

HIGHER PRODUCTIVITY



REACH TRUCKS 1.2 - 2.5 TONNES



N2 RANGES

MODEL	CAPACITY (tonnes)	CHASSIS WIDTH (mm)	DISTANCE BETWEEN SUPPORT LEGS (mm)	MAX. LIFT HEIGHT (mm)	PERFORMANCE	SUITABLE FOR DRIVE-IN RACKING	FITTED WITH poweRamic MAST	MULTI-WAY STEERING
NR14N2L	1.4	1270	1070	7500	LIGHT	✗	✗	✗
NR16N2L	1.6	1270	1070	7500	LIGHT	✗	✗	✗
NR14N2S	1.4	1270	1070	7500	STANDARD	✗	✓	✗
NR14N2HS	1.4	1270	1070	9000	HIGH	✗	✓	✗
NR16N2S	1.6	1270	1070	7500	STANDARD	✗	✓	✗
NR16N2HS	1.6	1270	1070	9000	HIGH	✗	✓	✗
NR16N2	1.6	1270	900	7500	STANDARD	✗	✓	✗
NR16N2H	1.6	1270	900	11500	HIGH	✗	✓	✗
NR16N2C	1.6	1100	900	7500	STANDARD	✓	✓	✗
NR16N2HC	1.6	1100	900	9000	HIGH	✓	✓	✗
NR20N2H	2.0	1270	900	11500	HIGH	✗	✓	✗
NR20N2X	2.0	1440	1070	13000	STANDARD	✗	✓	✗
NR25N2X	2.5	1440	1070	11500	STANDARD	✗	✓	✗
NRM20N2	2.0	1734	900	9000	STANDARD	✗	✗	✓
NRM25N2	2.5	1734	900	10000	STANDARD	✗	✗	✓

N3 RANGES

MODEL	CAPACITY (tonnes)	CHASSIS WIDTH (mm)	DISTANCE BETWEEN SUPPORT LEGS (mm)	MAX. LIFT HEIGHT (mm)	PERFORMANCE	SUITABLE FOR DRIVE-IN RACKING	MAST TYPE	FOUR-WAY STEERING
NR12N3L	1.2	1120	900	6750	LIGHT	✗	TRIPLEX / DTFV	✗
NR14N3L	1.4	1120	900	7250	LIGHT	✗	TRIPLEX / DTFV	✗
NR14N3C	1.4	1120	900	8950	LIGHT	✓	DTFV	✗
NR16N3	1.6	1270	912	8950	STANDARD	✗	DTFV	✗
NR16N3H	1.6	1270 / 1397	903 / 1030	10800	HIGH	✗	DTFV	✗
NR20N3	2.0	1270 / 1397	903 / 1030	8950	STANDARD	✗	DTFV	✗
NR20N3H	2.0	1270 / 1397	903 / 1030	11500	HIGH	✗	DTFV	✗
NR20N3HX	2.0	1397	1030	12100	HIGH	✗	DTFV	✗
NR25N3H	2.5	1397	1030	8950	HIGH	✗	DTFV	✗
NRM20N3	2.0	1744 / 1498	903	8500	STANDARD	✗	DTFV	✓
NRM25N3	2.5	1744 / 1498	903	9700	STANDARD	✗	DTFV	✓



MAXIMISING YOUR PROFITS

Cat® Lift Trucks brings you a massive choice of reach trucks, engineered to make your business more profitable. Whatever your application and needs.

We start by increasing your output. Cat® trucks offer high levels of power, performance and control – to get the job done, quickly and safely. They are also ergonomically and comfortably designed to get the best out of your driver.

At the same time, they cut your costs through their efficiency, durability and low maintenance needs. Your bottom line will show a fast return on your investment.

Your local expert Cat lift truck dealer will find you the perfect model – and back it with solid support.

CONTENTS	PAGE
MAXIMUM CHOICE – FOR PERFECT APPLICATION MATCHING	4
THE N2 REACH TRUCK RANGES	6
THE N3 REACH TRUCK RANGES	8
MULTI-WAY REACH TRUCKS	10
FOUR-WAY REACH TRUCKS	11
A REACH TRUCK FOR EVERY SITUATION	12
ADAPTABLE TO THE HARSHTEST CONDITIONS	13
LOWERING YOUR COSTS	14
A WEALTH OF DEALER SERVICES	15

MAXIMUM CHOICE – FOR PERFECT APPLICATION MATCHING

To maximise choice and enable optimum matching with your requirements, we offer no fewer than 26 reach truck models. Along with specialised four-way (page 11) and multi-way (page 10) trucks, we have two distinct groups of light and standard/high-performance reach trucks:

THE N2 RANGES PAGE 6



NR14-16**N2**L
light reach trucks



NR14-20**N2**(S)(H)(C)(X)
reach trucks

THE N3 RANGES PAGE 8



NR12-14**N3**(L)(C)
light reach trucks



NR16-20**N3**(H)(X)
reach trucks

There are variations in design and feature specification between the N2 and N3 groups, which may appeal to different users. Whichever you choose you can be sure of full Cat product quality. The following guide should help to point you in the right direction, but there are many additional factors to weigh up before deciding on which will work best for you. The best source of advice is your local Cat lift truck dealer.

Which of the following statements are true for your reach truck driver?

(Please be aware that this is just the start. A wide variety of other issues must be considered when determining the right truck for your application.)

Spends most of each shift in the reach truck driving seat – and rarely leaves it, except for breaks.

Go to 1



N3 provides the ultimate in comfort and ergonomics for drivers who spend a long time each day in the driving seat. Features include: *Palm Steering* and multifunctional joystick, on adjustable armrests, for relaxed driving position and control with minimal movement; tilting seat to minimise strain when viewing loads at height; electrically adjustable floor height to fit the driver.*



1

*Tilting seat and adjustable floor height not available on light (L) reach truck models.

Enters and exits the truck many times during a shift.

Go to 2



N2 is ideal for frequent on-off access, thanks partly to its lower step and seat height. In addition, its adjustable steering assembly can be easily lifted up for obstacle-free entry/exit and then quickly returned to the desired position. It also offers top levels of ergonomics and comfort throughout.



2

Uses the truck for less than two hours per shift.

Go to 3



Light (L) models in the N2 and N3 ranges are the cost-effective option when shifts are less than 2 hours. A key specification choice is between the N3's *Palm Steering* and multifunctional joystick or the N2's conventional steering wheel and fingertip controls.



3

Also drives counterbalance lift trucks.

Go to 4



N2 controls and displays are very similar to those on Cat counterbalance trucks. They include a conventional steering wheel and an armrest-mounted fingertip hydraulic control unit. This familiar set-up is important if the driver operates counterbalance as well as reach trucks.



4

But remember...

Your choice will also depend on the width of your aisles, the weight of your loads, the maximum height to which they must be lifted, and the residual capacity required.

Your expert Cat lift truck dealer will look at all of these variables, and more, before identifying the ideal N2 or N3 model to meet your needs.



SCAN TO VIEW OUR
REACH TRUCKS RANGE



THE N2 REACH TRUCK RANGES

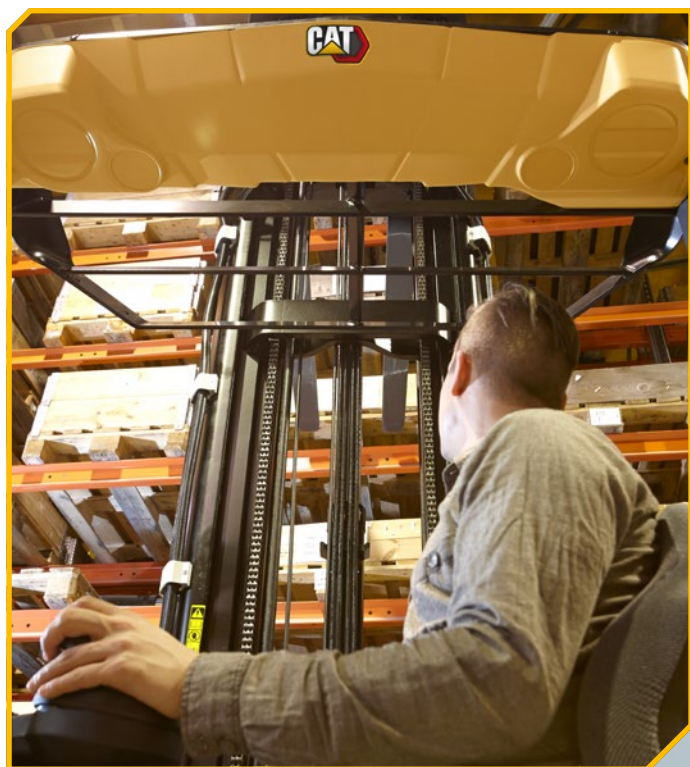
NR14-20N2(S)(H)(C)(X) standard/high-performance reach trucks

Maximise your productivity and profits. This range empowers operators with boosted performance, class-leading residual capacities, sensitive control and ergonomic design.



NR14-16N2L light reach trucks

Move up to a reach truck. Light models bring Cat reach truck benefits to a wider range of businesses. For light and medium duties at heights up to 7.5 metres.



Lifting capabilities

Our *poweRamic* masts* are stronger, narrower and easier to see through than conventional masts. They enable lifts up to 13 metres and are the class leaders for residual capacity.

In all models, we enhance driving and mast behaviour, stability, lifting ability and residual capacity with:

- Rigid attachment of the driver compartment to a strong truck base
- Adjustable clearance rollers
- Wide drive wheel
- Large oil tank capacity
- Passive sway control system
- Active sway control option*



Controlled performance

Every movement of the truck and its mast assembly is sensitively and accurately controlled by the Responsive Drive System (RDS). Work becomes faster but safer, smoother and more comfortable.

Automatic systems smoothly adjust drive speed for safety when cornering or when travelling with raised loads. Reach speed above initial lift is also reduced.

Progressive steering adjusts with drive speed to optimise response and control.



Ergonomics and comfort

The spacious and comfortable driver compartment accommodates users of all sizes. Its features include:

- High-comfort seat, adjustable for driver size, weight and tilt
- Lined walls and convenient storage spaces
- Clear forward, upward and all-round views
- Notched steering wheel allowing a choice of hand positions
- Fully adjustable steering assembly – which lifts up for easy truck entry and exit
- Fingertip hydraulic controls on supportive adjustable armrest
- Direction control switching by hand or – if preferred – by foot
- Full-colour, easy-to-use, multifunctional display

**Not on light (L) models*

THE N3 REACH TRUCK RANGES



NR16-20N3(H)(X) **standard/high-performance** **reach trucks**

Drive profit with sustained productivity. These trucks are ergonomically and comfortably equipped for long hours in the driving seat.



NR12-14N3(L)(C) **light reach trucks**

Save time, money and space. Our light and compact models are great at manoeuvring in small spaces. For light and medium duties at heights up to 7.25 metres.





Controlled performance

Automatic drive speed reduction makes smooth adjustments for safety when cornering or when travelling with raised loads.

Automatic hydraulic motion control** optimises the speed of all mast movements according to lift height. Every action is smooth, quiet and precise.

Progressive steering adjusts with drive speed to optimise response and control.

Lifting capabilities

Mast choices enable lifts up to 12.1 metres, with clear views.

The Mast Tilt Control (MTC)** damping system reduces oscillations by up to 80%, for faster load handling with higher stability.

Tilting masts reduce the aisle width needed and enhance safety at high lifts.



Ergonomics and comfort

The driver compartment is spacious and comfortable, accommodating users of all sizes. Its features include:

- Electrically adjustable floor height* for the perfect driver fit
- Tilting seat* – to reduce strain when viewing loads at height – with adjustment for driver's weight
- Tapered seat backrest* for easier turning of the driver's body toward the driving direction
- Clear forward, upward and all-round views
- *Palm Steering* on an adjustable floating armrest for relaxed operation with minimal effort and strain
- Multifunctional joystick (or optional fingertip levers) on supportive adjustable armrest for hydraulic control
- Direction control via accelerator pedal
- Intuitive, easy-to-read display

**Not on light (L) or compact (C) models*

***Standard or optional, depending on model and/or mast choice*

MULTI-WAY REACH TRUCKS

NRM20-25N2 **Versatile motion**

Cat multi-way models share all the performance and ergonomic advantages of the N2 reach trucks. (See pages 6/7.) To those they add flexible multi-directional travel capabilities.

A high-quality fork positioner, with an inbuilt tilt function, provides the wide spread they need. It allows them to carry anything from standard pallets to exceptionally long loads. Pipes, planks and girders, for example. Combined with the all-wheel synchronised steering, it creates an ideal solution for handling such items in narrow aisles.

Each load wheel has an independent steering motor, controller and brake system. They can each turn 360° in either direction, for maximum manoeuvrability, speed and precision – whatever the task.

In addition to forward/backward, sideways, diagonal and rotational motion, the trucks have an agile cornering mode. A sixth mode enables automatic transition between normal and lateral modes without having to stop.

In common with N2 reach trucks, multi-way models benefit from the Responsive Drive System (RDS). Reacting to the speed of accelerator pedal and hydraulic control movement, RDS constantly adjusts performance parameters to meet changing needs. It also makes all mast movements fast but smooth, accurate and controlled, with high stability and minimal sway.



A high-quality fork positioner provides the wide spread needed to handle a huge variety of loads.



All movements are fast and smooth, with high mast stability and minimal sway.



FOUR-WAY REACH TRUCKS

NRM20-25N3 **An extra dimension in productivity**

Cat four-way models share the ergonomically advanced features and controlled performance characteristics of the N3 reach trucks. (See pages 8/9.) To those they add four-way flexibility.

Drivers can handle both normal pallet loads and extremely long items, thanks to a wide hydraulic fork spreader. This combines with 360-degree synchronised steering for versatile forward, backward and sideways movement with fast direction changes. The result is swift manoeuvring even in narrow aisles.

Operation is relaxed but precise, via multifunctional joystick controls and *Palm Steering*. Armrest positions and floor height are adjustable for a perfect driver fit. A tilting, weight-adjusted seat reduces the strain of viewing loads at height.

Automatic reduction of drive and hydraulic speed, when necessary, ensures rapid, smooth and safe operation. Adjustments are made according to steering angle, lift height and load weight. Stability-enhancing control of mast tilt is standard or optional depending on your choice of mast.

A REACH TRUCK FOR EVERY SITUATION

With so many Cat reach truck model choices, you're sure to find one that's perfect for your application.

For a summary of the variants, see our notes below and the table on page 2.

Chassis widths

- 1270 mm on most models
- Narrower (1100 mm) on the two 1.6 tonne N2 compact (C) models
- Narrower (1120 mm) on N3 light (L) and N3 compact (C) trucks
- Wider (1440 mm) on extra-high lifting (X) N2 trucks
- Wider (1397 mm) on N3 2.5 tonne and extra-high lifting (X) 2.0 tonne models
- Wider 1734/1744 mm) on multi-way and four-way (M) trucks

Lift heights, nominal capacities and residual capacities

Page 2 summarises maximum lift heights, which depend on model and mast choice. Our spec sheets contain detailed mast tables. Your dealer will advise you on the right nominal capacity and mast choice. This will be calculated to give the residual capacity necessary for your load weights and racking heights.



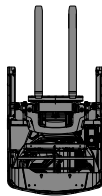
Compact (C) models

Can be adapted with a narrow overhead guard for use in drive-in racking. The N3 compact can also be fitted with extra wheels for rail guidance.



High-performance (H) models

For heavier loads and/or higher lifts. Equipped with a more rigid mast and higher-powered lift motor.



Straddle (S) models

Can retract pallets up to 1000 mm wide between their load legs – without having to lift the pallet above load leg height first. There is no need for a beam under the lowest pallet in the racking. Instead of placing load legs under the rack, the truck can lift from floor level.



Light (L) models

For light and medium duties at heights up to 7.5 metres (N2) or 7.25 metres (N3)



Extra-high lifting (X) models

As in H, and with wider chassis for extra stability.



Multi-way and four-way (M) models

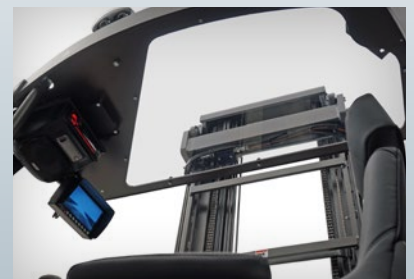
Highly specialised multi-directional trucks, described on pages 10/11.

Options

Each model can be adapted further to its specific application through our wide selection of optional extras.

See our spec sheets for lists, which vary between ranges. Examples include:

- Pre-set height selector
- Transparent overhead guard roof
- Fork-mounted camera with monitor
- Telescopic forks
- Load weight scale
- 360-degree steering



ADAPTABLE TO THE HARSHTEST CONDITIONS

High visibility through a crash-proof polycarbonate roof window, which doubles as an emergency exit

Electrically heated windows prevent misting and condensation

Outwardly curved door profile maximises interior space

Steel collision guard gives added protection - particularly to the door

Slim beam profile and optimised glass area contribute to excellent 360° visibility

Good insulation means less energy is required to keep the cabin warm

Cabin is insulated from vibration

Compatible batteries:
620 Ah
775 Ah
930 Ah



When equipped with both the cabin and the necessary cold store modification (MODCS), a reach truck can operate dependably in freezing temperatures as low as -35°C.

Visibility

The cabin design gives operators a secure and comfortable environment in which to work, with excellent all-round visibility thanks to its optimised glass area.

Efficient heating

The temperature-controlled heating system has an adjustable blower speed and directional nozzles. In cold conditions, it pre-heats fresh air from outside using heat from the truck's control systems that would otherwise be lost. Special care has gone into thoroughly insulating the cabin. Excellent insulation means that less energy is required to heat the interior, which helps optimise overall power consumption.

Options

• Roof wiper • Heated seat • Intercom system



LOWERING YOUR COSTS

A man with blonde hair, wearing a blue t-shirt and black cargo pants, stands next to a yellow and black forklift. He is wearing black gloves and has his hand on the forklift's control lever. The background shows an industrial facility with yellow structures and a blue sky with clouds.

We cut your total cost of operation (TCO) by making our reach trucks robust, easy to maintain and efficient.

Durable components and protective design minimise damage and wear. Long service intervals, easy access features and onboard diagnostics reduce time spent on maintenance.

A user-friendly display encourages correct use and servicing of the trucks. PIN code identification can be used to block unauthorised users. Performance parameters are personally programmable to set safe limits for each identified driver.

This all adds up to less downtime and less spending on service and repair labour.

Our energy-efficient motor, pump and control technology is another money saver. For even greater efficiency, runtime and battery lifespan, you can opt for lithium-ion (Li-ion*) batteries. As well as enhancing performance and minimising maintenance needs, they enable fast opportunity charging. This allows continuous operation without battery changes.

**Li-ion is available on all trucks except N3 light/compact and N2 multi-way.*

A WEALTH OF DEALER SERVICES



Wherever you are, and however hard your challenges, your local Cat lift truck dealership is there to help. Our dealers' customer support and service teams are dedicated to answering every need. They will work closely in partnership with you and your business to ensure:

- You have the right trucks and equipment for the job
- Your trucks keep on running – at optimum efficiency
- Your operation achieves maximum results

Aftersales service

Our fully equipped service vans will respond quickly to your calls. They carry specialised tools and stocks of genuine parts. Their drivers are well-trained service technicians with the latest technical information and knowledge. You can be sure of highly professional inspection, servicing and repair work.

Maintenance programmes

Carefully scheduled servicing by our factory-trained technicians will minimise downtime and extend truck life. Our individually tailored programmes also help you with accurate budgeting and control over operating costs. We can work out a maintenance plan that's right for you.

Financing options

We offer a wide range of finance plans to suit your cashflow and other circumstances. They include outright purchase, leasing and rental agreements. We can spread the cost of your trucks over their working life in the most tax-efficient way.

Fleet management

We can monitor, control and reduce your materials handling costs. We can then re-engineer your fleet to meet your needs more cost-effectively. Our optional benefits for national or multinational operations include: service contracts; training and safety programmes; fleet audits; application surveys; centralised billing; cost analysis and reporting.

Parts supply

Parts availability is crucial to maintaining productivity. Our 'full line, first pick' rate is the best in the industry. It currently stands at 97%. For current models it's even higher.

Dependable support

You can depend on our dealerships. They, in turn, can depend on the support, expertise and resources of our global organisation. Together we'll do whatever it takes to make your business stronger.





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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