

NSP12N3 NSP16N3 NSP12N3R NSP16N3S NSP16N3SR

SPECIFICATIONS PEDESTRIAN AND FOLDING PLATFORM STACKER TRUCKS 24V, 1.2 - 1.6 TONS



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 VIRTUALLY 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 minimized 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, help to ensure a satisfying user experience. Height-adjustable castor wheels and high-strength masts help to maximize stability. Models with a small fold-down platform are available at 1.2 and 1.6 ton capacities to take the legwork out of longer distances.

BUL

LOWER COST OF OWNERSHIP

- Latest AC technology keeps energy consumption and maintenance costs in control.
- Sturdy chassis construction and endurance-tested forks provide enhanced robustness and reliability even in some of 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 even more.
- Integrated drive and lift system features fewer components than previous models, reducing scope of maintenance.
- Closed compartment with steel cover protects battery against impact, helping to prolong battery life.
- Standard battery size allows interchangeability with other brands.

UNMATCHED PRODUCTIVITY

- AC motor allows for precise drive control, helping to improve maneuverability.
- Standard LCD display offers clear information on truck and battery condition.
- Ergonomic tiller arm helps keep operators fresh with comfortable, easy-to-use controls.
- Excellent drive and traction characteristics suit intensive work over short and medium distances.
- Distance of the fork support wheels from the rear frame has been optimized for increased stability.
- Advanced programmable controller lets users prioritize between faster performance and smoother handling with lower energy consumption, prolonging shift life.
- Tapered 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 in ultra-lowspeed 'tortoise' mode to maximize maneuverability in tight spaces.
- Narrower truck body makes handling operations in confined areas much easier.
- 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 get back on.
- NSP16N3 and N3R models fitted with the optional side stabilizers achieve greater lifting capacity at height.
- N3S straddle models allow wider loads and bottom-boarded pallets to be handled with ease.

ERGONOMICS

- Latest tiller arm design provides comfortable operating position.
- Large lift and lower levers allow for easy, one-handed control, even with gloves.
- High-strength masts help reduce load movement to a minimum.
- Slim mast profiles and hydraulic hose arrangements make for excellent forward visibility.
- Super-quiet oil-filled transmission helps keep noise levels low.
- Height-adjustable castor wheel helps to eliminate play and helps to raise load stability.

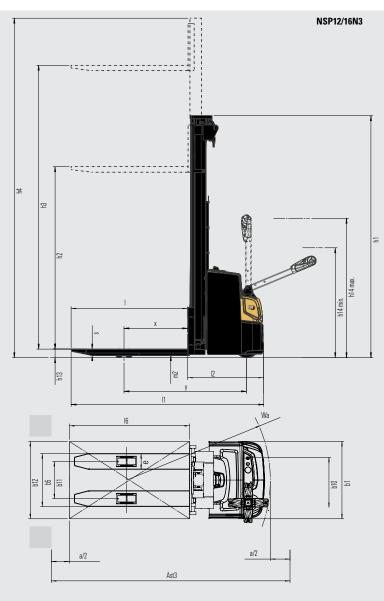


STANDARD EQUIPMENT AND OPTIONS

	NSP12N3	NSP16N3	NSP12N3R	NSP16N3S	NSP16N3SR
GENERAL					
LED discharge indicator, no hour meter	•		•	•	•
PIN code login 4 codes	0	0	0	0	0
Electric on/off valve for lifting and lowering, controlled by rocker switch on tiller head	•	•	•	•	•
Polyurethane drive wheel	•	•	•	•	•
Single load wheels polyurethane	•	-	-	-	-
Tandem load wheels polyurethane	0	•	•	•	•
Adjustable width between straddle load legs; 900mm - 1300mm	_	-	_	•	•
Sideways battery change (250Ah battery only)	0	0	0	0	0
ENVIRONMENT					
Cold store design, 0°C to -35°C	0	0	0	0	0
DRIVE AND LIFT CONTROLS					
Tiller up drive	•	•	•	•	•
WHEEL OPTIONS					
Polyurethane traction and load wheels	•	•	•	•	•
Power friction traction wheel	0	0	0	0	0
OTHER OPTIONS					
Speed reduction 0,5km/h above 1000mm lift, duplex and triplex masts without free lift	0	0	0	0	0
Speed reduction 0,5km/h above free lift, duplex and triplex masts with free lift	0	0	0	0	0
Side Stabilizers	-	0	-	-	-
Built-in charger, 30A	0	0	0	0	_
Key switch	•	•	•	•	•
Special RAL color	0	0	0	0	0
Load backrest	0	0	0	0	0
Accessory rack	0	0	0	0	0
List bracket, A4 size	0	0	0	0	0

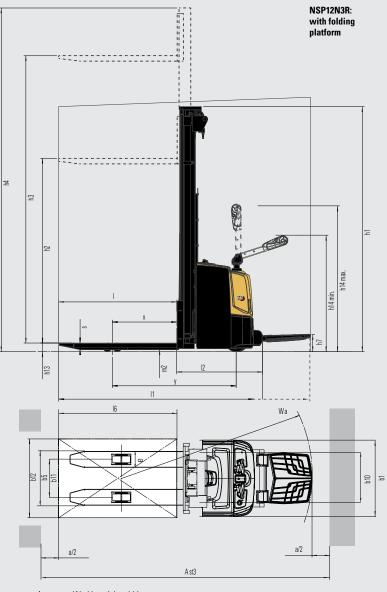
	Characteristics				
1.1	Manufacturer			Cat Lift Trucks	Cat Lift Trucks
1.2	Manufacturer's model designation			NSP12N3	NSP16N3
1.3	Power source			Battery	Battery
1.4	Operator type			Pedestrian	Pedestrian
1.5	Load capacity	Q	(kg)	1200	1600
1.6	Load center distance	С	(mm)	600	600
1.8	Load wheel axle to fork face (forks lowered)	х	(mm)	750	750
1.9	Wheelbase	у	(mm)	1330	1330
	Weight				
2.1b	Truck weight without load, with maximum battery weight		kg	1020	1020
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	810 / 1410	870 / 1755
2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg	730 / 295	730 / 295
	Wheels, Drive Train				
3.1	Tires: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			Vul / Vul	Vul / Vul
3.2	Tire dimensions, drive side		(mm)	230 x 70	230 x 70
3.3	Tire dimensions, load side		(mm)	85 x 90	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)			1 + 1x / 2	1 + 1x / 4
3.6	Track width (center of tires), drive side	b10	(mm)	515	515
3.7	Track width (center of tires), load side	b11	(mm)	385	385
	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
4.9	Height of tiller arm / steering console (min/max)	h14	(mm)	865 / 1420	865 / 1420
4.15	Fork height, fully lowered	h13	(mm)	90	90
4.19	Overall length	1	(mm)	1900 ⁹	1900
4.20	Length to fork face	12	(mm)	750 ⁹	750
4.21	Overall width	b1/b2	(mm)	800	800
4.22	Fork dimensions (thickness, width, length)	s/e/l	(mm)	56 / 186 / 1150	56 / 186 / 1150
4.24	Fork carriage width	b3	(mm)	750	750
4.25	Outside width over forks (minimum / maximum)	b5	(mm)	570	570
4.32	Ground clearance at center 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)	2445	2445
4.34c	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast	(mm)	2374	2374
4.35	Turning radius	Wa	(mm)	1572	1572
	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	0.16 / 0.33	0.15 / 0.32
5.3	Lowering speed, with / without load		m/s	0.46 / 0.35	0.48 / 0.34
5.8	Maximum gradeability with / without load		%	8 / 15	8 / 15
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)				
	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	2.2	3.2
6.4	Battery voltage/capacity at 5-hour discharge		V / Ah	24 / 250	24 / 250 - 375
6.5	Battery weight		kg	210	210
6.6a	Energy consumption according to EN16796	k	Wh/h	0.76	0.77
	Miscellaneous				
8.1	Type of drive control			Electric	Electric
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	
10.7.3	Hand-arm vibration (EN 13 059:2002)			< 2.5	< 2.5

9) -64mm with 150 Ah battery



- Ast = Working aisle width
- Ast3 = Working aisle width (b12 <1000mm)
- Ast = Wa + $\sqrt{(16 x)^2 + (b12/2)^2}$ + a
- Ast3 = Wa + I6 x + a
- Wa = Turning radius
- I6 = Pallet length (800 or 1000mm)
- x = Load wheel axle to fork face
- b12 = Pallet width (1200 mm)
- a = minimum recommended passing clearance = 2 x 100mm

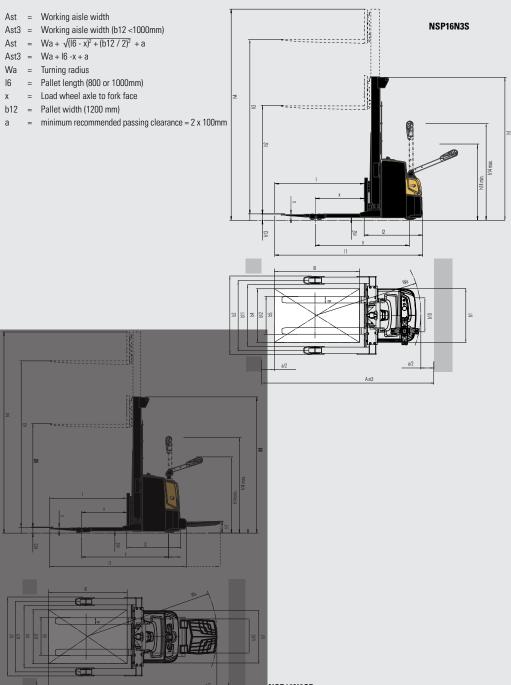
1.1 Manufacturer's model designation Intracks Cat Lift Tracks 1.2 Manufacturer's model designation Intracks Representation Intracks 1.4 Operator type Intracks Representation Intracks 1.5 Lead capacity Intracks Intracks Representation 1.6 Lead capacity Intracks Intracks Representation Intracks 1.6 Lead carter distance Intracks Intracks Intracks Representation Intracks 1.6 Lead cadenias with nominal lead & maximum battery weight, drive / lead side Intracks Intracks Representation		Characteristics			
12 Manufacturer's model designation INTEXASK 13 Power source INTEXASK 14 Operator type INTEXASK 15 Load capacity INTEXASK 16 Load capacity INTEXASK 17 Name base c 18 Load value of distance c 19 Wheelbase y 19 Wheelbase y 10 Took weight without load, with maximum battery weight, drive / load side is 21 Took weight without load & maximum battery weight, drive / load side is 23 Adle loadings without load & maximum battery weight, drive / load side is 24 Tack weight without load & with maximum battery weight, drive / load side is 25 Track weight enterr of risse, load drive side (x driven) is 26 Track weight enterr of risse, load drive side (x driven) is 37 Todk weight enterr of risse, load side is 38 Track weight enterr of risse, load side is 39 Todk weight enterr of risse, load side is 30 Todk weight enterr of risse, load side is 30 Todk weight enterr of risse, load side is 30 Track widh fearter of risse, load side <	1.1				Cat Lift Trucks
13 Power source Battery 14 Operator type 0 (kg) 15 Load center distance c (mm) 750 16 Load center distance c (mm) 750 17 Wheebase y (mm) 750 18 Load wheel alse to firk face (forks lowered) y (mm) 730 19 Wheebase y (mm) 730 10 Truck wight without load, with maximum battery weight, drive / load side kg 840 / 1400 23 Ade loadings with nominal load & maximum battery weight, drive / load side kg 860 / 320 Wheelb., Drive Train Tres (firensions, drive side kg 1100 880 / 320 33 Tree dimensions, drive side c (mm) 855 x 90 11 + 1 × / 2 34 Castor wheel dimensions (drive side (k = driven) - 11 + 1 × / 2 11 + 1 × / 2 35 Track width (center of tires), ioad side b10 (mm) 385 365 36 free lift hd		Manufacturer's model designation			
1.4 Operator type Pedestriar / Stand on 1.5 Load capacity 0 (kg) Pedestriar / Stand on 1.6 Load capacity c (mm) 1200 1.8 Load other / face (forks lowered) x (mm) 750 1.9 Wheelbase y (mm) 750 2.10 Track weight without load, with maximum battery weight, drive / load side kg 880 / 200 2.3 Ake loadings without load & with maximum battery weight, drive / load side kg 880 / 200 2.3 Ake loadings without load & with maximum battery weight, drive / load side (mm) 880 / 200 2.10 Track wight keinton load & maximum battery weight, drive / load side (mm) 880 / 200 2.3 Track drive load drive side (mm) 856 / 800 200 / 700 3.1 Track medianter / krastide (mm) 125 kg 800 / 200 3.1 Track width center of trines, load side (mm) 125 kg 800 / 200 3.1 Track width center of trines, load side 1100 (mm) 856 rabies	1.3	Power source			Battery
Instrument C <thc< td=""><td>1.4</td><td></td><td></td><td></td><td>Pedestrian / Stand-on</td></thc<>	1.4				Pedestrian / Stand-on
1.6 Load center distance c mm1 600 1.8 Load wheel axie to firk face (forks lowered) x mm1 750 1.9 Wheelbase y (mm1) 750 1.0 Mick weight without load & maximum battery weight, drive / load side kg 840 1100 2.3 Ake loadings with nominal load & maximum battery weight, drive / load side kg 880 720 2.4 Ake loadings with nominal load & maximum battery weight, drive / load side (mm1) 880 720 2.3 Ake loadings with nominal load & maximum battery weight, drive / load side (mm1) 880 720 2.1 Tires dimensions, drive side (mm1) 855 \$90 730 3.1 Tires dimensions (diameter x with) (mm1) 155 515 515 3.5 Track widh (center of trines), load side b10 (mm1) \$90 \$90 4.2 Height h11 (mm1) \$90 \$90 \$90 4.3 Free lift h14 (mm1) \$90 \$90 \$90 4.4 Height with mast extended h	1.5	Load capacity	Q	(kg)	1200
19 Wheelbase y (mm) 1330 Wright 1100 22 Ade loadings with nominal load & maximum battery weight, drive / load side kg 840 / 1400 23 Ade loadings with nominal load & maximum battery weight, drive / load side kg 860 / 320 23 Ade loadings with nominal load & maximum battery weight, drive / load side kg 860 / 320 23 Tree dimensions, drive side (mm) 860 / 320 24 Tree dimensions, drive side (mm) 230 x70 35 Track with (center of tires), load side (mm) 11 + x / 2 36 Track with (center of tires), load side b10 (mm) 515 37 Track with (center of tires), load side b11 (mm) 385 38 Free lift h2 (mm) 36 41 Lift height h1 (mm) see tables 42 Height of tiller am / steering console (min/max) h14 (mm) 1155 / 1550 43 Fee lift h2 (mm) see tables 44 Lift height h1 (mm) 1220 / 2500 45 Height of tiller am / steering console (min/max) h14 (mm) 115 / 1550 45 Height of tiller am / steering console (min/max) h14 (mm) 120 / 2500 40<	1.6		С	(mm)	600
Weight Note 2.1b Tuck weight without load, with maximum battery weight, drive / load side kg 80 1100 2.3 Axle loadings without load & with maximum battery weight, drive / load side kg 80 720 2.3 Axle loadings without load & with maximum battery weight, drive / load side kg 800 / 1400 2.3 Tire dimensions, drive side (mm) 230 x 70 3.1 Tire dimensions, drive side (mm) 252 x 80 3.4 Castor wheel dimensions (dimeter x width) (mm) 252 x 80 3.5 Number of wheels, load / drive side e drive) 11 + 1 x / 2 3.6 Tack width (center of tires), frive side b10 (mm) 55 3.6 Track width (center of tires), frive side 12 (mm) see tables 4.2 Height h1 (mm) see tables 4.3 Free lift h14 (mm) see tables 4.4 Height with mast extended h3 (mm) see tables 4.15 Fok height, fully lowered h3	1.8	Load wheel axle to fork face (forks lowered)	х	(mm)	750
2.1b Truck weight without load, with maximum battery weight. drive / load side kg 980 2.2 Ade loadings with nominal load & maximum battery weight, drive / load side kg 980 3. Ade loadings without load & maximum battery weight, drive / load side kg 980 3. Mate loadings without load & maximum battery weight, drive / load side (mm) 920 3. Tre dimensions, drive side (mm) 85.8.90 3.1 Tre dimensions, drive side (mm) 85.8.90 3.3 Tre dimensions (diameter x width) (mm) 125 x 60 3.4 Castor wheel dimensions (diameter x width) (mm) 125 x 60 3.6 Track width (center of tries), load side b10 (mm) 3.6 Track width (center of tries), load side b10 (mm) 3.7 Track width (center of tries), load side b10 (mm) 4.2 Height of Uller am / Steering console (min/max) h14 (mm) see tables 4.4 Lift height h13 (mm) see tables 4.5 Height of tofk face I mon see tables 4.6 Height of tofk face I (mn) See tables 4.7 Lift height h14 (mm) See tables 5	1.9	Wheelbase	у	(mm)	1330
2.2 Axle loadings with nominal load & maximum battery weight, drive / load side kg 2.3 Axle loadings with nominal load & with maximum battery weight, drive / load side kg 3.1 Tires: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side Wul / Vul 2.3 Tire dimensions, drive side mmm 200 x70 3.1 Tire dimensions, drive side mmm 200 x70 3.5 Number of wheels, load / drive side (x = driven) mmm 11 + 1x / 2 3.6 Track width (centre of tries, load / drive side (x = driven) b10 mm 3.6 Track width (centre of tries, load / drive side (x = driven) b10 mm 3.7 Track width (centre of tries, load side b10 mm 3.8 Tries (Tire dimensions, drive side) b10 mm 3.4 Eright h1 mm see tables 3.7 Track width (centre of tries, load side b10 mm 3.7 Track width (centre of tries, load side b10 mm 3.8 Free lift h2 fmm see tables 3.4 Lift height h1 fmm see tables 3.4 Hight with mast extended h4 mm see tables 4.9 H		Weight			
2.3 Axle loadings without load & with maximum battery weight, drive / load side ig 860 / 320 Wheels, Drive Train Will / Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side (mm) 3.1 Tires drive navisons, drive side m(mm) 230 x 70 3.3 Tire dimensions, drive side m(mm) 125 x 80 3.4 Castor wheeld finensions (diameter x width) m(mm) 155 fs 3.5 Number of wheels, load / drive side b10 m(m) 55 fs 3.6 Track width (center of tires), load side b10 m(m) 38 fs 4.7 Height h1 m(m) see tables 4.8 Height not stearing console (min/max) h14 m(m) see tables 4.9 Height not fuller arm / steering console (min/max) h13 m(m) see tables 4.11 Height not fuller arm / steering console (min/max) h14 m(m) see tables 4.12 Length to fark face 12 (mm) 800 2200 4.22 Height not fuller arm / steering console (min/max) h14 m(m) 800 4.23	2.1b	Truck weight without load, with maximum battery weight		kg	1100
Wheels, Drive Train Vul / Vul 3.1 Tires; PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nyton, R = Rubber drive / load side (rmm) 3.1 Tires; PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nyton, R = Rubber drive / load side (rmm) 3.3 Tire dimensions, load side (rmm) 85 x 90 3.3 Tire dimensions, load side (rmm) 85 x 90 3.4 Castor wheel (dimensions) (dimensions) 11 x 1 x / 2 3.5 Track width (center of tires), load side b10 (rmm) 515 3.6 Track width (center of tires), load side b11 (rmm) 385 42.0 Height h1 (rmm) see tables 4.1 Lift height h2 (rmm) see tables 4.5 Height of tiller am / steering console (min/max) h14 (rmm) 1155/1500 4.15 Fork height, Lully lowered h13 (rmm) 90 2020 / 2500 4.20 Length to fork face 12 (rmm) 56 / 186 / 1150 4.21 Overall width b14 (rmm) 56 / 186 / 1150 5.2	2.2	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	840 / 1400
3.1 Tires: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side Vul / Vul 3.2 Tire dimensions, drive side (mm) 3.3 Tire dimensions, load side (mm) 3.4 Track witch (dimensions, load side (x = driven) (mm) 3.5 Number of wheels, load / drive side (x = driven) (mm) 3.6 Track witch (center of tires), load side b10 (mm) 3.7 Track witch (center of tires), load side b11 (mm) 3.6 Track witch (center of tires), load side b11 (mm) 385 3.7 Track witch (center of tires), load side b12 (mm) 386 4.20 Height of tiler arm / steering console (min/max) h14 (mm) see tables 4.4 Lift height h3 (mm) see tables 4.5 Height of tork kae I2 (mm) see tables 4.5 Height of tork kae I2 (mm) see tables 4.21 Overal length I1 (mm) SU200/ SU0 4.19	2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg	860 / 320
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3.6 Track width (center of tires), load side b10 (mm) 515 3.7 Track width (center of tires), load side b11 (mm) 335 4.2 Height h1 (mm) see tables 4.3 Free lift h2 (mm) see tables 4.4 Lift height h3 (mm) see tables 4.5 Height with mast extended h4 (mm) 115 (5150 4.5 Height of tiller arm / steering console (min/max) h14 (mm) 115 (5150 4.19 Overall length 11 (mm) 2020 / 2500 4.20 Length to fork face 12 (mm) 870 / 1350 4.21 Overall length b1/b2 (mm) 800 4.22 Fork dimensions (thickness, width, length) s/e / 1 (mm) 56 / 186 / 1150 4.22 Fork dimensions (thickness, width, length) s/e / 1 (mm) 570 4.23 Ground clearance at center of wheelbase, (forks lowered) m2 (mm) 250 / 3050 4.33 Turning radius m4 m1 116 / 0.33 4.34 Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down Ast (mm) 2560 / 3050 5.1 Travel speed, with / without load m /s 0.46 / 0.33 5.2 Lifting speed, with / without load	3.4	Castor wheel dimensions (diameter x width)		(mm)	125 x 60
In and many basis of all optimizations of all optimizations b11 (m) 385 Dimensions b11 (m) 385 Vinensions b1 m) 4.2b Height h1 (m) 4.2b Height h2 (m) see tables 4.4 Lift height h3 (m) see tables 4.4 Lift height h3 (m) see tables 4.5 Height of tiller arm / steering console (min/max) h14 (m) see tables 4.15 Fork height, fully lowered h13 (m) 90 4.19 Overall length 11 (m) 90 4.20 Length to fork face I2 (m) 870 4.21 Overall width b1/b2 m) 870 4.22 Fork carriage width b3 (m) 570 4.22 Fork dimensions (thickness, width, length) see tables 570 4.22 fork dimensions (thickness, width, length) see tables 570 4.23 Grad mark arcaine of theelbase, (fork lowerd) m) 570 4.24 fork carriage width b3 (m) 255 4.33 form) ford carriage width see tables	3.5	Number of wheels, load / drive side (x = driven)			1 + 1 x / 2
DimensionsImage: Constraint of the constr	3.6	Track width (center of tires), drive side		(mm)	515
4.2b Height h1 (mm) see tables 4.3 Free lift h2 (mm) see tables 4.4 Lift height h3 (mm) see tables 4.5 Height with mast extended h4 (mm) see tables 4.5 Height of tiller arm / steering console (min/max) h14 (mm) see tables 4.15 Fork height, fully lowered h13 (mm) see tables 4.15 Fork height, fully lowered h13 (mm) 90 4.19 Overall length 11 (mm) 8200 1155 / 1550 4.20 Length to fork face l2 (mm) 870 / 1350 4.21 Overall width b1/b2 (mm) 800 106 / 136 4.22 Fork dimensions (thickness, width, length) s / e / 1 (mm) 56 / 186 / 1150 4.22 Fork dimensions (thickness, width, length) s / e / 1 (mm) 570 4.23 Ground clearance at center of wheelbase, (forks lowered) m2 m1 4.24 Working aisle width (Ast) with 1000 x 1200 mm pallets, load lengthwise, platform up/down Ast (mm)	3.7	Track width (center of tires), load side	b11	(mm)	385
All Free lift h12 (mm) see tables 4.4 Lift height h3 (mm) see tables 4.5 Height with mast extended h4 (mm) see tables 4.9 Height of tiller arm / steering console (min/max) h14 (mm) see tables 4.15 Fork height, fully lowered h14 (mm) 1155 / 1550 4.15 Overall length 11 (mm) 2020 / 2500 4.20 Length to fork face 12 (mm) 870 / 1350 4.21 Overall width b1/b2 (mm) 870 / 1350 4.22 Fork dimensions (thickness, width, length) s/e / 1 (mm) 56 / 186 / 1150 4.22 Fork dimensions (thickness, width, length) s/e / 1 (mm) 56 / 186 / 1150 4.23 Ground clearance at center of wheelbase, (forks lowered) m2 (mm) 256 / 3050 4.32 Ground clearance at center of wheelbase, load crosswise, platform up/down Ast (mm) 2680 / 2980 4.34 Urkting asile width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down Ast (mm) 2680 / 2980 5.1 Travel speed, with / without load m /s 0.16 / 0.33 0.46 / 0.35 5.1 Itan					
Num Num Num Num Num Num See Tables 44 Lift height hid with mast extended hid with see tables see tables 4.9 Height of tiller arm / steering console (min/max) hid with mm see tables 4.11 Fork height, fully lowered hid with mm 90 4.12 Fork height, fully lowered hid with mm 2020 / 2500 4.20 Length to fork face 12 (mm) 800 2020 / 2500 4.21 Overall width b1/b2 (mm) 800 30 4.22 Fork dimensions (thickness, width, length) s / e / 1 (mm) 56 / 186 / 1150 4.22 Fork dimensions (thickness, width, length) s / e / 1 (mm) 50 mm 4.23 Ground clearance at center of wheelbase, (forks lowered) m2 (mm) 200 4.34 4.33 Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down Ast (mm) 2550 / 3050 4.34 Taravel speed, with / without load m / s 0.46 / 0.35 5.1 <td></td> <td></td> <td></td> <td></td> <td>see tables</td>					see tables
Invalue Initial field Initial field<	4.3				see tables
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Burger Name burger Name bit 2 bit 3 bit 4 21 Derail width b1/b2 for 8 900 422 Fork dimensions (thickness, width, length) s / e / 1 for 8 900 424 Fork carriage width b3 (nm) 56 / 186 / 1150 424 Fork carriage width b3 (nm) 570 425 Outside width over forks (minimum / maximum) b5 (nm) 570 432 Ground clearance at center of wheelbase, (forks lowered) A2t (nm) 2550 / 3050 4.32 Working aisle width (Ast) with 800 x 1200 mm pallets, load crosswise, platform up/down Ast (nm) 2560 / 2980 4.33 Turning radius Wa (nm) 2560 / 3050 4.36 5.1 Travel speed, with / without load m / s 0.16 / 0.33 0.16 / 0.33 5.2 Lifting speed, with / without load m / s 0.46 / 0.35 8 / 15 5.10 Service brakes (mechanical / hydraulic / electric / pneumatic) WV 1.0 2.2 Electric motors		-			
4.22 Fork dimensions (thickness, width, length) \$ s / e / 1 (mm) \$ 5 / 186 / 1150 4.24 Fork carriage width b3 (mm) \$ 5 / 186 / 1150 4.24 Fork carriage width b3 (mm) \$ 5 / 186 / 1150 4.25 Outside width over forks (minimum / maximum) b5 (mm) \$ 5 / 750 4.25 Outside width over forks (minimum / maximum) b5 (mm) \$ 7 / 50 4.32 Ground clearance at center of wheelbase, (forks lowered) m2 (mm) \$ 2 / 5 / 3050 4.36 Working aisle width (Ast) with 1000 x 1200 mm pallets, load lengthwise, platform up/down Ast (mm) 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /					
4.24 Fork carriage width b3 (mm) 750 4.25 Outside width over forks (minimum / maximum) b5 (mm) 570 4.25 Outside width over forks (minimum / maximum) b5 (mm) 20 4.32 Ground clearance at center of wheelbase, (forks lowered) m2 (mm) 20 4.32 Ground clearance at center of wheelbase, (forks lowered) m2 (mm) 20 4.34 Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down Ast (mm) 2660 / 2980 4.35 Turning radius Wa (mm) 1692 / 2172 Performance m/s 0.16 / 0.33 5.1 Travel speed, with / without load m / s 0.16 / 0.33 5.2 Lifting speed, with / without load m / s 0.46 / 0.35 5.3 Lowering speed, with / without load m / s 0.46 / 0.35 5.10 Service brakes (mechanical / hydraulic / electric / pneumatic) WW 1.0 6.1 Drive motor capacity (60 min. short duty) KW 1.0 6.2 Lift motor output at 15% duty factor KW 2.2 6.4 Battery voltage/capacity at 5-hour discharge V / Ah 2.4 / 150 - 250 6.6 Energy consumption acc					
Action Interface Interface 425 Outside width over forks (minimum / maximum) b5 (mm) 570 4.32 Ground clearance at center of wheelbase, (forks lowered) m2 (mm) 20 4.33c Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down Ast (mm) 22650 / 3050 4.34c Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down Ast (mm) 22650 / 2980 4.35 Turning radius Wa (mm) 22650 / 2980 9erformance Wa (mm) 1692 / 2172 5.1 Travel speed, with / without load m / s 0.16 / 0.33 5.3 Lowering speed, with / without load m / s 0.16 / 0.35 5.4 Maximum gradeability with / without load m / s 0.46 / 0.35 5.10 Service brakes (mechanical Hydraulic / electric / pneumatic) with 8 / 15 5.10 Service brakes (mechanical Hydraulic / electric / pneumatic) WW 2.2 6.1 Drive motor capacity (60 min. short duty) KW 2.4					
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4.34c Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down Ast (mm) 2660 / 2980 4.35 Turning radius Wa (mm) 1692 / 2172 Performance Wa (mm) 6.0 / 6.0 5.1 Travel speed, with / without load m / n 6.0 / 6.0 5.2 Lifting speed, with / without load m / s 0.16 / 0.33 5.3 Lowering speed, with / without load m / s 0.46 / 0.35 5.4 Maximum gradeability with / without load m / s 0.46 / 0.35 5.10 Service brakes (mechanical / hydraulic / electric / pneumatic) m / s 0.46 / 0.35 5.10 Service brakes (mechanical / hydraulic / electric / pneumatic) m / s 0.46 / 0.35 5.10 Service brakes (mechanical / hydraulic / electric / pneumatic) WW M 0.45 5.10 Service brakes (mechanical / hydraulic / electric / pneumatic) WW M 0.70 6.1 Drive motro capacity (60 min. short duty) LW Q.2 Q.44 / 150 - 250 6.5 Battery woltage/capacity at 5-hour discharge					
Als Turning radius Wa Ites/ / 2172 Performance 6.0 / 6.0 5.1 Travel speed, with / without load m / s 0.16 / 0.33 5.2 Lifting speed, with / without load m / s 0.46 / 0.35 5.3 Lowering speed, with / without load m / s 0.46 / 0.35 5.4 Maximum gradeability with / without load m / s 0.46 / 0.35 5.10 Service brakes (mechanical / hydraulic / electric / pneumatic) % 8 / 15 5.10 Service brakes (mechanical / hydraulic / electric / pneumatic) % 8 / 15 6.1 Drive motor capacity (60 min. short duty) kW 1.0 6.2 Lift motor output at 15% duty factor kW 2.2 6.4 Battery voltage/capacity at 5-hour discharge V / Ah 24 / 150 - 250 6.5 Battery weight kg 210 6.6a Energy consumption according to EN16796 kWh / h 0.77 Miscellaneous Electric Electric Electric 10.7.2 Whole-body vibration (EN 13 059:2002) 0.8 0.8					
Performance Number of the second se					
5.1 Travel speed, with / without load km / h 6.0 / 6.0 5.2 Lifting speed, with / without load m / s 0.16 / 0.33 5.3 Lowering speed, with / without load m / s 0.46 / 0.35 5.4 Maximum gradeability with / without load m / s 0.46 / 0.35 5.10 Service brakes (mechanical / hydraulic / electric / pneumatic) % 8 / 15 5.10 Service brakes (mechanical / hydraulic / electric / pneumatic) % 1.0 6.1 Drive motor capacity (60 min. short duty) kW 1.0 6.2 Lift motor output at 15% duty factor kW 2.2 6.4 Battery voltage/capacity at 5-hour discharge V / Ah 24 / 150 - 250 6.5 Battery weight kg 210 6.6a Energy consumption according to EN16796 kWh / h 0.77 Miscellaneous Electric 1.0 2.7 8.1 Type of drive control Electric 1.0 10.7.2 Whole-body vibration (EN 13 059:2002) 0.8	4.35		VVd	(11111)	1092/21/2
Interception I	5.1			km / h	60/60
5.3 Lowering speed, with / without load m / s 0.46 / 0.35 5.8 Maximum gradeability with / without load % 8 / 15 5.10 Service brakes (mechanical / hydraulic / electric / pneumatic) % 8 / 15 Electric motors Colspan="2">Colspan="2" Colspan="2">Colspan="2">Colspan="2" Colspan="2">Colspan="2" Colspan="2" Colspan="2" <td></td> <td></td> <td></td> <td></td> <td></td>					
5.8 Maximum gradeability with / without load % 8 / 15 5.10 Service brakes (mechanical / hydraulic / electric / pneumatic) Electric motors 6.1 Drive motor capacity (60 min. short duty) kW 1.0 6.2 Lift motor output at 15% duty factor kW 2.2 6.4 Battery voltage/capacity at 5-hour discharge V / Ah 24 / 150 - 250 6.5 Battery weight kg 210 6.6a Energy consumption according to EN16796 kWh / h 0.77 Miscellaneous Electric Electric 10.7.2 Whole-body vibration (EN 13 059:2002) 0.8 0.8					
Service brakes (mechanical / hydraulic / electric / pneumatic) Image: Constraint of the system o					
Electric motors Image: Constraint of the system of the syste				,0	0713
6.1 Drive motor capacity (60 min. short duty) kW 1.0 6.2 Lift motor output at 15% duty factor kW 2.2 6.4 Battery voltage/capacity at 5-hour discharge V / Ah 24 / 150 - 250 6.5 Battery weight kg 210 6.6a Energy consumption according to EN16796 kWh / h 0.77 Miscellaneous Electric Electric 0.8 10.7.2 Whole-body vibration (EN 13 059:2002) 0.8 0.8	0.10				
6.2 Lift motor output at 15% duty factor kW 2.2 6.4 Battery voltage/capacity at 5-hour discharge V / Ah 24 / 150 - 250 6.5 Battery weight kg 210 6.6.a Inergy consumption according to EN16796 kWh / h 0.77 Miscellaneous Electric 0.8 1 10.7.2 Whole-body vibration (EN 13 059:2002) 0.8 0.8	6.1			kW	1.0
6.4 Battery voltage/capacity at 5-hour discharge V / Ah 24 / 150 - 250 6.5 Battery weight kg 210 6.6a Energy consumption according to EN16796 kWh / h 0.77 Miscellaneous 8.1 Type of drive control Electric 10.7.2 Whole-body vibration (EN 13 059:2002) 0.8	6.2			kW	
6.5 Battery weight kg 210 6.6a Energy consumption according to EN16796 kWh / h 0.77 Miscellaneous 8.1 Type of drive control Electric 10.7.2 Whole-body vibration (EN 13 059:2002) 0.8	6.4			V / Ah	
6.6a Energy consumption according to EN16796 Wh/ h 0.77 Miscellaneous Electric Electric 10.7.2 Whole-body vibration (EN 13 059:2002) 0.8	6.5			kg	210
Miscellaneous Electric 8.1 Type of drive control Electric 10.7.2 Whole-body vibration (EN 13 059:2002) 0.8	6.6a		K	-	
10.7.2 Whole-body vibration (EN 13 059:2002) 0.8		Miscellaneous			
	8.1	Type of drive control			Electric
10.7.3 Hand-arm vibration (EN 13 059:2002) < 2.5	10.7.2	Whole-body vibration (EN 13 059:2002)			0.8
	10.7.3	Hand-arm vibration (EN 13 059:2002)			< 2.5



- Ast = Working aisle width
- Ast3 = Working aisle width (b12 <1000mm)
- Ast = Wa + $\sqrt{(16 x)^2 + (b12/2)^2}$ + a
- Ast3 = Wa + I6 x + a
- Wa = Turning radius
- I6 = Pallet length (800 or 1000mm)
- x = Load wheel axle to fork face
- b12 = Pallet width (1200 mm)
- a = minimum recommended passing clearance = 2 x 100mm

	Characteristics				
1.1	Manufacturer			Cat Lift Trucks	Cat Lift Trucks
1.2	Manufacturer's model designation			NSP16N3S	NSP16N3SR
1.3	Power source			Battery	Battery
1.4	Operator type			Pedestrian	Pedestrian / Stand-on
1.5	Load capacity	Q	(kg)	1600	1600
1.6	Load center distance	С	(mm)	600	600
1.8	Load wheel axle to fork face (forks lowered)	х	(mm)	750	750
1.9	Wheelbase	у	(mm)	1395	1395
	Weight				
2.1b	Truck weight without load, with maximum battery weight		kg	1288	1440
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	1045 / 1870	1215 / 1985
2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg	892 / 396	1020 / 420
	Wheels, Drive Train				
3.1	Tires: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			Vul / Vul	Vul / Vul
3.2	Tire dimensions, drive side		(mm)	230 x 70	230 x 70
3.3	Tire 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)			1 + 1 x / 4	1 + 1 x / 4
3.6	Track width (center of tires), drive side	b10	(mm)	515	515
3.7	Track width (center of tires), 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
4.9	Height of tiller arm / steering console (min/max)	h14	(mm)	865 / 1420	1155 / 1550
4.15	Fork height, fully lowered	h13	(mm)	85	85
4.19	Overall length	11	(mm)	1965	2085 / 2565
4.20	Length to fork face	12	(mm)	815	935 / 1415
4.21	Overall width	b1/b2	(mm)	800 / 1140 - 1575	800 / 1140 - 1575
4.22	Fork dimensions (thickness, width, length)	s/e/l	(mm)	40 / 100 / 1150	40 / 100 / 1150
4.24	Fork carriage width	b3	(mm)	980	980
4.25	Outside width over forks (minimum / maximum)	b5	(mm)	260-900	260-900
4.26	Inner width of support legs	b4	(mm)	900-1300	900-1300
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2	(mm)	20	20
	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast	(mm)	2580	2690 / 3170
4.34c	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast	(mm)	2580	2690 / 3170
4.35	Turning radius	Wa	(mm)	1637	1757 / 2237
	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	0.5 / 0.34
5.8	Maximum gradeability with / without load		%	8 / 15	8 / 15
	Service brakes (mechanical / hydraulic / electric / pneumatic)			0,10	0,10
0.10	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
6.4	Battery voltage/capacity at 5-hour discharge		V/Ah	24 / 250 - 375	24 / 250 - 375
0.7	Battery weight		kq	210	247 230 - 373
65	Duttory Worgin		∿9 Wh/h	0.77	0.78
6.5 6.6a	Energy consumption according to EN16796				
	Energy consumption according to EN16796	ĸ			
6.6a	Miscellaneous	ĸ		Electric	Electric
6.6a 8.1	5, 1 5	K	dB (A)		

х



NSP16N3SR: with folding platform

	NSP12 / 16	N3 / NSP12	13R	
Mast Type	h3+h13	h1	h4	h2+h13
	mm	mm	mm	mm
Simplex	1500	1950	1950	1500
	2500	1835	3000	200
	2900	2035	3400	200
	3300	2235	3800	200
	3600	2385	4100	200
	4300	2735	4800	200
Duplex	2500	1775	2940	1355
Free Lift	2900	1975	3340	1555
	3300	2235	3800	1755
	3600	2385	4100	1905
	4300	2735	4800	2255
Triplex	4100	1955	4640	-
	4300	2020	4840	-
	4700	2153	5240	-
	5400*	2385	5940	-
Triplex	4100	1955	4640	1475
Free Lift	4300	2020	4840	1540
	4700	2153	5240	1673
	5400*	2385	5940	1905

NSP16N3S / NSP16N3SR							
Mast Type	h3+h13	h1	h4	h2+h13			
	mm	mm	mm	mm			
Simplex	1500	2030	2030	1500			
	2500	1915	3080	195			
	2900	2115	3480	195			
	3300	2315	3880	195			
	3600	2465	4180	195			
	4300	2815	4880	195			
Duplex	2500	1915	3080	1355			
Free Lift	2900	2115	3480	1555			
	3300	2315	3880	1755			
	3600	2465	4180	1905			
	4300	2815	4880	2255			
Triplex	4100	2035	4720	-			
	4300	2100	4920	-			
	4700	2233	5320	-			
	5400	2465	6020	-			
Triplex	4100	2035	4720	1475			
Free Lift	4300	2100	4920	1540			
	4700	2233	5320	1753			
	5400	2465	6020	1905			

Mast Performance and Capacity

- S =
- Simplex Duplex with clear view mast DS =
- . Duplex with full free lift DEV =
- Triplex with clear view mast TR = Triplex with full free lift
- TREV = . Lifting height h3+h13 =
- Lowered mast height h1 =
- Raised mast height h4 =
- h2+h13 = Free lift



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NOTE: Performance specifications may vary depending on standard manufacturing tolerances, vehicle condition, types of tires, 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.

