

NSV16N
NSV16NI
NSV16NS
Specifications

**Platform
stacker trucks**
1.6 tonnes



Characteristics			Cat Lift Trucks NSV16N	Cat Lift Trucks NSV16NI
1.01	Manufacturer (abbreviation)		Battery	Battery
1.02	Manufacturer's model designation		Pedestrian/stand-on	Pedestrian/stand-on
1.03	Power source: (battery, diesel, LP gas, petrol)		1600	1600
1.04	Operator type: pedestrian, (operator)-standing, -seated		600	600
1.05	Load capacity	Q (kg)	647	946 ¹⁾
1.06	Load center distance	c (mm)	1254	1553
1.08	Load wheel axle to fork face (forks lowered)	x (mm)		
1.09	Wheelbase	y (mm)		
Weight				
2.01	Truck weight with maximum battery weight	kg	1360 ²⁾	1380 ²⁾
2.02	Axle loadings with nominal load & maximum battery weight, drive/load side	kg	930/2030 ²⁾	1330/1650 ²⁾
2.03	Axle loadings without load & with maximum battery weight, drive/load side	kg	940/420 ²⁾	1040/340 ²⁾
Wheels, Drive Train				
3.01	Tyres: PT=Power Thane, Vul=Vulkollan, drive/load side		Vul/Vul	Vul/Vul
3.02	Tyre dimensions, drive side	(mm)	230x70	230x70
3.03	Tyre dimensions, load side	(mm)	85x75	85x75
3.04	Castor wheel dimensions (diameter x width)	(mm)	150x50	150x50
3.05	Number of wheels, drive/load side (x=driven)		2+1x/4	2+1x/4
3.06	Track width (center of tyres), drive side	b10 (mm)	550 ⁴⁾	550 ⁴⁾
3.07	Track width (center of tyres), load side	b11 (mm)	401	401
Dimensions				
4.02	Height with mast lowered (see tables)	h1 (mm)	See tables	See tables
4.03	Free lift (see tables)	h2 (mm)	See tables	See tables
4.04	Lift height (see tables)	h3 (mm)	See tables	See tables
4.05	Overall height with mast raised	h4 (mm)	See tables	See tables
4.06	Initial lift	h5 (mm)	-	115
4.08	Seat- or stand height	h7 (mm)	145	145
4.09	Height of tiller arm / steering console (min./max.)	h14 (mm)	1141/1341	1141/1341
4.15	Fork height, fully lowered	h13 (mm)	85	92
4.19	Overall length, platform up/down	l1 (mm)	2037 / 2492 ³⁾	2037 / 2492 ³⁾
4.20	Length to fork face, platform up/down	l2 (mm)	887/1343 ³⁾	887/1343 ³⁾
4.21	Overall width, narrow chassis/wide chassis	b1/b2 (mm)	790/926	790/926
4.22	Fork dimensions (thickness, width, length)	s/e/l (mm)	56/185/1150	56/185/1150
4.25	Outside width over forks (minimum/maximum)	b5 (mm)	570/685	570/685
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2 (mm)	29	25
4.33a	Working aisle width (Ast) with 1000 x1200 mm pallets, load crosswise, platform up/down	Ast (mm)	-	2652/3091 ³⁾
4.33b	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast3 (mm)	-	2104/2543 ³⁾
4.34a	Working aisle width (Ast) with 800 x1200 mm pallets, load lengthwise, platform up/down	Ast (mm)	2438/2873 ³⁾	2524/2963 ³⁾
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast3 (mm)	2308/2743 ³⁾	2304/2743 ³⁾
4.35	Turning circle radius (platform up/down)	Wa (mm)	1555/1990 ³⁾	1850/2289 ³⁾
Performance				
5.01	Travel speed, with/without load	km/h	9/9	9/9
5.02	Lifting speed, with/without load	m/s	0.13/0.23	0.13/0.23
5.03	Lowering speed, with/without load	m/s	0.20/0.12	0.20/0.12
5.08	Gradeability, with/without load	%	10/15	10/15
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)		Electric	Electric
Electric motors				
6.01	Drive motor capacity (60 min. short duty)	kW	2	2
6.02	Lift motor output at 15% duty factor	kW	3	3
6.04	Battery voltage/capacity at 5-hour discharge	V/Ah	24/375	24/375
6.05	Battery weight	kg	285	285
Miscellaneous				
8.01	Type of drive control		Stepless	Stepless
8.04	Noise level, mean value at operator's ear (EN 12053)	dB(A)	68	68

1) = -17mm triplex masts

2) = DF3300

3) = +17mm triplex masts

4) = values for narrow chassis.

Wide chassis is b10 + 140 mm

$$Ast = Wa + R + a$$

$$Ast = Wa + \sqrt{(l6 - x)^2 + (b12 / 2)^2} + a$$

$$Ast = \text{Working aisle width}$$

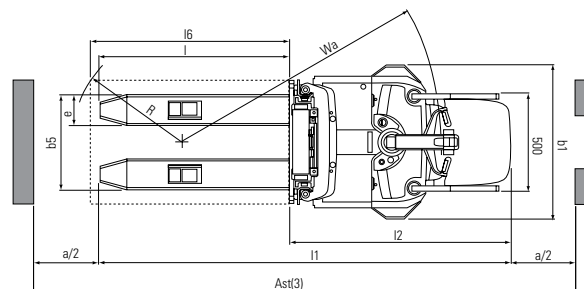
$$Wa = \text{Turning radius}$$

$$a = \text{Safety clearance } 2 \times 100 \text{ mm}$$

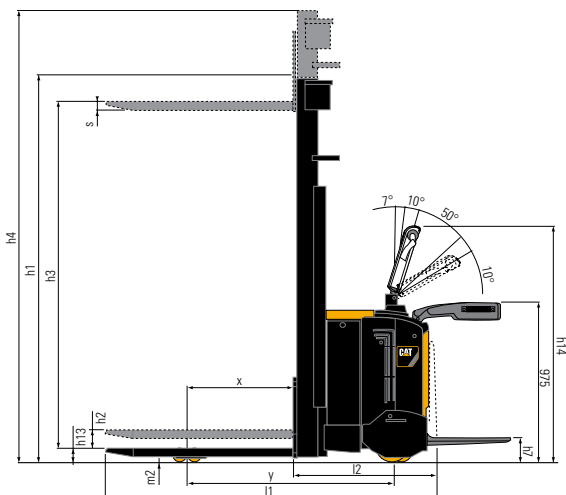
$$R = \sqrt{(l6 - x)^2 + (b12 / 2)^2}$$

$$l6 = \text{Pallet length (800 or 1000 mm)}$$

$$b12 = \text{Pallet width (1200 mm)}$$



	Cat Lift Trucks
	NSV16NS
	Battery
	Pedestrian/stand-on
	1600
	600
	647
	1319
	1360 ²⁾
	930/2030 ²⁾
	940/420 ²⁾
	Vul/Vul
	230x70
	85x75
	150x50
	2+1x/4
	550 ⁴⁾
	401
	See tables
	See tables
	See tables
	See tables
	-
	145
	1141/1341
	75
	2086/2542 ³⁾
	887/1343 ³⁾
	1124/1324/1524
	40/100/1150
	200/980
	29
	2586/3022 ³⁾
	2306/2742 ³⁾
	2486/2922 ³⁾
	2356/2792 ³⁾
	1603/2039 ³⁾
	9/9
	0.13/0.23
	0.20/0.12
	10/15
	Electric
	2
	3
	24/375
	285
	Stepless
	68



Lower Cost of Ownership

- Smooth, progressive, with easy to use controls enhancing operator concentration leading to better shift productivity.
- AC-drive technology means longer service intervals, reducing the total cost of ownership.
- Battery discharge indicator (BDI) incorporates lift cut-out for battery protection.
- Durable chassis and mast construction.

Unmatched Productivity

- Ideal for work in narrow aisles, these stackers are precision engineered for fast travel and fast lifting speeds that guarantee high productivity lifting loads up to 5400mm (with Triplex mast).
- Initial lift models for increased ground clearance, making the truck suitable for working on ramps.
- The powerful AC based traction motor features optimum torque for excellent acceleration, traction, speed and regenerative braking.
- Strong regenerative braking speeds up work cycles, reduces heat build-up in the motor and protects components from premature wear, giving better energy efficiency.
- Fast acceleration, drive speed of 9 km/h and excellent manoeuvrability giving high productivity.
- LCD display with all relevant information (battery discharge, errors and warnings, service access).
- Tapered fork tips for easy pallet entry, when approaching at an angle.
- High residual capacity makes the truck suitable for most loads.
- Good service access allows for reduced down time.
- Many options available to adapt the truck to its application.
- Wider castor wheels for improved stability on greater lift heights.
- Proportional controlled hydraulics allow sensitive load handling.
- Programmable features for driver.

Safety and Ergonomics

- The powerRamic mast affords excellent overall visibility for safe operation and precise load handling.
- Ergonomic and durable tiller arm with all functions within easy reach.
- Suspended drivers platform for driver comfort.
- Wide platform for stable standing position.
- Side bars for additional safety.
- Minimal ground clearance for improved safety.

Options

- Various fork lengths and widths.
- Side plates can be customised.
- Various mast types (duplex, triplex with or without freelif).
- PIN code startup with programmable features.
- Choice of different wheel materials.
- Lift height indicator.

Cat[®] Lift Trucks.

Your partner in materials handling.

NSV16N				
Mast Type	h3+h13	h1	h4	(h2+h13)
	mm	mm	mm	mm
S	1500	1990	1990	1500
D	(1600)*	1371	2101	(155)
	(2000)*	1571	2501	(155)
	2500	1790	2970	(155)
	2900	1990	3370	(155)
	3300	2190	3770	(155)
	3700	2390	4170	(155)
	4400	2756	4870	(155)
DF	2500	1790	2970	1310
	2900	1990	3370	1510
	3300	2190	3770	1710
	3700	2390	4170	1910
	4400	2756	4870	2276
T	4200	1990	4650	(145)
	4800	2190	5250	(145)
	5400	2390	5850	(145)
TF	4200	1990	4650	1625
	4800	2190	5250	1825
	5400	2390	5850	2025

NSV16NI & NSV16NS				
Mast Type	h3+h13	h1	h4	(h2+h13)
	mm	mm	mm	mm
S	1500	2021	2021	1500
D	(1600)*	1402	2132	(155)
	(2000)*	1602	2532	(155)
	2500	1821	3001	(155)
	2900	2021	3401	(155)
	3300	2221	3801	(155)
	3700	2421	4201	(155)
	4400	2787	4901	(155)
DF	2500	1821	3001	1310
	2900	2021	3401	1510
	3300	2221	3801	1710
	3700	2421	4201	1910
	4400	2787	4901	2260
T	4200	2021	4681	(145)
	4800	2221	5281	(145)
	5400	2421	5881	(145)
TF	4200	2021	4681	1625
	4800	2221	5281	1825
	5400	2421	5881	2025

Mast Performance and Capacity

- S Simplex
- DS Duplex with PoweRamic Mast
- TR Triplex with PoweRamic Mast
- TF Triplex with Integral Mast
- h3+h13 Lift height
- h1 Lowered mast height (with initial lift + 115 mm)
- h4 Raised mast height (with initial lift + 115 mm)
- h2+h13 Free lift height
- ()* Not available mast heights, they are intermediate values

270Ah battery up to lifting height of 3300mm

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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.

