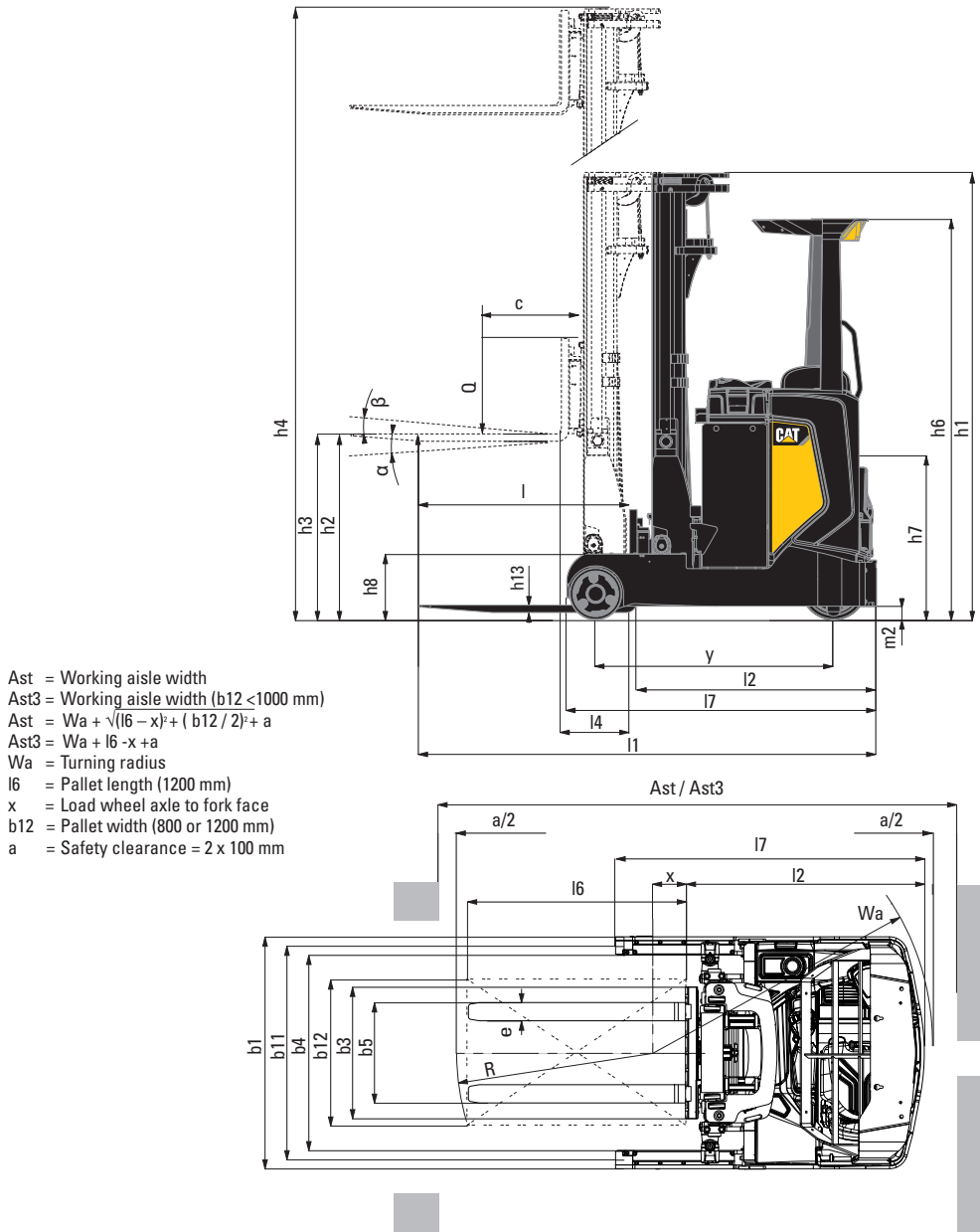




Model	Battery Capacity	Battery Weight	4.33 (1000x1200mm crosswise)		4.34 (800x1200mm lengthwise)		L4	L2	L1	x
			Ast	Ast3	Ast	Ast3	4.28	4.20	4.19	1.8
NR14N2S	Ah	kg	mm	mm	mm	mm	mm	mm	mm	mm
	465	700	2684	2466	2750	2666	463	1254	2404	281
	620	900	2740	2538	2816	2738	391	1326	2476	209
NR14N2HS	775	1100	2798	2610	2883	2810	319	1398	2548	137
	620	900	2748	2548	2825	2748	382	1336	2486	199
	775	1100	2806	2620	2892	2820	310	1408	2558	127
NR16N2S	465	700	2684	2466	2750	2666	463	1254	2404	281
	620	900	2740	2538	2816	2738	391	1326	2476	209
	775	1100	2798	2610	2883	2810	319	1398	2548	137
NR16N2HS	620	900	2748	2548	2825	2748	382	1336	2486	199
	775	1100	2806	2620	2892	2820	310	1408	2558	127
NR16N2C	465	700	2730	2502	2789	2702	510	1308	2458	327
	620	900	2799	2592	2872	2792	420	1398	2548	237
NR16N2HC	620	900	2807	2602	2881	2802	410	1408	2558	228
NR16N2	465	700	2693	2463	2751	2663	513	1254	2404	331
	620	900	2748	2535	2817	2735	441	1326	2476	259
	775	1100	2804	2607	2883	2807	369	1398	2548	187
NR16N2H	620	900	2755	2545	2826	2745	432	1336	2486	249
	775	1100	2812	2617	2892	2817	360	1408	2558	177
NR20N2H	620	900	2784	2536	2830	2736	582	1336	2486	399
	775	1100	2837	2608	2895	2808	510	1408	2558	327
	930	1300	2892	2680	2961	2880	438	1480	2630	255
NR20N2X	620	900	2805	2560	2853	2760	572	1346	2496	389
	775	1100	2858	2632	2918	2832	500	1418	2568	317
	930	1300	2913	2704	2984	2904	428	1490	2640	245
NR25N2X	620	900	2805	2560	2853	2760	572	1346	2496	389
	775	1100	2858	2632	2918	2832	500	1418	2568	317
	930	1300	2913	2704	2984	2904	428	1490	2640	245

Cat® Lift Trucks.

Your partner in materials handling.

NR14N2S - NR16N2S - NR16N2 - NR16N2C				
Mast Type	h3	h1	h2	h4 ¹⁾
	mm	mm	mm	mm
T	4800	2210	1645	5630
	5400	2410	1845	6230
	5700	2510	1945	6530
	5900	2577	2012	6730
	6300	2710	2145	7130
	7000	2943	2378	7830
	7500	3110	2545	8330

NR14N2HS - NR16N2HS - NR16N2HC				
Mast Type	h3	h1	h2	h4 ¹⁾
	mm	mm	mm	mm
T	8000	3297	2732	8830
	8500	3436	2898	9330
	9000	3785	3220	9830

NR16N2H				
Mast Type	h3	h1	h2	h4 ¹⁾
	mm	mm	mm	mm
T	8000	3297	2732	8830
	8500	3463	2898	9330
	9000	3785	3220	9830
	9500	3952	3387	10330
	10000	4118	3553	10830
	10500	4285	3720	11330
	11000	4452	3887	11830
	11500	4618	4053	12330

NR20N2H - NR25N2X				
Mast Type	h3	h1	h2	h4 ¹⁾
	mm	mm	mm	mm
T	4800	2230	1655	5630
	5400	2430	1865	6230
	5700	2530	1965	6530
	5900	2597	2032	6730
	6300	2730	2165	7130
	7000	2963	2398	7830
	7500	3130	2565	8330
	8000	3297	2732	8830
	8500	3463	2898	9330
	9000	3785	3220	9830
	9500	3952	3387	10330
	10000	4118	3553	10830
	10500	4285	3720	11330
	11000	4452	3887	11830
	11500	4618	4053	12330

1) Including load backrest

Mast Performance and Capacity

T	=	Triplex powerRamic mast
h1	=	Lowered mast height
h2	=	Free lift
h3	=	Lift height
h4	=	Raised mast height
Q	=	Lifting capacity, rated load
c	=	Load centre (distance)

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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.



NR14N2S

NR14N2HS

NR16N2S

NR16N2HS

NR16N2

NR16N2H

NR16N2C

NR16N2HC

NR20N2H

NR20N2X

NR25N2X

Preliminary Specifications

Reach Trucks

1.4 - 2.5 tonnes



	Characteristics													
1.1	Manufacturer		Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks			Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks
1.2	Manufacturer's type designation		NR14N2S	NR14N2HS	NR16N2S			NR16N2HS	NR16N2	NR16N2H	NR16N2C	NR16N2HC	NR20N2H	NR20N2X
1.3	Power source: (battery, diesel, LP gas, petrol)		Battery	Battery	Battery			Battery	Battery	Battery	Battery	Battery	Battery	Battery
1.4	Operator type: pedestrian, (operator)-standing, -seated		Seated	Seated	Seated			Seated	Seated	Seated	Seated	Seated	Seated	Seated
1.5	Load capacity	Q (kg)	1400	1400	1600			1600	1600	1600	1600	1600	2000	2500
1.6	Load center distance	c (mm)	600	600	600			600	600	600	600	600	600	600
1.8	Load wheel axle to fork face (forks lowered)	x (mm)	281	199	281			199	331	249	327	228	399	389
1.9	Wheelbase	y (mm)	1300	1300	1300			1300	1350	1350	1400	1400	1500	1500
Weight														
2.1*	Truck weight with load, with maximum battery weight	(kg)	4770	5497	4991			5697	5245	5971	4909	5639	6170	6756
2.3	Axle loadings without load & with maximum battery weight, drive / load side	(kg)	1925 / 1445	2208 / 1889	1925 / 1466			2208 / 1889	1995 / 1650	2275 / 2096	1840 / 1469	2114 / 1925	2200 / 1970	2385 / 2280
2.4	Axle loading, mast forward, with nominal load, drive / load side	(kg)	605 / 4165	704 / 4793	590 / 4402			704 / 4793	616 / 4628	719 / 5252	510 / 4398	614 / 5024	675 / 5495	445 / 6220
2.5	Axle loading, mast retracted, with nominal load, drive / load side	(kg)	1590 / 3180	1873 / 3624	1570 / 3422			1873 / 3624	1626 / 3618	1906 / 4065	1484 / 3425	1759 / 3880	1785 / 4385	1855 / 4810
Tyres														
3.1	Tyres: PT=Power Thane, Vul=Vulkollan, drive / load side		PT	Vul	PT			Vul	PT	Vul	PT	Vul	Vul	Vul
3.2	Tyre dimensions, drive side	(mm)	Ø360*140	Ø360*140	Ø360*140			Ø360*140	Ø360*140	Ø360*140	Ø360*140	Ø360*140	Ø360*140	Ø360*140
3.3	Tyre dimensions, load side	(mm)	Ø285 × 75	Ø285 × 75	Ø285 × 75			Ø285 × 75	Ø285*130	Ø285 × 75	Ø285 × 75	Ø285*130	Ø285*130	Ø285*130
3.5	Number of wheels, load / drive side, (x=driven)		2 / 1x	2 / 1x	2 / 1x			2 / 1x	2 / 1x	2 / 1x	2 / 1x	2 / 1x	2 / 1x	2 / 1x
3.7	Track width (center of tyres), load side	b11 (mm)	1195	1195	1195			1195	1140	1140	1025	1025	1140	1310
Dimensions														
4.1	Fork tilt, forwards / backwards	α/β (°)	2 / 4	2 / 4	2 / 4			2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4
4.2	Height with mast lowered	h1 (mm)	see table	see table	see table			see table	see table	see table	see table	see table	see table	see table
4.3	Free lift	h2 (mm)	see table	see table	see table			see table	see table	see table	see table	see table	see table	see table
4.4	Lift height	h3 (mm)	see table	see table	see table			see table	see table	see table	see table	see table	see table	see table
4.5	Height, mast extended	h4 (mm)	see table	see table	see table			see table	see table	see table	see table	see table	see table	see table
4.7	Height to top of overhead guard	h6 (mm)	2200	2200	2200			2200	2200	2200	2200	2200	2200	2200
4.8**	Seat- or stand height	h7 (mm)	1030	1030	1030			1030	1030	1030	1030	1030	1030	1030
4.10	Height of support legs	h8 (mm)	360	360	360			360	360	360	360	360	360	360
4.15	Fork height, fully lowered	h13 (mm)	85	85	85			85	85	85	85	85	85	85
4.19	Overall length	l1 (mm)	2404	2486	2404			2486	2404	2486	2458	2558	2486	2496
4.20	Length to fork face	l2 (mm)	1254	1336	1254			1336	1254	1336	1308	1408	1336	1346
4.21	Overall width	b1/b2 (mm)	1270	1270	1270			1270	1270	1270	1100	1100	1270	1440
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)	40 / 100 / 1150	40 / 100 / 1150	40 / 100 / 1150			40 / 100 / 1150	40 / 100 / 1150	40 / 100 / 1150	40 / 100 / 1150	40 / 100 / 1150	50 / 100 / 1150	50 / 100 / 1150
4.23	Fork carriage to DIN 15173		FEM 2A	FEM 2A	FEM 2A			FEM 2A	FEM 2A	FEM 2A	FEM 2A	FEM 2A	FEM 2A	FEM 2A
4.24	Fork carriage width	b3 (mm)	720	720	720			720	720	720	720	720	720	720
4.25	Outside width over forks (minimum / maximum)	b5 (mm)	315-710	315-710	315-710			315-710	315-710	315-710	315-710	315-710	315-710	315-710
4.26	Innerwidth of the support legs	b4 (mm)	1070	1070	1070			1070	900	900	900	900	900	1070
4.28	Mast reach	l4 (mm)	463	381	463			381	513	432	510	410	582	572
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2 (mm)	75	75	75			75	75	75	75	75	75	75
4.33/a	Working aisle width (Ast) with 1000 x1200 mm pallets, load crosswise	Ast (mm)	see table	see table	see table			see table	see table	see table	see table	see table	see table	see table
4.34/a	Working aisle width (Ast) with 800 x1200 mm pallets, load lengthwise	Ast (mm)	see table	see table	see table			see table	see table	see table	see table	see table	see table	see table
4.35	Turning radius	Wa (mm)	1541	1541	1541			1541	1629	1629	1629	1629	1735	1749
4.37	Truck length including support legs	l7 (mm)	1693	1693	1693			1693	1793	1793	1793	1793	1893	1893
Performance														
5.1	Travel speed, with / without load	(km/h)	12 / 12	12 / 12	12 / 12			12 / 12	12 / 12	14 / 14	12 / 12	12 / 12	14 / 14	11 / 14
5.2	Lifting speed, with / without load	(m/s)	0.4 / 0.65	0.4 / 0.7	0.4 / 0.65			0.4 / 0.7	0.4 / 0.65	0.4 / 0.7	0.4 / 0.65	0.4 / 0.7	0.4 / 0.7	0.3 / 0.7
5.3	Lowering speed, with / without load	(m/s)	0.55 / 0.5	0.55 / 0.5	0.55 / 0.5			0.55 / 0.5	0.55 / 0.5	0.55 / 0.5	0.55 / 0.5	0.55 / 0.5	0.55 / 0.5	0.55 / 0.5
5.4	Reach speed, with / without load	(m/s)	0.2 / 0.2	0.2 / 0.2	0.2 / 0.2			0.2 / 0.2	0.2 / 0.2	0.2 / 0.2	0.2 / 0.2	0.2 / 0.2	0.15 / 0.15	0.15 / 0.15
5.8	Maximum gradeability, with / without load	(%)	10 / 15	10 / 15	10 / 15			10 / 15	10 / 15	10 / 15	10 / 15	10 / 15	10 / 15	10 / 15
5.9	Acceleration time (10 metres) with / without load	(s)	5.0 / 4.5	4.8 / 4.4	5.0 / 4.5			4.8 / 4.4	5.0 / 4.5	4.8 / 4.6	5.0 / 4.5	4.8 / 4.8	4.8 / 4.4	5.2 / 4.4
5.10	Service brake		Electric	Electric	Electric			Electric	Electric	Electric	Electric	Electric	Electric	Electric
Electric motors														
6.1	Drive motor capacity (S2 60 min. short duty)	(kW)	7.5	7.5	7.5			7.5	7.5	7.5	7.5	7.5	7.5	7.5
6.2	Lift motor output at S3 15% duty factor	(kW)	10	14	10			14	10	14	10	14	14	14
6.4	Battery voltage/capacity at 5-hour discharge	(V/Ah)	48 / 465, 620, 775	48 / 620, 775	48 / 465, 620, 775			48 / 620, 775	48 / 465, 620, 775	48 / 620, 775	48 / 465, 620	48 / 620	48 / 620, 775, 930	48 / 620, 775, 930
6.5	Battery weight	(kg)	700, 900, 1100	900, 1100	700, 900, 1100			900, 1100	700, 900, 1100	900, 1100	700, 900	900	900, 1100, 1300	900, 1100, 1300
Miscellaneous														
8.1	Type of drive control		Stepless	Stepless	Stepless			Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
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))	66	TBA	66			TBA	66	TBA	66	TBA	TBA	TBA
10.7.1***	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 487, drive/lift/idle LpAZ	(dB(A))	58/73/50	TBA	58/73/50			TBA	58/73/50	TBA	58/73/50	TBA	TBA	TBA
****	Body tremble according to EN 13 059:2002	(m/s²)	0.31	0.31	0.31			0.31	0.31	0.31	0.31	0.31	0.31	0.31
****	Hand tremble according to EN 13 059:2002	(m/s²)	<2.5	<2.5	<2.5			<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5

* Values of the table according to the smallest size of batteries.
** Measured with standard seat
*** Inaccuracy of 4dB (A)
**** Body tremble measured with air pressured seat.



Lower Cost of Ownership

- Easy access to all components, including pumps and controller, combines with maintenance-free AC power and long service interval (600 hours) to minimise downtime.
- Full-colour display panel, with clear information in operator's own language and simple-to-learn functionality, advises on truck status, avoids misuse and protects your investment.

Unmatched Productivity

- Class-leading capacity retention at high lifts, now up to an amazing 13 m, and excellent visibility through the poweRamic mast, fork carriage and overhead guard, ensure top performance in any warehouse application.
- Responsive Drive System (RDS) features advanced mast handling – for fast lifting/lowering, smooth start/stop of reach movements and accurate tilt/sideshift control – along with new mast and reach carriage technology, for high stability and minimal sway, and a choice of user-set performance modes or engineer-customised settings for different needs.
- Latest pre-set height selector is the market's easiest to use, allowing faster, safer stacking.

Safety and Ergonomics

- Totally redesigned adjustable armrest, combining anatomical support with free movement and perfect hand positioning, features spring-force-optimised fingertip hydraulic controls or – as an option – intuitive joystick control.
- Intermediate step and ergonomic grab handles allow easy and smooth on-off access to a wide, unobstructed, comfortable, protective cabin with low seat position.
- Rigid chassis, inbuilt operator protection features and programmable mast damping together with standard Passive Sway Control help maintain safety without reducing performance.

Options

- Joystick hydraulic control
- Seat with mechanical or air suspension
- Special chassis colour
- Custom-designed or special RAL colour side covers
- Audio system and 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
- DC/DC converter
- USB power supply for mobile charge
- Additional power supply for warehouse management (WMS) PC
- Alarm for driving, lifting and lowering
- Battery changing device and quick battery locking system
- Cold store modification and cabin
- High-temperature modification
- Active Sway Control