

Cat® Lift Trucks.

Your partner in materials handling.

NSV16N				
Mast Type	h3+h13	h1*	h4*	(h2+h13)
	mm	mm	mm	mm
S	1500	1890	1890	-
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	1540
	4800	2190	5250	1740
	5400	2390	5850	1940

NSV16NI & NSV16NS				
Mast Type	h3+h13	h1	h4	(h2+h13)
	mm	mm	mm	mm
S	1500	-	-	-
D	1600	1433	2132	(155)
	2000	1602	2532	(155)
	2500	1821	3001	(155)
	2900	2021	3401	(155)
	3300	2221	3801	(155)
	3700	2421	4201	(155)
	4400	2771	4901	(155)
DF	2500	1821	3001	1310
	2900	2021	3401	1510
	3300	2221	3801	1710
	3700	2421	4201	1910
	4400	2771	4901	2260
T	4200	2021	4581	(145)
	4800	2221	5281	(145)
	5400	2421	5881	(145)
TF	4200	2021	4681	1540
	4800	2221	5281	1740
	5400	2421	5881	1940

Mast Performance and Capacity

- S Simplex
- DS Duplex with Clear View Mast
- DEV Duplex with Full Free Lift
- TR Triplex with Clear View Mast
- TREV Triplex with Full Free Lift
- 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
- * Initial lift NSV16NI and straddle models
NSV16NS, add 31 mm

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.



NSV16N NSV16NI NSV16NS Specifications



**Platform
stacker trucks**
1.6 tonnes



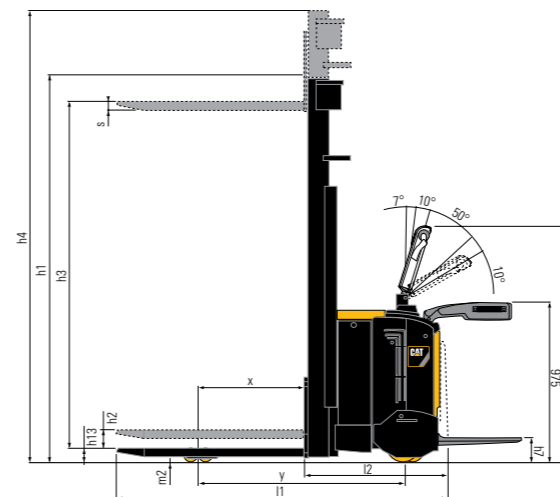
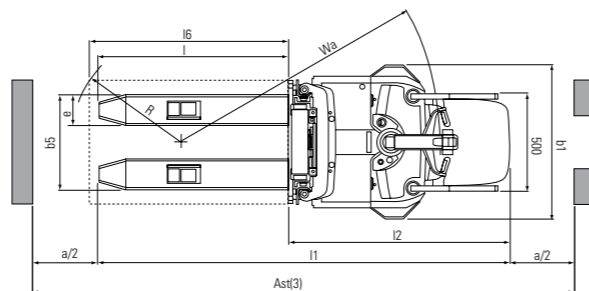
Characteristics			Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks
			NSV16N	NSV16NI	NSV16NS
			Battery	Battery	Battery
			Pedestrian/stand-on	Pedestrian/stand-on	Pedestrian/stand-on
1.01	Manufacturer (abbreviation)				
1.02	Manufacturer's model designation				
1.03	Power source: (battery, diesel, LP gas, petrol)				
1.04	Operator type: pedestrian, (operator)-standing, -seated				
1.05	Load capacity	Q (kg)	1600	1600	1600
1.06	Load center distance	c (mm)	600	600	600
1.08	Load wheel axle to fork face (forks lowered)	x (mm)	647	946 ¹⁾	647
1.09	Wheelbase	y (mm)	1254	1553	1319
Weight					
2.01	Truck weight with maximum battery weight	kg	1360 ²⁾	1380 ²⁾	1360 ²⁾
2.02	Axle loadings with nominal load & maximum battery weight, drive/load side	kg	930/2030 ²⁾	1330/1650 ²⁾	930/2030 ²⁾
2.03	Axle loadings without load & with maximum battery weight, drive/load side	kg	940/420 ²⁾	1040/340 ²⁾	940/420 ²⁾
Wheels, Drive Train					
3.01	Tyres: PT=Power Thane, Vul=Vulkollan, drive/load side		Vul/Vul	Vul/Vul	Vul/Vul
3.02	Tyre dimensions, drive side	(mm)	230x70	230x70	230x70
3.03	Tyre dimensions, load side	(mm)	85x75	85x75	85x75
3.04	Castor wheel dimensions (diameter x width)	(mm)	150x50	150x50	150x50
3.05	Number of wheels, drive/load side (x=driven)		2+1x/4	2+1x/4	2+1x/4
3.06	Track width (center of tyres), drive side	b10 (mm)	520	520	520
3.07	Track width (center of tyres), load side	b11 (mm)	410	410	410
Dimensions					
4.02	Height with mast lowered (see tables)	h14 (mm)	See tables	See tables	See tables
4.03	Free lift (see tables)	h13 (mm)	See tables	See tables	See tables
4.04	Lift height (see tables)	l1 (mm)	See tables	See tables	See tables
4.05	Overall height with mast raised	l2 (mm)	See tables	See tables	See tables
4.06	Initial lift	b1/b2 (mm)	See tables	See tables	See tables
4.09	Seat- or stand height	s / e / l (mm)	145	145	145
4.15	Height of tiller arm / steering console (min./max.)	b5 (mm)	1141/1341	1141/1341	1141/1341
4.19	Fork height, fully lowered	m2 (mm)	92	92	75
4.20	Overall length	Ast (mm)	2037/2492 ³⁾	2112/2568 ³⁾	2086/2542 ³⁾
4.21	Length to fork face (includes fork thickness)	Ast3 (mm)	887/1343 ³⁾	887/1343 ³⁾	887/1343 ³⁾
4.22	Overall width	Ast (mm)	790/926	790/926	1124/1324/1524
4.24	Fork dimensions (thickness, width, length)	Ast3 (mm)	56/185/1150	56/185/1150	40/100/1150
4.25	Outside width over forks (minimum/maximum)	Wa (mm)	570	570	200-980
4.32	Ground clearance at center of wheelbase, (forks lowered)		29	25	29
4.33a	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	km/h	2519/2955 ³⁾	2669/3105 ³⁾	2586/3022 ³⁾
4.33b	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise, platform up/down	m/s	2239/2675 ³⁾	2239/2675 ³⁾	2306/2742 ³⁾
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	m/s	2419/2855 ³⁾	2509/2945 ³⁾	2486/2922 ³⁾
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise, platform up/down	%	2289/2725 ³⁾	2289/2725 ³⁾	2356/2792 ³⁾
4.35	Turning circle radius		1536/1972 ³⁾	1835/2271 ³⁾	1603/2039 ³⁾
Performance					
5.01	Travel speed, with/without load	kW	9/9	9/9	9/9
5.02	Lifting speed, with/without load	kW	0.13/0.23	0.13/0.23	0.13/0.23
5.03	Lowering speed, with/without load	V/Ah	0.23/0.22	0.23/0.22	0.23/0.22
5.08	Gradeability, with/without load	kg	10/15	10/15	10/15
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)		Electric	Electric	Electric
Electric motors					
6.01	Drive motor capacity (60 min. short duty)	dB(A)	2	2	2
6.02	Lift motor output at 15% duty factor		3	3	3
6.04	Battery voltage/capacity at 5-hour discharge		24/375	24/375	24/375
6.05	Battery weight		285	285	285
Miscellaneous					
8.01	Type of drive control		Stepless	Stepless	Stepless
8.04	Noise level, mean value at operator's ear (EN 12053)		68	68	68

1) = -17mm triplex masts

2) = DF3300

3) = +17mm triplex masts

$Ast = Wa + R + a$
 $Ast = Wa + \sqrt{(l6 - x)^2 + (b12 / 2)^2} + a$
 Ast = Working aisle width
 Wa = Turning radius
 a = Safety clearance 2 x 100 mm
 $R = \sqrt{(l6 - x)^2 + (b12 / 2)^2}$
 l6 = Pallet length (800 or 1000 mm)
 b12 = Pallet width (1200 mm)



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 is sealed against dust and water splashes and 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 (Drive wheel direction, driving speed, 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 poweRamic 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 freelifit).
- PIN code startup with programmable features.
- Choice of different wheel materials.
- Lift height indicator.
- Load weight indicator.
- Internal charger.