

NR12N3L  
NR14N3L  
NR14N3C

# COMPACT EFFICIENCY

**SPECIFICATIONS**

**LIGHT REACH TRUCKS 48V, 1.2 - 1.4 TONNES**



# SAVE TIME, MONEY AND SPACE

FOR THE NARROWEST OF AISLES, YOU NEED THE MOST COMPACT OF ALL CAT® REACH TRUCKS. THESE ECONOMICAL LIGHT AND MEDIUM DUTY MODELS, WITH LIFT HEIGHTS UP TO 7.25 METRES, OFFER GREAT MANOEUVRABILITY, EFFICIENT PERFORMANCE AND FULL CAT QUALITY.



NR14N3C shown with tapered overhead guard and rail guidance options



Drivers can operate quickly and precisely, with minimum effort, thanks to the *Palm Steering* unit and multifunctional joystick – each with adjustable floating armrests. Just 1.12 metres wide, and giving unbeatable all-round views, the trucks are ideally suited to working in tight spaces.

Drive and hydraulic functions are automatically speed-controlled, according to steering angle and lift height, for rapid but smooth and safe action. For further safety and stability, tilting masts are fitted as standard and the Mast Tilt Control (MTC) damping system can be optionally specified.



Time and money are saved by robust and wear-resistant construction, a user-friendly display with onboard diagnostics, and quick service access features. Good examples of cost-saving design include the heavy duty drive wheel, and accessibility for battery checks without leaving the truck.



All three models share the space-saving narrow chassis, but the NR14N3C also has a tapered overhead guard (optional), for drive-in racking, and can be equipped with optional rail guidance wheels. Perfect matching with application and driver needs is possible through programming and option selection.



## LOWER COST OF OWNERSHIP

- Robust construction minimises damage and wear, even in demanding multi-shift operations.
- Heavy duty drive wheel is highly durable and easy to maintain, with a larger diameter, extra width and unique tread design which increase grip and stability as well as lifetime.
- User-friendly display encourages correct use of truck.
- PIN code identification and programmability prevent unauthorised use and allow matching of truck performance settings to driver experience and application.
- Easy battery access enables driver to make quick checks without leaving the truck.
- Fast service access to systems and components reduces downtime.

## UNMATCHED PRODUCTIVITY

- Automatic drive speed reduction makes smooth adjustments according to steering angle and fork height to maintain stability, safety and confidence when cornering or carrying raised loads.
- Automatic hydraulic motion control optimises lift, lower, reach, tilt and side shift speeds according to lift height and keeps all movements smooth, quiet and precise. (Standard on NR14N3C, optional on others.)
- Mast Tilt Control (MTC) damping system reduces oscillations by up to 80%, allowing faster and more stable load handling.
- Tilting mast reduces aisle width necessary and enhances safety of handling.
- 360-degree steering option enables fluid turning without stopping to change direction.
- Fast travel and lift speeds come as standard.
- Small chassis (1.12 m wide) is ideal for working in tight spaces.
- Drive-in racking adaptations on NR14N3C include the options of tapered overhead guard and extra wheels for rail guidance.



Fingertip control option.



Rail guidance option.



Interior with midi steering wheel option shown.

## SAFETY AND ERGONOMICS

- *Palm Steering* on adjustable floating armrest offers relaxed driving position and operation with minimal movement, effort or strain – ideal if driver is seated for long periods.
- Multifunctional joystick with adjustable armrest fits hand perfectly, positions all hydraulic controls optimally, minimises effort and enables precise individual and simultaneous actions.
- Optional fingertip hydraulic controls with adjustable armrest ensure ergonomically perfect hand positioning, anatomical support and free movement.
- Spacious driver's compartment with high roof safely and comfortably accommodates users of all sizes.
- Excellent all-round view is enabled by design of mast, fork carriage, overhead bars, pillars and chassis, and by use of dark, non-reflective paint.
- Intuitive display keeps drivers fully informed and is optimally positioned and angled for clear viewing.
- Direction control is switched using accelerator pedal, leaving right hand free to concentrate on hydraulic functions.
- Automotive pedal layout is intuitive to car drivers, while 'dead man' safety switch is effortlessly activated by the weight of the left foot.
- Smooth entry and exit are aided by ergonomic grab handles and low intermediate step with non-slip surface.
- Standard safety features include operator presence switch, mast lock system and automatic parking brake.

# STANDARD EQUIPMENT AND OPTIONS

	NR12N3L	NR14N3L	NR14N3C
<b>GENERAL</b>			
Automatic electric parking brake	●	●	●
Steering wheel angle indicator	●	●	●
Battery indicator with cut-out at 20% remaining battery level	●	●	●
Multifunctional colour display	●	●	●
Integrated side shift DTFV mast	●	●	●
Rail guidance for drive-in racking	–	–	○
Chill store design, down to +1° C	●	●	●
Paper storage and cup holder	●	●	●
Battery reach-out	●	●	●
Battery on rollers	○	○	○
Other RAL colour	○	○	○
<b>POWER SOURCE</b>			
Lead-acid battery	○	○	○
Battery cover plate	○	○	○
<b>MAST, FORKS AND CARRIAGE</b>			
Tilting mast	●	●	●
Fork tilt	–	–	○
Integral fork positioner/side shift DTFV mast	○	○	○
Load backrest	○	○	○
Load backrest in combination with fork positioner/side shift	○	○	○
Mast Tilt Control (MTC) damping system on tilting masts	●	●	●
Lift stop with/without restart	○	○	○
Lift height indicator (std with load-weight-adjusted control option)	○	○	○
Level selector	–	–	○
Level assistance system, LAS	–	–	○
Load weight indicator (std with load-weight-adjusted control option)	○	○	○
Horizontal forks	–	–	○
Central position of side shift	–	–	○
Automatic hydraulic motion control	○	○	●

● Standard    ○ Option

# STANDARD EQUIPMENT AND OPTIONS

	NR12N3L	NR14N3L	NR14N3C
<b>DRIVE AND LIFT CONTROLS</b>			
Electric-powered <i>Palm Steering</i> unit on floating armrest	●	●	●
180-degree steering	●	●	●
360-degree steering	○	○	○
Active Spin Reduction	○	○	○
Automatic drive speed reduction	●	●	●
Hands-free direction control, HFDC, via accelerator pedal	●	●	●
Hand-operated direction control	○	○	○
Multifunctional joystick	●	●	●
Fingertip hydraulic control	○	○	○
Midi steering wheel	○	○	○
Key switch entry	○	○	○
Creep speed at preset level 500 mm	-	-	○
Creep speed at other levels	-	-	○
Load-weight-adjusted functioning of automatic drive speed and hydraulic motion controls	○	○	○
<b>ELECTRIC</b>			
Blue/red point safety light, towards driving direction	○	○	○
Automatic logoff	○	○	○
Working lights LED	○	○	○
Working lights LED for cabin	○	○	○
Warning light on the roof	○	○	○
Warning light for heated cabin	○	○	○
12V connector	○	○	○
Converter 48 - 12 V	○	○	○
Radio with MP3	○	○	○
Service alarm	○	○	○

	NR12N3L	NR14N3L	NR14N3C
<b>OHG AND CABIN</b>			
Heated cabin	○	○	○
Window opening in cabin door	○	○	○
2-way intercom for cold store cabin	○	○	○
Tapered overhead guard	-	-	○
Mesh metal on overhead guard	○	○	○
Heated seat – fabric	○	○	○
Heated seat – PVC	○	○	○
Rear view mirror	○	○	○
Writing desk	○	○	○
Equipment holder, RAM system size C	○	○	○
Equipment holder, RAM system size C, 2 pcs	○	○	○
Equipment holder, RAM system size D	○	○	○
<b>WHEEL OPTIONS</b>			
Vulkollan® traction wheel 93 Shore	●	●	●
Tractothan® traction wheel 93 Shore	○	○	○
Load wheel Ø 220 mm	●	●	●
<b>ENVIRONMENT</b>			
Cold store design, 0°C to -35°C*	○	○	○

● Standard    ○ Option



Heated cabin with tapered overhead guard option.



NR12N3L - NR14N3L				
Mast Type	h3 + h13	h1	h2 + h13	h4
	mm	mm	mm	mm
T	3200	2178	175	3735
	3600	2378	175	4135
	3800	2478	175	4335
	4200	2678	175	4735
	4500	2828	175	5035
	4800	2978	175	5335

## Mast Performance and Capacity

- T Duplex mast without freelift
- DTFV Triplex
- h1 Lowered mast height
- h2 + h13 Free lift
- h3 + h13 Lift height
- h4 Raised mast height
- Q Lifting capacity, rated load
- c Load centre (distance)

Model	Battery Capacity	Battery Weight	4.33a Ast	4.34a Ast	4.28 L4	4.20 L2	4.19 L1	1.8 x	4.35 Wa
	Ah	kg	mm	mm	mm	mm	mm	mm	mm
NR12N3L	300	533	2643	2688	557	1193	2343	405	1598
	465	708	2694 <sup>1)</sup>	2751 <sup>2)</sup>	487 <sup>5)</sup>	1263	2413	335 <sup>5)</sup>	1598
NR14N3L	465	708	2694 <sup>1)</sup>	2751 <sup>2)</sup>	487 <sup>5)</sup>	1263	2413	335 <sup>5)</sup>	1598
	620	890	2762 <sup>3)</sup>	2833 <sup>4)</sup>	397 <sup>6)</sup>	1353	2503	245 <sup>5)</sup>	1598
NR14N3C	465	708	2716	2778	457	1293	2443	305	1598
	620	890	2786	2861	367	1383	2533	215	1598
	775	1063	2859	2945	227	1473	2623	125	1598

- 1) T mast +7mm
- 2) T mast +17mm
- 3) T mast +9mm
- 4) T mast +18mm
- 5) T mast -28mm
- 6) T mast - 8mm

NR12N3L - NR14N3L				
Mast Type	h3 + h13	h1	h2 + h13	h4
	mm	mm	mm	mm
DTFV	4800	2153	1645	5345
	5400	2353	1854	5945
	5700	2453	1945	6245
	6300	2653	2145	6845
	6750	2803	2295	7295
	7250*	2970	2462	7795

\*Only NR14N3L

NR14N3C				
Mast Type	h3 + h13	h1	h2 + h13	h4
	mm	mm	mm	mm
DTFV	4800	2153	1645	5345
	5400	2353	1845	5945
	5700	2453	1945	6245
	6300	2653	2145	6845
	6750	2803	2295	7295
	7250	2970	2462	7795
	7950	3203	2695	8495
	8450	3370	2862	8995
	8950	3536	3028	9495



NR14N3C shown with tapered overhead guard and rail guidance options.

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