

NR14-16N
NR14-25NH
NR16NC/NHC
NR16NS
NRM20-25K

Reach trucks
1.4 - 2.5 tonnes



REACH TRUCKS YOU CAN DEPEND ON

These rugged machines combine modern styling with a highly engineered design that delivers top performance and exceptional productivity.

Available in 4 different capacities with 3 chassis options and with standard and high performance models, these trucks are ready to tackle a wide range of demanding customer applications. Specifically designed around the things that matter most: Quality, Durability and Customer Service, the NR-N range features class-leading residual capacity, a spacious operator compartment, enhanced ergonomics, extended service intervals and is backed by one of the most comprehensive customer support networks in the industry, for exceptional return on investment.

12 MODELS TO CHOOSE FROM

MODEL NUMBER	NOMINAL CAPACITY (kg)	CHASSIS WIDTH (mm)	DISTANCE BETWEEN SUPPORT ARMS (mm)	MAX. LIFT HEIGHT (mm)	PERFORMANCE	SUITABLE FOR DRIVE-IN RACKING	FITTED WITH POWERAMIC MAST	MULTI-WAY STEERING
NR14N	1400	1270	1070	7500	Standard	✗	✓	✗
NR14NH	1400	1270	1070	9000	High	✗	✓	✗
NR16N	1600	1270	900	7500	Standard	✗	✓	✗
NR16NH	1600	1270	900	11500	High	✗	✓	✗
NR16NS	1400	1270	1070	7500	Standard	✗	✓	✗
NR16NHS	1600	1270	1070	9000	High	✗	✓	✗
NR16NC	1600	1100	900	7500	Standard	✓	✓	✗
NR16NHC	1600	1100	900	9000	High	✓	✓	✗
NR20NH	2000	1270	900	11500	High	✗	✓	✗
NR25NH	2500	1440	1070	11500	High	✗	✓	✗
NRM20K	2000	1700	900	9000	Standard	✗	✗	✓
NRM25K	2500	1700	900	9000	Standard	✗	✗	✓

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TRUCK NOMENCLATURE EXPLAINED...

- NR** Narrow aisle Reach truck
- 14** Nominal capacity (example)
- N** Generation
- H** High performance model
- S** Straddle (wider distance between load legs)
- C** Compact chassis for drive-in racking
- M** Multi-way steering
- K** Generation



HIGH VISIBILITY POWERAMIC MASTS

The triplex poweRamic mast with free lift and re-designed fork backrest dramatically improves the operator's view of both fork tips and support legs for smooth and fast pallet entry, effectively reducing the possibility of damage to loads and racking.

Its clever design not only makes the mast stronger but also narrower, from the operator's point of view, by incorporating the hydraulic cylinders within the profile. In turn this has allowed more space for a bigger operator compartment.

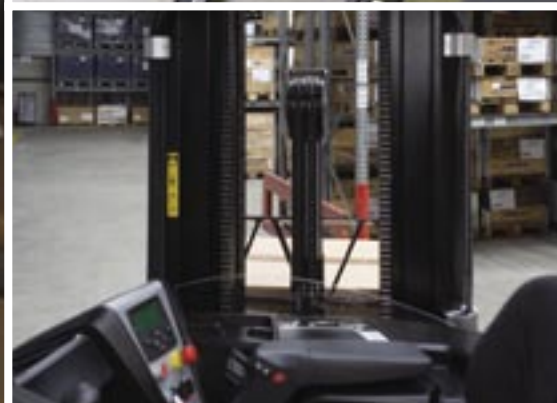
However the main benefit, in combination with a new stiffened chassis, has been greatly improved, class-leading capacity retention at full operating heights.

Electronic 'damping' between the mast stage transitions and at the maximum and minimum end stops prevents jerking of fragile loads while also reducing noise.

Hoses and cables to the cylinders have been reduced to a minimum and carefully placed, not only to aid visibility but to reduce the risk of damage or leaking.

The mast profile also conducts heat better than the traditional cylinder, resulting in more effective cooling of the hydraulics, leading to increased lifetime for the pump and longer oil change intervals.





Dramatically improved operator's view (*left & above*) with carefully placed cables and hoses (*above*) and the hydraulic cylinders incorporated within the mast profiles (*far left*).

SPACIOUS AND COMFORTABLE OPERATOR COMPARTMENTS

Featuring fully adjustable controls and seat, any driver whatever their size or shape, can sit comfortably with steering and fingertip hydraulics easily to hand, leading to greater concentration over longer shifts and therefore higher productivity.

Views through the mast, fork carriage and cleverly angled overhead guard are unsurpassed, offering excellent visibility from the floor through to maximum operating levels.

For easy on-off access there is an intermediate step, conveniently sited grab handles on both sides of the compartment and a flip-up steering wheel console.

For comfort and as an added safety feature, the inside of the compartment and overhead guard are lined with soft plastics to cushion the driver from impact that may happen in an accident.

FULLY ADJUSTABLE CONTROLS AND SEAT

The seat can be adjusted forward or back, as well as the angle of the backrest. Also the suspension can be set to suit an operator's weight, for maximum driving comfort.

The hydraulic controls are sited in the armrest in a staggered arrangement so that they sit easily under the fingertips and thumb of the right hand. The armrest itself can be tilted so that the angle relative to the shoulder and forearm can be set at the ideal position for each driver.

The steering wheel console can quickly be angled horizontally up or down, in five steps, and also slides in and out allowing each driver to quickly set the most comfortable position for use. The steering knob fits comfortably in the operator's left hand, making unlimited 360° turning easy and stress-free.

And the smooth, progressive steering reduces sensitivity as truck speed increases, lessening the chances of instability when making sharp turns at speed.

CLEAR AND PRACTICAL DISPLAY PANEL

The centrepiece of the compartment is the new display panel which incorporates a pin-code 'starter' system for up to 30 different operators, whilst also preventing unauthorised use.

The navigation and selection buttons below the display allow the truck to be programmed for optimum use for any application, by adjusting travel speed and hydraulic functions.

Travel speed, drive wheel direction and battery charge are clearly displayed and the unit is angled towards the driver making it easy to see without looking down.



(Inset pictures from top)

The new display panel, adjustable fingertip controls and steering console make operation easy and comfortable. The spacious operator compartment *(above)* also features a fully adjustable seat to accommodate drivers of almost any size and shape.

SPACIOUS AND COMFORTABLE OPERATOR COMPARTMENTS

(CONTINUED)

COMFORTABLE FOOT PEDALS

The shallow angle of the pedals allows the driver to travel with his heels on the floor, keeping his ankles stress free, even over the longest shifts.

The accelerator and brake pedals are programmable for speed of effect and also incorporate passive and active regenerative braking as well as emergency braking when necessary, for precise and accurate control. The 'deadman's' pedal is positioned under the operator's left foot and prevents operation of the truck, unless depressed. It is easily kept down by the weight of the driver's foot and also keeps his left leg safe within the confines of the compartment. Alternatively, the deadman's pedal can easily be programmed as a travel direction switch, through the operator menu, if preferred.

USEFUL STORAGE SPACES

Our driver research also highlighted the need for storage space within the compartment. That's why these trucks feature a number of places for work orders and personal belongings. There is also a recess which can be used as a waste bin, when fitted with the optional, removable and washable vinyl litter bag.

DRIVER'S BAG

Every truck comes equipped with a handy shoulder bag for the driver's personal belongings, which is safely stowed behind the seat.

COMPARTMENT OPTIONS

Several options are available to adapt the compartment to the drivers needs. Among these are:

- Cooling fans
- Radio/CD player with loudspeaker in the overhead guard
- Working lights
- Reading lamp
- Seat belt with or without roller
- Seat heating (only on High Performance chair)
- Rear view mirror
- Fork camera with 7" colour display mounted on the overhead guard

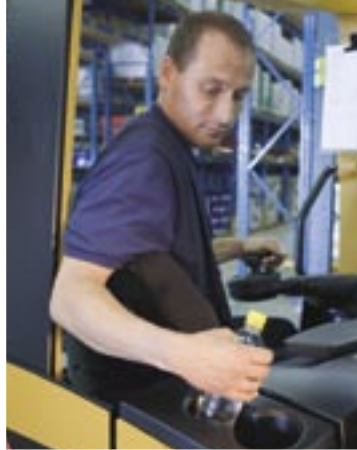
THE CONTROLLER - THE HEART OF THE TRUCK

The new 2nd generation micro command AC controller is the beating heart of the NR-N range, with more programmable features than before and over 500 different settings available, making it easier to precisely adapt the trucks to different applications.

PIN code entry means that each of up to 30 different drivers are identified before he or she can drive. In addition the service engineer can change up to 25 parameters such as maximum driving and lifting speeds, side shift speed and lift height pre-selectors, to match the driving skills or needs for each driver.

SAFETY PROGRAMMED IN

Drive speed is progressively reduced above free lift, as the mast starts to extend, from a maximum speed of 12Km/h down to 2.5Km/h at and above 6 metre fork heights. The curve control continuously monitors lift height and drive speed to avoid dangerous situations by slowing the truck down automatically, preventing the driver from making sharp turns with high loads. Progressive steering keeps the truck stable at high speeds and improves manoeuvrability at low speeds by adjusting the steering wheel to drive wheel turn ratio. Battery rollers are fitted as standard and, together with the optional changing table complete with sliding mechanism, the battery can be changed over quickly and easily without having to move the truck.



EVERYTHING AT YOUR FINGERTIPS...

- 1** Auxiliary buttons
- 2** Start Button (or optional Key Switch)
- 3** PIN pad and menu selection keys
- 4** Display
- 5** Emergency stop
- 6** Buttons for side-shift and tilt centering (option)
- 7** Fork tilt lever
- 8** Reach movement lever
- 9** Lift and lowering lever
- 10** Button for adjustment of the armrest
- 11** Drive direction switch
- 12** Horn
- 13** Side shift toggle switch

(left column from top)
 Handy storage bins,
 operator's shoulder bag.
 Optional fork camera and
 monitor, optional battery
 changing table.
 Automotive pedal
 layout for comfortable
 operation.

CHASSIS VARIATIONS TO SUIT YOUR NEEDS...

The ten 'N' generation models in standard or high performance configurations offer a comprehensive range of capabilities to manage a wide variety of applications, loads and pallet types.

The chassis design is 40% stiffer than on previous models, for better operating stability and greatly improved residual capacities.

The chassis width is 1,270mm across the range, apart from the heavy duty model (NR25NH) at 1,440mm wide and the two compact models (NR16NC & NR16NHC) at just 1,100mm wide.

For instance, the space saving straddle version allows 1,000mm wide pallets to be retracted within the load legs.

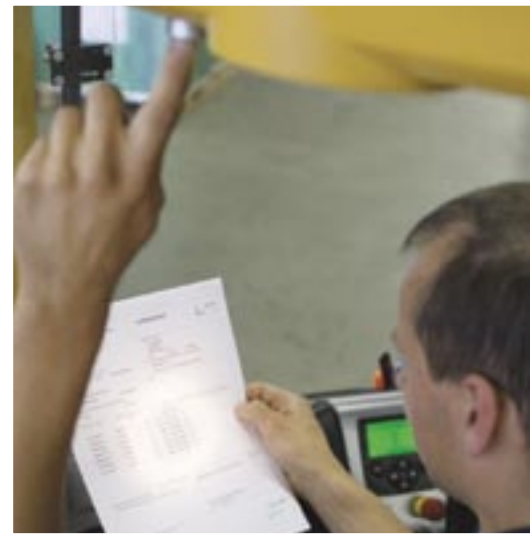
While for drive-in racking applications, the compact chassis models are ideal where the narrower overhead guard enables the trucks to operate between the first level beams.

For handling long loads in narrow aisles, the multi-way reach trucks (NRM20K & NRM25K) offer the ultimate in warehouse flexibility through their four-wheel steering system. Forward, reverse, sideways, parallel and rotational movement delivers superior mobility compared with the more common four-way drive trucks.



(Left) Compact and heavy duty chassis options.
(Right) The multi-way reach trucks are designed for handling long loads.

...AND OPTIONS TO MATCH YOUR APPLICATIONS...



EXTREME TEMPERATURE MODIFICATIONS

For freezer storage applications, the factory fitted cabin and other cold store modifications enable long shift working in a comfortable environment. The heated cabin also includes heated windows to prevent condensation when the truck leaves the cold store. In hot environments up to 40°C or greater the high temperature modifications prevent overheating by using extra cooling fans and special hydraulic oil to prevent leaking, to keep the truck operating at peak performance.



OPTIONAL FEATURES INCLUDE...

- Fork camera and monitor
- Quick battery locking and sensor
- Warning light
- Driving alarm
- Working lights
- Reading lamp
- Luxury seat and seat options such as air suspension and higher backrest
- Radio/CD player and loudspeakers
- Options bar for mounting auxiliary equipment such as a barcode scanner
- Rear-view parabolic mirror
- Overhead guard with mesh
- Overhead guard with plexi-glass
- Key switch
- Litter bag
- Cooling fan
- Lowering stop to prevent wider loads hitting the load legs
- Extra hydraulic valve for additional attachments
- Hydraulic fork positioner where different load sizes are handled
- Telescopic forks for double-deep pallet handling
- Side shift and tilt function centering
- Loadweight scale
- 12 volt power socket for electrical equipment
- Battery connector and cables (for trucks delivered without battery)
- Charger connector
- Fire extinguisher
- Battery changing roller bed



MAINTENANCE AND SERVICE PLANS

The truck service interval of 600 hours reduces maintenance costs, increasing profit margins.

While easy service access and simplified CAN-bus cabling leads to quicker fault finding and minimal servicing downtime.

AFTER SALES SERVICE

Fully equipped service vans, carrying specialized tooling and carefully selected stocks of service items, are on call to ensure the best quality care for your fleet. Manned by well-trained and dedicated service technicians, using the latest technical information and genuine Cat Lift Truck parts, ensure inspections and service operations are carried out to the highest professional standards.

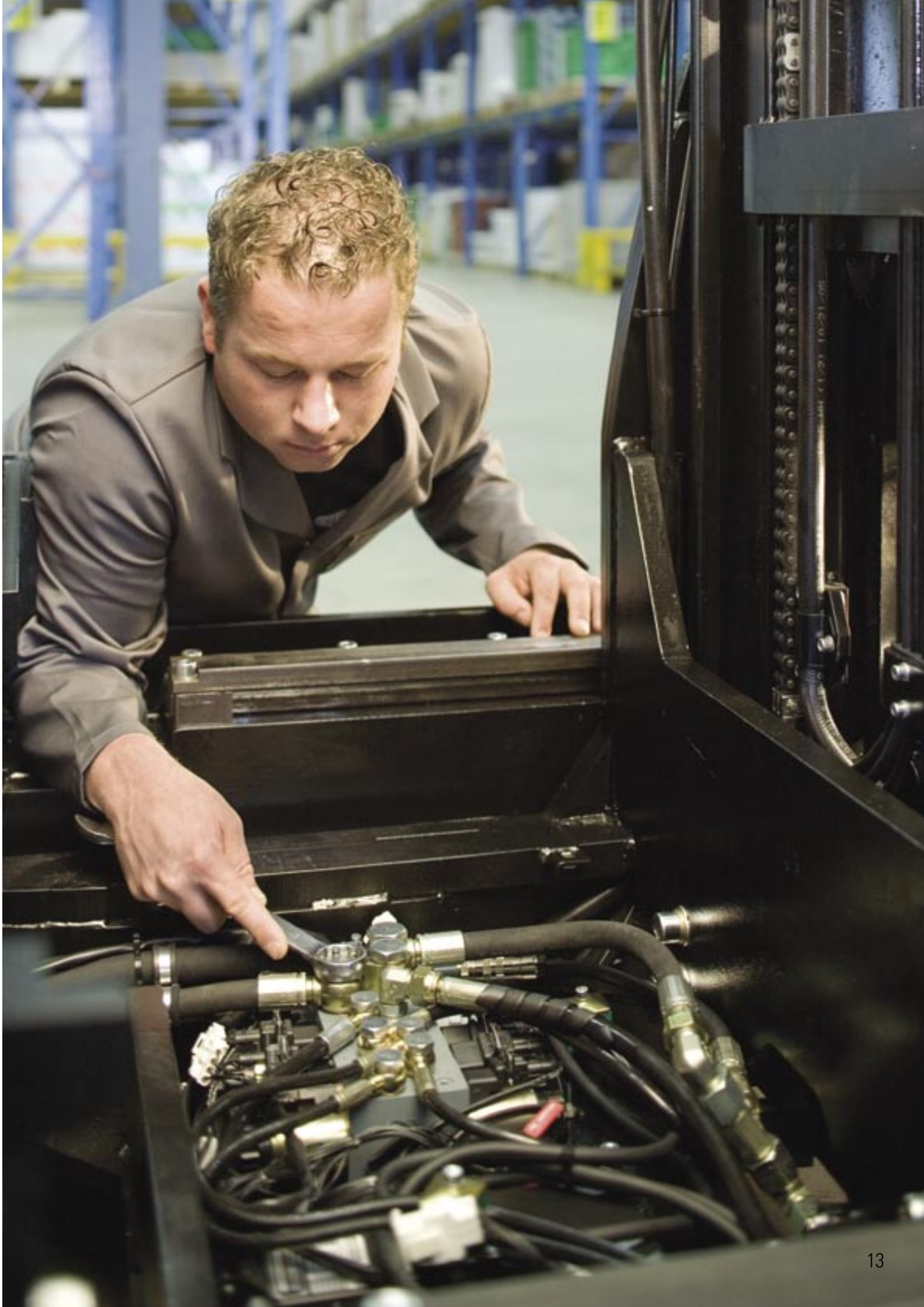
MAINTENANCE PROGRAMS

Our individually tailored programs ensure prompt, professional service while giving our clients accurate budgeting and full control over operating expenses. And timely maintenance, carried out by qualified Cat lift truck technicians can minimize downtime and extend equipment life. Your dealer will be happy to discuss a plan that's right for you.



(Main picture and above)

Regular maintenance carried out by qualified Cat lift truck service technicians keeps your fleet running at peak performance.



THE SMOOTH POWER OF AC TECHNOLOGY

The trucks' AC system gives excellent control over speed and torque which results in very smooth driving and lifting performance.



AC motors have better programmability, consume less energy and are easier to service than DC motors. Also, as they don't require carbon brushes, a bigger more powerful AC motor can be fitted in the same space that a normal DC motor would be used, therefore improving performance without reducing compartment space or increasing truck dimensions.



An added advantage is that during intensive use, 'regenerative braking' results in less wear on the mechanical brake, returns power to the battery and leads to more comfortable, smoother driving.

(Above) excellent control over speed and torque provided by powerful AC motors.
(Right) Dealer sales and technical staff provide a range of support services

A WEALTH OF DEALER SERVICES



FINANCING OPTIONS TO SUIT YOUR CASHFLOW

Your Cat Lift Truck dealer can offer a wide range of financing options including outright purchase, leasing and rental agreements, to spread equipment costs over its working life in the most tax efficient way.

FLEET MANAGEMENT

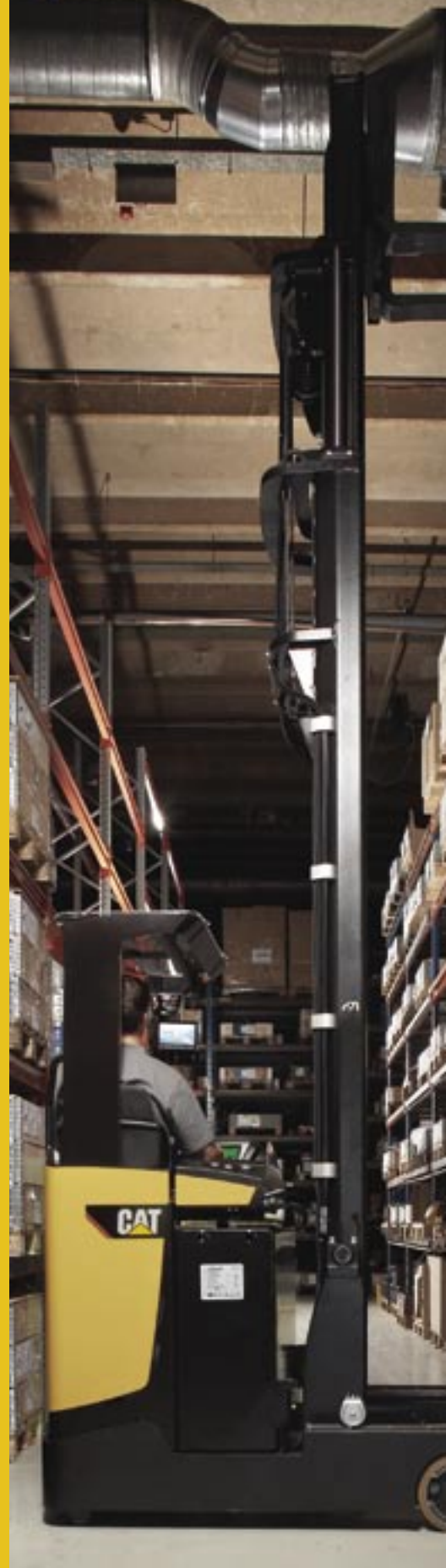
We can identify, control, and reduce the cost of materials handling and re-engineer fleets, to improve utilization.



For customers with national or multi-national operations, our International Fleet Sales & Services department, can provide further benefits to your business, such as service contracts, training and safety programs, fleet audits and application surveys, centralized billing as well as cost analysis and reporting.

PARTS OPERATION

We offer the highest parts availability in the industry – 95% and higher for current production models – from our centrally based facility located in Belgium.



DEPEND ON US!

Our whole organization is geared to providing a seamless and efficient service to keep your operation running smoothly and profitably. For more information about these new NR-N reach trucks, or the rest of our comprehensive range please turn to the back cover for your local dealer contact details.



For nearly 80 years Caterpillar has built some of the world's best construction and agricultural vehicles, designed to perform in the toughest environments. This same philosophy has been applied to our materials handling equipment, that offers a complete range of counterbalance and warehouse trucks.

Every day our dealer network delivers bespoke materials handling solutions in more than 70 Countries across Europe, Africa and the Middle East. We continually invest in the selection, development and support of our dealer network.

Come and talk to us about your materials handling requirements, or visit our website: **www.catliftruck.com**.

Cat Lift Trucks. Your partner in materials handling.

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NOTE: Performance specifications may vary depending on standard manufacturing tolerances, vehicle condition, types of tyres, floor or surface conditions, applications, or operating environment. Trucks may be shown with non-standard options. Specific performance requirements and locally available configurations should be discussed with your Cat Lift Trucks Dealer. Cat Lift Trucks follows a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.

CAT® Lift
Trucks