

# **BIG JOE** LCE50 **RANGER**

## 5,000 lb. 4-wheel Cushion Counterbalance Forklift



### CAPACITY

5,000 lbs. at 24" load center

### BATTERY

80v UL-recognized 230Ah / 460Ah Li-Ion battery capable of fast charging without the need for regular maintenance or facility infrastructure such as eye wash stations or charging ventilation.

### PERFORMANCE

- Travel - 8.7 mph empty / 8.1 mph loaded
- Lift - Up to 126 fpm empty / Up to 120 fpm loaded
- Lowering - Up to 98 fpm empty / loaded

### TIRES

Front 21x7-15 cushion

Rear 16x6-10.5 solid pneumatic

### OPERATOR COMPARTMENT

The operator compartment is exceptionally spacious due to the purpose-built design for an integrated lithium battery to improve ergonomics and reduce operator fatigue. A large mirror and overhead guard-mounted handrail aids the operator when driving in reverse. The platform provides a high-resolution LED display installed in the upper right corner of the cabin. At a glance, the operator can view speed, directional status, battery state-of-charge, hour meter, and more.

### HYDRAULICS

The hydraulic steering system achieves precise and responsive operation, has a simple and reliable structure, and has low maintenance costs.

### ELECTRICAL

80v AC controller technology delivers high efficiency and performance while significantly reducing maintenance costs and extending vehicle service life. The battery management system monitors lithium battery performance during operation and charging to help extend battery service life far longer than traditional lead-acid industrial batteries.

### DRIVE UNIT AND BRAKES

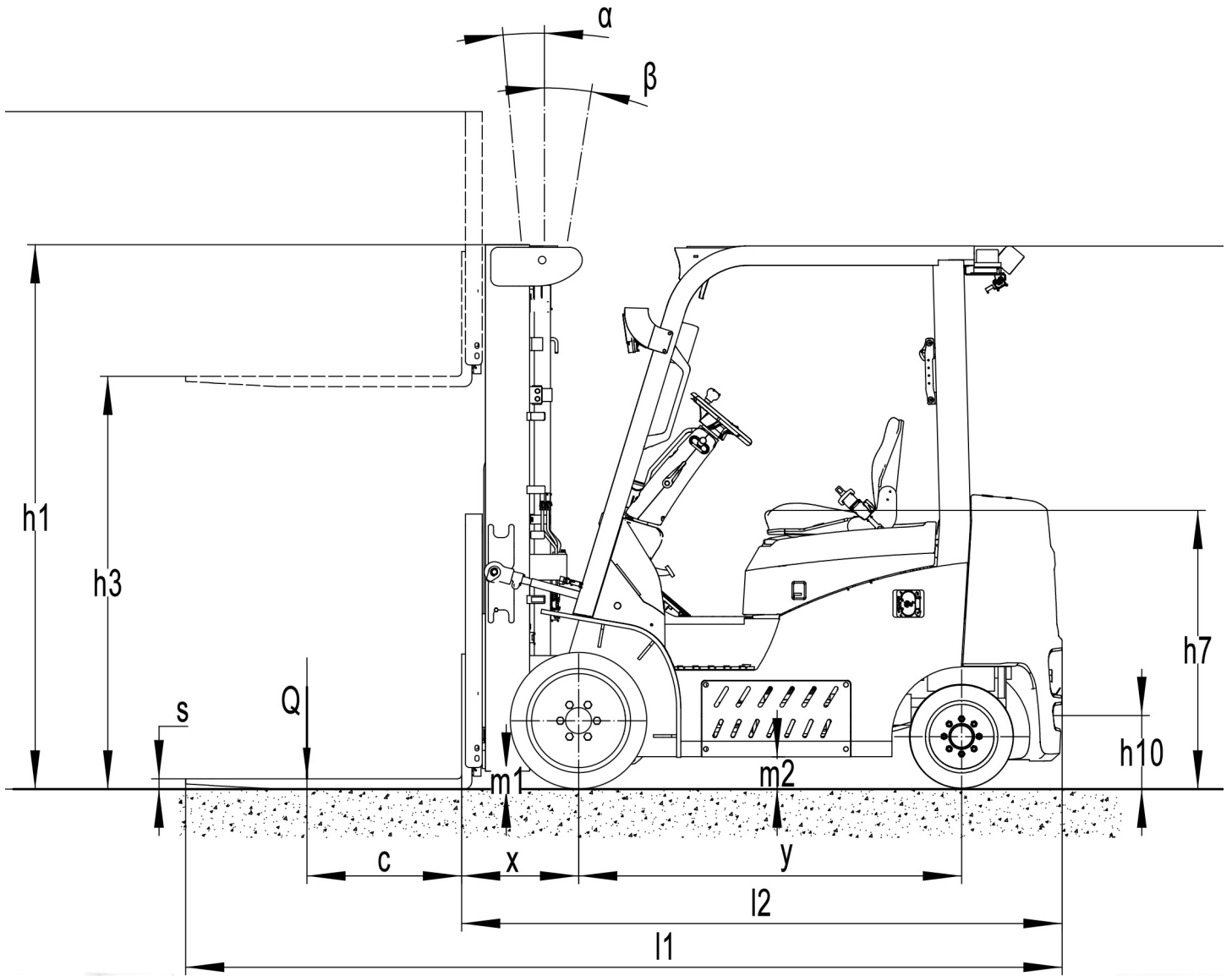
An AC drive motor delivers smooth torque and speed curves matched to vehicle needs in real time for peak efficiency and performance. Regenerative neutral braking extends the duty cycle. The vehicle's hydraulic drum brakes ensure effective stopping power during operation and when on rated grades.

### FRAME AND MAST

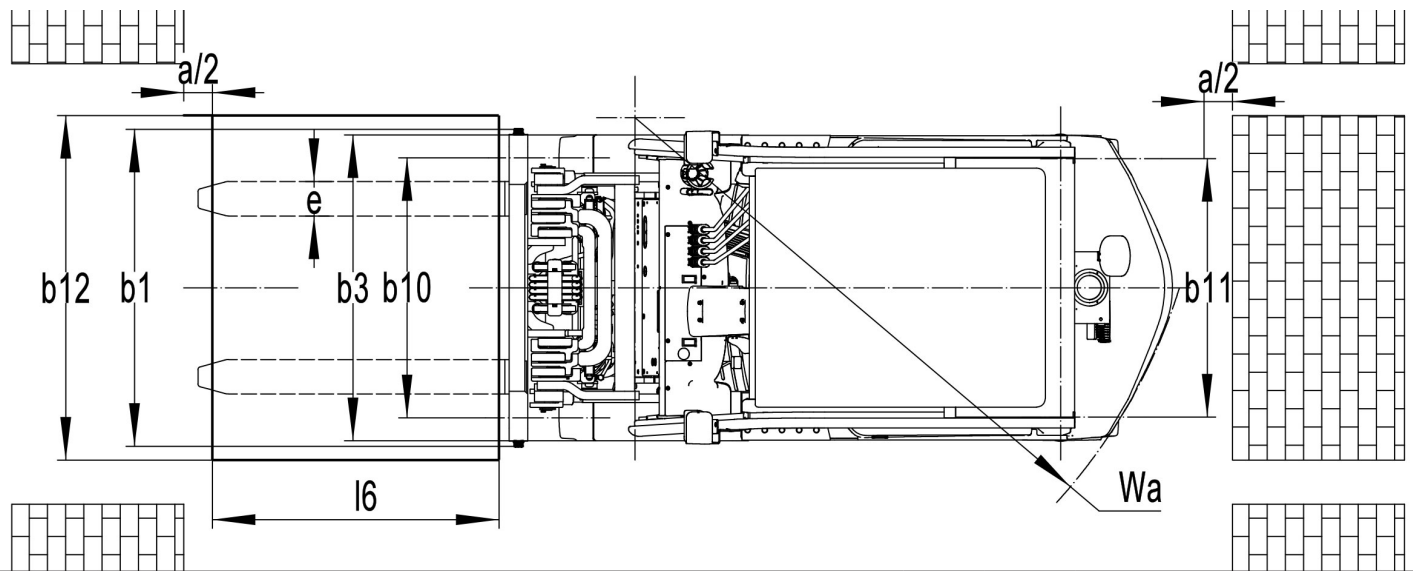
Heavy-duty steel chassis features a long wheelbase, wide tires, and a low center of gravity for stable operation.

### SERVICEABILITY

The onboard programmable display allows for troubleshooting and system adjustments without needing tools. Units can be optionally outfitted with a telematics system that includes cloud-based maintenance monitoring, GPS tracking, and related data services.



Distinguishing Marks	Model			LCE50
	Drive			Electric
	Operator type			Seated
	Load capacity	Q	lb.	5000
	Load center distance	c	in.	24
	Load distance center of drive axle to fork	x	in.	17.9
	Wheelbase	y	in.	58.5
Service Weight	Service weight		lb.	9240
	Axle loading, laden front/rear		lb.	11536/3120
	Axle loading, unladen front/rear		lb.	4396/5102
Tires & Chassis	Tire type			Cushion
	Tire size, front			21x7-15
	Tire size, rear			16x6-10.5
	Wheels, number front/rear (x=drive wheels)		in.	2x/2
	Tread width, front	$b_{10}$	in.	35.6
	Tread width, rear	$b_{11}$	in.	35.6



Dimensions	Tilt of mast/fork carriage forward/backward	$\alpha/\beta$	°	6/5
	Retracted mast height	$h_1$	in.	82.5
	Free lift	$h_2$	in.	34.5
	Lift height	$h_3$	in.	189
	Height, mast extended	$h_4$	in.	237
	Height of overhead guard (cabin)	$h_6$	in.	83.1
	Seat height/standing height	$h_7$	in.	42.9
	Tow coupling height	$h_{10}$	in.	10.6
	Overall length	$l_1$	in.	133.8
	Length to face of forks	$l_2$	in.	91.7
	Overall width	$b_1/b_2$	in.	41.9
	Fork dimensions	$s \times e \times l$	in.	1.57*4.8*42
	A,B Fork carriage class/type A, B			2A
	Fork carriage width	$b_3$	in.	40.9
	Ground clearance, laden, below mast	$m_1$	in.	3.95
	Ground clearance, center of wheelbase	$m_2$	in.	4.3
	Right Angle Stack= $X + Wa$ . (Add load length + Clearance)		in.	144.3
	Turning radius	$Wa$	in.	78.4
Performance	Travel speed, laden/unladen		mph	8.1/8.7
	Lifting speed, laden/unladen		fpm	120/126
	Lowering speed, laden/unladen		fpm	98/98
	Max. gradeability, laden/unladen		%	15/16
Brakes	Service brake			Hydraulic
	Parking brake			Mechanical
Components	Drive motor rating S2 60 min		kW	8.5
	Lift motor rating at S3 15%		kW	26
	Battery voltage/nominal capacity		V/Ah	80V/230 or 80V/460
	Battery weight		lb.	650
	Type of drive control			AC
Additional data	Operating pressure for attachments		PSI	2750
	Oil flow for attachments		gpm	8.5-16
	Steering design			Hydraulic
	Sound pressure level at the driver's ear		dB(A)	70
	Charger output current		A	15, 35, 100, 155

## STANDARD FEATURES

- Rear Blue light
- Headlights, Brake Lights, Turn Signals, Warning Light
- Telematics
- Back up alarm
- Rear Grab Bar with Horn
- Cushion Tires
- Adjustable suspension seat with armrests
- Integral side shifter with 3-function hydraulics
- 189" Mast 3-Stage with Free Lift
- 42" Forks
- 42" Load Backrest
- 80V460ah Li-Ion UL Recognized Battery
- Accessory on-board Power/Charging
- Cup Holder
- LED Display with Bluetooth Connectivity
- Rearview mirror
- IPX4 Rating
- Hydraulic Oil Cooler
- Curve Control Speed Reduction

## OPTIONAL EQUIPMENT

- 197" Mast 3-Stage with Free Lift
- 82" 2-Stage Truckers Mast
- 258" 4-Stage Mast with Integral Side Shifter 3-function hydraulics
- 48" Forks
- 48" LBR
- 60" LBR
- No Side Shifter with 4-function hydraulics
- Hang-on Side Shifter with 4-function hydraulics
- Side Shifting Fork Positioner with 4-function hydraulics
- LED Rear Light
- Front Blue Light
- Red Curtain Lights
- Non-Marking Tires
- 80V230ah Li-Ion UL Battery
- Internal 120/240VAC Charger 15/35A output
- External 120/240VAC Charger 15/35A output
- External Charger 480VAC 3ph Input, 100A Output
- External Charger 480VAC 3ph Input, 155A Output



Learn more at [bigjoeforklifts.com](http://bigjoeforklifts.com)  
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### Certification

All units are built to be in compliance with ANSI B56.1 and the Occupational Safety & Health Act (OSHA). Big Lift LLC will not assume liability for injuries or damage arising from, or caused by, the removal of any safety devices from their vehicles by user. Because of the Big Lift LLC continuing product improvements, specifications are subject to change without notice.