



# **NPP16N2 - NPP18N2 - NPP20N2**

Preliminary Specifications

## **Pedestrian Power Pallet**

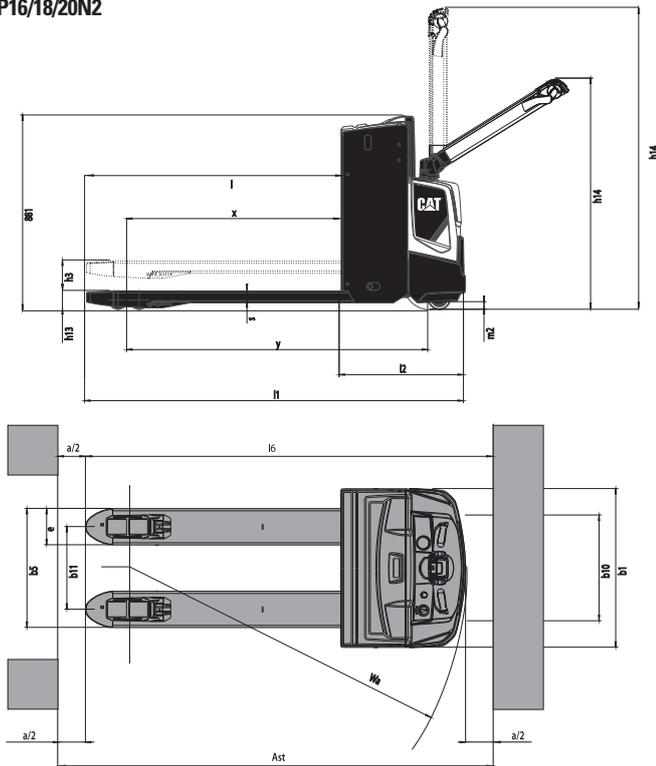
1.6 - 2.0 tonnes

<b>Characteristics</b>			Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks
			<b>NPP16N2</b>	<b>NPP18N2</b>	<b>NPP20N2</b>
1.01	Manufacturer (abbreviation)		Battery	Battery	Battery
1.02	Manufacturer's model designation		Pedestrian	Pedestrian	Pedestrian
1.03	Power source (battery, diesel, LP gas, petrol)		1600	1800	2000
1.04	Operator type: pedestrian, (operator)-standing, -seated		600	600	600
1.05	Load capacity	Q (kg)	960	960	960
1.06	Load centre distance	c (mm)	1360	1424	1424
1.08	Load wheel axle to fork face (forks lowered)	x (mm)			
1.09	Wheelbase	y (mm)			
<b>Weight</b>					
2.01	Truck weight with maximum battery weight	kg	431	502	634
2.02	Axle loadings with nominal load & maximum battery weight, drive/load side	kg	635 / 1396	806 / 1496	864 / 1770
2.03	Axle loadings without load & with maximum battery weight, drive/load side	kg	332 / 99	381 / 121	475 / 159
<b>Wheels, Drive Train</b>					
3.01	Tires: PT=Power Thane, Vul=Vulkollan, drive/load side		Vul/Vul	Vul/Vul	Vul/Vul
3.02	Tire dimensions, drive side	(mm)	85x90	85x75	85x75
3.03	Tire dimensions, load side	(mm)	230x70	230x70	230x70
3.04	Castor wheel dimensions (diameter x width)	(mm)	100x40	100x40	100x40
3.05	Number of the wheels drive/load side (x=driven)		2+1x/2	2+1x/4	2+1x/4
3.06	Track width (centre of tyres), drive side	b10 (mm)	480	480	480
3.07	Track width (centre of tyres), load side	b11 (mm)	355/375/495	355/375/495	355/375/495
<b>Dimensions</b>					
4.04	Lift height	h3 (mm)	135	135	135
4.08	Seat or stand height	(mm)	-	-	-
4.09	Height of tiller arm / steering console (min. / max.)	h14 (mm)	1050/1372	1050/1372	1050/1372
4.15	Fork height, fully lowered	h13 (mm)	85	85	85
4.19	Overall length	l1 (mm)	1648	1712	1712
4.20	Length to fork face	l2 (mm)	498	562	562
4.21	Overall width	b1/b2 (mm)	720	720	720
4.22	Fork dimensions (thickness, width, length)	s/e/l (mm)	55/165/1150	55/165/1150	55/165/1150
4.25	Outside width over forks	b5 (mm)	520/540/660	520/540/660	520/540/660
4.32	Ground clearance, center of wheelbase (forks lowered)	m2 (mm)	30	30	30
4.33	Working aisle width (Ast) with 1000 x1200 mm pallet, load crosswise	Ast (mm)	1694	1758	1758
4.34	Working aisle width (Ast) with 800 x1200 mm pallet, load lengthwise	Ast (mm)	1894	1958	1958
4.35	Turning radius	Wa (mm)	1454	1518	1518
<b>Performance</b>					
5.01	Travel speed, with/without load	km/h	6.0/6.0	6.0/6.0	6.0/6.0
5.02	Lifting speed, with/without load	m/s	0.034/0.043	0.034/0.043	0.039/0.06
5.03	Lowering speed, with/without load	m/s	0.099/0.076	0.099/0.076	0.099/0.078
5.07	Gradeability, with/without load	%	10.0/20.0	10.0/20.0	10.0/20.0
5.10	Service brake (mechanical/hydraulic/electric/pneumatic)		Electric	Electric	Electric
<b>Electric motors</b>					
6.01	Drive motor capacity (60 min. short duty)	kW	1.0	1.0	1.0
6.02	Lift motor output at 15% duty factor	kW	0.8	0.8	1.2
6.04	Battery voltage/capacity at 5-hour discharge	V/Ah	24 / 150	24/250	24/250-375
6.05	Battery weight	kg	151	212	212-294
<b>Miscellaneous</b>					
8.01	Type of drive control		Stepless	Stepless	Stepless
8.04*	Noise level, mean value at operator's ear (EN 12 053), drive/lift/idle	dB (A)	64/63/0	64/63/0	64/76/0
	Whole-body vibration (EN 13 059)	m/s <sup>2</sup>	-	-	-
	Hand-arm vibration (EN 13 059)	m/s <sup>2</sup>	< 2.5	< 2.5	< 2.5

\* Uncertainty of 4 dB(A) in section 8.04



NPP16/18/20N2



$A_{st} = W \cdot a - x + l_6 + 200$   
 $a$  = Safety clearance (200 mm)  
 $l_6$  = Pallet length

## 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 durability in even the toughest conditions
- Sealed chassis and waterproof electronics 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, significantly reducing downtime
- Integrated drive and lift system features fewer components than previous models, reducing scope for breakdown
- Enclosed battery compartment with steel cover protects battery against impacts
- Standard battery sizes allow interchangeability with other brands

## Unmatched Productivity

- Advanced AC controller results in very precise drive control, making life easier for lift truck operators
- Ergonomic tiller arm helps keep operators fresh with comfortable, easy to use controls
- Excellent traction characteristics permit quicker acceleration, allowing more loads to be handled in any given shift
- Increased maximum lift height suits even steep ramps and loading docks, making this an ideal truck for both horizontal pallet movements and vehicle loading/unloading
- Programmable controller lets users prioritize between faster performance and smoother handling, ensuring the most appropriate settings for the job
- Rounded fork tips make for accurate and effortless pallet entry, speeding up handling cycles and preventing pallet or load damage
- Optional sealed built-in charger allows instant charging via any 230V connection without disconnecting the battery

## Ergonomics

- Latest tiller arm design permits comfortable operating position with optimum hand protection
- Super-quiet oil-filled transmission helps keep noise levels low
- Optional large lift and lower levers allow easy, one-handed control, even with gloves
- Linked suspension caster wheels ensure highest possible truck stability - whatever the load

## Options

- Pallet entry/exit rollers
- Load backrest
- Multifunctional display including hour meter
- Cold store modification class III for environments down to -35°C
- Sealed built-in charger
- Equipment holder for mounting accessories
- Large lift/lower levers
- 375Ah battery (NPP20N2 only)

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Today those brand values of ruggedness, durability and serviceability are at the core of our complete range of lift truck and warehouse equipment.

Together with our dealer network we are dedicated to providing customers with comprehensive materials handling solutions and cost-effective machine selection.

We offer a variety of warranties and maintenance contracts tailored to your specific needs. Trained service technicians respond quickly and efficiently when required, to keep your materials handling operation running smoothly and profitably.

To help spread the cost of ownership we also provide a full range of finance and rental options.

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**CAT<sup>®</sup> Lift Trucks**