

# Electric Pneumatic Tire Lift Trucks

Capacity: 1.0 - 3.0 ton







Whether you’re handling costly materials or shipping products on an extremely tight schedule, our trucks offer the functionality you need to stay competitive.

## EP10-30CA Series

The standard equipment on these lift trucks includes several value-added premium features.

- Operator Restrain System (ORS) Standard Seat
  - Easy-to-Read Vacuum Fluorescent Display (VFD) Panel
  - Hour Meter
  - Electric Horn
  - Electric Power Steering
  - Power Mode Selection Switch
  - Back-Up Alarm
  - Head Lights
  - Turn Signal Lamp
  - Well-Positioned Rear Combination Lamps
  - Battery Box
  - Battery Discharge Indicator
  - Overhead Guard
  - Backrest
  - Drawbar Pin
  - Non-Slip Floor Mat
  - Pneumatic Tires
  - AC Control System
  - AC Inverter Control for Traction and Hydraulics
  - Mast and Travel Interlock
  - Regenerative Functions
  - Self Diagnostic System
  - Soft-Landing function of Forks
- Options:
- Fingertip controls
  - AOS preset lifting height memory
  - Cold storage environment
  - Rust resistance specifications
  - Dusty environment
  - Laser beam to guide fork positioning

Model	Capacity (kg) @ 500mm LC	Battery Voltage / Amp Hr (5 hours)
EP10CA	1000	48/330
EP14CA	1350	48/330
EP15CA	1500	48/400
EP18CA	1750	48/400
EP20CA	2000	48/450
EP25CA	2500	48/565
EP28CA	2750	48/565
EP30CA	3000	72/450
EP10HCA	1000	48/330
EP14HCA	1350	48/330
EP15HCA	1500	48/400
EP18HCA	1750	48/400
EP20HCA	2000	48/450
EP25HCA	2500	48/565







When hard-working manufacturing, industrial and commercial applications look for material handling performance, they look to Cat lift trucks. From storage and warehousing to chemical processing and textile mills, our EP-CA series lift trucks offer the reliability advantages required in these demanding applications.



## More Comfort Means Greater Productivity

The seat is ergonomically designed to fit the operator so as to maintain the optimal driving posture. This minimises fatigue even after an extended period of operation. The seatbelt and the “hip restraint bar” protect the operator in case of an accident. The seat is durable and water-resistant for greater comfort.



## Information When It's Needed

The vacuum fluorescent display (VFD) is located in the centre of the operator's compartment to allow quick access to important information. It offers better visibility under direct sunlight and bright conditions when compared to LCD displays. Data on traveling speed, battery discharge status, current time and key-on hours are displayed in real time.



## Added Operator Protection

The advanced Cat Lift Trucks' Mast and Travel Interlock System 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

Neutral Safety System also prevents potential accidents caused by unexpected movement of the lift truck at key-on.

## Programmed To Meet Your Needs

The EP-CA Cat lift truck can be configured to function at a particular power level to suit the required tasks. Eight driving modes can be chosen from the energy-saving “ECONOMY” to the high-performing “POWER” modes according to job requirements. This ensures optimal power is used for the job with superior performance and energy savings.



## Reliability



These trucks help to provide visibility of the forks, loads and surrounding environment.

## More Power With Less Energy

The intelligent Advanced AC provides smooth and efficient power to the traction and hydraulic motors in the EP-CA series lift trucks. With high-capacity motors installed, powerful acceleration even on an upslope is evident and the advanced electronics built-in gives the operator very precise inching control. Noise levels are kept at a minimum for a more productive work environment. Also, the AC motors are brushless for reduced maintenance.



## Diagnostics Improve Reliability

The EP-CA Cat lift trucks integrate many easy-to-maintain features in the truck design. The on-board intelligent system is capable of running self-diagnosis at key-on and any malfunctions are rapidly identified, located and rectified within minutes. Vital components such as the controller, batteries and motors can be quickly accessed with simple tools, thereby effectively reducing servicing and maintenance time.

## Protection Of Load

The EP-CA Cat lift trucks are able to lift heavy goods to high shelves without significant degradation in power and capacity. When lowering loaded pallets, the mast's shock-reduction feature kicks in with soft landing, thereby preventing unnecessary damage to valuable cargo.

## Energy Efficiency

Energy conservation is an important feature that Advanced AC exhibits in the EP-CA Cat lift trucks. Power is ploughed back into the battery during simple activities like braking, plugging or even deceleration through the AC Energy Regeneration System. At rest, the lift truck shuts down automatically after 15 minutes of idling to conserve valuable battery power. This state-of-the-art technology prevents wasteful power consumption.

## Secured Landing With Increased Visibility

You can count on our electrical trucks to help ensure the security of your operators and materials by providing increased visibility of the forks, loads, and surrounding environment. The EP-CA series trucks offer a wider view between the mast channels than many competing trucks.





# Customer Service



Cat Lift Trucks is committed to providing industry-leading customer service, delivered by experienced and reliable material handling dealers. Cat Lift Trucks puts its customer’s needs first, with one of the most comprehensive customer support programs in the business.

## Dearlars You Can Depend On

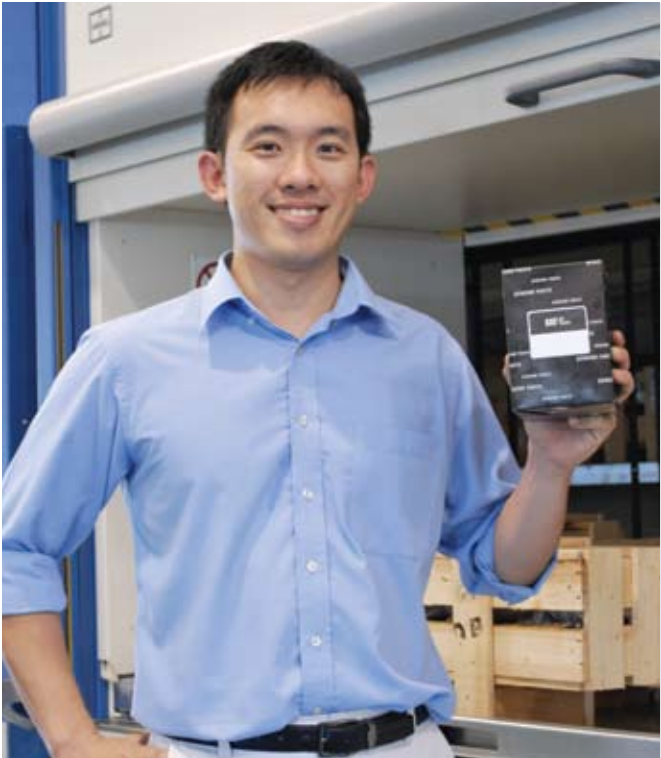
Cat® lift trucks dealers are unsurpassed, delivering superior customer service that sets us apart from the competition — before, during and after the sale.

Our dealers make available leading support programs with every new Cat lift truck you purchase, including:

- Genuine Cat lift truck OEM parts
- Planned Maintenance
- Rental fleet availability
- Convenient dealer branch locations

## Planned Maintenance

Proper maintenance of your truck helps assure top performance over the long haul and helps extend truck longevity. That’s why every Cat lift truck is backed by experienced and reliable dealers who make sure your truck is properly maintained. With Cat lift truck planned maintenance, you won’t have to worry about scheduling maintenance or unexpected downtime. Regular planned maintenance calls are scheduled in advance to avoid interference with your operating schedules. Experienced Cat lift trucks service technicians will regularly perform all periodic maintenance including fluid and lubricant check for a predetermined rate. We’ll even identify and fix potential problems before they become major difficulties.



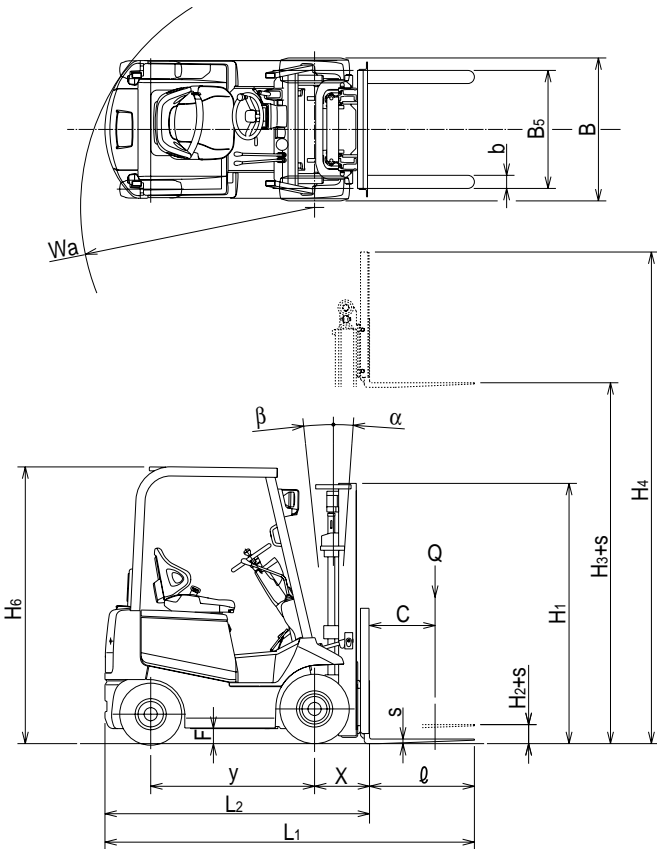
## Lift Plus Powertrain Warranty *(optional)*

Confidence you can depend on — Cat Lift trucks are covered by one of the best powertrain warranties in the business. When you choose a Lift Plus warranty for your new Cat lift truck, you’re getting long term protection against powertrain failures, which guarantees that if any major powertrain component fails, it will be replaced... it’s that simple. And all Lift Plus warranty repair uses only genuine Cat lift truck parts.

With Lift Plus warranty, your investment is covered for 3 years or 5,000 hours, which ever occurs first. If a powertrain failure causes your lift truck to go down, you’re covered.

Specifications

		ITEM	SUMMARY	UNIT	STANDARD SERIES							HIGH PERFORMANCE SERIES							
TYPE	1	Model			EP10CA	EP14CA	EP15CA	EP18CA	EP20CA	EP25CA	EP28CA	EP30CA	EP10HCA	EP14HCA	EP15HCA	EP18HCA	EP20HCA	EP25HCA	
	2	Rated capacity	Q	kg	1000	1350	1500	1750	2000	2500	2750	3000	1000	1350	1500	1750	2000	2500	
	3	Load center	C	mm	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
	4	Operator type			Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated	
DIMENSION	5	Lift height	H <sub>3</sub> +s	mm	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	
	6	Free lift	H <sub>2</sub> +s	mm	145	145	145	145	150	150	155	155	145	145	145	145	150	150	
	7	Tilt angle	For-/Back-ward <F:Down/Up>	α/β	deg.	<Mast> 6/12>	<Mast>6/12>	<Mast>6/12>	<Mast> 6/12>	<Mast> 6/12>	<Mast> 6/12>	<Mast> 6 / 12>	<Mast> 6/12>	<Mast> 6/12>	<Mast> 6/12>	<Mast> 6/12>	<Mast> 6/12>	<Mast> 6/12>	
	8		Carriage		Class II	Class II	Class II	Class II	Class II	Class II	Class III	Class III	Class II	Class II	Class II	Class II	Class II	Class II	
	9	Fork	Dimension (L / W / T)	l/b/s	mm	1070/100/35	1070/100/35	1070/100/35	1070/100/35	1070/122/36	1070/122/40	1070/122/44	1070/122/44	1070/100/35	1070/100/35	1070/100/35	1070/100/35	1070/122/36	1070/122/40
	10		Spread ( Max / Min)	B <sub>5</sub>	mm	900/200	900/200	900/200	900/200	1000/245	1000/245	1000/245	1000/245	900/200	900/200	900/200	900/200	1000/245	1000/245
	11	Length	Overall length	L <sub>1</sub>	mm	3035	3035	3035	3080	3285	3345	3410	3580	3035	3035	3035	3080	3285	3345
	12		to fork face	L <sub>2</sub>	mm	1965	1965	1965	2010	2215	2275	2340	2510	1965	1965	1965	2010	2215	2275
	13	Width	Overall width	B	mm	1050	1050	1090	1090	1175	1175	1175	1180	1050	1050	1090	1090	1175	1175
	14	Height	Mast lowered	H <sub>1</sub>	mm	1980	1980	1980	1980	1980	1980	1980	2215	1980	1980	1980	1980	1980	1980
	15		Mast extended	H <sub>4</sub>	mm	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
	16		Overhead guard	H <sub>6</sub>	mm	2110	2110	2110	2110	2110	2110	2110	2225	2110	2110	2110	2110	2110	2110
	17	Overhang	Front overhang	X	mm	395	395	395	400	425	425	445	475	395	395	395	400	425	425
	18	Min. turning radius		W <sub>a</sub>	mm	1710	1710	1710	1725	1950	2005	2060	2240	1710	1710	1710	1725	1950	2005
	19	Min. 90° turning aisle	1100 x 1100 Pallet (included 200mm for clearance)		mm	1970	1970	1970	1980	2090	2120	2150	2205	1970	1970	1970	1980	2090	2120
	20	Min. 90° stacking aisle	1100 x 1100 Pallet (included 200mm for clearance)	Ast	mm	3405	3405	3405	3425	3675	3730	3805	4015	3405	3405	3405	3425	3675	3730
PERFORMANCE	21	Travel speed	Laden / Unladen	km/h	14.0/16.0	14.0/16.0	14.0/16.0	13.5/15.5	14.0/16.0	13.5/15.5	13.5/15.0	13.5/15.5	16.0/18.0	16.0/18.0	16.0/18.0	15.5/17.5	15.5/17.5	15.0/17.0	
	22	Lifting speed	Laden / Unladen	mm/s	370/540	340/540	320/540	310/540	280/470	260/470	250/470	320/550	470/650	440/650	420/650	380/650	360/600	340/600	
	23	Lowering speed	Laden / Unladen	mm/s	550	550	550	550	550	550	550	450	550	550	550	550	550	550	
	24	Max. drawbar pull	3min. rating, 1.5km/h and over	N	9032	9325	9395	9291	11947	11986	11384	13803	9032	9325	9395	9291	11947	11986	
	25	Max. gradeability	3min. rating, 1.5km/h and over	%	22.0	20.0	19.0	17.0	19.0	16.0	14.0	16.0	22.0	20.0	19.0	17.0	19.0	16.0	
MASS	26	Service weight	w/o battery (6.3)	kg	2695	2830	2950	3125	3680	4185	4400	4770	2695	2830	2950	3125	3680	4185	
	27	Axle Loading	Laden (Front / Rear)	kg	2980/655	3565/615	3855/595	4285/590	4935/745	5740/945	6160/990	6735/1035	2980/655	3545/615	3855/595	4285/590	4935/745	5740/945	
	28		Unladen (Front / Rear)	kg	1265/1370	1250/1580	1280/1670	1260/1860	1605/2075	1560/2625	1555/2845	1935/2835	1265/1370	1250/1580	1280/1670	1260/1860	1605/2075	1560/2625	
CHASSIS	29	Tyres: Number	Front / Rear (X=Drive)		2X/2	2X/2	2X/2	2X/2	2X/2	2X/2	2X/2	2X/2	2X/2	2X/2	2X/2	2X/2	2X/2	2X/2	
	30	Tyres	Front	mm	6.00-9-10PR	6.00-9-10PR	21x8-9-14PR	21x8-9-14PR	23x9-10-16PR	23x9-10-16PR	23x9-10-16PR	28x9-15-12PR	6.00-9-10PR	6.00-9-10PR	21x8-9-14PR	21x8-9-14PR	23x9-10-16PR	23x9-10-16PR	
	31		Rear	mm	5.00-8-8PR	5.00-8-8PR	5.00-8-8PR	5.00-8-8PR	18x7-8-14PR	18x7-8-14PR	18x7-8-14PR	6.50-10-10PR	5.00-8-8PR	5.00-8-8PR	5.00-8-8PR	5.00-8-8PR	18x7-8-14PR	18x7-8-14PR	
	32	Wheelbase	y	mm	1250	1250	1250	1250	1400	1400	1400	1600	1250	1250	1250	1250	1400	1400	
	33	Thread	Front	mm	890	890	900	900	955	955	955	955	890	890	900	900	955	955	
	34		Rear	mm	900	900	900	900	945	945	945	980	900	900	900	900	945	945	
	35	Ground clearance	Min.	mm	95	95	95	95	95	95	95	130	95	95	95	95	95	95	
	36		Middle of wheelbase	F	mm	110	110	110	110	110	110	110	235	110	110	110	110	110	110
	37	Service brake			Hydr.	Hydr.	Hydr.	Hydr.	Hydr.	Hydr.	Hydr.	Hydr.	Hydr.	Hydr.	Hydr.	Hydr.	Hydr.	Hydr.	
MOTORS	38	Parking brake	Foot / Hand / Deadman		Hand	Hand	Hand	Hand	Hand	Hand	Hand	Hand	Hand	Hand	Hand	Hand	Hand	Hand	
	39	Battery	Type		BS/JIS	BS/JIS	BS/JIS	BS/JIS	BS/JIS	BS/JIS	BS/JIS	BS/JIS	BS/JIS	BS/JIS	BS/JIS	BS/JIS	BS/JIS	BS/JIS	
	40		Voltage / Ampere hrs (5HR)	V/Ah	48/330	48/330	48/400	48/400	48/450	48/565	48/565	72/450	48/330	48/330	48/400	48/400	48/450	48/565	
	41		Weight (with case)	kg	630	630	740	740	820	880	880	1240	630	630	740	740	820	880	
	42	Drive Motor	60min. rating	kw	9.0	9.0	9.0	9.0	10.0	10.0	10.0	10.0	10.0	9.0	9.0	9.0	10.0	10.0	
	43		control		FET	FET	FET	FET	FET	FET	FET	FET	FET	FET	FET	FET	FET	FET	
	44	Hydraulic motor	5min. rating	kw	9.5	9.5	9.5	9.5	9.5	12.0	12.0	15.0	12.0	12.0	12.0	12.0	13.5	14.0	
	45		control		FET	FET	FET	FET	FET	FET	FET	FET	FET	FET	FET	FET	FET	FET	
	46	Power Steeing Motor	60min. rating	kw	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	
	47		control		FET	FET	FET	FET	FET	FET	FET	FET	FET	FET	FET	FET	FET	FET	
	48	Type (Built-in / Stationary)			Stationary	Stationary	Stationary	Stationary	Stationary	Stationary	Stationary	Stationary	Stationary	Stationary	Stationary	Stationary	Stationary	Stationary	
	49	Charger (option)	Input	φ/V	3/400	3/400	3/400	3/400	3/400	3/400	3/400	3/400	3/400	3/400	3/400	3/400	3/400	3/400	
	50		Capacity	kVA	4.7	4.7	6.5	6.5	6.5	8.1	8.1	12.0	4.7	4.7	6.5	6.5	6.5	8.1	
	51	Operating Pressure	for Attachments	MPa	13.7	13.7	13.7	15.7	15.7	17.2	15.7	17.2	13.7	13.7	13.7	13.7	15.7	17.2	







**Quality**

**Reliability**

**Customer Service**



## Electric Pneumatic Tire Lift Trucks

Capacity: 1.0 - 3.0 ton

[www.catlifttruck.com.sg](http://www.catlifttruck.com.sg)

Copyright © 2009 by MCFS. All rights reserved. CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission. All registered trademarks are the property of their respective owners. Some products may be shown with optional equipment. Printed in Singapore.

FCAT0074-01

05/09

**CAT<sup>®</sup> Lift Trucks**