunities for recharging, identify peak usage times and monitor the health of your equipment.



# RUN TIMES

## Power to Get the Job Done

Run times in the tables below are provided as a guide and do not account for all factors that may affect run time. It is highly recommended to perform a power study to more accurately determine your battery size and charging needs. Big Joe forklifts with integrated Lithium-ion batteries come standard with telematics that enable monitoring of truck run time, charge time, energy usage, and many other data points. This information can help you to make the most of your equipment and drive down operating costs.

## Tailored to Your Specific Needs

Based on experience helping customers electrify their fleets and take advantage of the benefits of integrated Lithium-ion, Big Joe has categorized applications into three main types to help estimate run time:

Light Duty	Light duty applications, in terms of energy usage, account for a large portion of customer use cases. These are applications with level surfaces - where the truck typically handles 50% or less of its rated capacity.
Medium Duty	Medium duty applications are very common and involve handling loads that typically exceed 50% of the truck's rated capacity. There may be occasional: <ul style="list-style-type: none"><li>• Operation up and down ramps</li><li>• Lifting to upper rack heights</li><li>• Use of attachments such as fork positioners and multi-pallet handlers (i.e. single-doubles)</li></ul>
Heavy Duty	Heavy duty applications are not as common and include frequent: <ul style="list-style-type: none"><li>• Operation up and down ramps</li><li>• Handling loads at or near the truck's capacity</li><li>• Lifting to upper rack heights</li><li>• Use of heavy duty attachments (clamps, rotators, push-pulls and turrets)</li></ul>

## Stay Up and Running

The forklift's digital display includes a clear and easy-to-read battery indicator that shows current state of charge. This helps operators to know exactly how much charge remains and remember to recharge as planned. And thanks to Big Joe's progressive warning system, the operator will be alerted should the battery state of charge fall too low. A lift interrupt and multiple levels of traction speed reduction help give the operator plenty of time to get to a charger without fear of over-discharging the battery.

Run Time <sup>1</sup>		Application Intensity		
	Battery Capacity (kWh)	Light Duty	Medium Duty	Heavy Duty
LPX40	18.4	9h 0m	Contact your local authorized dealer. Big Joe can help with a power study and demo to determine your specific needs.	
	36.8	18h 15m		

1. Run times are provided for purposes of estimating battery and charger requirements and are not a guarantee. Run times are from fully-charged battery to lift interrupt. Actual run times vary widely based on truck duty cycle, ambient conditions and other factors. A product demo and/or power study are highly recommended.

# CHARGE TIMES



## Flexible Charging That Works for You

Thanks to the in-house design and expertise of Big Joe, the charger, battery and forklift work seamlessly together. Big Joe’s UL-certified chargers automatically adjust power based on the state of the battery in order to minimize charge time while optimizing the battery’s overall service life.

For flexible charging, various offboard chargers, also called “wall chargers,” are available. A power study is recommended in order to select the optimal battery and charger combination for your application’s unique needs. For convenience, all LPX40 models include a charge port for offboard power, accessible without opening the hood or removing panels.

Regardless of which charger you pick, the design is plug and play. That means minimal operator training and input is needed to keep your operation running smoothly.

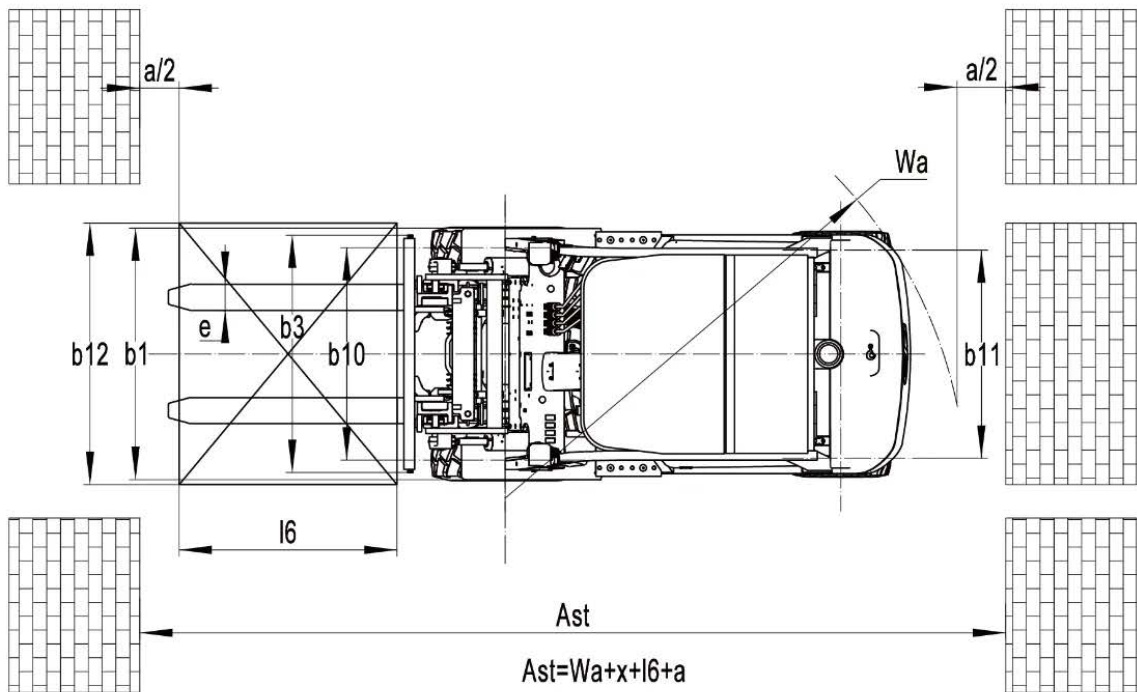
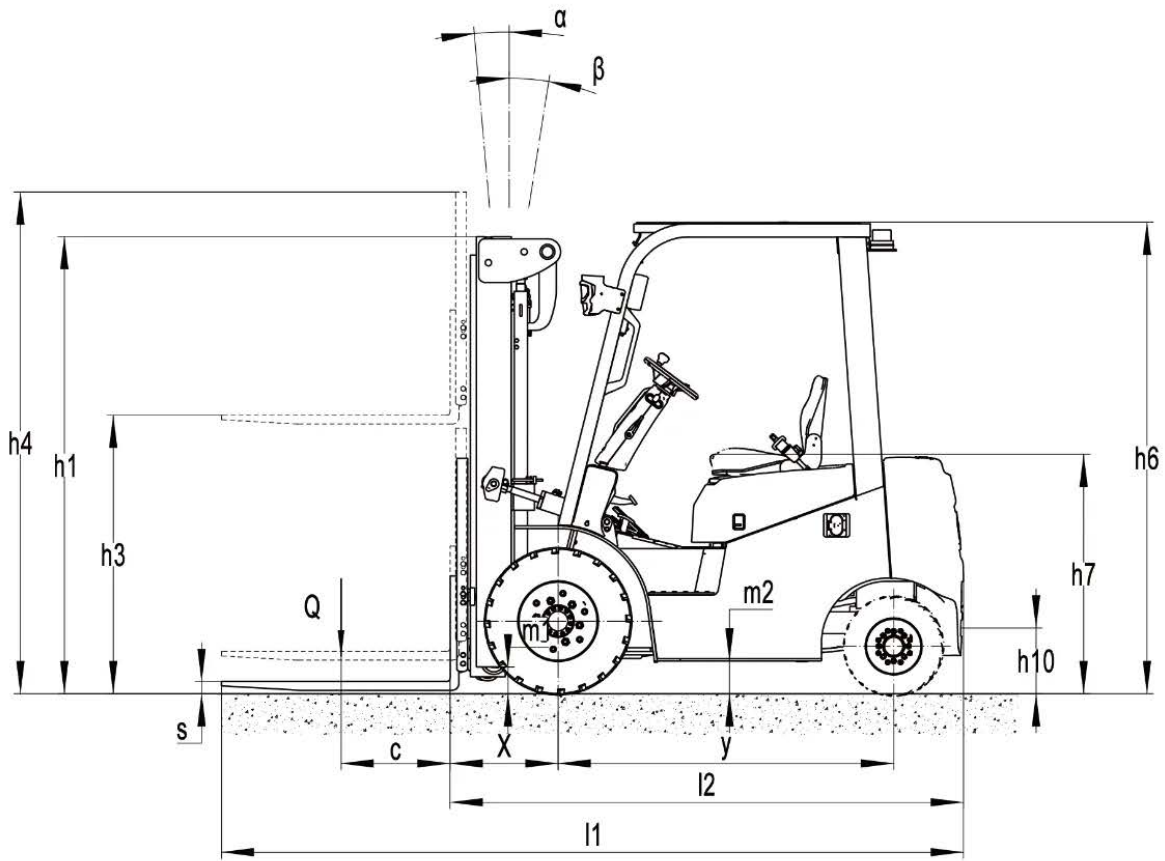
Charge Times <sup>2</sup>		
Charger Output Power (kW)	18.4kWh Battery	36.8kWh Battery
16.0	2h 0m	2h 0m
8.0	2h 0m	4h 0m
2.8	5h 45m	11h 15m
1.2	13h 0m	26h 0m

Charger Specifications				
Charger Option	Input Voltage (VAC)	Input Current (A)	Output Current (A)	Output Power (kW)
Onboard single-phase 120V/240V charger	120 / 240	15	15 / 35	1.2 / 2.8
Offboard three-phase 240V, 100A charger	208-240	35	100	8.0
Offboard three-phase 480V, 100A charger	480	15	100	8.0
Offboard three-phase 480V, 200A charger	480	36	200	16.0
Offboard three-phase 600V, 100A charger <sup>1</sup>	600	12	100	8.0
Offboard three-phase 600V, 200A charger <sup>1</sup>	600	20	200	16.0

<sup>1</sup> Chargers with 600VAC input for Canada market only.

<sup>2</sup> Charge times shown are estimates only and represent charging under ideal conditions and proper power supply to the charger. Charge times are based on recharging from lift interrupt to fully-charged.

# DIAGRAMS



# SPECIFICATIONS

Distinguishing mark	1.1	Manufacturer			Big Joe
	1.2	Model designation			LPX40
	1.3	Drive			Electric
	1.4	Operator type			Seated
	1.5	Load capacity	Q	lb.	4000
	1.6	Load center distance	c	in.	24
	1.8	Load distance, center of drive axle to fork	x	in.	19.5
	1.9	Wheelbase	y	in.	60.6
	Service weight	2.1	Service weight		lb.
2.2		Axle loading, laden (front / rear)		lb.	10480 / 1340
2.3		Axle loading, unladen (front / rear)		lb.	3620 / 4190
Tires/chassis	3.1	Tire type			Pneumatic
	3.2	Tire size, front			7.00-12
	3.3	Tire size, rear			18x7-8
	3.5	Wheels, number (front/rear) x=drive wheels			2x / 2
	3.6	Tread width, front	b10	in.	38.4
	3.7	Tread width, rear	b11	in.	37.6
	Dimensions	4.1	Tilt of mast/fork carriage forward/backward	$\alpha / \beta$	°
4.2		Retracted mast height	h1	in.	89.2
4.3		Free lift w/o LBR	h2	in.	42.8
4.4		Lift height	h3	in.	189
4.5		Height, mast extended w/LBR	h4	in.	237
4.7		Height of overheard guard (cabin)	h6	in.	85.2
4.8		Seat height / standing height	h7	in.	43.1
4.12		Tow coupling height	h10	in.	12.2
4.20		Length to face of forks	l2	in.	92.8
4.21		Overall width	b1/b2	in.	45.4
4.22		Fork dimensions	s x e x l	in.	1.6 x 4.8 x 42
4.23		A, B fork carriage class / type A, B			2A
4.24		Fork carriage width	b3	in.	40.9
4.31		Ground clearance, laden, below mast	m1	in.	4.9
4.32		Ground clearance, center of wheelbase	m2	in.	5.9
4.34.1		Right angle stack aisle width <sup>1</sup>		in.	102.6
4.35		Turning radius	Wa	in.	83.1
Performance Data	5.1	Travel speed, laden/unladen		mph	11.8 / 12.4
	5.2	Lifting speed, laden/unladen		fpm	94.5 / 106.3
	5.3	Lowering speed, laden/unladen		fpm	84.6 / 86.6
	5.8	Max gradeability, laden/unladen		%	22 / 28
	5.10	Service brake			Hydraulic
	5.11	Parking brake			Mechanical
Electric	6.1	Drive motor rating S2 60min		kW	15
	6.2	Lift motor rating at S3 15%		kW	16
	6.4.1	Battery capacity <sup>2</sup>		kWh	36.8
	6.4	Battery voltage / nominal capacity <sup>2</sup>		V/Ah	80 / 460
Additional	10.1	Operating pressure for attachments		psi	2750
	10.2	Oil flow for attachments		gpm	10
	10.5	Steering design			Hydraulic

<sup>1</sup> Basic right angle stack (add load length and clearance).

<sup>2</sup> Alternate battery sizes available. See Standard and Optional Equipment list.

# MAST SPECIFICATIONS

LPX40												
Mast Type	Overall Dimensions (in.) <sup>1</sup>										Rated Capacity (lb.) at 24" Load Center <sup>2</sup>	
	Lift Height (Top of Forks)	Lowered Height	Extended Height				Free Lift Height					
			no LBR	40.9" LBR	48" LBR	60" LBR	no LBR	40.9" LBR	48" LBR	60" LBR	Carry Height	Max Fork Ht
3-Stage Full Free Lift	177.2	85.0	207.9	213.2	225.2	237.2	57.1	50.7	38.7	26.7	4000	4000
	189.0	89.2	230.5	225.0	237.0	249.0	61.2	54.8	42.8	30.8	4000	3750 <sup>2</sup>
	196.9	92.5	238.0	232.9	244.9	256.9	64.6	58.2	46.2	34.2	4000	3750 <sup>2</sup>



1. LBR = Load Backrest Extension, measured from top face of fork to top of LBR
2. Rated capacities shown with standard equipment. Removing hang-on sidershifter increases capacity at Max Fork Height by 250 lb. Additional lift heights available by request.

# STANDARD/OPTIONAL EQUIPMENT

Electrical System	80V electrical system	●
	Weather-resistant IPX4 rating, suitable for most outdoor use	●
	Permanent magnet AC motor drive system w/ regenerative braking	●
	Brushless AC hydraulic pump motor	●
	Transistor motor controllers with infinite speed control	●
	Corner speed control	●
Battery and Charging	UL-Recognized 36.8kWh (80V / 460 Ah) integrated lithium-ion battery	●
	UL-Recognized 18.4kWh (80V / 230Ah) integrated lithium-ion battery	○
	Onboard 1.2kW / 2.8kW battery charger for use with 120V / 240V AC single-phase power (15A / 35A)	●
	320A DIN connector for offboard charging	●
	UL-Certified external 1.2kW / 2.8kW battery charger for use with 120V / 240V AC single-phase power (15A / 35A)	○
	UL-Certified external 8kW battery charger for use with 208V / 220V / 240V AC three-phase power (100A)	○
	UL-Certified external 8kW battery charger for use with 480V AC three-phase power (100A)	○
	UL-Certified external 16kW battery charger for use with 208V / 220V / 240V AC three-phase power (200A)	○
	UL-Certified external 16kW battery charger for use with 480V AC three-phase power (200A)	○
	Pulse telemetry system with data monitoring and over-the-air programming, 5 years	●
Drive System	Dry drum service brakes	●
	Foot-applied / foot-released parking brake lever	●
	Power-assisted steering	●
Wheels & Tires	Pneumatic-shaped solid drive tires	●
	Non-marking pneumatic-shaped solid drive tires	○
Front End Equipment	3-stage full free-lift mast	●
	Mast tilt: 6° forward 6° backward	●
	Mast tilt: 10° forward 6° backward	○
	Hook type carriage	○
	Hook type integral sideshifting carriage	○
	Hook type carriage with hang-on sideshifter	●
	Hook type carriage with hang-on sideshifter and fork positioner	○
	1.8 x 4.8 x 42 in. hook type standard taper forks	●
	1.8 x 4.8 x 48 in. hook type standard taper forks	○
	1.8 x 4.8 x 60 in hook type standard taper forks	○
1.8 x 4.8 x 72 in hook type standard taper forks	○	
48" high load backrest	●	
60" high load backrest	○	

Hydraulics	3-way hydraulic control valve	○
	4-way hydraulic control valve	●
	1 auxiliary hose group	○
	2 auxiliary hose group	●
	2 auxiliary hose extension kit for use with attachments (assembly required)	○
	Quick disconnect (qty 2) kit for use with auxiliary hose extension kit	○
	Cowl-mounted mechanical hydraulic control levers	●
	Fingertip hydraulic control levers	○
	Clamp interlock (required for installation of clamping attachments)	○
	Automatic tilt leveling <sup>1</sup>	○
Operator Compartment	3-way adjustable full-suspension vinyl seat	●
	Grammer MSG65-531 full-suspension vinyl seat	○
	Entry assist grab handle	●
	Rear grab handle with integrated horn button	●
	Cup holder	●
	Digital LED display with Bluetooth service connectivity	●
	Steering wheel with integrated spinner knob	●
	12V accessory charging port	●
	Polycarbonate rain top	○
	Full steel cab with heater	○
Lights and Alarms	LED light package (headlights, brake lights, turn signals)	●
	LED strobe light	●
	Rear-facing blue spot light	●
	Front-facing blue spot light	○
	Back-up alarm	●
	Self-adjusting back-up alarm	○
	Horn	●
	White noise sound generator (always on)	○
	Left and right red side curtain lights	○
	84 months / 12,000 hours - Integrated lithium-ion battery warranty	●
Warranty	36 months / 6,000 hours - Frame & powertrain warranty	●
	24 months / 4,000 hours - Full truck warranty	●

<sup>1</sup> Automatic tilt leveling only available with fingertip hydraulic controls

- Standard
- Optional



Established in 1951, Big Joe is a customer-driven North American material handling equipment company. We distribute innovative products for in-between-handling applications, purpose-built counterbalanced lithium forklifts, and market-leading autonomous solutions. Based in Madison, Wisconsin, we provide engineering expertise, customer service, aftermarket parts, and warranty support to our extensive dealer network and customers.



Certification: Big Joe lift trucks are built in compliance with ANSI B56.1 and OSHA section 1910.178(A)(2). Lift trucks specifications are subject to change without notice. Any specifications critical to the intended application of the forklift should be reviewed with your Big Joe dealer. Images may show optional equipment not available in all regions.



630-916-2600  
[sales@bigjoeforklifts.com](mailto:sales@bigjoeforklifts.com)  
[bigjoeforklifts.com](http://bigjoeforklifts.com)

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