

# SUPERCHARGE YOUR BUSINESS



**ELECTRIC POWERED LIFT TRUCKS 1.4 - 5.5 TONNES**





# HIGH-PERFORMING, DURABLE AND FLEXIBLE



## 3 WHEEL MODELS

MODEL	CAPACITY (tonnes)	VOLTAGE (V)	LOAD CENTRE (mm)	CABIN OPTION
EP14N2T	1.4	48	500	YES
EP16CN2T	1.6	48	500	YES
EP18CN2T	1.8	48	500	YES
EP16N2T	1.6	48	500	YES
EP18N2T	1.8	48	500	YES
EP20N2T	2.0	48	500	YES



## 4 WHEEL MODELS

MODEL	CAPACITY (tonnes)	VOLTAGE (V)	LOAD CENTRE (mm)	CABIN OPTION
EP16CN2	1.6	48	500	YES
EP18CN2	1.8	48	500	YES
EP16N2	1.6	48	500	YES
EP18N2	1.8	48	500	YES
EP20N2	2.0	48	500	YES
EP25AN	2.5	80	500	YES
EP25ACN	2.5	80	500	YES
EP30AN	3.0	80	500	YES
EP30ACN	3.0	80	500	YES
EP35AN	3.5	80	500	YES
EP40N	4.0	80	500	YES
EP45N	4.5	80	500	YES
EP50CN	5.0	80	500	YES
EP50N	5.0	80	500	YES
EP50NH	5.0	80	600	YES
EP55NH	5.5	80	600	YES





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**The latest comprehensive electric counterbalance range from Cat® Lift Trucks is built to meet every need 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**

For a great return on your investment, and low total cost of operation, you can't beat the energy efficiency, performance, durability and easy maintenance of this range.

Equipped to withstand harsh duties and conditions, and easily programmable, you will find flexible, operator-friendly models for an impressive variety of uses.

Your Cat® lift truck dealer will show you the one that matches your requirements perfectly, and will be there to give you all the support you need to maximise your materials handling productivity and profitability.





# BUILT AROUND YOUR OPERATOR

Your most valuable assets of all are your personnel. Like you, we invest heavily in meeting the needs of operators – and that investment generates increased productivity. Here are just a few of the design features that give your operator the comfort and control to do the best job possible.



- Smooth, quiet, precisely controlled performance
- Clear all-round view
- Uncluttered space for legs and feet








- Adjustable full-suspension seat and tiltable steering column
- Easy-to-reach, easy-to-use controls
- Informative, simple-to-read instrument panel



- Unobstructed on/off access with low step heights and handy grab bars

# FLEXIBLE AND TRULY ECONOMICAL

Performance and efficiency can be optimised for each application through full programming, or by simply selecting one of the pre-set operating modes. Profits are maximised by achieving the right balance between output and economy.

				
<b>MAIN WAREHOUSE</b>	<b>SHIPPING AREA</b>	<b>LONG SHIFTS</b>	<b>OUTSIDE APPLICATION</b>	<b>RECEIVING AREA</b>
<b>NORMAL WAREHOUSE</b>	<b>HIGH PERFORMANCE</b>	<b>ECONOMY</b>	<b>LONG TRAVEL</b>	<b>SHORT SHUTTLE</b>
Moderate acceleration, moderate travel speed, moderate hydraulic speeds.	Fast acceleration, fast travel speed, moderate hydraulic speeds.	Slow acceleration, low travel speed, moderate hydraulic speeds.	Slow acceleration, high travel speed, moderate hydraulic speeds.	Fast acceleration, low travel speed, moderate hydraulic speeds.

## COMPLETE FLEXIBILITY AND LOW TOTAL COST OF OPERATION

For extra application flexibility, many of our trucks offer panel cabin options and protection 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 operation through features such as:

- Sealing of components against water and other contaminants
- Wet disc brakes and other low-maintenance systems
- Use of highly durable materials and designs
- Long service intervals







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# 1.4 - 2.0 TONNES | 48V

## AGILE 3 & 4 WHEEL POWER

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

### TYPICAL 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, safer and more comfortable. Drivers feel the machine is totally in tune with them, so they are happy, confident and highly productive.

The Cat EP14-20N2 driving experience begins with *Responsive Drive System 2 (RDS2)*. This monitors and reacts instantly to changes in the driver's pedal movement speed and hydraulic control behaviour. *RDS2* constantly adjusts performance parameters, while smoothly controlling all truck and mast actions, stops and starts.

### Optimised steering

Other systems on the truck constantly adjust steering response to optimise 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 manoeuvres.

When turning, the truck uses its advanced curve control – co-ordinating the two independent front drive motors and rear steer motor – to achieve the fastest safe speed. The same system resists the tendency of counterweights to continue moving rapidly sideways when straightening the truck after a high-speed turn. It also prevents tilting in that situation.

Manoeuvring is smooth and agile thanks to dual drive '4-wheel steering'. A +100° rear turning axle allows the truck to be driven sideways without having to push back first. For even greater agility in turning, there is a 360° steering option. This allows the truck to turn and move in the opposite direction (180°) without stopping, and avoids destabilising the load.

### 3 WHEEL, 48V MODELS

MODEL	CAPACITY (tonnes)	VOLTAGE (V)	LOAD CENTRE (mm)
EP14N2T	1.4	48	500
EP16CN2T	1.6	48	500
EP18CN2T	1.8	48	500
EP16N2T	1.6	48	500
EP18N2T	1.8	48	500
EP20N2T	2.0	48	500

### 4 WHEEL, 48V MODELS

MODEL	CAPACITY (tonnes)	VOLTAGE (V)	LOAD CENTRE (mm)
EP16CN2	1.6	48	500
EP18CN2	1.8	48	500
EP16N2	1.6	48	500
EP18N2	1.8	48	500
EP20N2	2.0	48	500











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# 1.4 - 2.0 TONNES | 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 fingertip controls), so all mast movements remain consistent.

During lifts a passive sway control function, specified as standard, 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 metres (and standard for 3.5 metres upward), hydraulic performance can be automatically modified to provide more stable and calm behaviour. A similar automatic tuning system limits truck acceleration when lifting at those heights. These control systems help further in reducing swaying and twisting of the mast.

## Perfect positioning

Drivers of all sizes can easily and quickly step and swing into and out of the spacious operator compartment. An unusually wide range of seat movement and steering column angle adjustment assures a perfect driving position for every user.

From there, the inclined and narrow dashboard design allows clear forward, downward and side views without having to lean. A one-spoke steering wheel and a specially designed free lift cylinder structure minimise obstacles to vision.

Ergonomic controls include an adjustable armrest, with inbuilt fingertip levers, and a set of low-fatigue pedals. Interesting advances include a synchronisation 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 circles, are ideal for intensive short-shuttle work and use in very confined areas.

Amongst many optional features available to match the truck perfectly 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.

Others include *SmoothFlow* hydraulic adjustment, *PowerBurst* automatic torque boosting, and electric differential locking, as seen on the 2.5 to 5.5 tonne electrics.







The dual joystick option separates functions such as clamp opening, to avoid accidental moves. It's especially useful for drivers who find fingertip levers too small to operate with gloves (or large hands).



All Cat electric counterbalance forklifts come with a choice between lead- acid and fully integrated lithium-ion (Li-ion) batteries. Li-ion technology:

- Enhances performance, efficiency and runtime
- Allows fast opportunity charging for continuous operation without battery changes
- Requires minimal maintenance
- Greatly extends battery life

## 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.
- *Responsive Drive System 2 (RDS2)* traction tuning adapts performance rapidly in reaction to speed of pedal operation, and ensures all movements, stops and starts are smooth.
- *Responsive Drive System 2 (RDS2)* mast tuning adjusts constantly to the driver's hydraulic control behaviour, ensuring optimally matched functionality, sensitivity and reaction speed for the best possible operator experience.
- *PowerBurst* option automatically delivers extra torque to maintain ramp speed or provide strong acceleration, even when carrying heavy loads.
- Variable steering ratio and steering force are continuously optimised for different travel speeds.
- Advanced curve control co-ordinates the two front-wheel drive motors and rear steer axle motor to optimise turning speed, stabilise fast sideways movements of the counterweight, and prevent tilting when straightening after high-speed turns.
- Dual drive '4-wheel steering' with a +100° rear turning axle provides smooth and agile manoeuvring, including instant side turns with no need to push back.
- Electric differential lock option maximises grip on slippery surfaces by locking front wheels to increase traction (activated automatically at small steering angles or manually via an optional pedal function).
- Optional *SmoothFlow* hydraulic system automatically adjusts to load weight, ensuring fast but smooth and precise control of all mast and fork actions - whether individual or simultaneous.
- 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 metres for steady, controlled handling. As an option, this feature can be set to activate at lifts above 2 metres.
- Market-leading *SilentRun+* hydraulic pumps (optional) plus quiet drive units and other low-noise technologies keep driver comfortable and stress-free, increase awareness of surrounding activity and avoid disturbing neighbours and co-workers.
- Pre-set ECO and PRO modes can be selected for different drivers and tasks, or customised settings can be applied by service engineers.
- Inclined and narrow dashboard, one-spoke steering wheel and optimised free lift cylinder structure maximise forward, downward and side visibility.







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# 2.5 - 3.5 TONNES | 80V INTENSIVE PRODUCTIVITY

**This range answers the need for high-powered performance in applications where IC engine lift trucks and their emissions are not permissible. Designed to cope with intensive duties and tough conditions, the trucks are highly productive and, at the same time, a pleasure to drive, thanks to their agility, intelligence and comfort.**

## TYPICAL APPLICATIONS

- Food and beverage manufacturing and wholesale
- Paper manufacturing and wholesale
- Foundries
- Chemicals, textiles and rubber
- Machinery and heavy equipment

## Agile and intelligent

The perfect lift truck should constantly adjust its own performance characteristics as circumstances change, and in this range the idea of intelligent automatic adaptation has been taken to a whole new level. Its adaptive speed control, which is part of the *Responsive Drive System (RDS)*, seems to know how the driver wants the truck to behave at any moment. Reacting to how quickly the accelerator pedal and hydraulic controls are being moved, it instantly selects the most appropriate mode. *RDS* also smooths out all stops, starts and other movements.

*RDS* combines with intelligent curve control and *OmniTurn* all-wheel drive steering to create a remarkably agile driving experience. If the driver needs an extra burst of acceleration or climbing torque, the *PowerBurst* feature automatically kicks in to maintain rapid motion. When driving in slippery environments, electric differential locking gives added confidence.

## 4 WHEEL, 80V MODELS

MODEL	CAPACITY (tonnes)	VOLTAGE (V)	LOAD CENTRE (mm)
EP25AN	2.5	80	500
EP25ACN	2.5	80	500
EP30AN	3.0	80	500
EP30ACN	3.0	80	500
EP35AN	3.5	80	500

## Comfortably in control

The latest fingertip hydraulic controls or optional dual joysticks are built into an anatomically designed, adjustable armrest which brings all related functions within comfortable reach. Control is precise and effortless. This truck range is also equipped with *SmoothFlow* and other advanced hydraulic technologies which optimise mast and fork movements according to load weights and lift heights. The result is smoother, faster and safer materials handling.

The spacious, high-comfort cabin and its equipment are ergonomically designed to allow strain-free operation with minimal need for the driver to move. Features include a flat, unobstructed floor, adjustable seat and steering wheel, pedals at optimum angles and, to maximise the view, a specially inclined dashboard and counterweight.

The operator is kept fully informed via a colour display, which can be read easily from different angles. Clear messages are given in the operator's language, along with helpful symbols. A twin-mode key switch can be set to ECO or PRO, depending on the driver's experience and the need for low energy use or rapid performance.







## KEY FEATURES AT A GLANCE

- *Responsive Drive System (RDS)* adapts performance rapidly in reaction to speed of pedal and hydraulic control operation, and ensures all movements, stops and starts are smooth.
- *PowerBurst* automatically delivers extra torque to maintain ramp speed or provide strong acceleration, even when carrying heavy loads.
- *OmniTurn* all-wheel steering offers better grip, smoother turning and unbeatably agile manoeuvring, aided by a +100° rear turning axle which enables instant side turns with no initial backward movement.
- Electric differential lock maximises grip on slippery surfaces by locking front wheels to increase traction (activated automatically at small steering angles or manually via an optional pedal function).
- Intelligent curve control maximises cornering safety by smoothly adjusting truck speed and minimising side forces.
- Spring-force-optimised fingertip hydraulic controls on adjustable, comfortable armrest ensure ergonomically perfect hand positioning, anatomical support and free movement.
- Dual joystick option separates functions such as clamp opening, to avoid accidental moves, and is especially useful if fingertip levers are too small for operation with gloves (or large hands).
- Automatic tilt centring system offers dual functionality: slight downward fork angle for smooth pallet entry and exit without scraping or dragging; and fork levelling for stable load transport.
- *SmoothFlow* hydraulic system automatically adjusts to load weight, ensuring fast but smooth and precise control of all mast and fork actions – whether individual or simultaneous.
- Automatic hydraulic control tuning maintains steady mast and chassis movements when lifting above 2.5 metres\*. (\*Activation height depends on mast chosen.)
- Passive sway control allows mast tilting forces to be absorbed by chassis during higher lifts. (Applies mainly above 3.0 metres.)
- Pre-set ECO and PRO modes can be selected for different drivers and tasks, while customised settings (including lifting and lowering) can be applied by service engineers.
- Li-ion battery option adds even greater efficiency and runtime, along with minimal maintenance needs and much longer life, for lower long-term total cost of operation (TCO).
- Weatherproof cabin options include transparent roof, steel or PVC doors, windscreen, two sliding windows on each side, rear window, front/rear wipers/washers, heater, and deluxe cabin.







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# 4.0 - 5.5 TONNES | 80V HEAVY DUTY EFFICIENCY

**With the power and efficiency to challenge an IC engine forklift, but no emissions, this range maximises every electric advantage. Enjoy quiet comfort and safer, faster, more agile performance, while reducing your overall operating costs. It's time to power up your driver and boost your business.**

## Typical applications:

- Distribution and logistics
- Automotive
- Production
- Processing
- Paper recycling
- Bottling
- Concrete
- Metal production
- Builders' merchants
- Wood

## Strong economy

These environmentally friendly trucks, emitting zero pollution in operation, make the strongest case ever for moving from large IC engine trucks to electrics. Built for demanding indoor and outdoor applications, they offer you uncompromising power and performance. They are also more energy-efficient – and quieter by far – than any other in their class. That efficiency, together with high durability, plug-in diagnostics and easy maintenance, promises you a lower total cost of operation (TCO) and higher residual value.

## Speed and agility

Their exceptional agility gives drivers the feeling of driving a much smaller truck. Dynamic aids include *OmniTurn* all-wheel steering, *RDS (Responsive Drive System)* and

## 4 WHEEL, 80V MODELS

MODEL	CAPACITY (tonnes)	VOLTAGE (V)	LOAD CENTRE (mm)
EP40N	4.0	80	500
EP45N	4.5	80	500
EP50CN	5.0	80	500
EP50N	5.0	80	500
EP50NH	5.0	80	600
EP55NH	5.5	80	600

intelligent curve control. *PowerBurst* adds extra acceleration or climbing torque when needed, while electric differential locking helps in slippery conditions.

Materials handling is smoother, faster, safer and more precise, thanks to *SmoothFlow* and other hydraulic technologies which optimise mast and fork movements according to load weights and lift heights. Light yet responsive fingertip levers or joysticks give effortless control.

## Quiet comfort

Low-noise technology, including market-leading *SilentRun+* hydraulic pumps and quiet drive units, combines with a spacious, uncluttered, vibration-free, floating operator compartment, drivers stay comfortable and stress-free. Both enclosed and open cabins give clear all-round views with no need to lean.

Standard equipment is generously specified and ergonomically designed. The seat, steering column and hydraulic control unit armrest are widely adjustable for users of all sizes. Optional features include *Palm Steering* for more relaxed operation. Weatherproof panel cabin options are available with additional comforts like air conditioning, directable ventilation and heating.





## KEY FEATURES AT A GLANCE

- Market-leading *SilentRun+* hydraulic pumps, quiet drive units and other low-noise technologies keep driver comfortable and stress-free, increase awareness of surrounding activity and avoid disturbing neighbours and co-workers.
  - Best-in-class energy efficiency extends working hours (runtime) per battery charge.
  - *PowerBurst* automatically delivers extra torque to maintain ramp speed or provide strong acceleration, even when carrying heavy loads.
  - *Responsive Drive System (RDS)* adapts performance rapidly in reaction to speed of pedal and hydraulic control operation, and ensures all movements, stops and starts are smooth.
  - *OmniTurn* all-wheel steering offers better grip, smoother turning and unbeatably agile manoeuvring, aided by a +100° rear turning axle which enables instant side turns with no initial backward movement.
  - Electric differential lock maximises grip on slippery surfaces by locking front wheels to increase traction (activated automatically at small steering angles or manually via an optional pedal function)
  - Intelligent curve control maximises cornering safety by smoothly adjusting truck speed and minimising side forces.
  - *SmoothFlow* hydraulic system automatically adjusts to load weight, ensuring fast but smooth and precise control of all mast and fork actions - whether individual or simultaneous.
  - Automatic hydraulic control tuning maintains steady mast and chassis movements when lifting above 2.5 metres\*.
- \*Activation height depends on mast chosen.*
- Obstacle-free design gives a clear all-round view of the truck's surroundings and outer dimensions – from both open and enclosed cabins – with no need to lean.
  - *Palm Steering* option offers enhanced forward view, relaxed driving position and operation with minimal effort – ideal if driver is seated for long periods.
  - Spring-force-optimised fingertip hydraulic controls on adjustable, comfortable armrest ensure ergonomically perfect hand positioning, anatomical support and free movement.
  - Simple plug-in diagnostics and troubleshooting reduce downtime and maintain efficient performance.
  - Li-ion battery option adds even greater efficiency and runtime, along with minimal maintenance needs and much longer life, for lower long-term total cost of operation (TCO).



# 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.



# MAXIMISING YOUR UPTIME

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

Our advanced controllers not only optimise 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 centres.**

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 maximise 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 truck 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.

**LET'S DO THE WORK.™**



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