

NR12N3L NR14N3L NR14N3C

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.





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 wearresistant 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 guick 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.

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.





Rail guidance option.

Interior with midi steering wheel option shown

STANDARD EQUIPMENT AND OPTIONS

	NR12N3L	NR14N3L	NR14N3C
GENERAL			
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	-	_	0
Chill store design, down to +1° C	•	•	•
Paper storage and cup holder	•	•	•
Battery reach-out	•	•	•
Battery on rollers	0	0	0
Other RAL colour	0	0	0
POWER SOURCE			
Lead-acid battery	0	0	0
Battery cover plate	0	0	0
MAST, FORKS AND CARRIAGE			
Tilting mast	•	•	•
Fork tilt	-	_	0
Integral fork positioner/side shift DTFV mast	0	0	0
Load backrest	0	0	0
Load backrest in combination with fork positioner/side shift	0	0	0
Mast Tilt Control (MTC) damping system on tilting masts	•	•	•
Lift stop with/without restart	0	0	0
Lift height indicator (std with load-weight-adjusted control option)	0	0	0
Level selector	-	-	0
Level assistance system, LAS	_	_	0
Load weight indicator (std with load-weight-adjusted control option)	0	0	0
Horizontal forks	-	_	0
Central position of side shift	-	-	0
Automatic hydraulic motion control	0	0	•



STANDARD EQUIPMENT AND OPTIONS

	NR12N3L	NR14N3L	NR14N3C
DRIVE AND LIFT CONTROLS			
Electric-powered Palm Steering unit on floating armrest	•	•	•
180-degree steering	•	•	•
360-degree steering	0	0	0
Active Spin Reduction	0	0	0
Automatic drive speed reduction	•	•	•
Hands-free direction control, HFDC, via accelerator pedal	•	•	•
Hand-operated direction control	0	0	0
Multifunctional joystick	•	•	•
Fingertip hydraulic control	0	0	0
Midi steering wheel	0	0	0
Key switch entry	0	0	0
Creep speed at preset level 500 mm	_	_	0
Creep speed at other levels	_	_	0
Load-weight-adjusted functioning of automatic drive speed and hydraulic motion controls	0	0	0
ELECTRIC			
Blue/red point safety light, towards driving direction	0	0	0
Automatic logoff	0	0	0
Working lights LED	0	0	0
Working lights LED for cabin	0	0	0
Warning light on the roof	0	0	0
Warning light for heated cabin	0	0	0
12V connector	0	0	0
Converter 48 - 12 V	0	0	0
Radio with MP3	0	0	0
Service alarm	0	0	0

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



	Characteristics					
1.1	Manufacturer			Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks
1.2	Manufacturer's model designation			NR12N3L	NR14N3L	NR14N3C
1.3	Power source			Battery	Battery	Battery
1.4	Operator type			Sit-on	Sit-on	Sit-on
1.5	Load capacity	Q	(kg)	1200	1400	1400
1.6	Load centre distance	С	(mm)	600	600	600
1.8	Load wheel axle to fork face (forks lowered)	х	(mm)	See table	See table	See table
1.9	Wheelbase	У	(mm)	1378	1378	1378
	Weight					
2.1b	Truck weight without load, with maximum battery weight		kg	251010)	271010)	3410
2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg	1656 / 854 ¹⁰⁾	1656 / 854 ¹⁰⁾	1780 / 1230
2.4	Axle loading, mast forward, with nominal load, drive / load side		kg	669 / 304110)	560 / 3350 ¹⁰⁾	570 / 3840
2.5	Axle loading, mast retracted, with nominal load, drive / load side		kg	1395 / 231510)	1351 / 255910)	1450 / 2960
	Wheels, Drive Train					
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side	_		Vul	Vul	Vul
3.2	Tyre dimensions, drive side	Ø	(mm)	355 x 155	355 x 155	355 x 155
3.3	Tyre dimensions, load side	Ø	(mm)	220 x 85	220 x 85	220 x 85
3.5	Number of wheels, load / drive side (x = driven)	144	, ,	2/1x	2/1x	2/1x
3.7	Track width (centre of tyres), load side	b11	(mm)	995	995	995
	Dimensions	2/0	0	4.440)	4 (40)	
4.1	Fork tilt, forwards / backwards	∂/ß h1		1 / 49	1 / 49	1/4
4.2a	Height with mast lowered	h2	(mm)	See table	See table	See table See table
4.3	Free lift	h3	(mm)	See table See table	See table See table	See table
4.4	Lift height Usight with most sytanded	h4	(mm) (mm)	See table	See table	See table
4.5	Height with mast extended Height to top of overhead quard	h6	(mm)	2205	2205	2205
4.7	Seat or stand height	h7	(mm)	1.1461)	1.1461)	1.1461)
4.10	Height of support legs	h8	(mm)	235	235	235
4.10	Fork height, fully lowered	h13	(mm)	65	65	65
4.19	Overall length	11	(mm)	See table	See table	See table
4.20	Length to fork face	12	(mm)	See table	See table	See table
4.21	Overall width	b1/b2	(mm)	1120	1120	1120
4.22	Fork dimensions (thickness, width, length)	s/e/		40 / 100 / 1150	40 / 100 / 1150	40 / 100 / 1150
4.23	Fork carriage to DIN			FEM 2A	FEM 2A	FEM 2A
4.24	Fork carriage width	b3	(mm)	910	910	830
4.25	Outside width over forks (minimum /maximum)	b5	(mm)	316 / 697	316 / 697	316 / 697
4.26	Inner width of support legs	b4	(mm)	900	900	900
4.28	Mast reach	14	(mm)	See table	See table	See table
4.32	Ground clearance at centre of wheelbase, (forks lowered)	m2	(mm)	70	70	70
4.33a	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast	(mm)	See table	See table	See table
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	(mm)	See table	See table	See table
4.35	Turning radius	Wa	(mm)	See table	See table	See table
4.37	Truck length including support legs	17	(mm)	1725	1725	1725
	Performance					
5.1	Travel speed, with /without load		km / h	12.3 / 12.5	12.3 / 12.5	12.3 / 12.5
5.2	Lifting speed, with /without load		m/s	0.46 / 0.5410)	0.37 / 0.5410)	0.32 / 0.49
5.3	Lowering speed, with /without load		m/s	0.58 / 0.6010)	0.58 / 0.6010)	0.57 / 0.48
5.5	Rated drawbar pull, with /without load		N	0.2 / 0.2	0.2 / 0.2	0.2 / 0.2
5.8	Maximum gradeability with /without load		%	13.1 / 19.6	13.1 / 19.6	13.1 / 19.6
5.9	Acceleration time (10 metres) with /without load		S	4.9 / 4.4	4.9 / 4.4	4.9 / 4.4
5.10	Service brakes (mechanical /hydraulic /electric /pneumatic)			Electric	Electric	Electric
0.4	Electric motors		[AA/	50	F.0	F.0
6.1	Drive motor capacity (60 min. short duty)		kW kW	5.9	5.9	5.9
6.2	Lift motor output at 15% duty factor		V / Ah	11	11	11
6.4	Battery voltage/capacity at 5-hour discharge			48 - 30011) / 465	48 - 465 / 620	48 - 465 / 620 / 775
6.5	Battery weight Miscellaneous		kg	533 / 708	708 / 890	708 / 890 / 1063
8.1	Type of drive control			Stepless	Stepless	Stepless
10.1	Naximum operating pressure for attachments		bar	150	150	150
10.1	Oil flow for attachments		1 / min	25	25	25
10.7	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871 in work LpAZ		dB (A)	57.4	57.4	57.4
10.7	2.5761 of Holiot de this car lover of the driver according to the 12 000.2001 and the 100 4071 in work that		3D (/ 1)	57.4	37.4	37.4

- Ast = Working aisle width
 Ast = Wa + \(\pi\) (\(\frac{1}{2}\) + \(\frac{1}{2}\) \(\frac{1}{2}\) + a

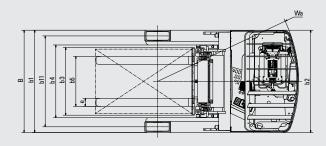
 Wa = Turning radius

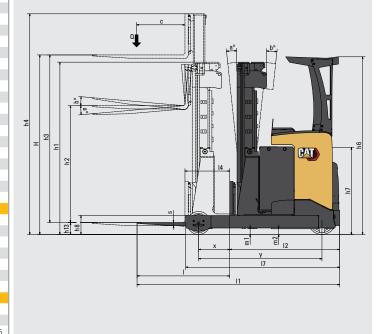
 16 = \(\frac{2}{2}\) allet length (1200 mm)

 x = \(\text{Load wheel ask to fork face}\)

 b12 = \(\frac{2}{2}\) allet width (8000 or 1000 mm)

 a = \(\text{Safety clearance} = 2 x 100 mm)





- 1) Measured with standard seat to SIP point 9) Mast tilt 10) T mast 11) DTFV mast

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			

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

	N	IR14N3C		
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

Mast Performance and Capacity

С

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

Load centre (distance)

Model	Battery	Battery	4.33a	4.34a	4.28	4.20	4.19	1.8	4.35
	Capacity	Weight	Ast	Ast	L4	L2	L1	Х	Wa
	Ah	kg	mm	mm	mm	mm	mm	mm	mm
NR12N3L	300	533	2643	2688	557	1193	2343	405	1598
INTIZINOL	465	708	26941)	27512)	4875)	1263	2413	3355)	1598
NR14N3L	465	708	2694 ¹⁾	2751 ²⁾	4875)	1263	2413	3355)	1598
INN 14NOL	620	890	2762 ³⁾	28334)	3976)	1353	2503	2455)	1598
NID44NI2C	465	708	2716	2778	457	1293	2443	305	1598
NR14N3C	620	890	2786	2861	367	1383	2533	215	1598
	775	1063	2859	2945	227	1473	2623	125	1598

T	mast	+7	mm
Τ	mast	+1	7mm

²⁾



NR14N3C shown with tapered overhead guard and rail guidance options.

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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.









³⁾ T mast +9mm 4) T mast +18mm

⁵⁾ T mast-28mm 6) T mast - 8mm