



# DEPENDABLE PRODUCTIVITY

NSP10N3  
NSP12N3  
NSP14N3  
NSP16N3  
NSP12N3I  
NSP14N3I  
NSP16N3I  
NSP10N3R  
NSP12N3R  
NSP14N3R  
NSP16N3R  
NSP12N3IR  
NSP14N3IR  
NSP16N3IR  
NSP16N3S  
NSP16N3SR

## SPECIFICATIONS

**PEDESTRIAN AND FOLDING PLATFORM STACKER TRUCKS 24V, 1.0 - 1.6 TONNES**



# YOUR PERFECT SHORT SHUTTLE PARTNER

THIS RANGE OF STACKERS, INCORPORATING ALL THE LATEST TECHNOLOGY, IS DESIGNED FOR SHORT SHUTTLE APPLICATIONS AND STACKING UP TO 5.4 METRES. WITH A WIDE CHOICE OF PEDESTRIAN AND FOLD-DOWN PLATFORM MODELS, YOU WILL FIND A RELIABLE AND PRODUCTIVE WORKHORSE FOR ANY WAREHOUSE.



Energy-saving programmable drive options, robust construction and high resistance to water and dirt reduce running costs and boost productivity. Maintenance needs are minimised by an integrated drive and lift system, with fewer components, and quick access to all major truck parts.



Smooth and precise control characteristics and a comfortable operating position, with a user-friendly tiller arm and excellent visibility through the mast, ensure a satisfying user experience. Height-adjustable castor wheels and high-strength masts help to maximise stability.



Models with a small fold-down platform are available at 1.0, 1.2, 1.4 and 1.6 tonne capacities to take the legwork out of longer distances.



## LOWER COST OF OWNERSHIP

- Latest AC technology keeps energy consumption and maintenance costs to bare minimum.
- Sturdy chassis construction and endurance-tested forks provide enhanced robustness and reliability even in the toughest conditions.
- Closed chassis and waterproof electrics resist moisture, dirt and corrosion - increasing uptime, cutting maintenance costs and prolonging truck life.
- Easy access to critical truck components allows faster fault diagnosis and speedier maintenance, squeezing downtime still further.
- Integrated drive and lift system features fewer components than previous models, reducing scope for breakdown.
- Closed compartment with steel cover protects battery against impact, postponing costly battery replacement.
- Standard battery size allows interchangeability with other brands.

## UNMATCHED PRODUCTIVITY

- AC motor results in very precise drive control, making life easier for truck operators.
- Standard multifunctional (LCD) display offers clear information on truck and battery condition.
- Class-leading, patented, ergonomic *emPower* tiller head helps keep operators fresh with comfortable, easy-to-use controls.
- Z-tiller arm / offset arm is available for loading in tight spaces such as lorries.
- Excellent drive and traction characteristics suit intensive work over short and medium distances.
- Distance of the load wheels from the rear frame has been optimised for increased stability.
- Advanced programmable controller lets users prioritise between faster performance and smoother handling with lower energy consumption, prolonging shift life.
- Rounded fork tips make for accurate and effortless pallet entry, speeding up handling cycles and preventing pallet or load damage.
- Truck can be driven with tiller arm in vertical position (tiller up drive) in ultra-low-speed 'tortoise' mode to maximise manoeuvrability in tight spaces.
- Narrower truck body makes handling operations in confined areas much easier.
- NSP10-16N3/N3I/N3S models feature an offset tiller arm so the operator can walk alongside, clear of the truck, for convenience and safety.
- N3R models feature fold-down driver platform that prevents operator fatigue over longer distances.
- N3R models' folding platform stays down when lowered, saving time when operators go to remount.
- NSP16N3 and N3R models fitted with the optional side stabilisers achieve impressively greater lifting capacity at higher stacking heights - even compared to stackers with heavier rated capacities.

- N3I initial lift models let operator raise mast and forks, increasing ground clearance to protect truck and load when working on ramps.
- N3I initial lift models can carry two pallets simultaneously using the initial lift on the support forks.
- N3S straddle models allow wider loads and closed, bottom-boarded pallets to be handled with ease, using forged forks to lift straight from the floor.

## SAFETY AND ERGONOMICS

- Latest tiller arm design permits comfortable operating position with optimum hand protection.
- Large lift/lower rocker buttons are part of a unique, patented tiller head design with optimum distance between hand and controls, allowing easy one-handed operation even when wearing gloves.
- High-strength masts reduce load movement to a minimum.
- Slim mast profiles and careful hydraulic hose arrangements make for excellent forward visibility.
- Super-quiet oil-filled transmission helps keep noise levels low.
- Height-adjustable castor wheel eliminates play and raises load stability.
- Speed-regulated lifting and a proportional valve for lowering are standard on all models to provide precise, smooth, safe and productive handling.

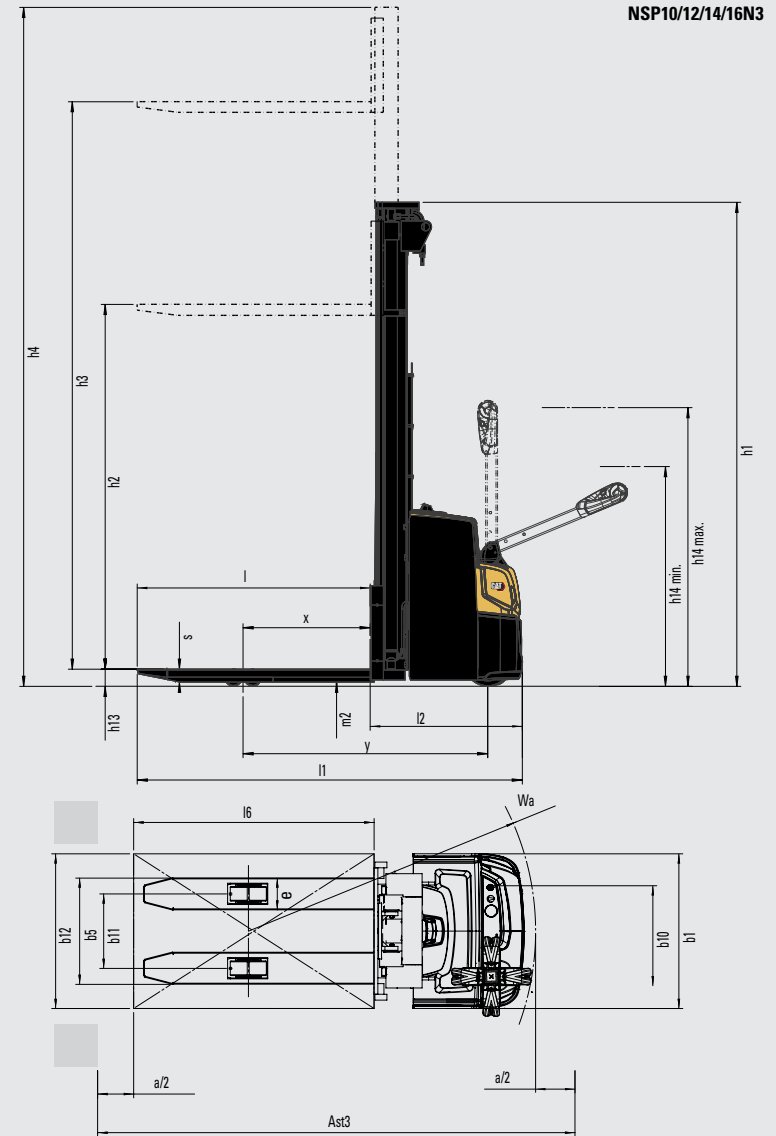


# STANDARD EQUIPMENT AND OPTIONS

	NSP10N3(R)	NSP12N3(I)	NSP14N3(I)	NSP16N3(I)	NSP12N3(I)R	NSP14N3(I)R	NSP16N3(I)R	NSP16N3S	NSP16N3SR
<b>GENERAL</b>									
Multifunctional display, including hour meter and BDI	●	●	●	●	●	●	●	●	●
Key switch entry	●	●	●	●	●	●	●	●	●
PIN code login 5 codes	○	○	○	○	○	○	○	○	○
Offset tiller arm (not available for R models)	●	●	●	●	●	●	●	●	●
Speed-regulated lifting and proportional valve for lowering, controlled by rocker switch on tiller head	●	●	●	●	●	●	●	●	●
Initial lift (standard for I models only)	—	●	●	●	●	●	●	—	—
Adjustable width between straddle load legs; 900mm - 1300mm	—	—	—	—	—	—	—	●	●
Sideways battery change (250Ah battery only)	—	○	○	○	○	○	○	○	○
Battery changing trolley, for 2 batteries (lead-acid)	—	○	○	○	○	○	○	○	○
Li-ion batteries	○	○	○	○	○	○	○	○	○
<b>ENVIRONMENT</b>									
Continuous use, +5°C to +25°C	●	●	●	●	●	●	●	●	●
Cold store design, 0°C to -35°C	○	○	○	○	○	○	○	○	○
<b>DRIVE AND LIFT CONTROLS</b>									
Hydraulic side stabilisers for enhanced residual capacity (not available for I models)	—	—	—	○	—	—	○	—	—
Centred steering position, with Z-shaped tiller arm (not available for R models)	○	○	○	○	○	○	○	○	○
Tiller up drive	●	●	●	●	●	●	●	●	●
<b>WHEEL OPTIONS</b>									
Vulkollan® drive wheel	●	●	●	●	●	●	●	●	●
Power friction traction wheel	○	○	○	○	○	○	○	○	○
Single load wheels Vulkollan®	●	●	—	—	●	—	—	—	—
Tandem load wheels Vulkollan®	○	○	●	●	○	●	●	●	●
<b>OTHER OPTIONS</b>									
Speed reduction 0.5km/h above 1000mm lift, duplex and triplex masts without free lift	—	○	○	○	○	○	○	○	○
Speed reduction 0.5km/h above free lift, duplex and triplex masts with free lift	—	○	○	○	○	○	○	○	○
Built-in charger 30A, for lead-acid batteries	○	○	○	○	○	○	○	○	○
Special RAL colour	○	○	○	○	○	○	○	○	○
Load backrest, 1300mm	○	○	○	○	○	○	○	○	○
Accessory rack	○	○	○	○	○	○	○	○	○
List bracket / writing desk, A4 size	○	○	○	○	○	○	○	○	○
Computer rack, 10-16" size	○	○	○	○	○	○	○	○	○

Characteristics		
1.1	Manufacturer	
1.2	Manufacturer's model designation	
1.3	Power source	
1.4	Operator type	
1.5	Load capacity	Q (kg)
1.6	Load centre distance	c (mm)
1.8	Load wheel axle to fork face (forks lowered)	x (mm)
1.9	Wheelbase	y (mm)
Weight		
2.1b	Truck weight without load, with maximum battery weight	kg
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side	kg
2.3	Axle loadings without load & with maximum battery weight, drive / load side	kg
Wheels, Drive Train		
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side	
3.2	Tyre dimensions, drive side	(mm)
3.3	Tyre dimensions, load side	(mm)
3.4	Castor wheel dimensions (diameter x width)	(mm)
3.5	Number of wheels, load / drive side (x = driven)	
3.6	Track width (centre of tyres), drive side	b10 (mm)
3.7	Track width (centre of tyres), load side	b11 (mm)
Dimensions		
4.2b	Height	h1 (mm)
4.3	Free lift	h2 (mm)
4.4	Lift height	h3 (mm)
4.5	Height with mast extended	h4 (mm)
4.6	Initial lift	h5 (mm)
4.9	Height of tiller arm / steering console (min/max)	h14 (mm)
4.15	Fork height, fully lowered	h13 (mm)
4.19	Overall length	l1 (mm)
4.20	Length to fork face	l2 (mm)
4.21	Overall width	b1/b2 (mm)
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)
4.24	Fork carriage width	b3 (mm)
4.25	Outside width over forks (minimum / maximum)	b5 (mm)
4.26	Inner width of support legs	b4 (mm)
4.32	Ground clearance at centre of wheelbase, (forks lowered)	m2 (mm)
4.33c	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast (mm)
4.33d	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast3 (mm)
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast (mm)
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3 (mm)
4.34c	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast (mm)
4.34d	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast3 (mm)
4.35	Turning radius	Wa (mm)
Performance		
5.1	Travel speed, with / without load	km / h
5.2	Lifting speed, with / without load	m / s
5.3	Lowering speed, with / without load	m / s
5.7	Gradeability, with / without load	%
5.8	Maximum gradeability with / without load	%
5.9	Acceleration time (10 metres) with / without load	s
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)	
Electric motors		
6.1	Drive motor capacity (60 min. short duty)	kW
6.2	Lift motor output at 15% duty factor	kW
6.3	Battery to DIN	
6.4	Battery voltage/capacity at 5-hour discharge	V / Ah
6.5	Battery weight	kg
6.6a	Energy consumption according to EN16796	kWh / h
Miscellaneous		
8.1	Type of drive control	
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)
10.7.1	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ	dB (A)
10.7.2	Whole-body vibration (EN 13 059:2002)	
10.7.3	Hand-arm vibration (EN 13 059:2002)	

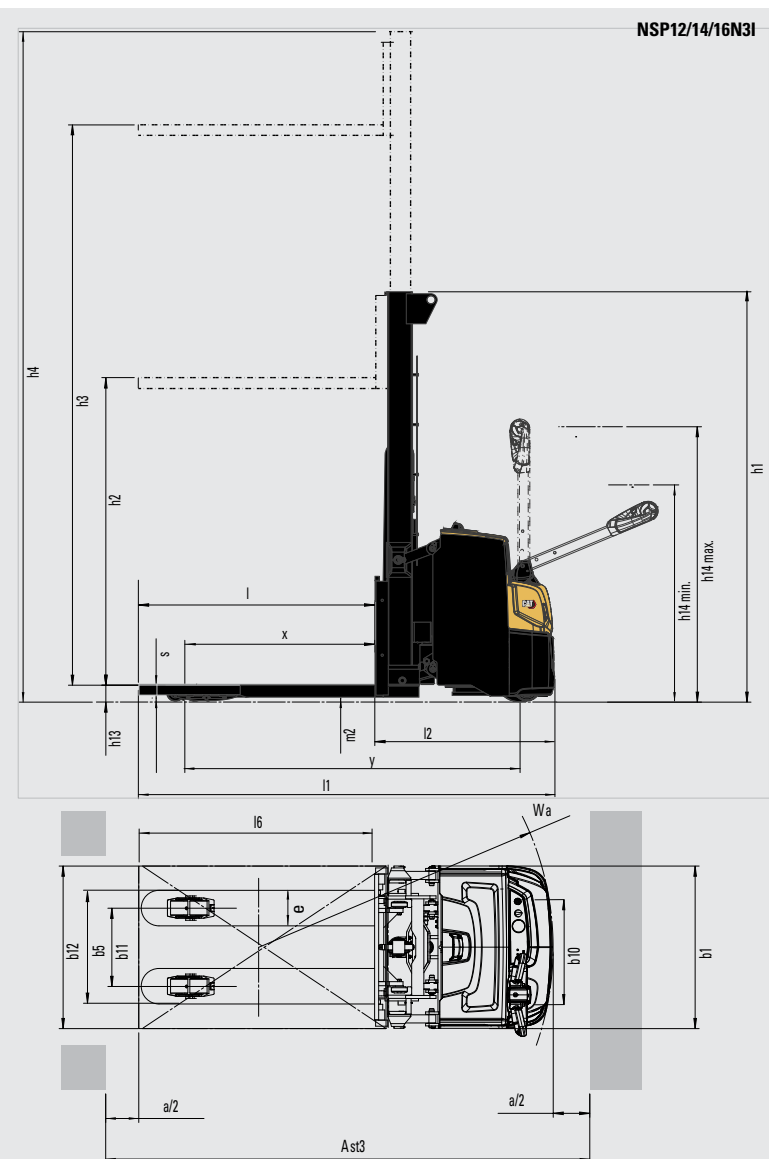
Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks
NSP10N3	NSP12N3	NSP14N3	NSP16N3
Battery	Battery	Battery	Battery
Pedestrian	Pedestrian	Pedestrian	Pedestrian
1000	1200	1400	1600
600	600	600	600
700	750	750	750
1215	1330 <sup>1)</sup>	1330	1330 <sup>2)</sup>
730	1020	1020	1095
612 / 1128	810 / 1410	845 / 1580	930 / 1171
534 / 196	730 / 295	730 / 295	790 / 311
Vul / Vul	Vul / Vul	Vul / Vul	Vul / Vul
230 x 70	230 x 70	230 x 70	230 x 70
85 x 90	85 x 90	85 x 75	85 x 75
125 x 60	125 x 60	125 x 60	125 x 60
2 / 1x + 1	2 / 1x + 1	4 / 1x + 1	4 / 1x + 1
515	515	515	515
385	385	385	385
see tables	see tables	see tables	see tables
see tables	see tables	see tables	see tables
see tables	see tables	see tables	see tables
see tables	see tables	see tables	see tables
-	-	-	-
865 / 1420	865 / 1420	865 / 1420	865 / 1420
90	90	90	90
1835	1900 <sup>1)</sup>	1900	1900 <sup>2)</sup>
685	750 <sup>1)</sup>	750	750 <sup>2)</sup>
800	800	800	800
56 / 186 / 1150	56 / 186 / 1150	56 / 186 / 1150	56 / 186 / 1150
750	750	750	750
570	570	570	570
-	-	-	-
20	20	20	20
2329	2422 <sup>1)</sup>	2422	2422 <sup>2)</sup>
1958	2022 <sup>1)</sup>	2022	2022 <sup>2)</sup>
Ast (mm)			
Ast3 (mm)			
2298	2374 <sup>1)</sup>	2374	2374 <sup>2)</sup>
2158	2222 <sup>1)</sup>	2222	2222 <sup>2)</sup>
1458	1572 <sup>1)</sup>	1572	1572 <sup>2)</sup>
6.0 / 6.0	6.0 / 6.0	6.0 / 6.0	6.0 / 6.0
0.15 / 0.30	0.16 / 0.33	0.14 / 0.33	0.15 / 0.32
0.29 / 0.32	0.46 / 0.35	0.45 / 0.35	0.43 / 0.34
8 / 15	8 / 15	8 / 15	8 / 15
Electric	Electric	Electric	Electric
1.0	1.0	1.0	1.0
2.2	2.2	2.2	3.2
24 / 150	24 / 150 - 250 <sup>3)</sup>	24 / 250	24 / 250 - 375 <sup>3)</sup>
151	151 - 212	212	212 - 288
0.46	0.76	0.77	0.77
Stepless	Stepless	Stepless	Stepless
64.8	64.1	64.1	64.1
-	-	-	-
< 2.5	< 2.5	< 2.5	< 2.5



- With the 150 Ah battery this dimension decreases by 64 mm
  - With the 375 Ah battery this dimension increases by 72 mm
  - Forged forks hooked on FEM2A fork carriage
  - In-field adjustable width of wide straddle support legs
  - With the larger batteries several dimensions increase (see notes #1-2)
- Ast = Working aisle width  
 Ast3 = Working aisle width (b12 < 1000mm)  
 $Ast = Wa + \sqrt{(l6 - x)^2 + (b12 / 2)^2} + a$   
 Ast3 =  $Wa + l6 - x + a$   
 Wa = Turning radius  
 l6 = Pallet length (800 or 1000mm)  
 x = Load wheel axle to fork face  
 b12 = Pallet width (1200 mm)  
 a = Safety clearance = 2 x 100mm

Characteristics		
1.1	Manufacturer	
1.2	Manufacturer's model designation	
1.3	Power source	
1.4	Operator type	
1.5	Load capacity	Q (kg)
1.6	Load centre distance	c (mm)
1.8	Load wheel axle to fork face (forks lowered)	x (mm)
1.9	Wheelbase	y (mm)
Weight		
2.1b	Truck weight without load, with maximum battery weight	kg
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side	kg
2.3	Axle loadings without load & with maximum battery weight, drive / load side	kg
Wheels, Drive Train		
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side	
3.2	Tyre dimensions, drive side	(mm)
3.3	Tyre dimensions, load side	(mm)
3.4	Castor wheel dimensions (diameter x width)	(mm)
3.5	Number of wheels, load / drive side (x = driven)	
3.6	Track width (centre of tyres), drive side	b10 (mm)
3.7	Track width (centre of tyres), load side	b11 (mm)
Dimensions		
4.2b	Height	h1 (mm)
4.3	Free lift	h2 (mm)
4.4	Lift height	h3 (mm)
4.5	Height with mast extended	h4 (mm)
4.6	Initial lift	h5 (mm)
4.9	Height of tiller arm / steering console (min/max)	h14 (mm)
4.15	Fork height, fully lowered	h13 (mm)
4.19	Overall length	l1 (mm)
4.20	Length to fork face	l2 (mm)
4.21	Overall width	b1/b2 (mm)
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)
4.24	Fork carriage width	b3 (mm)
4.25	Outside width over forks (minimum / maximum)	b5 (mm)
4.26	Inner width of support legs	b4 (mm)
4.32	Ground clearance at centre of wheelbase, (forks lowered)	m2 (mm)
4.33c	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast (mm)
4.33d	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast3 (mm)
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast (mm)
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3 (mm)
4.34c	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast (mm)
4.34d	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast3 (mm)
4.35	Turning radius	Wa (mm)
Performance		
5.1	Travel speed, with / without load	km / h
5.2	Lifting speed, with / without load	m / s
5.3	Lowering speed, with / without load	m / s
5.7	Gradeability, with / without load	%
5.8	Maximum gradeability with / without load	%
5.9	Acceleration time (10 metres) with / without load	s
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)	
Electric motors		
6.1	Drive motor capacity (60 min. short duty)	kW
6.2	Lift motor output at 15% duty factor	kW
6.3	Battery to DIN	
6.4	Battery voltage/capacity at 5-hour discharge	V / Ah
6.5	Battery weight	kg
6.6a	Energy consumption according to EN16796	kWh / h
Miscellaneous		
8.1	Type of drive control	
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)
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10.7.2	Whole-body vibration (EN 13 059:2002)	
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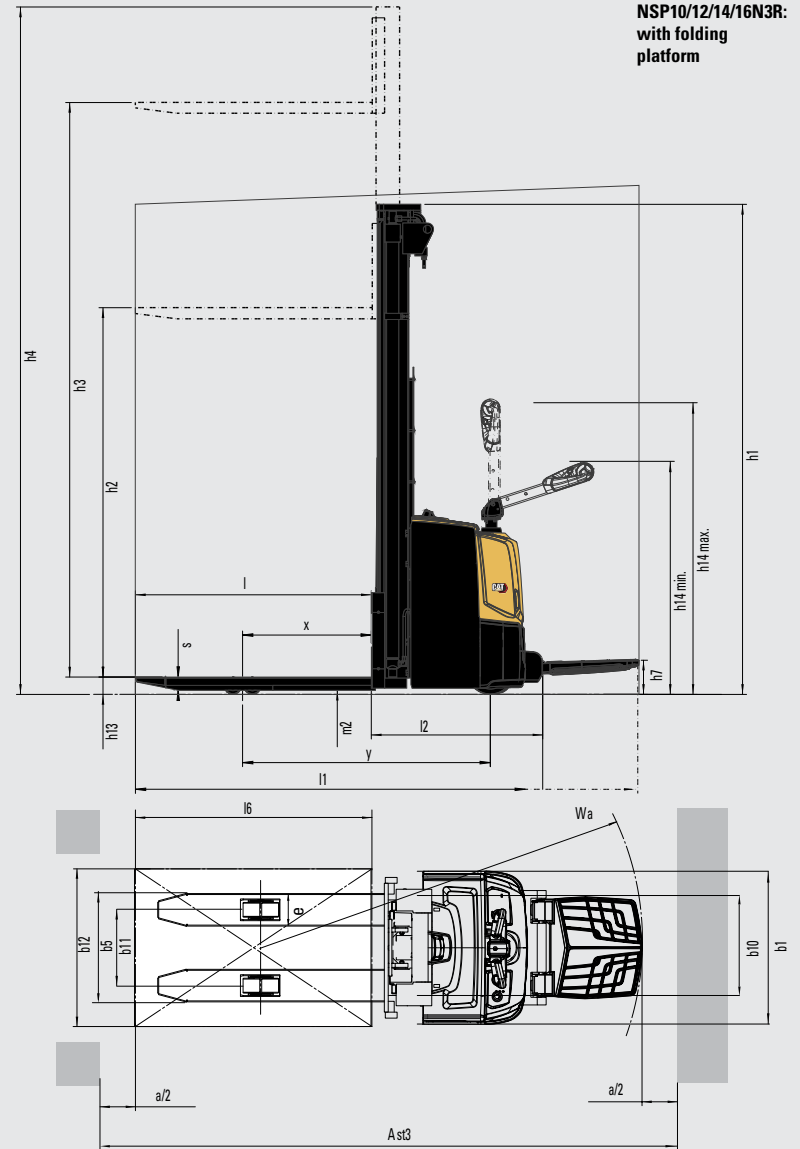
Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks
NSP12N3i	NSP14N3i	NSP16N3i
Battery	Battery	Battery
Pedestrian	Pedestrian	Pedestrian
1200	1400	1600
600	600	600
925	925	925
1610	1610	1610 <sup>2)</sup>
1095	1095	1171
1060 / 1230	1105 / 1390	1205 / 1561
780 / 315	780 / 312	840 / 328
Vul / Vul	Vul / Vul	Vul / Vul
230 x 70	230 x 70	230 x 70
85 x 90	85 x 75	85 x 75
125 x 60	125 x 60	125 x 60
2 / 1x + 1	4 / 1x + 1	4 / 1x + 1
515	515	515
385	385	385
see tables	see tables	see tables
see tables	see tables	see tables
see tables	see tables	see tables
see tables	see tables	see tables
110	110	110
865 / 1420	865 / 1420	865 / 1420
90	90	90
2010	2010	2010 <sup>2)</sup>
855	855	855 <sup>2)</sup>
800	800	800
56 / 186 / 1150	56 / 186 / 1150	56 / 186 / 1150
750	750	750
570	570	570
-	-	-
20	20	20
2653	2653	2653 <sup>2)</sup>
2123	2123	2123 <sup>2)</sup>
Ast	Ast	Ast
Ast3	Ast3	Ast3
2533	2533	2533 <sup>2)</sup>
2323	2323	2323 <sup>2)</sup>
1848	1848	1848 <sup>2)</sup>
6.0 / 6.0	6.0 / 6.0	6.0 / 6.0
0.16 / 0.33	0.14 / 0.33	0.15 / 0.32
0.46 / 0.35	0.45 / 0.35	0.43 / 0.34
8 / 15	8 / 15	8 / 15
Electric	Electric	Electric
1.0	1.0	1.0
2.2	2.2	3.2
24 / 250	24 / 250	24 / 250 - 375 <sup>3)</sup>
212	212	212 - 288
0.76	0.77	0.77
Stepless	Stepless	Stepless
64.1	64.1	64.1
-	-	-
< 2.5	< 2.5	< 2.5



- With the 150 Ah battery this dimension decreases by 64 mm
  - With the 375 Ah battery this dimension increases by 72 mm
  - Forged forks hooked on FEM2A fork carriage
  - In-field adjustable width of wide straddle support legs
  - With the larger batteries several dimensions increase (see notes #1-2)
- Ast = Working aisle width  
 Ast3 = Working aisle width (b12 < 1000mm)  
 Ast =  $Wa + \sqrt{(l6 - x)^2 + (b12 / 2)^2} + a$   
 Ast3 =  $Wa + l6 - x + a$   
 Wa = Turning radius  
 l6 = Pallet length (800 or 1000mm)  
 x = Load wheel axle to fork face  
 b12 = Pallet width (1200 mm)  
 a = Safety clearance = 2 x 100mm

Characteristics		
1.1	Manufacturer	
1.2	Manufacturer's model designation	
1.3	Power source	
1.4	Operator type	
1.5	Load capacity	Q (kg)
1.6	Load centre distance	c (mm)
1.8	Load wheel axle to fork face (forks lowered)	x (mm)
1.9	Wheelbase	y (mm)
Weight		
2.1b	Truck weight without load, with maximum battery weight	kg
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side	kg
2.3	Axle loadings without load & with maximum battery weight, drive / load side	kg
Wheels, Drive Train		
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side	
3.2	Tyre dimensions, drive side	(mm)
3.3	Tyre dimensions, load side	(mm)
3.4	Castor wheel dimensions (diameter x width)	(mm)
3.5	Number of wheels, load / drive side (x = driven)	
3.6	Track width (centre of tyres), drive side	b10 (mm)
3.7	Track width (centre of tyres), load side	b11 (mm)
Dimensions		
4.2b	Height	h1 (mm)
4.3	Free lift	h2 (mm)
4.4	Lift height	h3 (mm)
4.5	Height with mast extended	h4 (mm)
4.8	Seat- or stand height	h7 (mm)
4.9	Height of tiller arm / steering console (min/max)	h14 (mm)
4.15	Fork height, fully lowered	h13 (mm)
4.19	Overall length	l1 (mm)
4.20	Length to fork face	l2 (mm)
4.21	Overall width	b1/b2 (mm)
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)
4.24	Fork carriage width	b3 (mm)
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4.26	Inner width of support legs	b4 (mm)
4.32	Ground clearance at centre of wheelbase, (forks lowered)	m2 (mm)
4.33c	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast (mm)
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4.35	Turning radius	Wa (mm)
Performance		
5.1	Travel speed, with / without load	km / h
5.2	Lifting speed, with / without load	m / s
5.3	Lowering speed, with / without load	m / s
5.7	Gradeability, with / without load	%
5.8	Maximum gradeability with / without load	%
5.9	Acceleration time (10 metres) with / without load	s
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)	
Electric motors		
6.1	Drive motor capacity (60 min. short duty)	kW
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6.3	Battery to DIN	
6.4	Battery voltage/capacity at 5-hour discharge	V / Ah
6.5	Battery weight	kg
6.6a	Energy consumption according to EN16796	kWh / h
Miscellaneous		
8.1	Type of drive control	
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)
10.7.1	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ	dB (A)
10.7.2	Whole-body vibration (EN 13 059:2002)	
10.7.3	Hand-arm vibration (EN 13 059:2002)	

Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks
NSP10N3R	NSP12N3R	NSP14N3R	NSP16N3R
Battery	Battery	Battery	Battery
Pedestrian / Stand-on	Pedestrian / Stand-on	Pedestrian / Stand-on	Pedestrian / Stand-on
1000	1200	1400	1600
600	600	600	600
700	750	750	750
1215	1330 <sup>1)</sup>	1330	1330 <sup>2)</sup>
860	1100	1100	1176
715 / 1155	840 / 1400	860 / 1580	990 / 1795
640 / 220	860 / 320	740 / 295	860 / 320
Vul / Vul	Vul / Vul	Vul / Vul	Vul / Vul
230 x 70	230 x 70	230 x 70	230 x 70
85 x 90	85 x 90	85 x 75	85 x 75
125 x 60	125 x 60	125 x 60	125 x 60
2 / 1x + 1	2 / 1x + 1	4 / 1x + 1	4 / 1x + 1
515	515	515	515
385	385	385	385
see tables	see tables	see tables	see tables
see tables	see tables	see tables	see tables
see tables	see tables	see tables	see tables
see tables	see tables	see tables	see tables
175	175	175	175
1155 / 1550	1155 / 1550	1155 / 1550	1155 / 1550
90	90	90	90
1955 / 2435	2020 / 2500 <sup>1)</sup>	2020 / 2500	2020 / 2500 <sup>2)</sup>
805 / 1285	870 / 1350 <sup>1)</sup>	870 / 1350	870 / 1350 <sup>2)</sup>
800	800	800	800
56 / 186 / 1150	56 / 186 / 1150	56 / 186 / 1150	56 / 186 / 1150
750	750	750	750
570	570	570	570
-	-	-	-
20	20	20	20
2449 / 2929	2542 / 3022 <sup>1)</sup>	2542 / 3022	2542 / 3022 <sup>2)</sup>
2078 / 2558	2142 / 2622 <sup>1)</sup>	2142 / 2622	2142 / 2622 <sup>2)</sup>
Ast	Ast	Ast	Ast
Ast3	Ast3	Ast3	Ast3
Ast	Ast	Ast	Ast
Ast3	Ast3	Ast3	Ast3
2418 / 2898	2494 / 2974 <sup>1)</sup>	2494 / 2974	2494 / 2974 <sup>2)</sup>
2278 / 2758	2342 / 2822 <sup>1)</sup>	2342 / 2822	2342 / 2822 <sup>2)</sup>
1578 / 2058	1692 / 2172 <sup>1)</sup>	1692 / 2172	1692 / 2172 <sup>2)</sup>
6.0 / 6.0	6.0 / 6.0	6.0 / 6.0	6.0 / 6.0
0.15 / 0.30	0.16 / 0.33	0.14 / 0.33	0.15 / 0.32
0.29 / 0.32	0.46 / 0.35	0.45 / 0.35	0.43 / 0.34
8 / 15	8 / 15	8 / 15	8 / 15
Electric	Electric	Electric	Electric
1.0	1.0	1.0	1.0
2.2	2.2	2.2	3.2
24 / 150	24 / 150 - 250 <sup>3)</sup>	24 / 250	24 / 250 - 375 <sup>3)</sup>
151	151 - 212	212	212 - 288
0.75	0.77	0.78	0.78
Stepless	Stepless	Stepless	Stepless
64.6	64.0	64.0	64.0
0.8	0.8	0.8	0.8
< 2.5	< 2.5	< 2.5	< 2.5

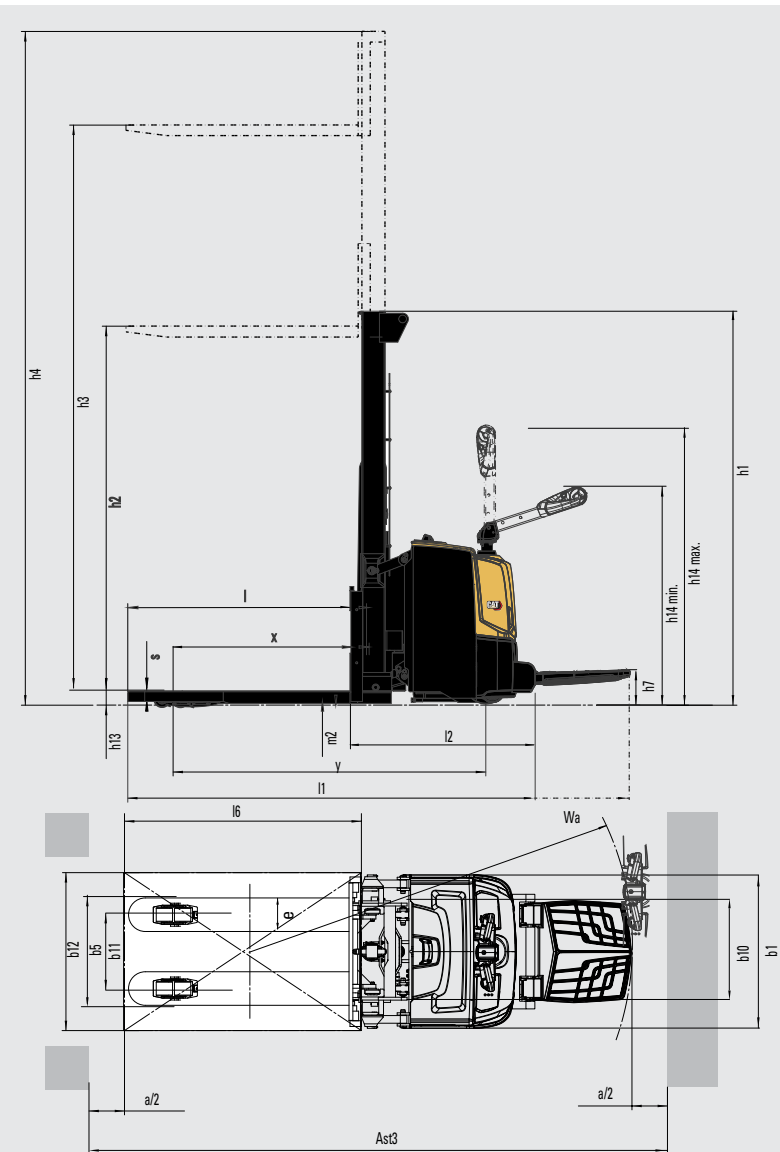


- With the 150 Ah battery this dimension decreases by 64 mm
  - With the 375 Ah battery this dimension increases by 72 mm
  - Forged forks hooked on FEM2A fork carriage
  - In-field adjustable width of wide straddle support legs
  - With the larger batteries several dimensions increase (see notes #1-2)
- Ast = Working aisle width  
 Ast3 = Working aisle width (b12 < 1000mm)  
 Ast =  $Wa + \sqrt{(l6 - x)^2 + (b12 / 2)^2} + a$   
 Ast3 =  $Wa + l6 - x + a$   
 Wa = Turning radius  
 l6 = Pallet length (800 or 1000mm)  
 x = Load wheel axle to fork face  
 b12 = Pallet width (1200 mm)  
 a = Safety clearance = 2 x 100mm

NSP10/12/14/16N3R:  
with folding  
platform

Characteristics		
1.1	Manufacturer	
1.2	Manufacturer's model designation	
1.3	Power source	
1.4	Operator type	
1.5	Load capacity	Q (kg)
1.6	Load centre distance	c (mm)
1.8	Load wheel axle to fork face (forks lowered)	x (mm)
1.9	Wheelbase	y (mm)
Weight		
2.1b	Truck weight without load, with maximum battery weight	kg
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side	kg
2.3	Axle loadings without load & with maximum battery weight, drive / load side	kg
Wheels, Drive Train		
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side	
3.2	Tyre dimensions, drive side	(mm)
3.3	Tyre dimensions, load side	(mm)
3.4	Castor wheel dimensions (diameter x width)	(mm)
3.5	Number of wheels, load / drive side (x = driven)	
3.6	Track width (centre of tyres), drive side	b10 (mm)
3.7	Track width (centre of tyres), load side	b11 (mm)
Dimensions		
4.2b	Height	h1 (mm)
4.3	Free lift	h2 (mm)
4.4	Lift height	h3 (mm)
4.5	Height with mast extended	h4 (mm)
4.6	Initial lift	h5 (mm)
4.8	Seat- or stand height	h7 (mm)
4.9	Height of tiller arm / steering console (min/max)	h14 (mm)
4.15	Fork height, fully lowered	h13 (mm)
4.19	Overall length	l1 (mm)
4.20	Length to fork face	l2 (mm)
4.21	Overall width	b1/b2 (mm)
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)
4.24	Fork carriage width	b3 (mm)
4.25	Outside width over forks (minimum / maximum)	b5 (mm)
4.26	Inner width of support legs	b4 (mm)
4.32	Ground clearance at centre of wheelbase, (forks lowered)	m2 (mm)
4.33c	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast (mm)
4.33d	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast3 (mm)
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast (mm)
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3 (mm)
4.34c	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast (mm)
4.34d	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast3 (mm)
4.35	Turning radius	Wa (mm)
Performance		
5.1	Travel speed, with / without load	km / h
5.2	Lifting speed, with / without load	m / s
5.3	Lowering speed, with / without load	m / s
5.7	Gradeability, with / without load	%
5.8	Maximum gradeability with / without load	%
5.9	Acceleration time (10 metres) with / without load	s
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)	
Electric motors		
6.1	Drive motor capacity (60 min. short duty)	kW
6.2	Lift motor output at 15% duty factor	kW
6.3	Battery to DIN	
6.4	Battery voltage/capacity at 5-hour discharge	V / Ah
6.5	Battery weight	kg
6.6a	Energy consumption according to EN16796	kWh / h
Miscellaneous		
8.1	Type of drive control	
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)
10.7.1	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ	dB (A)
10.7.2	Whole-body vibration (EN 13 059:2002)	
10.7.3	Hand-arm vibration (EN 13 059:2002)	

Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks
NSP12N3IR	NSP14N3IR	NSP16N3IR
Battery	Battery	Battery
Pedestrian / Stand-on	Pedestrian / Stand-on	Pedestrian / Stand-on
1200	1400	1600
600	600	600
925	925	925
1610	1610	1610 <sup>2)</sup>
1175	1175	1251
1030 / 1350	1115 / 1460	1263 / 1588
840 / 335	840 / 335	903 / 348
Vul / Vul	Vul / Vul	Vul / Vul
230 x 70	230 x 70	230 x 70
85 x 90	85 x 75	85 x 75
125 x 60	125 x 60	125 x 60
2 / 1x + 1	4 / 1x + 1	4 / 1x + 1
515	515	515
385	385	385
see tables	see tables	see tables
see tables	see tables	see tables
see tables	see tables	see tables
see tables	see tables	see tables
110	110	110
175	175	175
1155 / 1550	1155 / 1550	1155 / 1550
90	90	90
2125 / 2605	2125 / 2605	2125 / 2605 <sup>2)</sup>
975 / 1455	975 / 1455	975 / 1455 <sup>2)</sup>
800	800	800
56 / 186 / 1150	56 / 186 / 1150	56 / 186 / 1150
750	750	750
570	570	570
-	-	-
20	20	20
2777 / 3257	2777 / 3257	2777 / 3257 <sup>2)</sup>
2247 / 2727	2247 / 2727	2247 / 2727 <sup>2)</sup>
2657 / 3137	2657 / 3137	2657 / 3137 <sup>2)</sup>
2447 / 2927	2447 / 2927	2447 / 2927 <sup>2)</sup>
1972 / 2452	1972 / 2452	1972 / 2452 <sup>2)</sup>
6.0 / 6.0	6.0 / 6.0	6.0 / 6.0
0.16 / 0.33	0.14 / 0.33	0.15 / 0.32
0.46 / 0.35	0.45 / 0.35	0.43 / 0.34
8 / 15	8 / 15	8 / 15
Electric	Electric	Electric
1.0	1.0	1.0
2.2	2.2	3.2
24 / 250	24 / 250	24 / 250 - 375 <sup>3)</sup>
212	212	212 - 288
0.77	0.78	0.78
Stepless	Stepless	Stepless
64.0	64.0	64.0
0.8	0.8	0.8
< 2.5	< 2.5	< 2.5



**NSP12/14/16N3IR:**  
**with folding**  
**platform**

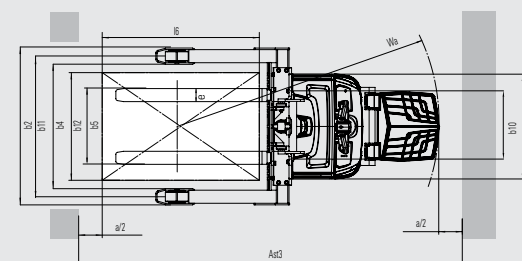
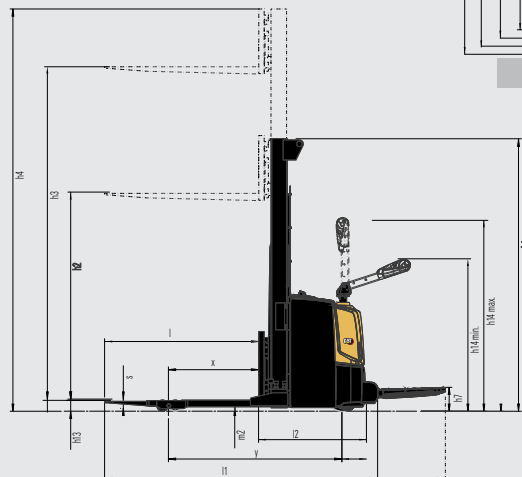
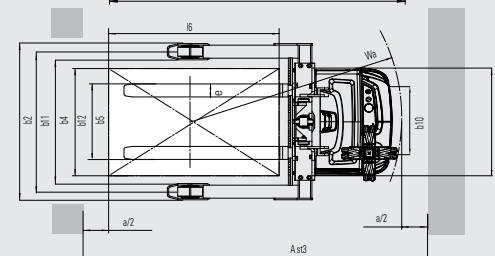
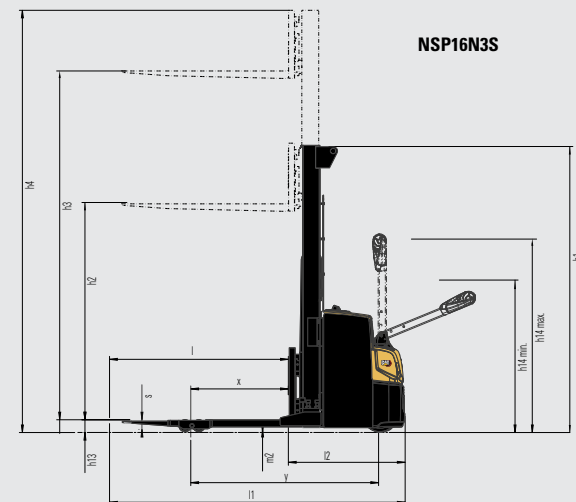
- With the 150 Ah battery this dimension decreases by 64 mm
  - With the 375 Ah battery this dimension increases by 72 mm
  - Forged forks hooked on FEM2A fork carriage
  - In-field adjustable width of wide straddle support legs
  - With the larger batteries several dimensions increase (see notes #1-2)
- Ast = Working aisle width  
 Ast3 = Working aisle width (b12 < 1000mm)  
 $Ast = Wa + \sqrt{(l6 - x)^2 + (b12 / 2)^2} + a$   
 Ast3 =  $Wa + l6 - x + a$   
 Wa = Turning radius  
 l6 = Pallet length (800 or 1000mm)  
 x = Load wheel axle to fork face  
 b12 = Pallet width (1200 mm)  
 a = Safety clearance = 2 x 100mm



Characteristics			Cat Lift Trucks	Cat Lift Trucks
			<b>NSP16N3S</b>	<b>NSP16N3SR</b>
1.1	Manufacturer		Battery	Battery
1.2	Manufacturer's model designation		Pedestrian	Pedestrian / Stand-on
1.3	Power source			
1.4	Operator type			
1.5	Load capacity	Q (kg)	1600	1600
1.6	Load centre distance	c (mm)	600	600
1.8	Load wheel axle to fork face (forks lowered)	x (mm)	750	750
1.9	Wheelbase	y (mm)	1395 <sup>2)</sup>	1395 <sup>2)</sup>
Weight				
2.1b	Truck weight without load, with maximum battery weight	kg	1364	1516
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side	kg	1106 / 1885	1246 / 1880
2.3	Axle loadings without load & with maximum battery weight, drive / load side	kg	953 / 411	1081 / 435
Wheels, Drive Train				
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side		Vul / Vul	Vul / Vul
3.2	Tyre dimensions, drive side	(mm)	230 x 70	230 x 70
3.3	Tyre dimensions, load side	(mm)	85 x 75	85 x 75
3.4	Castor wheel dimensions (diameter x width)	(mm)	125 x 60	125 x 60
3.5	Number of wheels, load / drive side (x = driven)		4 / 1x + 1	4 / 1x + 1
3.6	Track width (centre of tyres), drive side	b10 (mm)	515	515
3.7	Track width (centre of tyres), load side	b11 (mm)	1025-1425	1025-1425
Dimensions				
4.2b	Height	h1 (mm)	see tables	see tables
4.3	Free lift	h2 (mm)	see tables	see tables
4.4	Lift height	h3 (mm)	see tables	see tables
4.5	Height with mast extended	h4 (mm)	see tables	see tables
4.6	Initial lift	h5 (mm)	-	-
4.8	Seat- or stand height	h7 (mm)	-	175
4.9	Height of tiller arm / steering console (min/max)	h14 (mm)	865 / 1420	1155 / 1550
4.10	Height of support legs	h8 (mm)	84	84
4.15	Fork height, fully lowered	h13 (mm)	85	85
4.19	Overall length	l1 (mm)	1965 <sup>2)</sup>	2085 / 2565 <sup>2)</sup>
4.20	Length to fork face	l2 (mm)	815 <sup>2)</sup>	935 / 1415 <sup>2)</sup>
4.21	Overall width	b1/b2 (mm)	800 / 1150 - 1550 <sup>4)</sup>	800 / 1150 - 1550 <sup>4)</sup>
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)	40 / 100 / 1150 <sup>3)</sup>	40 / 100 / 1150 <sup>3)</sup>
4.24	Fork carriage width	b3 (mm)	980	980
4.25	Outside width over forks (minimum / maximum)	b5 (mm)	260-900 <sup>3)</sup>	260-900 <sup>3)</sup>
4.26	Inner width of support legs	b4 (mm)	900-1300 <sup>4)</sup>	900-1300 <sup>4)</sup>
4.32	Ground clearance at centre of wheelbase, (forks lowered)	m2 (mm)	20	20
4.33c	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast (mm)	2487 <sup>2)</sup>	2607 / 3087 <sup>2)</sup>
4.33d	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast3 (mm)	2087 <sup>2)</sup>	2207 / 2687 <sup>2)</sup>
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast (mm)		
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3 (mm)		
4.34c	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast (mm)	2439 <sup>2)</sup>	2559 / 3039 <sup>2)</sup>
4.34d	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast3 (mm)	2287 <sup>2)</sup>	2407 / 2887 <sup>2)</sup>
4.35	Turning radius	Wa (mm)	1637 <sup>2)</sup>	1757 / 2237 <sup>2)</sup>
Performance				
5.1	Travel speed, with / without load	km / h	6.0 / 6.0	6.0 / 6.0
5.2	Lifting speed, with / without load	m / s	0.15 / 0.32	0.15 / 0.32
5.3	Lowering speed, with / without load	m / s	0.43 / 0.34	0.43 / 0.34
5.7	Gradeability, with / without load	%		
5.8	Maximum gradeability with / without load	%	8 / 15	8 / 15
5.9	Acceleration time (10 metres) with / without load	s		
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)		Electric	Electric
Electric motors				
6.1	Drive motor capacity (60 min. short duty)	kW	1.0	1.0
6.2	Lift motor output at 15% duty factor	kW	3.2	3.2
6.3	Battery to DIN			
6.4	Battery voltage/capacity at 5-hour discharge	V / Ah	24 / 250 - 375 <sup>5)</sup>	24 / 250 - 375 <sup>5)</sup>
6.5	Battery weight	kg	212 - 288	212 - 288
6.6a	Energy consumption according to EN16796	kWh / h	0.77	0.78
Miscellaneous				
8.1	Type of drive control		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)	64.1	65.1
10.7.1	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871, drive/lift/idle LpAZ	dB (A)		
10.7.2	Whole-body vibration (EN 13 059:2002)		-	0.8
10.7.3	Hand-arm vibration (EN 13 059:2002)		< 2.5	< 2.5

- Ast = Working aisle width  
 Ast3 = Working aisle width (b12 < 1000mm)  
 Ast =  $Wa + \sqrt{(l6 - x)^2 + (b12 / 2)^2} + a$   
 Ast3 =  $Wa + l6 - x + a$   
 Wa = Turning radius  
 l6 = Pallet length (800 or 1000mm)  
 x = Load wheel axle to fork face  
 b12 = Pallet width (1200 mm)  
 a = Safety clearance = 2 x 100mm

- With the 150 Ah battery this dimension decreases by 64 mm
- With the 375 Ah battery this dimension increases by 72 mm
- Forged forks hooked on FEM2A fork carriage
- In-field adjustable width of wide straddle support legs
- With the larger batteries several dimensions increase (see notes #1-2)



**NSP16N3SR:**  
with folding platform

NSP10N3/10N3R				
Mast Type	h3+h13	h1	h4	h2+h13
	mm	mm	mm	mm
S	1500	1980	1980	1500
D	2500	1775	3000	195
	2900	1975	3400	195
	3300	2175	3800	195

NSP12/14/16N3 / NSP12/14 /16N3R				
Mast Type	h3+h13	h1	h4	h2+h13
	mm	mm	mm	mm
S	1500	1950	1950	1500
DS	2500	1835	3000	200
	2900	2035	3400	200
	3300	2235	3800	200
	3600	2385	4100	200
	4300	2735	4800	200
DEV	2500	1775	2940	1355
	2900	1975	3340	1555
	3300	2235	3800	1755
	3600	2385	4100	1905
	3700	2435	4200	1955
	4300	2735	4800	2255
TR	4100	1955	4640	-
	4300	2020	4840	-
	4700	2153	5240	-
	5400*	2385	5940	-
TREV	4100	1955	4640	1475
	4300	2020	4840	1540
	4700	2153	5240	1673
	5400*	2385	5940	1905

NSP12/14/16N3I / NSP12/14/16N3IR				
Mast Type	h3+h13	h1	h4	h2+h13
	mm	mm	mm	mm
S	1500	2055	2055	1505
DS	2500	1940	3105	200
	2900	2140	3505	200
	3300	2340	3905	200
	3600	2490	4205	200
	4300	2840	4905	200
	2500	1940	3105	1360
DEV	2900	2140	3505	1560
	3300	2340	3905	1760
	3600	2490	4205	1910
	3700	2540	4305	1960
	4300	2840	4905	2260
TR	4100	2060	4745	-
	4300	2125	4945	-
	4700	2260	5345	-
	5400*	2490	6045	-
	4100	2060	4745	1480
TREV	4300	2125	4945	1545
	4700	2260	5345	1673
	5400*	2490	6045	1910

NSP16N3S / NSP16N3SR				
Mast Type	h3+h13	h1	h4	h2+h13
	mm	mm	mm	mm
S	1500	2030	2030	1500
DS	2500	1915	3080	195
	2900	2115	3480	195
	3300	2315	3880	195
	3600	2465	4180	195
	4300	2815	4880	195
DEV	2500	1915	3080	1355
	2900	2115	3480	1555
	3300	2315	3880	1755
	3600	2465	4180	1905
	3700	2515	4280	1955
	4300	2815	4880	2255
TR	4100	2035	4720	-
	4300	2100	4920	-
	4700	2233	5320	-
	5400	2465	6020	-
TREV	4100	2035	4720	1475
	4300	2100	4920	1540
	4700	2233	5320	1753
	5400	2465	6020	1905

## Mast Performance and Capacity

- \* = only NSP14-16N3R & NSP14-16N3(I)R
- S = Simplex
- D = Duplex without free lift (middle cylinder)
- DS = Duplex without free lift (side cylinders)
- DEV = Duplex mast with free lift
- TR = Triplex without free lift
- TREV = Triplex mast with free lift
- h3+h13 = Lifting height
- h1 = Lowered mast height
- h4 = Raised mast height
- h2+h13 = Free lift



# LI-ION BATTERIES

## TIME TO SWITCH?



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.



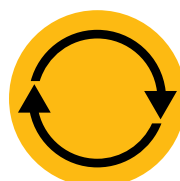
**LONGER  
LIFE**



**HIGHER  
EFFICIENCY**



**LONGER  
RUNTIME**



**CONSISTENT  
PERFORMANCE**



**FASTER  
CHARGING**



**NO BATTERY  
CHANGING**



**NO DAILY  
MAINTENANCE**



**INBUILT  
PROTECTION**

### 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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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.



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