

EP14N2T - EP20N2



DELIVERING MORE

ELECTRIC COUNTERBALANCED LIFT TRUCKS
1.4 - 5.0 TONS



HIGH-PERFORMING, DURABLE AND FLEXIBLE

3 WHEEL MODELS

MODEL	CAPACITY (tons)	VOLTAGE (V)	LOAD CENTER (mm)	MFH (mm/inch)
EP14N2T	1.4	48	600	7000 / 275.5
EP16CN2T	1.6	48	600	7000 / 275.5
EP18CN2T	1.8	48	600	7000 / 275.5
EP16N2T	1.6	48	600	7000 / 275.5
EP18N2T	1.8	48	600	7000 / 275.5
EP20N2T	2.0	48	600	7000 / 275.5

4 WHEEL MODELS

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EP16CN2	1.6	48	600	7000 / 275.5
EP18CN2	1.8	48	600	7000 / 275.5
EP16N2	1.6	48	600	7000 / 275.5
EP18N2	1.8	48	600	7000 / 275.5
EP20N2	2.0	48	600	7000 / 275.5

The latest comprehensive electric counterbalance range from Cat® Lift Trucks is built to meet customer needs with its dependable performance, durability and adaptability – backed by excellent customer service.

Whatever the challenges of your shift pattern, application or environment, we can offer your business a total solution.



BENEFITS TO YOUR BUSINESS

Energy efficiency, high performance, durability and ease of maintenance help provide great return on investment and low total cost of ownership.

These operator-friendly models are flexible and easily programmable to perform in harsh duties and conditions, meaning you can count on them for an impressive variety of uses.

Your Cat® lift truck dealer will help you select the truck that meets your needs, and provide you the complete support you need to maximize productivity and profitability in your operations.

BUILT WITH THE OPERATOR IN MIND

Cat Lift Trucks cares about building a product that meets the operator's needs. An operator in a comfortable environment can increase productivity. These are just a few features and benefits to give your operator the comfort and control to do their job better.

- Smooth, quiet and precise operation
- Great visibility all around the truck
- Spacious foot and leg room
- Adjustable full-suspension seat
- Open-concept operator compartment with compact-diameter steering wheel and tiltable steering column allow for visibility towards the load
- Easy-to-reach, easy-to-use controls
- Informative, intuitive full color display
- Easy three-point access with low step heights and secure grab bars



FLEXIBLE AND TRULY ECONOMICAL

Performance and efficiency can be optimized for each application through full programming, or by simply selecting one of the pre-set operating modes. Profits are increased by reducing total cost of ownership by achieving the right balance between performance and efficiency.



MAIN WAREHOUSE

NORMAL WAREHOUSE

- Moderate acceleration, moderate travel speed, moderate hydraulic speeds.



SHIPPING AREA

HIGH PERFORMANCE

- Fast acceleration, fast travel speed, moderate hydraulic speeds.



LONG SHIFTS

ECONOMY

- Slow acceleration, low travel speed, moderate hydraulic speeds.



OUTSIDE APPLICATION

LONG TRAVEL

- Slow acceleration, high travel speed, moderate hydraulic speeds.



RECEIVING AREA

SHORT SHUTTLE

- Fast acceleration, low travel speed, moderate hydraulic speeds.

FLEXIBILITY AND LOW TOTAL COST OF OWNERSHIP

For extra application flexibility, many of our trucks offer panel cabin options and sealing of key components – allowing comfortable and dependable operation both outdoors and indoors.

As well as saving money daily with their low energy consumption, our lift trucks are able to reduce the total cost of ownership through features such as:

- Sealing of components against water and other contaminants
- Use of highly durable materials and designs
- Long service intervals



1.4 - 2.0 TONS | 48V

AGILE 3 & 4

WHEEL POWER

With their compact design, amazing maneuverability and intelligent control systems, these trucks are your choice when space is tight. Ideal for efficient handling in containers, lorries, drive-in racking and other cramped, fast-paced environments, their behavior rapidly adapts to changes in drivers' needs. They are also built to stand up to harsh, wet, dirty or dusty conditions.

TYPICAL APPLICATIONS

- Indoor and outdoor applications
- Food and beverage manufacturing and wholesale
- Fishing and fish processing
- Chemicals, textiles and rubber
- General and refrigerated warehousing and storage
- Machinery and heavy equipment
- Electric equipment and components

Tuned in to the driver

How can a forklift truck understand and instantly respond to what the driver wants it to do? How does the truck know what will work best in each situation? To answer such questions fully would require a long explanation involving electronic controllers and sensors, software and multiple algorithms.

To save time, let's just focus on that technology's effects. In short, it makes driving and load handling easier, steadier and more comfortable. Drivers feel the machine is totally in tune with them, so they are happy, confident

and highly productive.

The Cat EP14N2T-EP20N2 driving experience begins with its Responsive Drive System (RDS). This monitors and reacts instantly to changes in the speed of foot and pedal movement, telling the truck to adjust performance parameters accordingly. All actions are smoothly controlled, including stops and starts.

Optimized steering

Other systems on the truck constantly adjust steering response to optimize it for the current travel speed. The amount of steering wheel turn and force required to start changing course is increased when driving fast, so there is no need for constant correcting. Activation of turning becomes instant and effortless at low speeds, making the steering lighter for precise maneuvers.

When turning, the truck uses its advanced curve control – coordinating the two independent front drive motors and rear steer motor – to supplement the operators control and help achieve an efficient and safe speed. This system will supplement the operator's safe driving to keep the truck stable during turns.

Maneuvering is smooth and agile thanks to dual drive '4-wheel steering'. A +100° rear turning axle allows the truck to pivot without having to push back first. For even greater agility in turning, there is a 360° steering option for our 3-wheel truck. This allows the truck to turn and move in the opposite direction (180°) without stopping, while helping the operator maintain load stability.

3 WHEEL, 48V MODELS

MODEL	CAPACITY (tons)	VOLTAGE (V)	LOAD CENTER (mm)
EP14N2T	1.4	48	600
EP16CN2T	1.6	48	600
EP18CN2T	1.8	48	600
EP16N2T	1.6	48	600
EP18N2T	1.8	48	600
EP20N2T	2.0	48	600

4 WHEEL, 48V MODELS

MODEL	CAPACITY (tons)	VOLTAGE (V)	LOAD CENTER (mm)
EP16CN2	1.6	48	600
EP18CN2	1.8	48	600
EP16N2	1.6	48	600
EP18N2	1.8	48	600
EP20N2	2.0	48	600





1.4 - 2.0 TONS | 48V

Intelligent hydraulics

A load-sensing hydraulic system automatically adjusts for weight, to maintain precise control. (In forklifts without intelligent hydraulics, lifting and lowering feels very different when the weight of the load is varied). In addition, there is electronic compensation for load weight when using different hydraulic functions simultaneously (via optional fingertip controls), so all mast movements remain consistent.

While lifting, the standard passive sway control function takes effect. This works by keeping the automatic parking brake open so mast sway energy is absorbed by the mass of the whole truck. Reduction of sway and twisting, as well as noise, is enhanced through strong mast design and a low-friction side-shift.

As an option for lifts between about 2 and 3.5 meters (and standard for 3.5 meters upward), hydraulic performance can be automatically modified to provide more stable and calm behavior. A similar automatic tuning system limits truck acceleration when lifting at those heights. These control systems help further in reducing mast deflection. .

Great positioning

Drivers of different sizes can easily and quickly step and swing into and out of the spacious operator compartment. A wide range of seat movement and steering column angle adjustment assures an excellent driving position for a wide range of users.

From there, the inclined and narrow dashboard design allows clear forward, downward and side views while in the standard operating position. The compact design on the steering wheel and a specially designed free lift cylinder structure minimize obstacles to vision.

Ergonomic controls include an adjustable armrest when selecting the optional fingertip controls, and a set of low-fatigue pedals. Interesting advances include a synchronization system for the steering knob. This automatically returns it to the correct 8 o'clock position whenever the truck straightens up – even if the wheel has been forced beyond its end stop.

Application matching

For the tightest spaces, a compact (C) chassis can be selected from either the 3 wheel (T) or the 4 wheel model list. The 3 wheel trucks, which have particularly small turning radius, are ideal for intensive short-shuttle work and use in very confined areas.

Amongst many optional features available to match the truck with your application is a high-visibility overhead guard. While its rear is reinforced with steel, the fully transparent front area has a robust polycarbonate structure with a glass layer to prevent scratches and discoloration.





KEY FEATURES AT A GLANCE

- Efficient motors with high RPM range give better precision in acceleration control, create more torque at low speeds and reduce energy consumption.
- Fully electronic magnetic brakes require less servicing and offer greater energy efficiency.
- Fast battery compartment access speeds up servicing and exchanges.
- Modular design simplifies addition or replacement of parts, including overhead guard and cabin options.
- Responsive Drive System (RDS) adapts performance rapidly in reaction to speed of pedal operation, and ensures all movements, stops and starts are smooth.
- Variable steering ratio and steering force are continuously optimized for different travel speeds.
- Advanced curve control coordinates the two front-wheel drive motors and rear steer axle motor to optimize turning speed, stabilize fast sideways movements of the counterweight, and prevent tilting when straightening after turns.
- Dual drive '4-wheel steering' with a +100° rear turning axle provides smooth and agile maneuvering, including instant pivoting with no need to push back.
- Load-sensing hydraulic system automatically adjusts to the weight being handled, to maintain precise control.
- Passive sway control keeps automatic parking brake open during lifts, so mast sway energy can be absorbed by chassis.
- As standard, truck acceleration and hydraulic performance is automatically limited at lifts from 3.5 meters for steady, controlled handling. As an option, this feature can be set to activate at lifts above 2 meters.
- Pre-set ECO and PRO modes can be selected for different drivers and tasks, or customized settings can be applied by service engineers.
- Inclined and narrow dashboard, compact steering wheel design and optimized free lift cylinder structure maximize forward, downward and side visibility.
- Optional spring-force-optimized fingertip hydraulic controls on adjustable armrest ensure ergonomically perfect hand positioning, anatomical support and free movement.
- Presence Detection System+ includes automatic parking brake, hill hold and – if operator is not seated – prevention of travel and hydraulic movement.

CABINS TO SUIT YOUR APPLICATION

In applications where dependable operation is required both indoors and outdoors, our trucks can be fitted with panel cabins and have key components protected against water ingress.



MAXIMIZING YOUR UPTIME

To maximize uptime and maintain the performance levels of these durable trucks, we build easy servicing into their design.

Our advanced controllers not only optimize power and efficiency but allow on-the-go system monitoring, self diagnostics and fault memory logging. They warn of problems, tell the technician where to look and even give a reminder when a service is due. With all areas easily accessible, and no need for external test equipment, servicing is fast and simple.

For the best possible return on your investment, your Cat dealer can tailor a cost-effective preventative maintenance plan.



TOTAL SOLUTIONS FOR EVERY CHALLENGE

The performance and durability of these Cat electric lift trucks is without question. It owes much to the expertise, advanced technology and strict quality standards applied by our ultra-modern production center.

To help you choose the right model and configuration, and maintain its productivity, we have an equally dedicated network of dealers. With their specialist knowledge, wide experience and excellent service they will support you in every way to maximize your profits.


As well as electric counterbalance trucks, they offer a comprehensive range of warehouse equipment and IC engine lift trucks. They also have a broad selection of acquisition options – including outright purchase, short or long term rental and leasing – and will tailor a plan to meet the needs of your business.

Whatever your problem, Cat Lift Trucks and its dealers have the solution.



Whatever materials handling equipment you need, our global network of Cat lift trucks dealers is equipped to provide the solution.

Our constant investment in selecting, developing and supporting our dealer network ensures you receive not just the best equipment but the best service, advice and support in the industry.



**MACHINES
CAN BE BOUGHT.
RELATIONSHIPS
HAVE TO BE BUILT.**

*Actual product may vary based on model, configuration selections and market.

www.catlifttruck.com

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