BUILT FOR THE GRIND. POWERED FOR THE FUTURE.

4,000 – 8,000 LB. CAPACITY
ELECTRIC CUSHION TIRE LIFT TRUCKS

CAT®

THE POWER TO TACKLE YOUR TOUGHEST JOBS.

Productivity – Electrified

Productivity in indoor applications is based on maneuverability, hydraulic speeds and travels speeds. The EC20Q-EC40Q series is setting a new standard in all of those categories. A small turning radius, combined with industry-leading travel speeds means better versatility and piece of mind for your operators.

ADVANTAGES TO YOU:

- Low energy consumption - keeps the truck running longer
- Industry-leading travel speeds and IC-level lift speeds increase throughput
- Zero hydrocarbon emissionss
- Ergonomic design of manual levers or fingertip controls (optional) provide precise load handling
- Industry-leading turning radius for easy maneuvering in tight spaces
- 500-hour service interval for mast/axle lubrication, 1000-hour interval for all other components
- Convenient battery extraction and access options
- Advanced assistance technology simplifies operation and helps reinforce safe operating practices.

KEY APPLICATIONS:

Food Products
Transportation
Chemical and Allied Products
Rubber and Plastics
Metal Products
Electronic and Electric Products
Textile Products
Rental Options For Seasonal Demands

Simplifying material handling with intelligent controls and improved performance.

EXCEPTIONAL RUN TIMES

Work longer without sacrificing performance thanks to Cat Lift Trucks 3-phase AC technology and regenerative braking.

- All AC drive and hydraulic system – no brushes or commutator
- Enhanced hydraulic and electric (optional) power steering
- Lithium-Ion technology reduces energy consumption by up to 10%

IC-LEVEL HYDRAULIC PERFORMANCE

Combining Lithium Ion with one of the electronic control options maximizes the lift truck's hydraulic performance for greater productivity. Electronic control units take it's precision to another next level.

- 25% faster loaded lifting than previous electric cushion models
- Precise fork positioning
- Load-responsive lifting and lowering

SMALL FOOTPRINT
WITH BIG IMPACT.

Exceptional Comfort For A Long Day's Work.

Forward Visibility
Narrow mast channels and open overhead guard design for excellent visibility.

Rear Visibility
Low-profile counterweight provides excellent visibility when traveling in reverse.

Optional Electronic Controls
Effortlessly control steering and hydraulics with precision using the optional Mini Steering Wheel and Fingertip Control Armrest.

Narrow overhead guard pillars and slates
minimize visual obstructions when travelling or lifting.

Adjustable Vinyl Seat
The full-suspension, standard vinyl seat can be adjusted to give the operator the most comfortable position possible:
- Front and back
- Lumbar support
- Suspension

Offset Steering Wheel & Low-Profile Dash
- excellent visibility to load
- clear views while turning

Optional Mini-Steering Wheel
Effortlessly control precise steering with this armrest-mounted option.

Space for size 15 shoe

MORE UPTIME.
IN A SMALLER PACKAGE.

Less Maintenance. More Uptime.

Together, extended service intervals and sealed components add up to greater uptime – to keep your business moving.

Easy access to key components
- AC Dual Drive motors
- Hydraulic pump & motor
- High output inverters
- Hydraulic oil check

500-hour extended service intervals
Less time doing maintenance equates to more time on the floor moving product.

EASY TO CHARGE

Convenient battery changing options keep you up and running:
- Easy Charge Access
- Overhead extraction (STD)
- Slide rail extraction (option)

INSTANT NOTIFICATION SYSTEM

Display-based indicators notify the operators when motor maintenance is required, resulting in greater uptime while helping to reduce the risk of more costly maintenance needs later down the line.

WORK SMART.
WORK SAFE.

With Intelligent Technology To Assist You

Our automatic operator assistance controls sense the operating conditions and respond with the right amount of acceleration and speed to help operators stay productive.

FEATURES YOU CAN DEPEND ON

- Presence Detection System
- Front LED Work Lights
- Automatic Parking Brake
- Curve Control
- Lift Control
- Ramp Hold
- Passive Sway Control
- Optional Load Weight Display

SMART DESIGN

Curve Control

- Automatic sensing of steer angle and current speed
- Control system automatically adjusts the speed based on the operating conditions

Ramp Hold

- Automatic sensing of grade & travel speed
- When releasing the accelerator pedal, the truck comes to a stop
- Automatic prevention of rollback

Passive Sway Control

- Automatic sensing of load weight and mast movement (when lifting above 12.5ft)
- The gearbox and chassis automatically absorb mast sway to allow for smoother and more comfortable operation at height

Lift Control

- Automatic sensing of load weight and mast height
- Control system automatically limits the travel speed to 1.8mph when the forks are above 6ft
- Control system automatically adjusts the lifting and lowering acceleration to smoothly reach top hydraulic speeds without bouncing the load

SMART SYSTEMS

Operator Presence Detection System (PDS)

This integrated, computer-based feedback system uses both audible and visual indicators to alert the operator to potentially hazardous situations, while increasing operator awareness.

- When the operator is not in the normal operating position, the Presence Detection System electronically discontinues powered-travel movement and load-handling functions.
- When an operator is in the normal operating position, but the seat belt is not buckled, an audible warning will sound and a visible indicator will appear, alerting the operator.

LITHIUM-ION OPTIMIZATION:

When combined with electronic control types (fingertip, single or dual joysticks), lithium unlocks greater hydraulic performance. Find out what other benefits li-ion offers:

- Greater power efficiency = lower energy consumption
- Run for 24 hours a day, 7 days a week with opportunity charging
- Zero battery maintenance
- No watering
- No more battery exchanges
- No gas emissions, odor or acidification
- No special charging areas or equipment needed
- Longer lasting life cycles (up to 4,000)

GET THE WORK DONE. YOUR WAY.

ADAPTABLE PERFORMANCE MODES

Optimize your performance and efficiency by simply selecting one of the pre-set ECO or PRO operating modes. Customized performance settings can be adjusted easily via Truck Tool.

WIDE VARIETY OF OPTIONS

Special application packages
- A drive-in rack option to better fit different applications
- Freezer package for intermittent use down to -20° F

Automatic Tilt Centering
- Single or Dual Position options
- Available with Manual Levers or Fingertip Controls
- Centering capability tilting forward or backward to center

Productivity options
- Foot direction control
- Steering wheel knob
- Rear grab handle with horn button

Variety of light packages
These models can be customized with blue spot lights, strobe lights and more.

Optional UL Type EE Rating (Standard rating E)

SHIPPING AREA
High Performance
Maneuverability
Curve Control
Lighting Options:
Blue spot
Red line

RECEIVING AREA
Short Shuttle
Maneuverability
Ramp Hold
Traction Boost

LONG SHIFTS
Economy
Ergonomics
Long Run Times

TRAVEL APPLICATION
Long Shuttle
High Top Speeds
Curve Control
High Visibiliity

MAIN WAREHOUSE
Normal Warehouse
High Hydraulic Speeds
Lift Control
Curve Control
Mast Visibility at Height

Local service and support

Genuine OEM parts

Custom financing packages

Factory warranty for added protection

Local Support You Can Count On

A Cat lift truck purchase connects you to a variety of material handling solutions, including world-class service and support from your local, trusted dealer. With trained service technicians, a diverse parts inventory and a broad selection of service options, your local dealer can help you lower costs, enhance productivity and more efficiently manage your business.

FINANCING MADE SIMPLE

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 for your business.

WHEN EVERY PART COUNTS

When buying from your local Cat lift truck dealer, you can rest assured that your genuine OEM parts are manufactured to meet original equipment criteria. Additionally, all Cat lift trucks OEM parts come with a six-month, unlimited-hours warranty.

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

STANDING BEHIND OUR PRODUCTS

We deliver peace of mind by helping your lift trucks stay on the job. 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.

* At dealer's location.
† 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.

Specifications

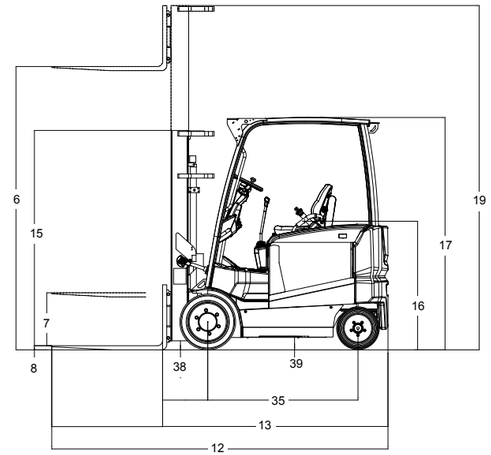
	Characteristics			EC20Q		EC25CQ		EC25Q			EC30Q		EC33Q		EC40Q	
1	Capacity at rated load center	lb	*kg*	4,000	*1,814*	5,000	*2,268*	5,000	*2,268*	1	6,000	*2,721*	6,500	*2,948*	8,000	*3,628*
2	Load center – distance	in	*mm*	24	*600*	24	*500*	24	*500*	2	24	*600*	24	*500*	24	*600*
3	Power – diesel, gasoline, LP gas, electric			Electric		Electric		Electric		3	Electric		Electric		Electric	
4	Tire type – cushion, solid pneumatic			Cushion		Cushion		Cushion		4	Cushion		Cushion		Cushion	
5	Wheels (x=driven) number front / rear			2x / 2		2x / 2		2x / 2		5	2x / 2		2x / 2		2x / 2	
	Dimensions			**EC20Q**		**EC25CQ**		**EC25Q**			**EC30Q**		**EC33Q**		**EC40Q**	
6	Maximum fork height (top of forks)	in	*mm*	107.9	*2,740*	107.9	*2,740*	107.9	*2,740*	6	153.5	*3,900*	159.4	*4,050*	159.4	*4,050*
7	Free lift	in	*mm*	4.2	*106*	4.2	*106*	4.2	*106*	7	29.6	*752*	29.6	*752*	29.6	*752*
8	Forks – thickness x length x width	in	*mm*	1.5 x 4 x 42.1	*38 x 102 x 1,070*	1.5 x 4 x 42.1	*38 x 102 x 1,070*	1.5 x 4 x 42.1	*38 x 102 x 1,070*	8	2.0 x 5 x 42.1	*51 x 127 x 1,070*	2.0 x 5 x 42.1	*51 x 127 x 1,070*	2.0 x 5 x 42.1	*51 x 127 x 1,070*
9	Fork carriage width	in	mm	36.2	*920*	36.2	*920*	36.2	*920*	9	40.2	*1,020*	40.2	*1,020*	40.2	*1,020*
10	Fork carriage ISO 232, class / type A, B			Class 2/ Type A		Class 2/ Type A		Class 2/ Type A		10	Class 3/ Type A		Class 3/ Type A		Class 3/ Type A	
11	Tilt – forward / backward	deg		5 / 8		5 / 8		5 / 8		11	5 / 5		5 / 5		5 / 5	
12	Overall length (with 42" long forks)	in	*mm*	127.2	*3,232*	127.2	*3,232*	130.8	*3,322*	12	132.4	*3,363*	133	*3,378*	136.3	*3,463*
13	Length to fork face (includes fork thickness)	in	*mm*	85	*2,162*	85	*2,162*	88.7	*2,252*	13	90.3	*2,293*	90.7	*2,308*	94.2	*2,393*
14	Overall width with single tires	in	*mm*	42.1	*1,070*	42.1	*1,070*	42.1	*1,070*	14	43.3	*1,100*	43.3	*1,100*	43.3	*1,100*
15	Height to top of lowered mast	in	*mm*	71.3	*1,810*	71.3	*1,810*	71.3	*1,810*	15	77.2	*1,960*	77.2	*1,960*	77.2	*1,960*
16	Seat height to SIP	in	*mm*	50	*1,275*	50	*1,275*	50	*1,275*	16	50	*1,275*	50	*1,275*	50	*1,275*
17	Height to top of overhead guard	in	*mm*	88	*2,235*	88	*2,235*	88	*2,235*	17	88	*2,235*	88	*2,235*	88	*2,235*
18	Drawbar pin height (middle)	in	*mm*	22.7	*577*	22.7	*577*	22.7	*577*	18	22.7	*577*	22.7	*577*	22.7	*577*
19	Height with mast raised	in	*mm*	155.7	*3,954*	155.7	*3,954*	155.7	*3,954*	19	201.1	*5,108*	201.1	*5,108*	201.1	*5,108*
20	Minimum outside turning radius	in	*mm*	68.5	*1,740*	68.5	*1,740*	72.0	*1,830*	20	72.0	*1,830*	72.6	*1,845*	76.0	*1,930*
21	Minimum aisle – 90° stack - zero clearance without load	in	*mm*	85.1	*2,162*	85.1	*2,162*	88.7	*2,252*	21	90.3	*2,293*	90.7	*2,308*	94.2	*2,393*
	Performance			**EC20Q**		**EC25CQ**		**EC25Q**			**EC30Q**		**EC33Q**		**EC40Q**	
22	Travel speed – loaded / empty (36 volt lead-acid)	mph	*km/h*	10.3 / 10.8	*16.6 / 17.4*	9.6 / 10.8	*15.4 / 17.4*	9.6 / 10.8	*15.4 / 17.4*	22	9.1 / 10.6	*14.6 / 17.1*	9.1 / 10.6	*14.6 / 17.1*	9.1 / 10.6	*14.6 / 17.1*
23	Travel speed – loaded / empty (48 volt lead-acid)	mph	*km/h*	11.3 / 11.3	*18.2 / 18.2*	11.3 / 11.3	*18.2 / 18.2*	11.3 / 11.3	*18.2 / 18.2*	23	11.3 / 11.3	*18.2 / 18.2*	11.3 / 11.3	*18.2 / 18.2*	11.3 / 11.3	*18.2 / 18.2*
24	Travel speed – loaded / empty (48 volt li-ion)	mph	*km/h*	12.3 / 12.5	*19.8 / 20.1*	12.3 / 12.5	*19.8 / 20.1*	12.3 / 12.5	*19.8 / 20.1*	24	12.3 / 12.5	*19.8 / 20.1*	12.3 / 12.5	*19.8 / 20.1*	12.3 / 12.5	*19.8 / 20.1*
25	Lift speed – loaded / empty (36 volt lead-acid) manual	fpm	*m/s*	66.4 / 84.5	*0.34 / 0.43*	62.3 / 85.4	*0.32 / 0.43*	62.3 / 85.4	*0.32 / 0.43*	25	52.8 / 72.3	*0.27 / 0.37*	50.7 / 68.7	*0.26 / 0.35*	47.7 / 68.7	*0.24 / 0.35*
	Lift speed - loaded / empty (36 volt lead-acid) fingertip			69.9 / 100.4	*0.36 / 0.51*	69.9 / 100.4	*0.36 / 0.51*	69.9 / 100	*0.36 / 0.51*		58.8 / 92.5	*0.30 / 0.47*	50.0 / 77.8	*0.25 / 0.40*	50.0 / 77.8	*0.25 / 0.40*
26	Lift speed – loaded / empty (48 volt lead-acid) manual	fpm	*m/s*	71.3 / 104.2	*0.36 / 0.53*	66.4 / 104.2	*0.34 / 0.53*	66.4 / 104.2	*0.34 / 0.53*	26	55.6 / 89.9	*0.28 / 0.46*	50.9 / 70.6	*0.26 / 0.36*	47.2 / 70.6	*0.24 / 0.36*
	Lift speed – loaded / empty (48 volt lead-acid) fingertip			88.7 / 120.0	*0.45 / 0.61*	88.7 / 120.0	*0.45 / 0.61*	88.7 / 120.0	*0.45 / 0.61*		75.8 / 106.7	*0.38 / 0.54*	64.4 / 90.7	*0.33 / 0.46*	64.4 / 90.7	*0.33 / 0.46*
27	Lift speed – loaded / empty (48 volt li-ion) manual	fpm	*m/s*	78.6 / 107.6	*0.40 / 0.55*	73.7 / 107.6	*0.37 / 0.55*	73.7 / 107.6	*0.37 / 0.55*	27	62.7 / 93.3	*0.32 / 0.47*	56.2 / 72.0	*0.29 / 0.37*	53.3 / 72.0	*0.27 / 0.37*
	Lift speed – loaded / empty (48 volt li-ion) fingertip			110.2 / 120.0	*0.56 / 0.61*	110.2 / 120.0	*0.56 / 0.61*	110.2 / 120.0	*0.56 / 0.61*		86.6 / 110.2	*0.44 / 0.56*	79.7 / 92.5	*0.40 / 0.47*	79.7 / 92.5	*0.40 / 0.47*
28	Lowering speed – loaded / empty	fpm	*m/s*	94.5 / 79	*0.48 / 0.40*	94.5 / 79	*0.48 / 0.40*	94.5 / 79	*0.48 / 0.40*	28	96.5 / 96.5	*0.49 / 0.49*	98.5 / 98.5	*0.50 / 0.50*	76.8 / 76.8	*0.39 / 0.39*
29	Maximum gradeability – loaded / empty	%		32		32		31		29	32		30		24	
	Weight			**EC20Q**		**EC25CQ**		**EC25Q**			**EC30Q**		**EC33Q**		**EC40Q**	
30	Empty – without battery	lb	*kg*	5,853	*2,655*	6,747	*3,060*	6,247	*2,834*	30	8,394	*3,807*	8,780	*3,983*	9,797	*4,444*
31	Axle load – with rated load (front / rear) (w/ min. battery)	lb	*kg*	11,137 / 1,115	*5,052 / 506*	12,508 / 1,454	*5,674 / 659*	12,490 / 1,656	*5,665 / 751*	31	15,864 / 1,630	*7,196 / 739*	16,694 / 1,686	*7,572 / 765*	18,872 / 1,930	*8,560 / 875*
32	Axle load – without rated load (front / rear) (w/ min. battery)	lb	*kg*	3,955 / 4,297	*1,794*	1,949	*3,863 / 5,283*	4,220 / 5,126	*1,914 / 2,325*	32	5,519 / 5,975	*2,503 / 2,710*	5,487 / 6,393	*2,489 / 2,900*	5,242 / 7,655	*2,378 / 3,472*
	Chassis			**EC20Q**		**EC25CQ**		**EC25Q**			**EC30Q**		**EC33Q**		**EC40Q**	
33	Tire size – front	in		21 x 7 x 15		21 x 7 x 15		21 x 7 x 15		33	22 x 8 x 16		22 x 3 x 16		22 x 8 x 16	
34	Tire size – rear	in		16.25 x 6 x 11.25		16.25 x 6 x 11.25		16.25 x 6 x 11.25		34	16.25 x 6 x 11.25		16.25 x 6 x 11.25		16.25 x 6 x 11.25	
35	Wheelbase	in	*mm*	57	*1,450*	57	*1,450*	70	*1,549*	35	70	*1,549*	70	*1,549*	70	*1,549*
36	Tread width – front, standard tires	in	*mm*	35.1	*892*	35.1	*892*	35.1	*892*	36	35.3	*897*	35.3	*897*	35.3	*897*
37	Tread width – rear tires	in	*mm*	35	*888*	35	*888*	35	*888*	37	35	*888*	35	*888*	35	*888*
38	Ground clearance – at lowest point at mast	in	*mm*	3.1	*78.7*	3.1	*78.7*	3.1	*78.7*	38	3.1	*78.7*	3.1	*78.7*	3.1	*78.7*
39	Ground clearance – at center of wheelbase	in	*mm*	4.4	*112.5*	4.4	*112.5*	4.4	*112.5*	39	4.4	*112.5*	4.4	*112.5*	4.4	*112.5*
40	Service brakes	type		foot-operated, hydraulic		foot-operated, hydraulic		foot-operated, hydraulic		40	foot-operated, hydraulic		foot-operated, hydraulic		foot-operated, hydraulic	
41	Parking brakes	type		automatic, hydraulic		automatic, hydraulic		automatic, hydraulic		41	automatic, hydraulic		automatic, hydraulic		automatic, hydraulic	
	Electrical			**EC20Q**		**EC25CQ**		**EC25Q**			**EC30Q**		**EC33Q**		**EC40Q**	
42	Battery type			lead-acid / li-ion		lead-acid / li-ion		lead-acid / li-ion		42	lead-acid / li-ion		lead-acid / li-ion		lead-acid / li-ion	
43	Battery weight, minimum	lb	*kg*	2,400	*1,089*	2,400	*1,089*	3,100	*1,406*	43	3,100	*1,406*	3,100	*1,406*	3,100	*1,406*
44	Battery weight, maximum	lb	*kg*	3,240	*1,469*	3,240	*1,469*	3,970	*1,800*	44	3,970	*1,800*	3,970	*1,800*	3,970	*1,800*
45	Battery compartment size, maximum	in	*mm*	39.5 x 30.5 x 22.8	*1,000 x 775 x 580*	39.5 x 30.5 x 22.8	*1,000 x 775 x 580*	39.5 x 34.3 x 22.8	*1,000 x 870 x 580*	45	39.5 x 34.3 x 22.8	*1,000 x 870 x 580*	39.5 x 34.3 x 22.8	*1,000 x 870 x 580*	39.5 x 34.3 x 22.8	*1,000 x 870 x 580*
46	Drive motor capacity (60 min. rating)	HP	*kW*	9.4	*7*	9.4	*7*	9.4	*7*	46	9.4	*7*	9.4	*7*	9.4	*7*
47	Lift output (15% rating) (36 / 48 volt)	HP	*kW*	15.4 / 20.8	*11.5 / 15.5*	15.4 / 20.8	*11.5 / 15.5*	15.4 / 20.8	*11.5 / 15.5*	47	16.1 / 22.1	*12 / 16.5*	16.1 / 22.1	*12 / 16.5*	16.1 / 22.1	*12 / 16.5*
48	Drive / hydraulic controls	type		AC transistor		AC transistor		AC transistor		48	AC transistor		AC transistor		AC transistor	
49	Relief pressure for attachments	bar	*psi*	180	*2,610*	180	*2,610*	180	*2,610*	49	180	*2,610*	180	*2,610*	180	*2,610*
50	Flow rate for attachments	gpm	*lpm*	7.9	*30*	7.9	*30*	7.9	*30*	50	7.9	*30*	7.9	*30*	7.9	*30*

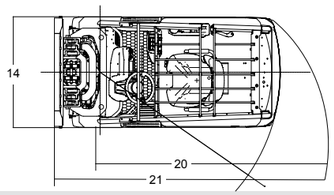
* Maximum converted value to gradeability at maximum torque of the traction motor.

NOTE: These specifications assume the use of drive axles, tires and tilt angles specified. Maximum converted value to gradeability at maximum torque of the traction motor. Any modification to specifications, or any other combination of specifications made after the shipment of the truck, requires prior written approval from Logisnext Inc. (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.

Note: Equipping this model (these models) with a power source (e.g. Lithium-ion, Hydrogen Fuel cell, etc.) that has not been previously approved by the factory is considered a modification. Per OSHA 1910.178 and ANSI/ITSDF B56.1, please consult with your factory representative prior to installing any non-OEM power source that has not been previously approved.

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.

Your Cat lift truck dealer can provide additional options and features to specialize your lift truck for your unique application. Operator training and custom financing programs are also available to help find the right fit for your business.

Helping move businesses forward – that's how we're built.

1-800-CAT-LIFT | www.logisnextamericas.com/cat

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Some products may be shown with optional equipment.

CECM0407 03/26