NOM10P

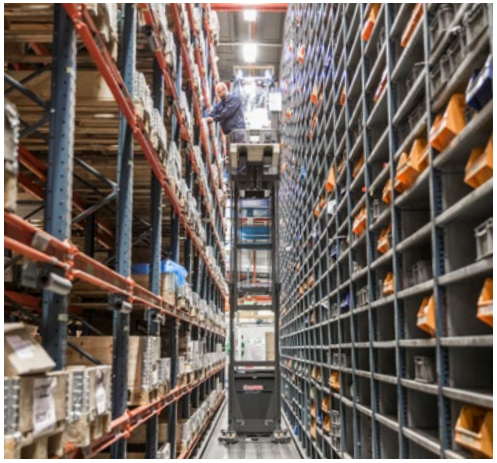
NOH12PH

SPECIFICATIONS

MEDIUM- & HIGH-LEVEL ORDER PICKERS 24/48V, 1.0 - 1.25 TONNES

TOP RESULTS IN HIGH RACKING

OPTIMISE THE BENEFITS OF NARROW AISLES AND HIGH RACKING WITH ONE OF THESE MEDIUM- OR HIGH-LEVEL ORDER PICKERS. BASED ON THE SAME RUGGED, MODULAR, LOW-MAINTENANCE DESIGN, THEY ARE SPECIFIED FOR MAXIMUM OUTPUT AND PROFITABILITY.



Heavy duty 48V NOH12PH reaches picking locations as high as 12.1 m and has an unequalled 1.25 tonne capacity. Pick height for 24V NOM10P goes up to 9.85 m.

Advanced, user-friendly interface features a right-hand control unit providing excellent anatomical fit, positional adjustment, grip and support, for comfortable and precise operation. Meanwhile, the left hand stays firmly on the Midi steering wheel.

Position of the optional comfort cushion can be adjusted to driver's preference for leaning or sitting during travel. Optimised cabin size and shape combine space and comfort with easy reach of controls while resting against back support.

Cushioned, high-grip mat covers whole-floor driver presence sensor. Operation is permitted from any standing position. Walk-through access is quick and free of tripping hazards, thanks largely to the absence of a traditional 'deadman pedal'.

LOWER COST OF OWNERSHIP

- Rugged modular design extends truck life and simplifies replacement of parts.
- Latest AC drive motor technology provides greater torque, efficiency and control, with minimal maintenance.
- PIN code log-in prevents unauthorised use.
- Multifunction Colour Display shows clear truck status information to the operator.
- ECO mode can be selected to slow operation slightly while saving significantly (about 5-6%) on energy consumption.
- Easy access to motor, battery and other components speeds up checks and servicing.

UNMATCHED PRODUCTIVITY

- High lifting – maximum 8.25 m for medium and 10.5 m for high level – accesses picking locations up to 9.85 or 12.1 m to optimise usage of racking capacity.
- Heavy duty specification of high-level model, with unequalled 1.25 tonne capacity, maximises output.
- Operator can quickly change performance mode within his/hers allowed performance range to match various handling situations.
- Battery discharge indicator (BDI) allows recharging to be planned with minimum disruption to work.
- Fully integrated Li-ion technology makes continuous operation possible, without battery changes, using fast opportunity charging during short breaks. (Buyers can choose between Li-ion and lead-acid truck versions.)

SAFETY AND ERGONOMICS

- Two-piece control panel is integrated into chassis for a shorter, more compact truck design with more operator space.
- Right-hand control unit provides excellent anatomical fit, positional adjustment, grip and support, for comfortable and precise operation – while left hand stays on the Midi steering wheel.
- Controls at the fork end of the cabin can be specified as an option for further flexibility.
- Whole-floor driver presence sensor with cushioned, high-grip mat permits comfortable truck operation in any standing position, gives easy, obstacle-free, walk-through access and prevents disabling of the 'deadman pedal' function.
- Low step height (215 mm) and two convenient grab handles, for easier entry and exit, save effort and reduce fatigue.
- Optional comfort cushion is adjustable to preferred position for leaning or sitting during travel.
- Cabin size and shape are optimised for comfortable space with easy reach of controls while resting against back support.
- Automatic speed reduction adjusts travel rate according to steered wheel angle and platform height, for stability and safety during turns and high lifts.
- SecurGate side gate system reduces fall risk when used at any height, and prevents truck operation if gates are open above 1.2 m.
- Step-out warning sounds audible alarm and shows message on screen if gates are open when platform is above its lowest position.
- Multiple storage compartments keep operator's equipment close at hand, while avoiding inefficient, hazardous clutter.
- PoweRamic mast and transparent front panels improve view for safe, accurate operation.
- Warning lights inside each straddle leg and on the truck's front corners enhance visibility.
- Steel battery rollers ensure quick and safe changeovers.
- Overhead guard adds safety and can be used for simple attachment of accessories.

STANDARD EQUIPMENT AND OPTIONS

	NOM10P	NOH12PH
GENERAL		
Multifunctional colour display	●	●
PIN code log in, 99 codes	●	●
Key switch entry	○	○
Drive and lift controls on mast side	●	●
Operators presence sensor in floor	●	●
Cornering control	●	●
Two hand operation in guided aisles	●	●
Platform with LiftComfort and fixed forks	●	●
SecurGate gates	●	●
Rubber bumper	●	●
Warning light	●	●
POWER SOURCE		
Li-ion battery*	○	○
Lead-acid battery	○	○
GUIDANCE		
Rail guidance	○	○
Wire guidance	○	○
DESCENDER DEVICE		
Descender device	○	○
High specification escape device	○	○
ENVIRONMENT		
Chill store design, with rust protected axles	●	●
Cold store design, 0°C to -30°C	○	○
DRIVE, LIFT CONTROLS		
On fork side	○	○
On fork and mast side	○	○
Extra buttons for LiftComfort (mast side)	○	○
COMPUTER EQUIPMENT		
Automatic log off	○	○
Service alarm	○	○
Battery creep speed	○	○
DRIVE AND LIFT STOP		
Drive stop	○	○
Lift stop with/without restart	○	○
SAFETY		
Finger guards toward mast	○	○
Gate interlock, <1200mm platform height	○	○
Gate open audible warning, >415mm platform lift	○	○
Prepared for Personal Protection System, PPS	○	○
End of aisle reduced speed options	○	○

● Standard ○ Option

* Li-ion battery option is available in selected regions

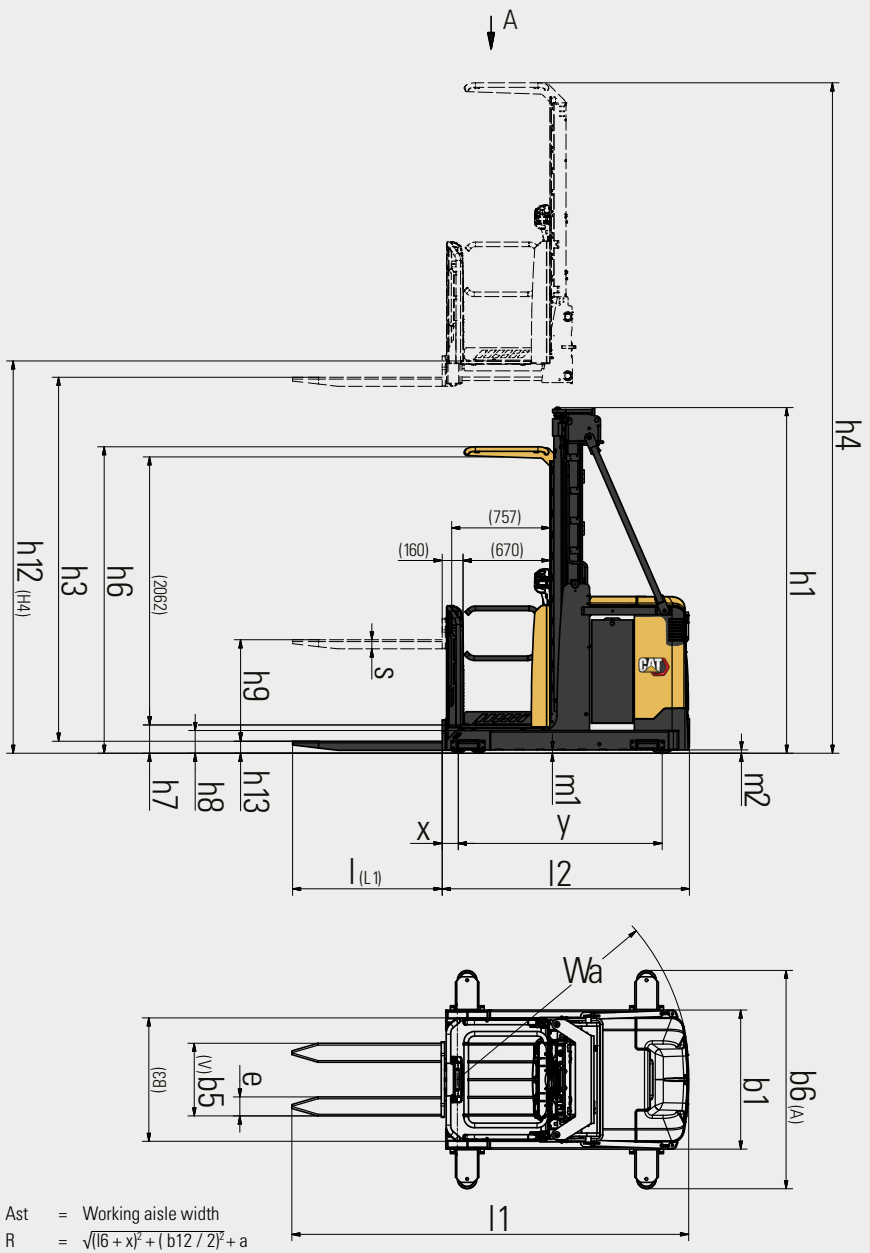
STANDARD EQUIPMENT AND OPTIONS CONTINUED

OTHER	NOM10P	NOH12PH
Mini steering wheel	O	O
Rear view mirror	O	O
Light in cabin, for racks	O	O
Light in cabin, for interior	O	O
Radio with MP3	O	O
Converter 24 - 12V, 8A, 96W outlet	O	—
Converter 48 - 12V, 8A, 96W outlet	—	O
12V DC power socket, Cigarette power outlet	O	O
Equipment holder, RAM system, Size C	O	O
Foldable drivers cushion	O	O
Comfort fan for driver	O	O
Extra storage in platform	O	O

● Standard O Option

	Characteristics				
1.1	Manufacturer			Cat Lift Trucks	Cat Lift Trucks
1.2	Manufacturer's model designation			**NOM10P DUPLEX MAST**	**NOM10P TRIPLEX FREE LIFT MAST**
1.3	Power source: (battery, diesel, LP gas, petrol)			Battery	Battery
1.4	Operator type: pedestrian, (operator)-standing, -seated			Stand-on	Stand-on
1.5	Load capacity	Q	(kg)	1000	1000
1.6	Load center distance	c	(mm)	600	600
1.8	Load wheel axle to fork face (forks lowered)	x	(mm)	125	204
1.9	Wheelbase	y	(mm)	1568	1568
	Weight				
2.1a	Truck weight with load, with maximum battery weight		kg	3050 + (96 x h12) [1]	3260 + (91.5 x h12) [1]
2.1b	Truck weight without load, with maximum battery weight		kg	2050 + (96 x h12) [1]	2260 + (91.5 x h12) [1]
2.2	Axle loadings with nominal load & max. battery weight, drive/load side		kg	1110/2800	1210/2910
2.3	Axle loadings without load & with max. battery weight, drive/load side		kg	1660/1250	1790/1330
	Wheels, Drive Train				
3.1	Tyres: PT=Power Thane, Vul=Vulkollan, drive/load side			Vul/Vul	Vul/Vul
3.2	Tyre dimensions, drive side		(mm)	250 x 105	250 x 105
3.3	Tyre dimensions, load side		(mm)	150 X 55	150 X 55
3.5	Number of wheels, load/drive side (x=driven)			8 / 1 x	8 / 1 x
3.7	Track width (center of tyres), load side	b11	(mm)	806 / 906 / 1006	906 / 1006
	Dimensions				
4.2a	Height with mast lowered	h1	(mm)	h12 / 2 + 592	h12 / 3 + 637
4.4	Lift height (without h9)	h3	(mm)	3285 - 7185	4885 - 8035
4.5	Height with mast extended	h4	(mm)	h12 + 2140	h12 + 2160
4.7	Height to top of overhead guard	h6	(mm)	2356	2356
4.8	Seat- or stand height	h7	(mm)	215 - h12	215 - h12
4.10	Height of support legs	h8	(mm)	175	175
4.11	Supplementary lift	h9	(mm)	775	775
4.14	Platform height, raised	h12	(mm)	3600 - 7400	5200 - 8250
4.15	Fork height, fully lowered	h13	(mm)	90	90
4.19	Overall length	l1	(mm)	3055	3135
4.20	Length to fork face	l2	(mm)	1903	1982
4.21	Overall width	b1	(mm)	970 / 1070 / 1170	1070 / 1170
4.22	Fork dimensions (thickness, width, length)	s/e/l	(mm)	70 / 147 / 1150	70 / 147 / 1150
4.24	Fork carriage width	b3	(mm)	560	560
4.25	Outside width over forks (minimum-maximum.)	b5	(mm)	450-800	450-800
4.27	Width over guide rollers (minimum-maximum.)	b6	(mm)	1148-1814	1248-1814
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2	(mm)	25	25
4.33a	Working aisle width (Ast) with 1000 x1200 mm pallets, (l6 * b12) load crosswise	Ast	(mm)	Platform or load width + clearance	Platform or load width + clearance
4.34a	Working aisle width (Ast) with 800 x1200 mm pallets, (l6 * b12) load lengthwise	Ast	(mm)	Platform or load width + clearance	Platform or load width + clearance
4.35	Turning radius	Wa	(mm)	1790	1790
4.41	Transfer aisle width (pallet 1000 × 1200 mm lengthwise & 200 mm clearance)			3265	3336
	Performance				
5.1	Travel speed, with/without load		km/h	11 / 11	11 / 11
5.2	Lifting speed, with/without load		m/s	0.21 / 0.32	0.26 / 0.37
5.3	Lowering speed, with/without load		m/s	0.4 / 0.4	0.43 / 0.45
5.8	Maximum gradeability, with/without load		%	7.1	7.1
5.9	Acceleration time (10 metres) with/without load		s	6.3 / 5.8	6.3 / 5.8
5.10	Service brake			Electric	Electric
	Electric Motors				
6.1	Drive motor capacity (60 min. short duty)		kW	2.7	2.7
6.2	Lift motor output at 15% duty factor		kW	8 (20%)	8 (20%)
6.3	Battery to DIN 43 531/35/36 A/B/C/no			BS	BS
6.4	Battery voltage/capacity at 5-hour discharge		V/Ah	24 / 775	24 / 775
6.5	Battery weight		kg	500 - 700	500 - 700
	Miscellaneous				
8.1	Type of drive control			AC Traction	AC Traction
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	66

1) Use h12 dimension in metres for calculation. This is the extra weight in the mast per metre of lift height.

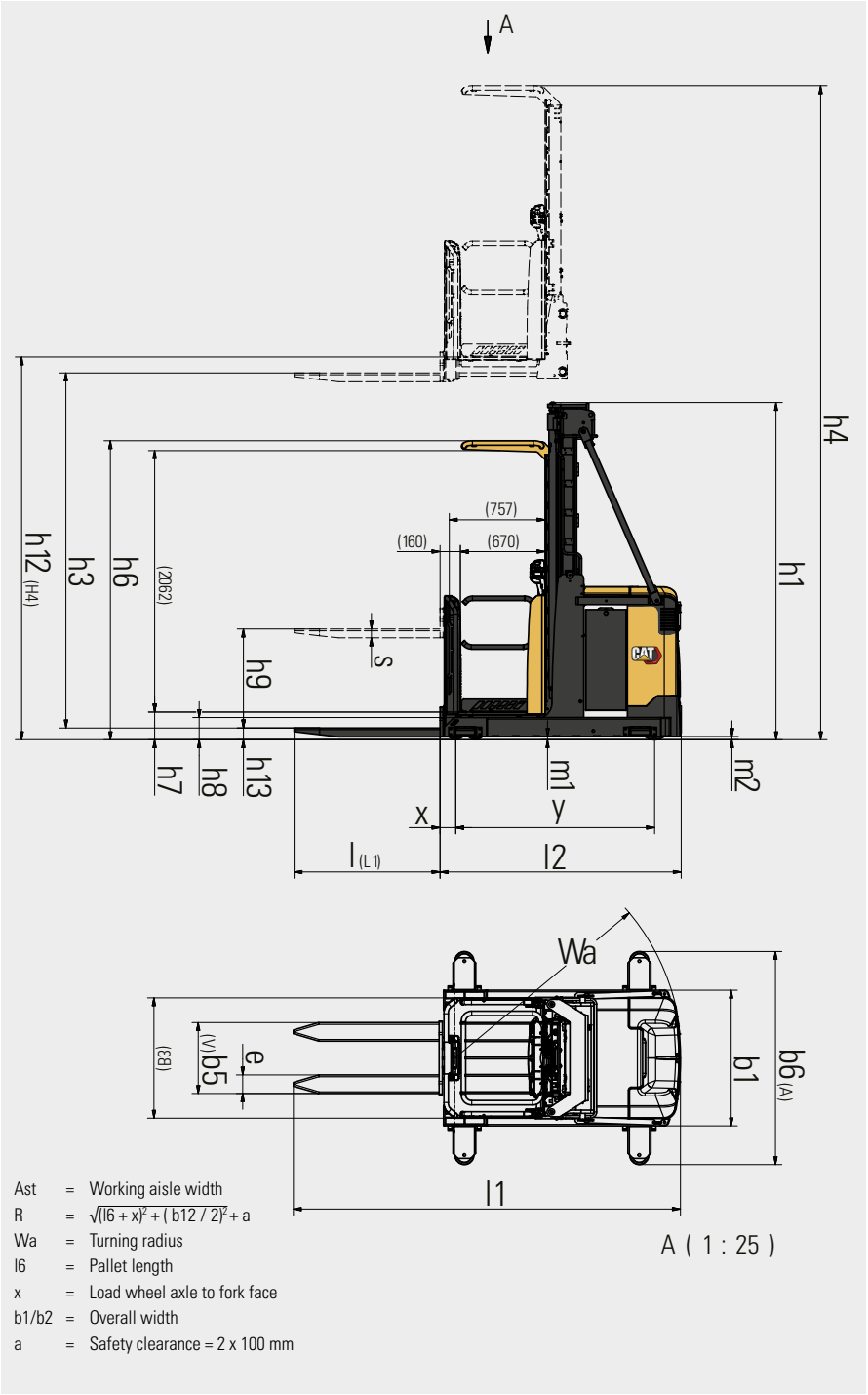


Ast = Working aisle width
R = $\sqrt{(l6 + x)^2 + (b12 / 2)^2} + a$
Wa = Turning radius
l6 = Pallet length
x = Load wheel axle to fork face
b1/b2 = Overall width
a = Safety clearance = 2 x 100 mm

A (1 : 25)

This specification sheet provides details of the standard truck specification in accordance with VDI Guideline 2198.

	Characteristics			
1.1	Manufacturer			Cat Lift Trucks
1.2	Manufacturer's model designation			**NOH12PH**
1.3	Power source: (battery, diesel, LP gas, petrol)			Battery
1.4	Operator type: pedestrian, (operator)-standing, -seated			Stand-on
1.5	Load capacity	Q	(kg)	1250
1.6	Load center distance	c	(mm)	600
1.8	Load wheel axle to fork face (forks lowered)	x	(mm)	126
1.9	Wheelbase	y	(mm)	1760
	Weight			
2.1a	Truck weight with load, with maximum battery weight		kg	4205 + (97 x h12) [1]
2.1b	Truck weight without load, with maximum battery weight		kg	2955 + (97 x h12) [1]
2.2	Axle loadings with nominal load & max. battery weight, drive/load side		kg	1780 / 3510
2.3	Axle loadings without load & with max. battery weight, drive/load side		kg	2390 / 1650
	Wheels, Drive Train			
3.1	Tyres: PT=Power Thane, Vul=Vulkollan, drive/load side			Vul/Vul
3.2	Tyre dimensions, drive side		(mm)	355 x 155
3.3	Tyre dimensions, load side		(mm)	150 X 55
3.5	Number of wheels, load/drive side (x=driven)			8 / 1 x
3.7	Track width (center of tyres), load side	b11	(mm)	1006/1186
	Dimensions			
4.2a	Height with mast lowered	h1	(mm)	h12 / 3 + 770
4.4	Lift height (without h9)	h3	(mm)	5785 - 10285
4.5	Height with mast extended	h4	(mm)	h12 + 2160
4.7	Height to top of overhead guard	h6	(mm)	2356
4.8	Seat- or stand height	h7	(mm)	215 - h12
4.10	Height of support legs	h8	(mm)	175
4.11	Supplementary lift	h9	(mm)	775
4.14	Platform height, raised	h12	(mm)	6000 - 10500
4.15	Fork height, fully lowered	h13	(mm)	90
4.19	Overall length	l1	(mm)	3290
4.20	Length to fork face	l2	(mm)	2139
4.21	Overall width	b1	(mm)	1170 / 1350
4.22	Fork dimensions (thickness, width, length)	s/e/l	(mm)	70 / 147 / 1150
4.24	Fork carriage width	b3	(mm)	560
4.25	Outside width over forks (minimum-maximum.)	b5	(mm)	450-800
4.27	Width over guide rollers (minimum-maximum.)	b6	(mm)	1348-1814
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2	(mm)	25 [2]
4.33a	Working aisle width (Ast) with 1000 x1200 mm pallets, (l6 * b12) load crosswise	Ast	(mm)	Platform or load width + clearance
4.34a	Working aisle width (Ast) with 800 x1200 mm pallets, (l6 * b12) load lengthwise	Ast	(mm)	Platform or load width + clearance
4.35	Turning radius	Wa	(mm)	2020
4.41	Transfer aisle width (pallet 1000 × 1200 mm lengthwise & 200 mm clearance)			3496
	Performance			
5.1	Travel speed, with/without load		km/h	12 / 12
5.2	Lifting speed, with/without load		m/s	0.36 / 0.44
5.3	Lowering speed, with/without load		m/s	0.41 / 0.45
5.8	Maximum gradeability, with/without load		%	6.2
5.9	Acceleration time (10 metres) with/without load		s	5.5 / 5.2
5.10	Service brake			Electric
	Electric Motors			
6.1	Drive motor capacity (60 min. short duty)		kW	5.9
6.2	Lift motor output at 15% duty factor		kW	11
6.3	Battery to DIN 43 531/35/36 A/B/C/no			DIN 43531 B
6.4	Battery voltage/capacity at 5-hour discharge		V/Ah	48 / 620
6.5	Battery weight		kg	890 - 1125
	Miscellaneous			
8.1	Type of drive control			AC Traction
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)	65



Ast = Working aisle width
R = $\sqrt{(l6 + x)^2 + (b12 / 2)^2} + a$
Wa = Turning radius
l6 = Pallet length
x = Load wheel axle to fork face
b1/b2 = Overall width
a = Safety clearance = 2 x 100 mm

A (1 : 25)

1) Use h12 dimension in metres for calculation. This is the extra weight in the mast per metre of lift height.
2) Lowest point of ground clearance (mL) for 48 v model are the adjustable lugs at 15 mm.

This specification sheet provides details of the standard truck specification in accordance with VDI Guideline 2198.

Mast Performance and Capacity

h1 Closed mast height
h12 Lift height
h Fork height LiftComfort raised
B Chassis width
Q Lifting capacity, rated load
c Load centre (distance)

NOM10P				mL ≤ 25 mm	mL ≤ 25 mm	mL ≤ 25 mm
Mast Type	h12 mm	h1 mm	h = h12-125+775 mm	B=970	B=1070	B=1170
	Platform floor height	Closed mast height	fork height LiftComfort raised	Q @ c = 400-600mm kg	Q @ c = 400-600mm kg	Q @ c = 400-600mm kg
Duplex	3600	2392	4250	1000	1000	1000
	4000	2592	4650	1000	1000	1000
	4400	2792	5050	1000	1000	1000
	4700	2942	5350	1000	1000	1000
	5000	3092	5650	1000	1000	1000
	5400	3292	6050	1000	1000	1000
	5800	3492	6450	-	1000	1000
	6200	3692	6850	-	1000	1000
	6600	3892	7250	-	-	1000
	7000	4092	7650	-	-	800
	7400	4292	8050	-	-	650
Triplex Free Lift	5200	2370	5850	N/A	1000	1000
	5500	2470	6150	N/A	1000	1000
	6100	2670	6750	N/A	1000	1000
	6550	2820	7200	N/A	-	1000
	7000	2970	7650	N/A	-	800
	7800	3237	8450	N/A	-	650
	8250	3387	8900	N/A	-	600

Load deration based on load evenly spread along the forks
Load deration on request when LC >600 mm
mL = is ground clearance

Standard lift heights are limited by truck width.
Therefore residual capacity is shown at maximum standard lift height for the relative truck width. B = is chassis width.
Other higher options may be available but subject to special design

NOH12PH				mL ≤ 15 mm	mL ≤ 15 mm
Mast Type	h12 mm	h1 mm	h = h12-125+775 mm	B=1170	B=1350
	Platform floor height	Closed mast height	fork height LiftComfort raised	Q @ c = 400-600mm kg	Q @ c = 400-600mm kg
Triplex Free Lift	6000	2770	6650	1250	1250
	6750	3020	7400	1250	1250
	7500	3270	8150	1250	1250
	(7750)	3353	8400	1100	1250
	8250	3520	8900	900	1250
	(8500)	3603	9150	850	1250
	9000	3770	9650	750	1250
	9750	4020	10400	-	1100
	(10000)	4103	10650	-	1000
	10500	4270	11150	-	900

( ) = Non standard mast, only to show capacity
Load deration based on load evenly spread along the forks
Load deration on request when LC >600 mm
mL = is ground clearance

Standard lift heights are limited by truck width.
Therefore residual capacity is shown at max. standard lift height for the relative truck width.
Other higher options may be available but subject to special design.

All capacities are based on VNA standard floors where ground clearance is not greater than 15 mm.
If adjustable lugs are altered to be greater than 15mm then capacity will be reduced

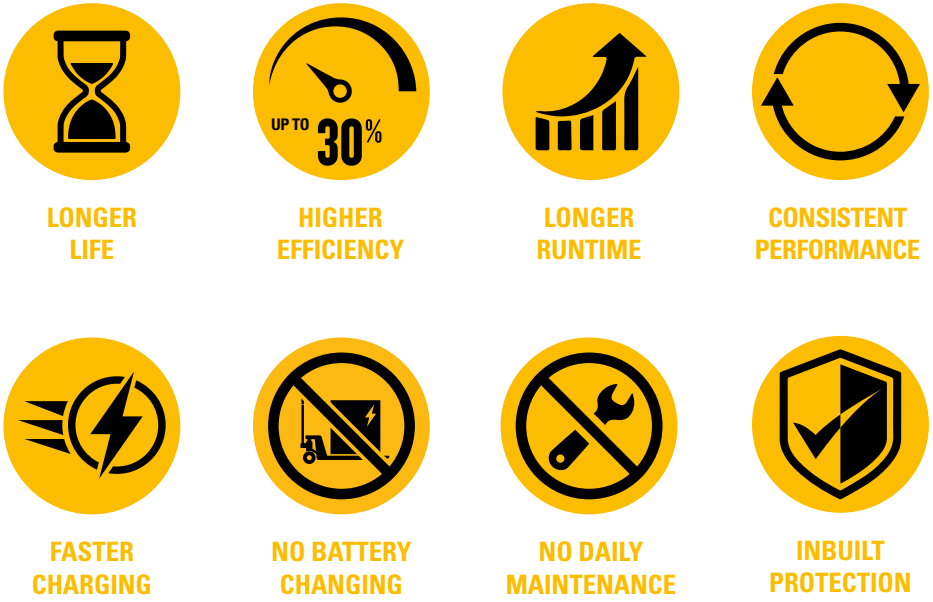
LI-ION BATTERIES

TIME TO SWITCH?

LiION BATTERY TECHNOLOGY

Lithium-ion (Li-ion) battery technology is available in the Cat® electric counterbalance and warehouse truck ranges. While lead-acid batteries remain a popular choice for our customers, and still have much to offer, they present various challenges which Li-ion can overcome.

Perhaps the most noticeable change when switching to Li-ion is the use of opportunity charging. Instead of exchanging batteries between shifts, you can simply plug into a fast charger during short breaks and keep the same battery going 24/7. This, together with other efficiency, environmental and safety benefits, makes Li-ion a very appealing alternative.



Cat Li-ion advantages over lead-acid

Li-ion is an investment which should be viewed against ongoing savings on energy, equipment, labour and downtime.

- **Longer life** – 3 to 4 times lead-acid lifespan – reduces overall battery investment
- **Higher efficiency** – energy losses during charging and discharging are up to 30% lower, so electricity consumption is reduced
- **Longer runtime** – thanks to more efficient battery performance and use of opportunity charges, which can be given at any time without damaging the battery or shortening its lifespan
- **Consistently high performance** – with a more constant voltage curve – maintains greater truck productivity, even toward the end of a shift
- **Faster charging** – enables full charge in as little as 1 hour with the fastest chargers
- **No battery changing** – fast opportunity charges – 15 minutes for several hours of extra runtime – enable continuous operation with just one battery and minimise the need to buy, store and maintain spares
- **No daily maintenance** – the battery stays on board the truck for charging and there is no need for water top-ups or electrolyte checks
- **No gas** – or acid spills – avoids the space, equipment and running costs of a battery room and ventilation system
- **Inbuilt protection** – intelligent battery management system (BMS) automatically prevents excessive discharge, charge, voltage and temperature, as well as virtually eliminating misuse

Batteries and chargers with different capacities are available. Your dealer will identify the best combination for your needs. You should also ask your dealer about optional 5-year warranties, subject to annual check-ups, which give extra peace of mind.

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