

NRM20N2

NRM25N2

Specifications

**Multi-way
reach trucks**

2.0 - 2.5 tonnes



Characteristics			Cat Lift Trucks	Cat Lift Trucks
1.1	Manufacturer		NRM20N2	NRM25N2
1.2	Manufacturer's type designation		Battery	Battery
1.3	Power source: (battery, diesel, LP gas, petrol)		Seated	Seated
1.4	Operator type: pedestrian, (operator)-standing, -seated		2000	2500
1.5	Load capacity	Q (kg)	600	600
1.6	Load center distance	c (mm)	337	337
1.8	Load wheel axle to fork face (forks lowered)	x (mm)	1552	1552
1.9	Wheelbase	y (mm)		
Weight				
2.1	Truck weight with load, with maximum battery weight	kg	6888*	7784**
2.3	Axle loadings without load & with maximum battery weight, drive/load side	kg	2672 / 2 x 1108*	2907 / 2 x 1188**
2.4	Axle loading, mast forward, with nominal load, drive/load side	kg	591 / 2 x 3148*	521 / 2 x 3631**
2.5	Axle loading, mast retracted, with nominal load, drive/load side	kg	2292 / 2 x 2298*	2292 / 2 x 2298**
Tyres				
3.1	Tyres: PT=Power Thane, Vul=Vulkollan, drive / load side		Vul	Vul
3.2	Tyre dimensions, drive side	(mm)	Ø360 x 140	Ø360 x 140
3.3	Tyre dimensions, load side	(mm)	Ø285 x 75 x 2	Ø285 x 75 x 2
3.5	Number of wheels, load / drive side, (x=driven)		2+2/1x	2+2/1x
3.7	Track width (center of tyres), load side	b11 (mm)	1384	1384
Dimensions				
4.1	Fork tilt, forwards / backwards	∂/β °	2.0 / 6.0	2.0 / 6.0
4.2	Height with mast lowered	h1 (mm)	see table	see table
4.3	Free lift	h2 (mm)	see table	see table
4.4	Lift height	h3 (mm)	see table	see table
4.5	Height, mast extended	h4 (mm)	see table	see table
4.7	Height to top of overhead guard	h6 (mm)	2190	2190
4.8	Seat- or stand height	h7 (mm)	1030	1030
4.10	Height of support legs	h8 (mm)	447	447
4.15	Fork height, fully lowered	h13 (mm)	50	50
4.19	Overall length	l1 (mm)	2630	2630
4.20	Length to fork face	l2 (mm)	1480	1480
4.21	Overall width	b1/b2 (mm)	1730	1730
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)	50 / 120 / 1150	50 / 120 / 1150
4.24	Fork carriage width	b3 (mm)	1700 / 2200	1700 / 2200
4.25	Outside width over forks (minimum/maximum)	b5 (mm)	500-1700 / 2200	500-1700 / 2200
4.26	Innerwidth of the support legs	b4 (mm)	900	900
4.28	Mast reach	l4 (mm)	610	610
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2 (mm)	75	75
4.33a	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast (mm)	2887	2887
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3 (mm)	2850	2850
4.35	Turning radius	Wa (mm)	1787	1787
4.37	Truck length including support legs	l7 (mm)	1982	1982
Performance				
5.1***	Travel speed, with / without load	km/h	14 / 14	14 / 14
5.2	Lifting speed, with / without load	m/s	0.43 / 0.58	0.39 / 0.58
5.3	Lowering speed, with / without load	m/s	0.50 / 0.55	0.50 / 0.55
5.4	Reach speed, with / without load	m/s	0.1 / 0.1	0.1 / 0.1
5.8	Maximum gradeability, with / without load	%	11.0 / 17.0	11.0 / 17.0
5.9	Acceleration time (10 metres) with / without load	s	5.4 / 5.0	5.6 / 5.1
5.10	Service brake		Electric	Electric
Electric motors				
6.1	Drive motor capacity (S2 60 min. short duty)	kW	7.5	7.5
6.2	Lift motor output at S3 15% duty factor	kW	14	14
6.4	Battery voltage/capacity at 5-hour discharge	V/Ah	48 / 775, 930	48 / 775, 930
6.5	Battery weight	kg	1100, 1300	1100, 1300
6.6****	Energy consumption according to EN 16796 cycle	kWh/h	4.5	4.5
Miscellaneous				
8.1	Type of drive control		Stepless	Stepless
10.7	Level of noise at ear level of the driver according to EN ISO 4871 in work LpAZ	dB(A)	68	68
10.7.1	Level of noise at ear level of the driver according to EN ISO 487, drive/lift/idle LpAZ	dB(A)	80	80
Body	Whole-body vibration (EN 13 059:2002)	m/s ²	0.5	0.5
Hand	Hand-arm vibration (EN 13 059:2002)	m/s ²	<2.5	<2.5

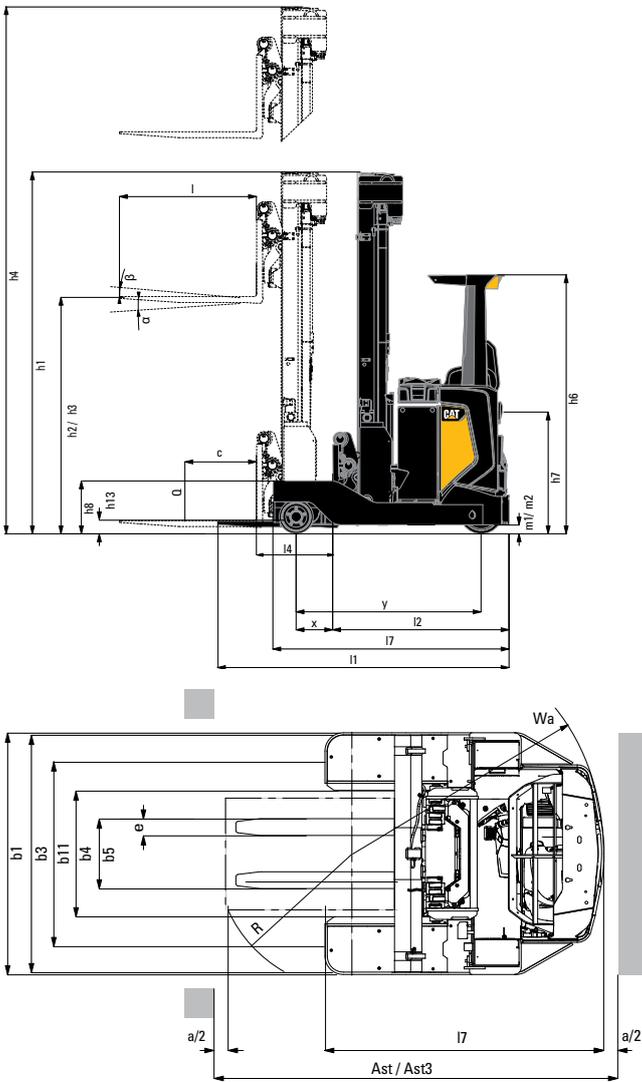
* Weight values measured with 5700mm lift height mast & 775Ah battery

** Weight values measured with 10000mm lift height mast & 930Ah battery

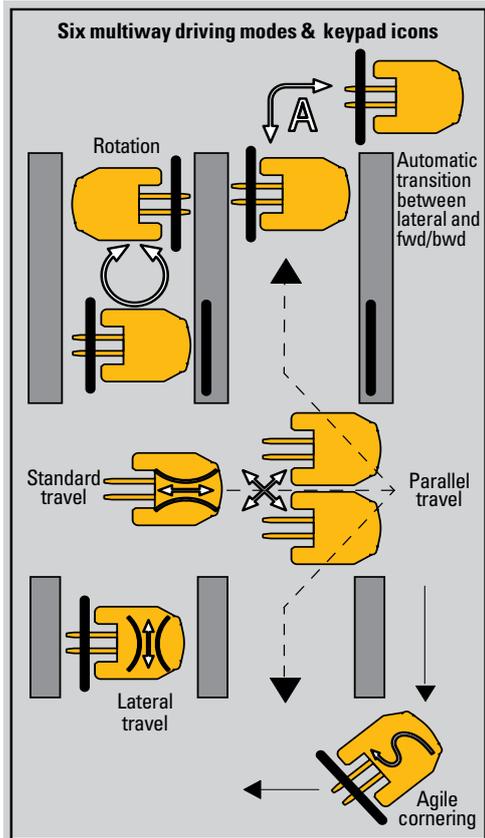
*** Max drive speed to fork direction 9 km / h

**** Energy consumption values measured with 5700mm lift height mast





- Ast = $Wa + \sqrt{(l6 - x)^2 + (b12 / 2)^2} + a$
- Ast3 = $Wa + l6 - x + a$
- l6 = Pallet length (1200 mm)
- b12 = Pallet width (800 or 1200 mm)
- a = Safety clearance = 2 x 100 mm
- TREV = Triplex with free lift



Lower Cost of Ownership

- Durable components and quick service access minimise downtime and bills.
- High-strength, single-unit load wheels, with cast instead of welded parts, turn within the chassis to avoid risk of collision damage and are easy to reach for maintenance.
- 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

- All-wheel synchronised steering, together with fork positioner, simplifies handling of long loads in narrow aisles.
- Multi-directional travel – forward/backward, sideways, diagonal and rotational – is complemented by an agile cornering mode and another for automatic transition between normal and lateral modes without stopping.
- Each load wheel has an independent steering motor, controller and brake system, and turns 360° in either direction, for unbeatable manoeuvrability, speed and precision.
- Responsive Drive System (RDS), featuring S⁴ mast handling, reacts to speed of accelerator pedal and hydraulic control movement, adjusting performance mode to meet operator's changing needs.
- High-quality fork positioner, with inbuilt tilt function, has a wide spread to cope with a great variety of load dimensions.

Safety and Ergonomics

- State-of-the-art adjustable armrest combines anatomical support with free movement, perfect hand positioning and spring-force-optimised fingertip hydraulic controls for comfortable, low-effort operation.
- Intermediate step and ergonomic grab handles allow easy and quick 'swinging' transfers to and from a spacious, high-comfort cabin whose low seat position gives extra headroom.
- Driver comforts include fully adjustable seat and steering wheel, optimally shaped and angled pedals, and other intuitive, ergonomically arranged controls.
- Automatic aids include progressive steering, curve control and reduction of drive and reach speed with mast height, for smooth, safe and efficient driving.
- Lift height and load weight indicators are included as standard to encourage safe handling.
- Hydraulic braking is highly effective, allowing confident high-speed work, and requires little maintenance.

Options

- Choice of fork positioner widths (1700mm or 2200mm)
- Blue safety light
- Working lights
- High-comfort Grammer seats
- Overhead guard with mesh or Plexiglas
- Audio system
- Custom-designed or special RAL colour side covers
- DC/DC converter
- USB power supply for mobile charging
- Additional power supply for warehouse management system (WMS) PC

Cat® Lift Trucks.

Your partner in materials handling.

Since the 1960s we have been producing lift trucks designed to last and built to perform in some of the toughest environments in the world.

Today those brand values of ruggedness, durability and serviceability are at the core of our complete range of lift truck and warehouse equipment.

Together with our dealer network we are dedicated to providing customers with comprehensive materials handling solutions and cost-effective machine selection.

Our 'off the shelf' parts availability in excess of 95% is the highest in the industry and is supported by online access to our other centralized departments in the USA, Singapore and Japan to provide a truly global service.

We offer a variety of warranties and maintenance contracts tailored to your specific needs. Cat-trained service technicians respond quickly and efficiently when required, to keep your materials handling operation running smoothly and profitably.

To help spread the cost of ownership we also provide a full range of finance and rental options.

For customers with continental operations our 'International Fleet Sales & Services' department delivers the benefits of the global Cat Lift Trucks network, through a single point of contact.

For cost-effective solutions, or to find your nearest dealer, contact Cat Lift Trucks, your partner in materials handling.

NRM20N2 / NRM25N2				
Mast Type	h1 mm	h2 mm	h3 mm	h4 mm
TREV	2230	1655	4800	5630
	2510	1800	5400	6200
	2610	1900	5700	6500
	2677	1967	5900	6700
	2810	2100	6300	7100
	3043	2333	7000	7800
	3210	2500	7500	8300
	3377	2666	8000	8800
	3543	2833	8500	9300
	3710	3000	9000	9800
	3877	3167	9500	10300
	4043	3334	10000*	10800

Mast Performance and Capacity

- TREV = Triplex with free lift
- h1 = Lowered mast height
- h2 = Free lift
- h3 = Lift height
- h4 = Raised mast height

* only available for NRM25N2

Model	Battery Capacity	Battery Weight	4.33 (1000 x 1200mm crosswise) Ast	4.34 (800 x 1200mm lengthwise) Ast3	L4 4.28	L2 4.20	L1 4.19	x 1.8
NRM20N2 & NRM25N2	Ah	kg	mm	mm	mm	mm	mm	mm
	775	1100	2887	2850	610	1480	2630	337
	930	1300	2887	2850	610	1480	2630	337



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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.

