

NPP16N3  
NPP18N3  
NPP20N3

# PEDESTRIAN POWER

## SPECIFICATIONS

**PEDESTRIAN POWER PALLET TRUCKS** 24V, 1.6 - 2.0 TONS



# IDEAL FOR EFFICIENT LOADING, UNLOADING AND SHUTTLE APPLICATIONS

TAKING MOST OF THE LEGWORK OUT OF PEDESTRIAN PALLET HANDLING, THE NPP RANGE IS IDEAL FOR BOTH HORIZONTAL MOVEMENTS AND VEHICLE LOADING/UNLOADING. ITS INDUSTRY-LEADING PERFORMANCE INSPIRES CONFIDENCE AND BOOSTS PRODUCTIVITY IN VIRTUALLY ANY APPLICATION.



**The NPP16N3 is an ideal all-round machine for light handling applications and is small enough to be used on a mezzanine floor or transported in the back of a truck. The NPP18N3 and NPP20N3 add greater capacity for heavier loads and more intensive work.**

## LOWER COST OF OWNERSHIP

- Sturdy chassis construction and endurance-tested forks provide enhanced robustness and durability even in some of the toughest conditions.
- Sealed 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, reducing downtime even more.
- Integrated drive and lift system features fewer components than previous models, reducing scope of maintenance.
- Closed battery compartment with steel cover protects battery against impacts.
- Standard battery sizes allow interchangeability with other brands.

## UNMATCHED PRODUCTIVITY

- Standard LCD display offers clear information on truck and battery condition.
- Ergonomic tiller arm helps keep operators fresh with comfortable controls.
- Increased maximum lift height suits even ramps and loading docks, making this an ideal truck for both horizontal pallet movements and vehicle loading/unloading.
- Advanced AC 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.
- Distance of the fork support wheels from the rear frame has been optimized for increased stability.

## ERGONOMICS

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

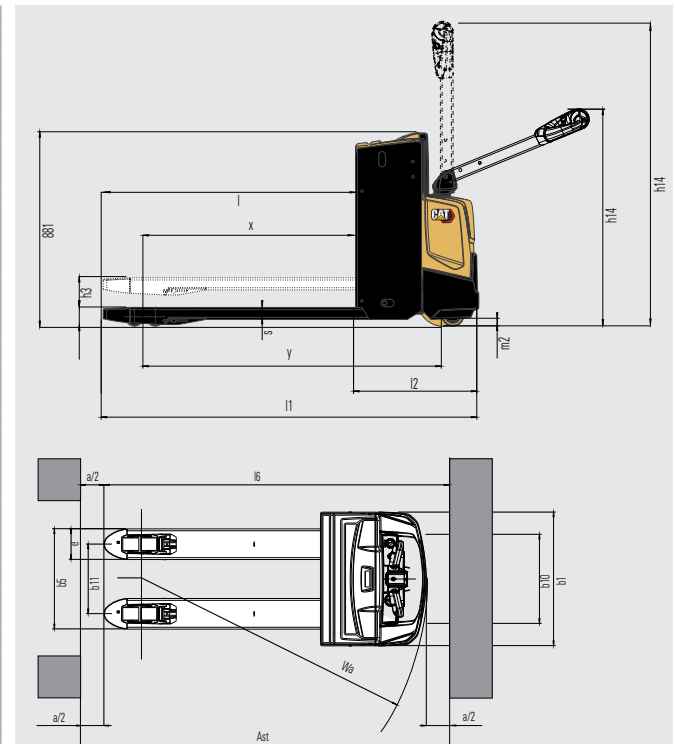


# STANDARD EQUIPMENT AND OPTIONS

	NPP16N3	NPP18N3	NPP20N3
<b>GENERAL</b>			
LED battery discharge indicator, no hour meter	●	●	●
PIN code login 4 codes	○	○	○
Electric on/off valve for lifting and lowering, controlled by rocker switch on tiller head	●	●	●
Single or tandem load wheels Polyurethane	●	●	●
<b>ENVIRONMENT</b>			
Cold store design, 0°C to -35°C	○	○	○
Hot operating condition modification, >30C°	○	○	○
<b>DRIVE AND LIFT CONTROLS</b>			
Tiller up drive	●	●	●
<b>WHEEL OPTIONS</b>			
Polyurethane traction and load wheels	●	●	●
Power friction traction wheel	○	○	○
Tandem Polyurethane load wheels	○	●	●
Single Polyurethane load wheels	○	●	●
Non-marking drive wheel	–	–	–
<b>OTHER OPTIONS</b>			
Key switch	●	●	●
Load backrest	○	○	○
Pallet entry and exit rollers	○	○	○
Special RAL color	○	○	○
Built-in charger 30A	○	○	○
Sideways battery change, 250Ah and 375Ah battery only	–	○	○
Battery changing device	–	○	○
Accessory rack	○	○	○
Working light	○	○	○

Characteristics			Cat Lift Trucks	Cat Lift Trucks	Cat Lift Trucks
1.1	Manufacturer				
1.2	Manufacturer's model designation				
1.3	Power source				
1.4	Operator type				
1.5	Load capacity	Q (kg)	1600	1800	2000
1.6	Load center distance	c (mm)	600	600	600
1.8	Load wheel axle to fork face (forks lowered)	x (mm)	960	960	960
1.9	Wheelbase	y (mm)	1360	1425	1425
<b>2.0 Weight</b>					
2.1b	Truck weight without load, with maximum battery weight	kg	430	500	500
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side	kg	745 / 1290	805 / 1495	840 / 1660
2.3	Axle loadings without load & with maximum battery weight, drive / load side	kg	340 / 90	380 / 120	380 / 120
<b>3.0 Wheels, Drive Train</b>					
3.1	Tires: PT = Power Thane, Vul = Vulkan, P = Polyurethane, N = Nylon, R = Rubber drive / load side				
3.2	Tire dimensions, drive side	(mm)	230 x 70	230 x 70	230 x 70
3.3	Tire dimensions, load side	(mm)	85 x 90	85 x 75	85 x 75
3.4	Castor wheel dimensions (diameter x width)	(mm)	100 x 40	100 x 40	100 x 40
3.5	Number of wheels, load / drive side (x = driven)				
3.6	Track width (center of tires), drive side	b10 (mm)	480	480	480
3.7	Track width (center of tires), load side	b11 (mm)	375	375	375
<b>4.0 Dimensions</b>					
4.4	Lift height	h3 (mm)	135	135	135
4.9	Height of tiller arm / steering console (min/max)	h14 (mm)	865 / 1420	865 / 1420	865 / 1420
4.15	Fork height, fully lowered	h13 (mm)	85	85	85
4.19	Overall length	l1 (mm)	1650	1710	1710
4.20	Length to fork face	l2 (mm)	500	560	560
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 (minimum / maximum)	b5 (mm)	540	540	540
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2 (mm)	30	30	30
4.33c	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast (mm)	2339	2475	2472
4.34c	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast (mm)	2176	2281	2281
4.35	Turning radius	Wa (mm)	1510	1551	1551
<b>5.0 Performance</b>					
5.1	Travel speed, with / without load	km / h	6.0 / 6.0	6.0 / 6.0	6.0 / 6.0
5.2	Lifting speed, with / without load	m / s	0.035 / 0.045	0.030 / 0.035	0.04 / 0.05
5.3	Lowering speed, with / without load	m / s	0.05 / 0.05	0.06 / 0.042	0.05 / 0.06
5.7	Gradeability, with / without load	%	10.0 / 20.0	10.0 / 20.0	10.0 / 20.0
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)		Electric	Electric	Electric
<b>6.0 Electric motors</b>					
6.1	Drive motor capacity (60 min. short duty)	kW	1.0	1.0	1.0
6.2	Lift motor output at 15% duty factor	kW	0.8	0.8	1.2
6.4	Battery voltage/capacity at 5-hour discharge	V / Ah	24 / 150	24 / 250	24 / 250 - 375 <sup>1)</sup>
6.5	Battery weight	kg	150	210	210
6.6a	Energy consumption according to EN16796	kWh / h	0.23	0.26	0.26
<b>8.0 Miscellaneous</b>					
8.1	Type of drive control		Electric	Electric	Electric
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)	62 / 69 / 0	62 / 69 / 0	65 / 67 / 0
10.7.3	Hand-arm vibration (EN 13 059:2002)		< 2.5	< 2.5	< 2.5

1) With 375Ah battery the l2 dimension increases 72mm



### NPP16/18/20N3

Ast = Wa-x+l6+200

Ast = Working aisle width

Wa = Turning radius

a = minimum recommended passing clearance (200 mm)

l6 = Pallet length

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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.

