



CAT® Lift
Trucks

3,000-4,000 LB CAPACITY 3-WHEEL ELECTRIC LIFT TRUCKS

Quality

Reliability

Customer Service

With rugged and durable design features engineered for performance, the ET3000–ET4000 series of 3-wheel electric lift trucks improves material handling productivity in a full range of demanding manufacturing environments. These trucks offer the quality and reliability advantages you've come to expect from a Cat® lift truck.

Whether you're handling costly materials or shipping products on a grueling schedule, these highly maneuverable trucks offer the functionality you need to stay competitive. With service intervals up to 500 hours, and the most comprehensive dealer support in the industry, they deliver life-cycle performance in a compact package that combines strength, speed, and durability with a contemporary new design.



MODEL NUMBER	BASE CAPACITY AT 24 IN. LOAD CENTER (LB)	BATTERY COMPARTMENT L x W x H (IN)
ET3000	3,000	20.9 x 40.0 x 24.8
ET3500	3,500	24.9 x 40.0 x 24.8
ET4000	4,000	24.9 x 40.0 x 24.8

* Truck shown contains some optional equipment. Contact an authorized Cat lift truck dealership for the most up to date information about equipment availability and lift truck specifications.

Everything You've Come To Expect.



Nobody Does It Better

The standard features on this family of lift trucks include several features, as listed below. Be sure to ask your Cat lift truck dealer about the many options available to customize your ET3000-ET4000 lift trucks:

Comfort/Convenience

- Full suspension vinyl seat with operator restraint system
- Hand-operated direction control
- Tilt steering column
- Hand-operated double-action park brake
- Anti-cinch seat belt
- Anti-slip rubber floor mat

Performance/Reliability

- 100% Alternating Current (AC) truck design
- 36/48 volt MicroCommand™ AC control system
- Independently controlled dual AC drive motors
- AC hydraulic/power steering motor
- Transistor Hydraulic Control
- Regenerative braking / Auto-regenerative braking
- Five-level pre-programmed performance mode selector
- Premium display panel read-out features:
 - Five-digit hour meter for truck, drive, and pump
 - Run-time fault indicator
 - Programmable service indicator
 - Park brake audible and visible warning
 - Brake fluid level warning light
 - Seat belt audible and visible warning
 - Speedometer
 - Real-time clock
 - Battery Discharge Indicator (BDI) with drive speed reduction and lift interrupt

Construction/Quality

- UL Type E approval
- SB battery connector
- Battery retainer
- Tilt cylinders with spherical bushings
- Over-temperature protection (pump motor, drive motor, and control panel)
- Three-section hydraulic control valve
- High-strength mast and carriage designs
- Narrow mast channels
- Overhead guard
- Cowl-mounted hydraulic levers
- Operator Presence Detection System (PDS)
- Electronic back-up alarm
- Lugged electric compound drive and steer tires

Service/Support

- Truck fault history with storage of up to 32 fault codes
- Up to 500-hour service intervals

Great Maneuverability In Tight Spaces

These 3-wheel electric trucks combine maneuverability and quick travel speeds with the ability to perform in a variety of applications. These trucks are also ideal for loading and unloading trailers or for general warehouse use.

APPROXIMATE AISLE WIDTH (IN)	MINIMUM WORKING AISLE (IN)	CAPACITY RANGE (LB)
Stand-Up End Control	123.0 - 128.5	3,000 - 5,000
ET3000 - ET4000 Series	128.5 - 134.0	3,000 - 4,000
4-Wheel Sit-down Electric	139.0 - 150.5+	3,000 - 6,500+

* Based on 48 in. load length and minimum operating clearance of 6 in.



Lift With Less Deflection

Good visibility of the forks, loads, and surrounding environment helps to ensure the security of your operators and your materials. These trucks offer a wider view between the mast channels than many competitive trucks. In addition, the deeper channel webs allow the use of larger load rollers, providing the strength and rigidity necessary to handle heavy loads. A unique cross-member design provides torsional rigidity to minimize mast deflection.



conveniently located grab bar further improves access. The heavy-duty floor mat is slip resistant and designed for durability in rugged applications.

Standard Protection

The advanced Cat Lift Trucks operator Presence Detection System (PDS) helps protect your operator and your loads by initiating a series of protective actions if your operator leaves the normal seated operating position:

- The drive function is temporarily disengaged.
- Power temporarily disconnects from the hydraulic lift and tilt functions.
- In addition, if the operator has not applied the parking brake, the parking brake alarm will sound.

When your operator returns to the normal seated operating position, a buzzer will sound to remind him to fasten his seat belt.

PRESENCE DETECTION SYSTEM

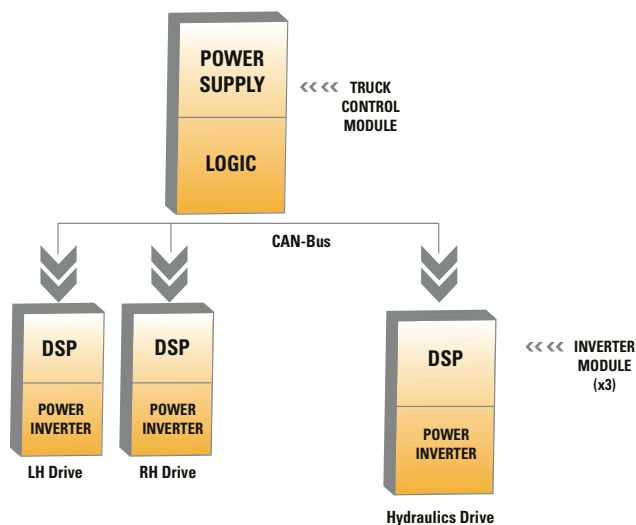


100 Percent AC Power

These reliable trucks come equipped with transistor hydraulic control, which provides improved energy efficiency and quiet operation while reducing the potential for heat build-up during demanding hydraulic applications, such as the use of lift truck attachments. In addition, the pump motor, drive motor, and control panel feature individual thermal protection systems to guard against overheating.



MicroCommand™ AC



AC Systems Optimize Productivity

To optimize the productivity and energy efficiency of your material handling operations, reliable AC technology powers the drive, hydraulic, and steering systems. These dependable vehicles offer exceptional performance, with faster travel speeds and quicker lift/lowering speeds to keep you moving at peak capacity.

The innovative MicroCommand™ AC control system, featuring advanced MOSFET and thermal management technology, optimizes the productivity and energy efficiency of your material handling operations. A modular design separates the main logic unit and power supply from the power inverter and Digital Signal Processing (DSP) card, simplifying servicing by enabling the replacement of individual components. In addition the ET3000-ET4000 family uses many of the same components and the intelligent diagnostic software interface used by other Cat lift truck families.



The Power And Speed You Need

These dependable AC lift trucks offer superior lift, lower and travel speeds. The ET3000 delivers powerful lifting up to 98 feet per minute (fpm) loaded or 118 fpm empty, and lowering speeds up to 102 fpm loaded or 98 fpm empty, for excellent material handling productivity. For applications requiring long travel distances, this same truck delivers travel speeds as high as 10.6 mph.



Indicators Keep Operators Informed

To maximize the uptime of your material handling fleet, these trucks include LCD displays of the battery state of discharge; hour meters for the drive motor, pump motor, and vehicle; vehicle speed and error codes. In addition, the Light Emitting Diode (LED) section of the display panel provides indicators for service due, seat belt, overheating, battery low, brake fluid level, parking brake, and fault detection.

Diagnostics Improve Serviceability

Whether conveniently accessed via the display panel or using a laptop computer, the fault history folder is quickly accessible and provides the service technician access to 32 fault codes. This allows for a more efficient troubleshooting and truck monitoring session, and helps reduce the overall downtime of the truck.

The Industry's Most Comprehensive Support

Your investment is protected with a Cat Lift Trucks one-year/unlimited-hours warranty and the industry's only freight-inclusive Parts Fast/Parts Free program. We also offer our Free Loaner Service Guarantee. As with all Cat lift trucks, the ET3000-ET4000 series of 3-wheel electric lift trucks are supported with a comprehensive package of professional dealer services and a network of regional parts distribution centers.

Double The Service Interval For Half The Routine Maintenance Costs

In comparison with many competitive models that typically offer 250-hour service intervals, these 3-wheel lift trucks come with service intervals up to 500 hours. If you run your trucks 8 hours a day with a conventional 250 hour service interval, they'll require Planned Maintenance (PM) every six weeks. With our trucks, you double the time between service intervals up to twelve weeks, while cutting your predictable downtime and PM costs in half!

Battery Information

BATTERY COMPARTMENT SIZE		ET3000		ET3500		ET4000	
Length	in mm	20.9	530	24.9	634	24.9	634
Width	in mm	40.0	1,016	40.0	1,016	40.0	1,016
Height	in mm	24.8	630	24.8	630	24.8	630
BATTERY WEIGHT							
Minimum	lb kg	1,910	870	2,200	1,000	2,200	1,000
Maximum	lb kg	2,400	1,090	2,700	1,227	2,700	1,227
BATTERY SPECIFICATIONS							
Connector Position		B		B		B	
Lead Length	in mm	20.0	508	20.0	508	20.0	508



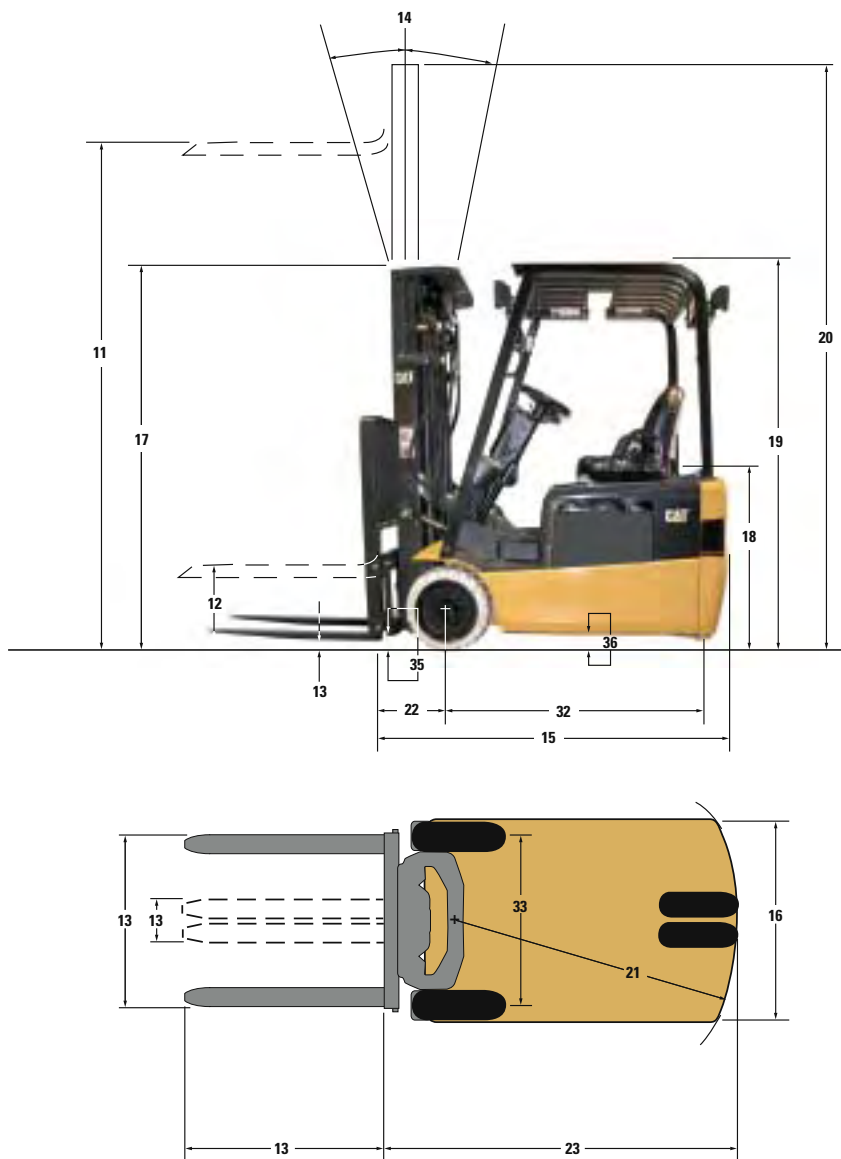


Specifications

CHARACTERISTICS				ET3000				
1	Capacity	at rated load center		lb	kg	3,000	1,600	
2		at load center -- distance		in	mm	24.0	500	
3	Power	diesel, gasoline, LP gas, electric				electric		
4	Tire type	cushion, pneumatic				cushion		
5	Wheels (x = driven)	number front / rear				2x / 2.0		
DIMENSIONS								
10	Lift	maximum fork height with rated load		in	mm	188	4,790	
11	Lift with standard two-stage mast	maximum fork height		in	mm	130	3,300	
12		free fork height		in	mm	4.5	115	
13	Forks	thickness x length x width		in	mm	1.4x42.0x3.9	35.0x1,070x100	
	Fork spacing	out-to-out minimum / maximum		in	mm	9.4/36.0	240/918	
14	Tilt	forward / backward				6.0/7.0		
15	Overall dimensions	length to fork face		in	mm	74.5	1,895	
16		width	standard	in	mm	42.0	1,070	
			w/ wide stance drive wheels	in	mm	n / a		
17		height	with lowered mast	in	mm	83.0	2,105	
18			seat height to SIP	in	mm	42.5	1,082	
19			to top of overhead guard	in	mm	80.5	2,040	
20			with extended mast	in	mm	179	4,550	
21	Minimum outside turning radius			in	mm	59.5	1,515	
22	Load moment constant			in	mm	14.8	376	
23	Minimum aisle - 90° stack – zero clearance w/o load			in	mm	74.5	1,893	
PERFORMANCE								
24	Speeds	travel loaded / empty	36V	mph	km/h	9.4/10.6	15.1/17.0	
			48V	mph	km/h	10.6/10.6	17.0/17.0	
25		lift speed loaded / empty	36V	fpm	m/s	79.0/110	0.4/0.56	
			48V	fpm	m/s	98.0/118	0.5/0.6	
26	lowering speed loaded / empty	36V	fpm	m/s	102/98.0	0.52/0.5		
		48V	fpm	m/s	102/98.0	0.52/0.5		
28	Gradeability	loaded at 1 mph (1.6 kph)	36V	%		13.0		
			48V	%		27.0		
		maximum empty	36V	%		30.0		
			48V	%		35.0		
WEIGHT								
29	Empty	w/ minimum weight battery		lb	kg	6,800	3,090	
30	Axle load	with rated load	front	lb	kg	9,200	4,175	
			rear	lb	kg	1,140	515	
		without load	front	lb	kg	3,300	1,500	
			rear	lb	kg	3,500	1,590	
CHASSIS								
31	Tire size	front, standard cushion tires		in	mm	18.0x7.0x12 1/8	457x178x308	
		rear cushion tires		in	mm	15.0X5.0X11 1/4	381x127x286	
32	Wheelbase			in	mm	51.5	1,305	
33	Tread width	front, standard cushion tires		in	mm	35.0	894	
34		rear cushion tires		in	mm	6.7	170	
35	Ground clearance	at lowest point at mast		in	mm	2.9	75.0	
36		at center of wheelbase		in	mm	3.9	100	
37	Brakes	service			type	foot-operated, hydraulic		
38		parking			type	hand-operated, mechanical		
POWER TRAIN								
39	Battery	type				lead-acid		
40		maximum capacity		Ah	kWh	950	34.2	
41		at 6 hr. discharge rate		Ah	kWh	770	37.0	
42		weight, minimum		lb	kg	1,910	865	
43	Motors	traction output (60 min. rating) x 2		HP	kW	6.7	5.0	
44		lift output (15% rating)		HP	kW	18.7	14.0	
45	Controls	drive			type	AC Transistor		
46		hydraulic				AC Transistor		
47	Relief pressure	for attachments at auxiliary		psi	bar	2,250	155	
48	Noise level	mean value at operator's ear		dB(A)		69.2		

ET3500		ET4000	
3,500	1,800	4,000	2,000
24.0	500	24.0	500
electric		electric	
cushion		cushion	
2x / 2.0		2x / 2.0	
188	4,790	171	4,350
130	3,300	130	3,300
4.5	115	4.7	120
1.4x42.0x3.9	35.0x1,070x100	1.6x42.0x3.9	40.0x1,070x100
9.4/36.0	240/918	9.4/36.0	240/893
6.0/7.0		6.0/7.0	
78.5	1,995	80.2	2,035
42.0	1,070	42.0	1,070
n / a		n / a	
83.0	2,105	83.0	2,105
42.5	1,082	42.5	1,082
80.5	2,040	80.5	2,040
179	4,550	179	4,550
64.0	1,620	65.0	1,645
14.8	376	15.4	392
78.5	1,996	80.0	2,037
8.9/10.6	14.4/17.0	8.5/10.6	13.7/17.0
10.6/10.6	17.0/17.0	10.6/10.6	17.0/17.0
69.0/110	0.35/0.56	67.0/110	0.34/0.56
87.0/118	0.44/0.6	79.0/118	0.4/0.6
102/98	0.52/0.5	102/98.0	0.52/0.5
102/98	0.52/0.5	102/98.0	0.52/0.5
12.0		11.0	
25.0		23.0	
28.0		26.0	
35.0		35.0	
7,250	3,290	7,750	3,520
9,900	4,500	10,700	4,870
1,300	590	1,430	650
3,500	1,590	3,550	1,610
3,750	1,700	4,200	1,910
18.0x7.0x12 1/8	457x178x308	18.0x7.0x12 1/8	457x178x308
15.0X5.0X11 1/4	381x127x286	15.0X5.0X11 1/4	381x127x286
55.5	1,410	55.5	1,410
35.0	894	35.0	894
6.7	170	6.7	170
2.9	75.0	2.9	75.0
3.9	100	3.9	100
foot-operated, hydraulic		foot-operated, hydraulic	
hand-operated, mechanical		hand-operated, mechanical	
lead-acid		lead-acid	
950	34.2	950	34.2
770	370	770	370
2,200	1,000	2,200	1,000
6.7	5.0	6.7	5.0
18.7	14.0	18.7	14.0
AC Transistor		AC Transistor	
AC Transistor		AC Transistor	
2,250	155	2,250	155
69.2		68.5	

Call-out numbers shown in the diagram correspond to the first column of the specifications chart.



SAFETY STANDARDS

These trucks meet American-Society of Mechanical Engineers (ASME) B56.1, part III Safety Standards for powered industrial trucks.

UL-Classified by Underwriters Laboratories, Inc., as to fire and electric shock hazard only. Types E, EE (optional), Industrial Trucks.

Users should be aware of, and adhere to, applicable codes and regulations regarding operator training, use, operation and maintenance of powered industrial trucks, including:

- ASME B56.1, part II.
- NFPA 505, fire safety standard for powered industrial trucks - type designations, areas of use, maintenance and operation.
- Occupational Safety and Health Administration (OSHA) regulations that may apply.

Specifications, equipment, technical data, photos and illustrations based on information at time of printing and subject to change without notice. Some products may be shown with optional equipment.

NOTE: These specifications assume the use of drive axles, tires and tilt angles specified. Any modification to specifications, or any other combination of specifications made after the shipment of the truck, requires prior written approval from Mitsubishi Caterpillar Forklift America Inc. ("MCFA"). Consult your dealer for further information.

Quality

Reliability

Customer Service

Unlimited Hours Warranty covers parts and labor for one year, regardless of service hours.

Parts Fast or Parts Free Guarantee ensures next-business-day availability (at dealer's location) of parts for all lift trucks or they are free, including freight.

Free Loaner Service Guarantee provides a lift truck until the repair is done if your lift truck is not repaired right the first time and within the quoted time.

Contact your Cat lift truck dealer for complete terms and conditions of these guarantees.

Cat Lift Trucks offers an extensive range of products and services. Your Cat lift truck dealer can provide options and additional visual and audible warning devices geared toward your specific applications and requirements. Operator training programs are also available to boost productivity and to help reduce the potential for product damage and personal injury.

Your Cat lift truck dealer can also provide a variety of financing and leasing options to suit the needs of your business.

Everything
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1-800-CAT-LIFT
www.cat-lift.com