

Electric Cushion Tire Lift Trucks

Capacity: 4,500-6,500 lb



EC22N2-EC30LN2 Series

Cat® lift trucks set the standard for the ultimate lifting experience. Exceptional comfort, durable construction and industry-leading customer service make these trucks the only choice for your material handling needs. The new line of 4,500 – 6,500 lb. electric cushion tire lift trucks follows in that tradition, with a wide range of standard features and application options to meet your needs.

Ergonomics. The spacious, comfortable cabin will help your operators stay productive and relaxed during the busy workday. Hydraulic levers conveniently located next to the operator’s seat allow the operator’s arm to rest in a natural, relaxed position when operating the controls.

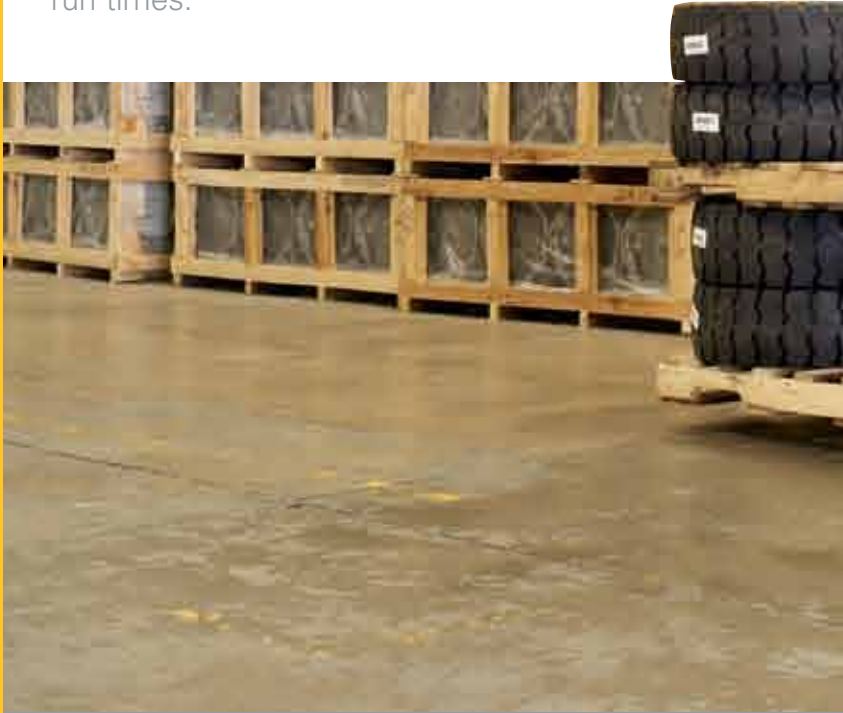
Informative. The large, easy-to-read multifunction display panel provides essential lift truck performance information to the operator, including travel speed and battery discharge.

Visibility. The wide-view mast, strategically-placed hydraulic cylinders and lift chains maximize forward and side visibility. The operator’s seat is offset from the centerline of the truck to enhance visibility of the fork tips. The low-profile sideshifter (optional) enhances fork tip visibility when double-stacking loads.

Model	Capacity (lbs)								
	4,500	4,750	5,000	5,250	5,500	5,750	6,000	6,250	6,500
EC22N2									
EC25N2									
EC25EN2									
EC25LN2									
EC30N2									
EC30LN2									

More Power, Less Energy

The motors and advanced Microcommand Alternating Current (AC) Power System on these lift trucks deliver high performance while being extremely efficient. One way this is accomplished is by matching the motor speed to the job at hand. The operator, the two-stage hydraulic system and the AC motor all work in unison to determine the optimum motor speed, resulting in reduced energy consumption and longer run times.



Rock-Solid Frame

To ensure maximum paint adhesion and to help protect your investment, these lift trucks feature an all-welded, box frame that is protected with a powder-coat paint finish baked on at 385° F.



Strength begins with a sturdy foundation

QUALITY



Operator Compartment

To help maximize operator comfort, the EC22N2-EC30LN2 Series comes equipped with an adjustable steering column, a small diameter steering wheel, a three-way adjustable full-suspension seat and an elongated grab bar.



Comfortable for even the longest shifts

Premium Display Panel

The standard, easy-to-read LED/LCD display panel includes seat belt warning, mast interlock and reduced travel speed indicators. Maintenance reminders are also displayed on the panel, helping to keep the operator informed of routine service needs as they arise.



Optimized display panel helps raise awareness

RELIABILITY

Powerful Technology

The EC22N2-EC30LN2 Series is built to maximize uptime. From the low-maintenance components to the high-efficiency systems, these lift trucks will spend their time on what matters most – moving product.



Optimized Visibility

With a wide view between the mast channels, these lift trucks are designed to provide increased visibility to the forks, load and surrounding area.



Increased visibility

Effortless Serviceability

Long service intervals and simplified maintenance helps to ensure downtime is kept to a minimum. With easy-to-remove access panels, the hydraulic motors, steer motors and AC control components are within easy reach.



Minimized service time



Same Power, Less Noise

The low-noise powertrain allows the EC22N2–EC30LN2 Series of electric lift trucks to maintain optimum power levels while operating quietly and efficiently.



Low-noise powertrain

Performance At Your Fingertips

The fingertip directional control lever makes changing travel directions effortless. Efficient regenerative braking charges the battery when utilized — allowing operators to work longer on one battery charge.



Directional control lever

Smart Technology

The Presence Detection System (PDS) is built to help protect the operator. If the operator is out of the seat, the traction motor is electrically set to neutral, the hydraulic functions are interrupted, and an audible warning is activated.



Presence Detection System

CUSTOMER SERVICE

Delivering Real Material Handling Solutions

A Cat lift truck purchase connects you to a variety of material handling solutions, including world-class service and support from the best dealer network in the industry.

Cat Lift Trucks also offers the most comprehensive support programs in the industry. Highly-skilled service technicians, diverse parts inventory and an outstanding selection of service options, all help to reduce your total cost of ownership and keep your lift trucks performing at their best.



Dealers You Can Depend On

With hundreds of dealer locations throughout North and South America, Cat lift truck dealers provide more than lift trucks. From flexible financing options, to parts, service and product support, our dealers are unsurpassed.



Professionals you can depend on

Standing Behind Our Products

We deliver peace of mind by helping your trucks stay on the job, day after day. Every new Cat lift truck is covered by a 1-year/2,000 hours warranty that includes parts and labor, as well as components and systems. With our standard 2-year/4,000 hours extended powertrain warranty, you'll have the confidence that only comes from owning a Cat lift truck.



Keeping you covered



Parts Fast Or Parts Free*

The Parts Fast Or Parts Free Guarantee ensures next-business-day delivery of all Cat lift truck parts, or they're free, including freight. If your part doesn't come in by the next business day, we pay for it.



Parts when you need them

Genuine OEM Parts

When you buy from your local dealer, you can be assured that your OEM part is manufactured to meet original equipment criteria. Additionally, all Cat lift truck OEM parts come with a six-month, unlimited-hours warranty.



Genuine Cat Lift Truck OEM parts

Flexible Financing Options*

Financing your next Cat lift truck is easy with our wide range of flexible leasing and purchasing options. Whether you want to finance or lease, your local Cat lift truck dealer can help customize a package tailored to your specific needs.



Custom financing packages

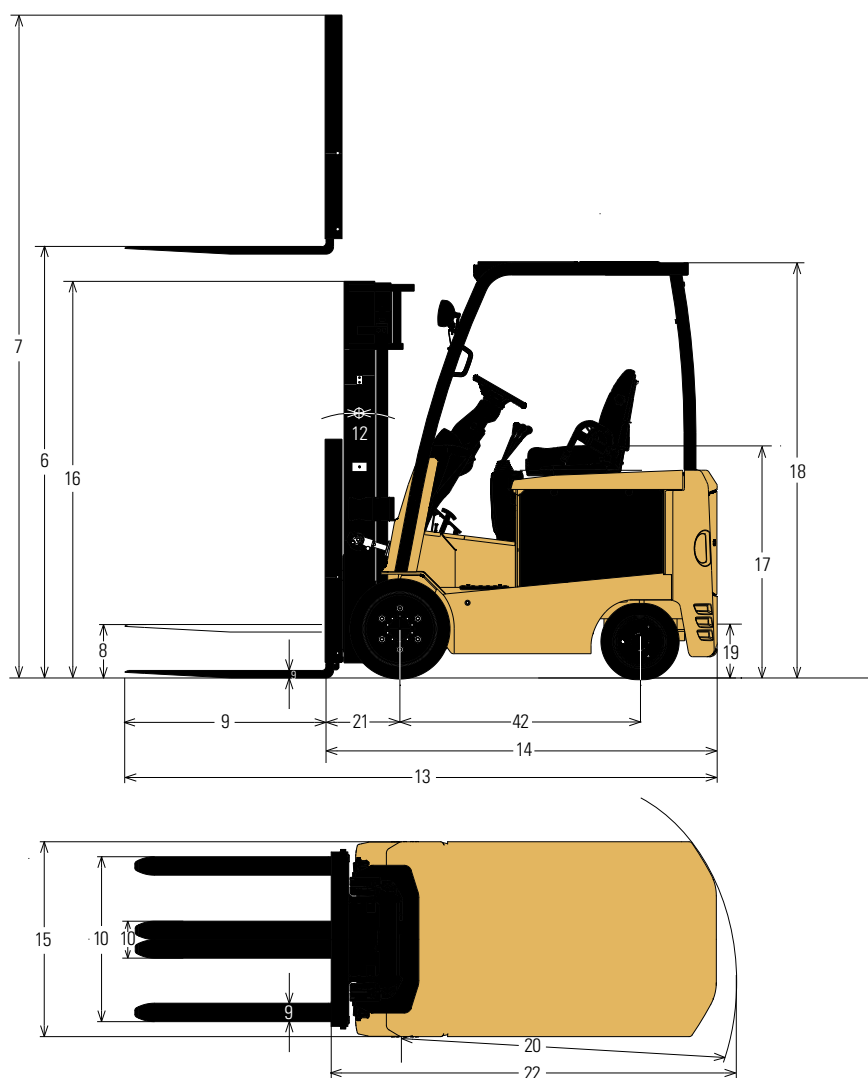
* Programs may be subject to change without notice and may vary by region. Please ask your local Cat lift truck dealer for complete terms and conditions.

Characteristics					EC22N2		EC25N2			
1	Capacity	at rated load center		lb	kg	4,500	2,300	5,000	2,500	
2		at load center – distance		in	mm	24	500	24	500	
3	Power	diesel, gasoline, LP gas, electric				electric		electric		
4	Tire type	cushion, solid pneumatic				cushion		cushion		
5	Wheels (x=driven)	number front / rear				2x / 2		2x / 2		
Dimensions					EC22N2		EC25N2			
6	Lift height			in	mm	131	3,340	131	3,340	
7	Overall height with mast raised			in	mm	180	4,564	180	4,564	
8	Free lift					5.1	130	5.1	130	
9	Forks	length x width x thickness		in	mm	42 x 3.9 x 1.6	1,070 x 100 x 40	42 x 3.9 x 1.6	1,070 x 100 x 40	
10	Fork spacing	out-to-out minimum / maximum		in	mm	9.7 / 35	246 / 893	9.7 / 35	246 / 893	
11	Fork carriage to DIN 15 173 A / B / no					ITA Class II		ITA Class II		
12	Tilt	forward / backward		deg		5.0° / 5.0°		5.0° / 5.0°		
13	Overall dimensions	overall length (with 42" long forks)		in	mm	124.1	3,152	124.1	3,152	
14		length to fork face (includes fork thickness)		in	mm	82.0	2,082	82.0	2,082	
15		overall width		in	mm	41.5	1,055	41.5	1,055	
		overall width with wide stance tires		in	mm	43.5	1,103	43.5	1,103	
16		height	to top of lowered mast		in	mm	83.5	2,110	83.5	2,110
17			seat height to SIP		in	mm	49.5	1,257	49.5	1,257
18			to top of overhead guard		in	mm	87.0	2,210	87.0	2,210
19			drawbar pin height		in	mm	11	282	11	282
20	Minimum outside turning radius			in	mm	73.2	1,860	73.2	1,860	
21	Load distance, axle to fork face			in	mm	15.5	394	15.5	394	
22	Minimum aisle – 90° stack - zero clearance without load			in	mm	88.7	2,254	88.7	2,254	
Performance					EC22N2		EC25N2			
23	Speeds	travel speed	loaded / empty (36 volt)		mph	km/h	9.6 / 10.8	15.5 / 17.4	9.6 / 10.8	15.5 / 17.4
24			loaded / empty (48 volt)		mph	km/h	11.3 / 11.3	18.2 / 18.2	11.3 / 11.3	18.2 / 18.2
25		lift speed	loaded (36 volt)		fpm	m/s	71	0.36	69	0.35
26			empty (36 volt)		fpm	m/s	106	0.54	106	0.54
27		lift speed	loaded (48 volt)		fpm	m/s	94	0.48	89	0.45
28			empty (48 volt)		fpm	m/s	128	0.65	128	0.65
29		lowering speed	loaded		fpm	m/s	98	0.50	98	0.50
30			empty		fpm	m/s	98	0.50	98	0.50
31	Gradeability	loaded at 1 mph (1.6 kmh) (36 volt)		%		27		25		
32		loaded at 1 mph (1.6 kmh) (48 volt)		%		27		26		
33		maximum (empty) (36 volt)		%		24		23		
34		maximum (empty) (48 volt)		%		24		23		
Weight					EC22N2		EC25N2			
35	Empty	with minimum weight battery		lb	kg	8,805	3,995	9,140	4,145	
36	Axle load	with rated load	front	lb	kg	12,260	5,560	12,930	5,865	
37			rear	lb	kg	1,620	735	1,720	780	
38		without load	front	lb	kg	3,650	1,655	3,570	1,620	
39			rear	lb	kg	5,160	2,340	5,565	2,525	
Chassis					EC22N2		EC25N2			
40	Tire size	front		in		21 x 7 x 15		533 x 178 x 381	21 x 7 x 15	533 x 178 x 381
41		rear		in		16 x 5 x 10.5		406 x 127 x 267	16 x 6 x 10.5	406 x 152 x 267
42	Wheelbase			in	mm	50.4	1,280	50.4	1,280	
43	Track width	front (center of tires)		in	mm	34.5	875	34.5	875	
44		rear (center of tires)		in	mm	35.8	909	34.8	884	
45	Ground clearance	at lowest point at mast		in	mm	3	76	3	76	
46		at center of wheelbase		in	mm	4.9	124	4.9	124	
47	Brakes	service		type		foot-operated, hydraulic		foot-operated, hydraulic		
48		parking		type		hand-operated, mechanical		hand-operated, mechanical		
Electrical					EC22N2		EC25N2			
49	Battery	type			lead-acid		lead-acid			
50		capacity at 6 hr. discharge rate (36 volt)		Ah	kWh	1,320	48	1,320	48	
51		capacity at 6 hr. discharge rate (48 volt)		Ah	kWh	990	48	990	48	
52		weight, minimum		lb	kg	2,600	1,180	2,600	1,180	
53		weight, maximum		lb	kg	3,530	1,600	3,530	1,600	
54	battery compartment size, maximum		in	mm	30.5 x 39.5 x 23.3	775 x 1,003 x 592	30.5 x 39.5 x 23.3	775 x 1,003 x 592		
55	Motors	drive motor capacity (60 min. rating) (36 / 48 volt)		HP	kW	16.1 / 22.1	12 / 16.5	16.1 / 22.1	12 / 16.5	
56		lift output (15% rating) (36 / 48 volt)		HP	kW	16.8 / 29.6	12.5 / 17.3	16.8 / 29.6	12.5 / 17.3	
57	Controls	drive		type		AC transistor		AC transistor		
58		hydraulic		type		AC transistor		AC transistor		
59	Hydraulic pressure for attachments			PSI	Mpa	2,250	15.5	250	15.5	
60	Hydraulic flow rate for attachments			gpm	lpm	22.45	85	22.45	85	

EC25EN2		EC25LN2		EC30N2		EC30LN2	
5,000	2,500	5,500	2,500	6,000	3,000	6,500	2,950
24	500	24	600	24	500	24	600
electric		electric		electric		electric	
cushion		cushion		cushion		cushion	
2x / 2		2x / 2		2x / 2		2x / 2	
EC25EN2		EC25LN2		EC30N2		EC30LN2	
131	3,340	131	3,340	130	3,315	131	3,345
180	4,564	180	4,564	179	4,536	180	4,566
5.1	130	5.1	130	5.3	135	5.3	135
42 x 3.9 x 1.6	1,070 x 100 x 40	42 x 3.9 x 1.6	1,070 x 100 x 40	42 x 4.9 x 1.8	1,070 x 125 x 45	42 x 4.9 x 1.8	1,070 x 125 x 45
9.7 / 35	246 / 893	9.7 / 35	246 / 893	11.2 / 37.8	285 / 960	11.2 / 37.8	285 / 960
ITA Class II		ITA Class II		ITA Class III		ITA Class III	
5.0° / 5.0°		5.0° / 5.0°		5.0° / 5.0°		5.0° / 5.0°	
128.0	3,252	128.0	3,252	130.2	3,306	130.9	3,325
85.9	2,182	85.9	2,182	88.8	2,236	88.8	2,255
41.5	1,055	43.5	1,103	43.5	1,103	43.5	1,103
43.5	1,103	N/A		N/A		N/A	
83.5	2,110	83.5	2,110	83.5	2,110	88.0	2,230
49.5	1,257	49.5	1,257	49.5	1,257	49.5	1,257
87.0	2,210	87.0	2,210	87.0	2,210	87.0	2,210
11	282	11	282	11	282	11	282
77.3	1,964	77.3	1,964	78.8	2,002	79.5	2,020
15.5	394	15.5	394	16	406	16	406
92.8	2,358	94.8	2,358	96.5	2,408	95.5	2,426
EC25EN2		EC25LN2		EC30N2		EC30LN2	
9.6 / 10.8	15.5 / 174	9.3 / 10.6	15.0 / 170	9.1 / 10.6	14.6 / 171	9.0 / 10.6	14.5 / 171
11.3 / 11.3	18.2 / 18.2	11.3 / 11.3	18.2 / 18.2	11.3 / 11.3	18.2 / 18.2	11.3 / 11.3	18.2 / 18.2
69	0.35	69	0.35	57	0.29	57	0.29
106	0.54	106	0.54	96	0.49	93	0.47
89	0.45	89	0.45	75	0.38	75	0.38
128	0.65	128	0.65	116	0.59	116	0.59
98	0.50	98	0.50	98	0.50	98	0.50
98	0.50	98	0.50	89	0.45	89	0.45
25		24		23		20	
26		25		23		21	
24		24		21		N/A	
24		24		21		N/A	
EC25EN2		EC25LN2		EC30N2		EC30LN2	
9,350	4,240	9,680	4,390	10,635	4,825	11,090	5,030
12,950	5,875	13,285	6,025	14,915	6,765	15,190	6,890
1,905	865	1,905	865	2,335	1,060	2,405	1,090
3,870	1,755	3,805	1,725	3,955	1,795	3,935	1,785
5,480	2,485	5,875	2,665	6,680	3,030	7,155	3,245
EC25EN2		EC25LN2		EC30N2		EC30LN2	
21 x 7 x 15	533 x 178 x 381	21 x 8 x 15	533 x 203 x 381	21 x 8 x 15	533 x 203 x 381	21 x 8 x 15	533 x 203 x 381
16 x 6 x 10.5	406 x 152 x 267	16 x 6 x 10.5	406 x 152 x 267	16 x 6 x 10.5	406 x 152 x 267	16 x 6 x 10.5	406 x 152 x 267
54.3	1,380	54.3	1,380	54.3	1,380	54.3	1,380
34.5	875	35.4	900	35.4	900	35.4	900
34.8	884	34.8	884	34.8	884	34.8	884
3	76	3	76	3	77	3	77
4.9	124	4.9	124	4.9	124	4.9	124
foot-operated, hydraulic		foot-operated, hydraulic		foot-operated, hydraulic		foot-operated, hydraulic	
hand-operated, mechanical		hand-operated, mechanical		hand-operated, mechanical		hand-operated, mechanical	
EC25EN2		EC25LN2		EC30N2		EC30LN2	
lead-acid		lead-acid		lead-acid		lead-acid	
1,540	55	1,540	55	1,540	55	1,540	55
1,100	53	1,100	53	1,100	53	1,100	53
3,100	1,410	3,100	1,410	3,100	1,410	3,100	1,410
3,970	1,800	3,970	1,800	3,970	1,800	3,970	1,800
34.4 x 39.5 x 23.3	875 x 1,003 x 592	34.4 x 39.5 x 23.3	875 x 1,003 x 592	34.4 x 39.5 x 23.3	875 x 1,003 x 592	34.4 x 39.5 x 23.3	875 x 1,003 x 592
16.1 / 22.1	12 / 16.5	16.1 / 22.1	12 / 16.5	16.1 / 22.1	12 / 16.5	16.1 / 22.1	12 / 16.5
16.8 / 29.6	12.5 / 17.3	16.8 / 29.6	12.5 / 17.3	16.8 / 29.6	12.5 / 17.3	16.8 / 29.6	12.5 / 17.3
AC transistor		AC transistor		AC transistor		AC transistor	
AC transistor		AC transistor		AC transistor		AC transistor	
2,250	15.5	2,250	15.5	2,250	15.5	2,250	15.5
22.45	85	22.45	85	22.45	85	22.45	85

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). (See ANSI/ITSDF B56.1.) Also be advised that overall operating visibility may be affected by the mast configuration and mast options of your truck. Therefore, you may need to add ancillary [auxiliary] devices or modify your operating practices. Consult your dealer for further information.

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



Safety Standards

These trucks meet American National Standards Institute/Industrial Truck Standards Development Foundation, ANSI/ITSDF B56.1.

UL-Classified by Underwriters Laboratories, Inc., as to fire and electric shock hazard only. Availability: Type E standard. Types ES and EE optional. Users should be aware of, and adhere to, applicable codes and regulations regarding operator training, use, operation and maintenance of powered industrial trucks, including:

- ANSI/ITSDF B56.1.
- 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.

Contact your Cat lift truck dealer for further information including operator training programs and auxiliary visual and audible warning systems, fire extinguishers, etc., as available for specific user applications and requirements. 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.

ADDITIONAL OPTIONS

Enhance Your Experience

Cat lift trucks come fully equipped with features and options that allow you to get the job done. For those applications that require an extra level of protection for the truck and operator — including wet, dusty, high-shuttle and other harsh environments — Cat Lift Trucks offers several options to further enhance productivity.



Cloth Covered Seat

Ideal for dock and manufacturing applications, these seats are designed to facilitate cooling in warm environmental conditions and also provide greater durability when operators frequently get on and off the truck.

Rear Grab Handle With Horn Button

This option allows the operator to easily access the horn when traveling in reverse, while the ergonomic placement of the rear grab bar creates a secure grip.

Sideshifter

A sideshifter allows for more precise load handling, making it easier to position loads within a warehouse or inside trailers.

Higher Or Lower Height Overhead Guard

These overhead guard options accommodate taller operators, low clearances or special storage racking configurations.

DC/DC Electrical Converter

Operators can utilize additional accessories such as scanners, onboard computer terminals and communication devices with the convenient DC/DC electrical converter.

Foot Directional Control

This option allows for hands-free directional control to accommodate operator preference.





Quality

Reliability

Customer Service

Experienced professionals at your local dealership and on our National Accounts Team can assist you with your lift truck purchase or lease. Your Cat lift truck dealer can provide options and additional visual and audible warning devices geared toward your specific requirements. Operator training programs are also available to boost productivity and to help reduce the potential for product damage and personal injury.



Electric Cushion Tire Lift Trucks

Capacity: 4,500-6,500 lb

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