

**NR14-16N2L, NR14-16N2S, NR14-20N2H, NR14-16N2HS, NR16N2,
NR16N2(H)C, NR20-25N2X, NRM20-25N2**



HIGHER PRODUCTIVITY

REACH TRUCKS
1.4 - 2.5 TONNES



MAXIMISING YOUR PROFITS

15 MODELS TO CHOOSE FROM

MODEL	CAPACITY (tonnes)	CHASSIS WIDTH (mm)	DISTANCE BETWEEN SUPPORT LEGS (mm)	MAX. LIFT HEIGHT (mm)	PERFORMANCE	SUITABLE FOR DRIVE-IN RACKING	FITTED WITH poveRamic 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	✗	✗	✓

Today's NR-N2 range reach trucks combine modern style with state-of-the-art engineering to bring you exceptional levels of productivity. Designed with performance, durability and profitability in mind, they offer class-leading residual capacities, high efficiency, superior ergonomics and low maintenance needs.

Within the extensive choice of models and options there are configurations suited to a wide variety of demanding applications. Your Cat® lift truck dealer will find the one that matches your requirements perfectly and will support you with excellent customer service to maximise the return on your investment.



CONTENTS	PAGE
STRENGTH AND CLEAR VISION	4
DESIGNED AROUND YOUR OPERATOR	7
A CHASSIS FOR EVERY SITUATION...	10
... AND OPTIONS TO MEET EVERY NEED	11
VERSATILE MOTION	12
ADAPTABLE TO THE HARSHTEST CONDITIONS	13
NON-STOP PRODUCTIVITY / THE POWER OF AC	14
TOTAL SOLUTIONS FOR EVERY CHALLENGE	15

STRENGTH AND CLEAR VISION

The clever design of the poweRamic* triplex free-lift mast and its backrest gives operators the best possible view of the fork tips and support legs, for smooth, precise, fast handling and pallet entry – with less chance of damage to loads and racking.

Its structure, with hydraulic cylinders incorporated into its profile, is both stronger and narrower than that of a conventional mast. As well as increasing visibility, the compact design has allowed enlargement of the operator compartment.

High mast strength and a stiffened chassis have helped to deliver class-leading capacity retention at full lifts, which now extend to an impressive 13 metres.

Advanced mast handling features, included in the Responsive Drive System (RDS) on the NR(M)-N2 range, smooth out all reach movements and ensure rapid, accurate lifting, lowering, tilt and sideshift functions. Electronic damping also contributes to the mast's quiet, jerk-free performance. Meanwhile, the latest mast and reach carriage technology adds high stability and minimises sway.

Reduction and careful placement of hoses and cables aids vision and helps to avoid damage and leaks. Increased pump life and longer oil change intervals result from the mast design's enhanced heat conductivity, which assists in cooling the hydraulics.

* Please note that multi-way models have different specialised masts. Light reach truck models NR14N2L and NR16N2L are fitted with a mast that is well suited to lighter applications. All models have RDS and S⁴ mast handling.





Exceptionally clear operator's view (left and below), with carefully placed cables and hoses and incorporation of hydraulic cylinders into the mast profile (far left).



DESIGNED AROUND YOUR OPERATOR

The ideal workspace

Effortless access to the wide, unobstructed, comfortable, protective cabin is aided by an intermediate step, ergonomic grab handles and a low seating position which also gives extra headroom.

The seat's backward/forward placement, backrest angle and suspension can be adjusted to suit operators of any size, shape or weight, ensuring comfort and concentration through long shifts. From this position all controls are within easy reach, while unsurpassed all-round visibility, from floor to maximum lift height, is possible thanks to the special design of the mast, fork carriage and overhead guard.

Fully adjustable controls

A totally redesigned adjustable armrest, combining anatomical support with free movement and perfect hand positioning, features spring-force-optimised fingertip hydraulic controls.

The steering wheel console can be angled horizontally up or down, through five steps, in a few seconds. It also slides in and out so that each operator can set the perfect position for use. With the aid of a steering knob, unlimited 360° turning is easy. The smooth, progressive steering system reduces in sensitivity as truck speed increases, to lower the chances of instability during sharp turns.

Instant information

The latest full-colour display panel gives clear information, in the operator's own language, and its functions are very simple to learn. By maintaining awareness of truck status and avoiding misuse, it protects your investment.

Features include a PIN code starter system (optional) giving access to as many as 30 operators and preventing unauthorised use. Travel speed, drive wheel direction, battery charge and other readouts can be seen clearly, without looking down, thanks to the angled screen.

The latest display panel, hydraulic control unit and steering console make operation easy, comfortable and precise. The spacious operator compartment (right) features a fully adjustable seat to meet each individual's needs.



DESIGNED AROUND YOUR OPERATOR

Ergonomic pedals

The shallow pedal angle allows the operator's heels to rest on the floor, avoiding strain in the ankles even over long shifts. For precise control, the accelerator and brake pedals allow passive and active regenerative braking, as well as emergency braking, and are programmable for speed of effect.

The 'dead man's pedal' is designed to prevent truck operation unless depressed by the weight of the left foot. It also serves to keep the operator's left leg safely within the truck. If you prefer, it can be programmed as a travel direction switch.

Storage spaces

Various convenient spaces have been designed to accommodate work equipment, paperwork and personal belongings.

Advanced controller

Our new-generation MicroCommand® controller is the beating heart of the NR-N2 range, playing a crucial role in optimising the driving experience, maximising efficiency and monitoring truck functions.

As well as governing PIN code access (optional), it can be used to programme the truck's features and performance to meet the exact needs of each application and operator. Up to 25 parameters can be changed by the service engineer, such as maximum drive and lift speeds, sideshift speed and lift height pre-selection.

Automatic safety

A number of added operator protection features, giving automated safety assistance, are built into the truck's design. They include the Responsive Drive System (RDS) with advanced mast handling, stability enhancement, mast sway minimisation and full programmability, or user-selected modes, to suit individual operators and tasks.

Travel speed is automatically reduced as the mast and forks rise. Curve control monitors both drive speed and lift height, and constantly adjusts the speed limit to avoid instability in tight turns. Progressive steering also adjusts according to speed to maintain stability. Automatic adjustment of drive speed, acceleration and traction ensures slip-free operation even on wet surfaces. Inbuilt battery rollers, fitted as standard, allow fast, easy, safe changes. With the optional battery changing device, changes can be made without moving the truck.

Accessories

Optional extras for the compartment include:

- Cooling fans
- Audio system, incl. speakers, amplifier, AUX 3.5 mm jack connector
- Working lights
- Reading lamp
- Seat belt
- Seat heating (only on high performance chair)
- Rear-view mirror
- Fork camera with 7" colour display mounted on the overhead guard*

*Not on NR14N2L and NR16N2L.



- 1 Auxiliary buttons
- 2 Start key switch
- 3 PIN pad and menu selection keys
- 4 Display
- 5 Emergency stop
- 6 Sideshift lever
- 7 Fork tilt lever
- 8 Reach movement lever
- 9 Lift and lowering lever
- 10 Lift pre-set height selector
- 11 Drive direction switch
- 12 Horn

A CHASSIS FOR EVERY SITUATION...

There are 15 N2 generation models to choose from, in a variety of configurations including high performance, compact and straddle versions. You are sure to find one that is perfect for your application, load and pallet type.

The chassis is stiffened, in all cases, to maximise stability and residual capacity. Standard size is 1,270 mm wide, but there is also a large chassis for the heavy duty **NR20/25N2X** (1,440 mm) and a smaller one for the compact **NR16N2C** and **NR16N2HC** (1,100 mm).

Our space-saving straddle models allow pallets of 1,000 mm width to be retracted within the load legs. For drive-in racking applications the compact models are ideal, thanks largely to a narrow overhead guard which enables them to operate between the first level beams.

Light reach truck models **NR14N2L** and **NR16N2L** offer an entry-level option for light and medium duties at heights up to 7.5 metres.

When handling long loads in narrow aisles, the multi-way reach trucks **NRM20N2** and **NRM25N2** offer the ultimate in warehouse flexibility. The amazing mobility made possible by their all-wheel steering system, with forward, backward, sideways, diagonal and rotational movement, is far superior to that of a four-way truck.

Right, top: Shown side by side, NR20N2X on left and NR16N2S on right.

Right, bottom: The multi-way reach trucks are designed for handling long loads.



CHASSIS WIDTHS

MODEL	CAPACITY (tonnes)	CHASSIS WIDTH (mm)
NR14N2L	1.4	1270
NR16N2L	1.6	1270
NR14N2S	1.4	1270
NR14N2HS	1.4	1270
NR16N2S	1.6	1270
NR16N2HS	1.6	1270
NR16N2	1.6	1270
NR16N2H	1.6	1270
NR16N2C	1.6	1100
NR16N2HC	1.6	1100
NR20N2H	2.0	1270
NR20N2X	2.0	1440
NR25N2X	2.5	1440
NRM20N2	2.0	1734
NRM25N2	2.5	1734



...AND OPTIONS TO MEET EVERY NEED

For extreme temperatures

Our factory-fitted cabin with heating and other cold store modifications keeps operators comfortable during long shifts in freezing conditions (see page 13). Heated windows prevent condensation when the truck leaves the cold store. In hot environments (up to and exceeding 40°C), extra cooling fans and special oil prevent leaks and maintain truck performance.

For the ultimate in stacking efficiency

Our latest pre-set height selector is easier to use than any other on the market, so stacking is faster and safer than ever.

OPTIONAL FEATURES INCLUDE

- Choice of lithium-ion (Li-ion) or lead-acid batteries
- Seat with mechanical or air suspension
- Special chassis colour
- Custom-designed or special RAL colour side covers
- Audio system with audio input 3.5 mm jack
- Options bar
- Rear-view mirror
- List bracket
- PC support
- Overhead guard with mesh or Plexiglas
- Easy-use pre-set height selector** ***
- Extra hydraulic valve and hosing to fork carriage ***
- Fork positioner ***
- Fork-mounted camera with monitor** ***
- Telescopic forks** ***
- Sideshift and tilt function centring**
- Load weight scale
- Current output 12V/4.4A and USB 5V power supply for mobile charge
- Alarm for driving, lifting and lowering
- Battery changing device and quick battery locking system
- Cold store modification
- Cold store cabin* ***
- High-temperature modification**

* Fitting of the cold store cabin requires MODCS - Cold store modification.
Cold store cabin not available for compact 'C' models.

** Not on multi-way models.

*** Not on NR14N2L and NR16N2L.



Stacking can be made even faster and safer with our easy-to-use pre-set height selector.



The Li-ion battery option increases efficiency and output, especially in intensive, multi-shift, 24/7 operations.

VERSATILE MOTION

The N2 generation of multi-way reach trucks – NRM20N2 and NRM25N2 – takes the ergonomic, performance and durability advantages of the NR-N2 reach truck range and adds amazingly flexible multi-directional travel to its capabilities.

A high-quality fork positioner, with an inbuilt tilt function, provides the wide spread needed to handle anything from a standard pallet to an exceptionally long load. Combined with the all-wheel synchronised steering, it creates an ideal solution for handling items such as pipes, planks and girders in narrow aisles.

Each load wheel has an independent steering motor, controller and brake system, and turns 360° in either direction, for unbeatable 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 the NR-N2 range, 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 the operator's changing needs.

RDS also features S4 mast handling and other advances to make all movements fast but smooth, accurate and controlled, with high stability and minimal sway.

Whether deployed in specialist industries such as timber, metal and electricity, or in general distribution and logistics centres, the efficiency and versatility of these multi-way trucks will empower operators to reach new levels of productivity.



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.

ADAPTABLE TO THE HARSHTEST CONDITIONS



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

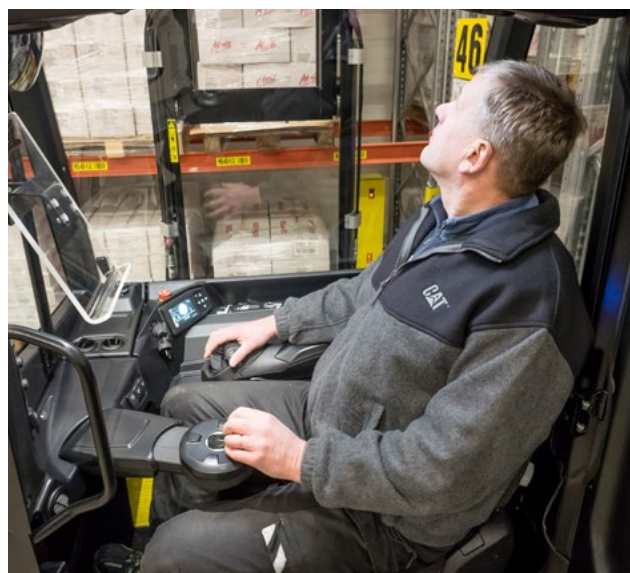
The cabin design gives operators a secure and comfortable environment in which to work, with excellent all-round visibility thanks to its optimised glass area.

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



The spacious interior is a comfortable 'office' for operators and offers excellent visibility.

NON-STOP PRODUCTIVITY

To minimise downtime and costs, while maintaining peak performance, we build durability, easy servicing and rapid diagnostics into these reach trucks. Maintenance-free AC power, a 600-hour service interval, CANbus cabling and quick access to all components, including pumps and controllers, are all part of this approach.

Aftersales service

Our highly trained technicians are on call to provide top-quality service for your fleet. Their fully equipped service vans carry specialist tools and carefully managed stocks of genuine Cat lift truck parts. With access to the latest technical information, they are able to carry out all inspections and procedures to the highest professional standards.

Maintenance plans

Preventative maintenance, carried out by our qualified technicians, maximises uptime and extends equipment life. Our plans, individually tailored by your dealer to meet to your particular requirements, ensure prompt, professional service while giving you accurate budgeting information and full control over your operating expenses.



THE POWER OF AC

Advanced AC technology results in a smooth, quiet and satisfying driving experience for your operator and powerful but economical performance to benefit your business. The latest AC motors give excellent control over speed and torque. They are more efficient than DC motors, and their continuing development has reduced energy consumption even further. Their programmability is also superior.

Unlike DC motors, they do not require carbon brushes. This allows designers to fit a larger and more powerful AC motor in the space that a normal DC motor would traditionally have taken. The result is extra performance without reducing compartment space or increasing truck dimensions.

Another great advantage is that AC motors are virtually maintenance-free. In addition, an AC system can use regenerative braking, which saves wear on the mechanical brake components, recycles power to the battery and makes performance smoother and more comfortable.



TOTAL SOLUTIONS FOR EVERY CHALLENGE

Our network of dealers is there to help you choose the right model and configuration, maintain its productivity and support you in every way necessary to maximise your profits. You are sure to benefit from their specialist knowledge, wide experience and excellent service.

Tailored finance options

Your dealer can offer a wide range of options including outright purchase, leasing and rental agreements, tailored to your circumstances and cash flow, to spread the equipment's cost over its working life in the most tax-efficient way.

Efficient fleet management

We can identify, control and reduce materials handling costs and re-engineer fleets to improve utilisation. For national or multi-national operations, extra benefits from our International Fleet Sales & Services department include service contracts, training and safety, fleet audits, application surveys, centralised billing, cost analysis and reporting.

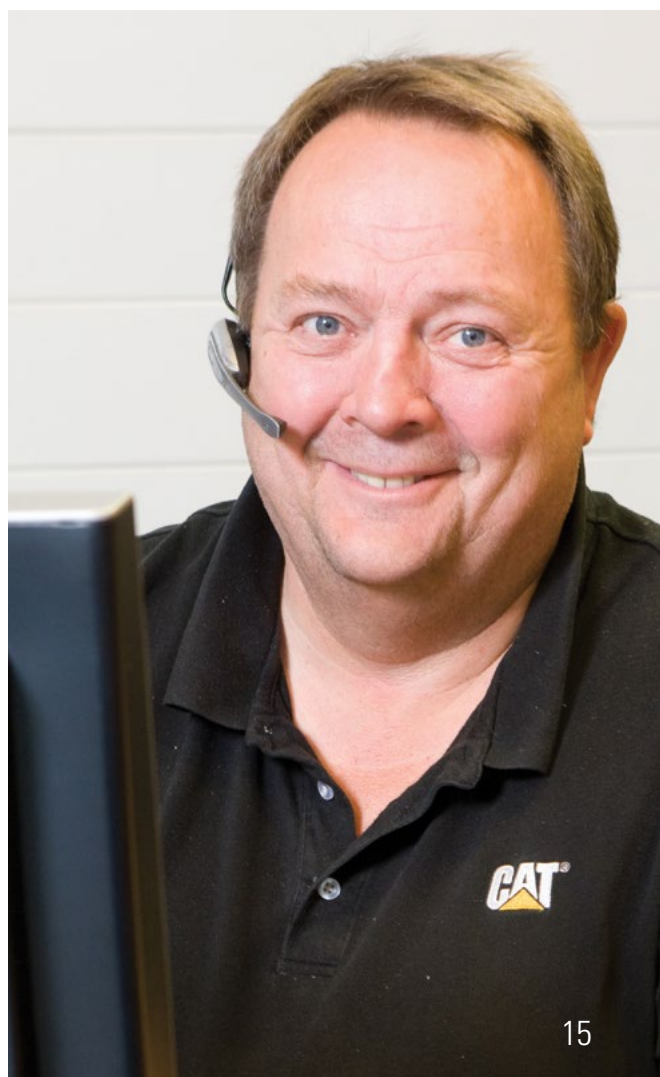
Fast parts supply

Our parts availability is the highest in the industry – currently 97% (measured full line, first pick), and even higher for models still in production.

Your partner in materials handling

Our whole organisation is geared to providing a seamless and efficient service to keep your operation running smoothly and profitably. For more information on our reach trucks, or the rest of our comprehensive range, contact your local dealer.

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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