



NPP16N2
NPP18N2
NPP20N2

NPP16PD

NPP20N2R
NPP20N2E

PEDESTRIAN POWER

SPECIFICATIONS

PEDESTRIAN POWER PALLET TRUCKS 24V, 1.6 - 2.0 TONNES



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 ANY APPLICATION.



The NPP16N2 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 goods vehicle. The NPP18N2 and NPP20N2 add greater capacity for heavier loads and more intensive work.



The NPP16PD pedestrian double pallet handler boosts productivity by carrying two pallets simultaneously (one above the other). It is ideal for loading and unloading on dock levellers, picking and refilling, and transporting loads over short distances in warehouses, supermarkets and production areas.



The NPP20N2R is equipped with a foldable platform for occasional use when driving over longer distances. The spacious platform of the NPP20N2R, with suspension for a comfortable ride, is easy to get on and off, and also offers good ground clearance.



The NPP20N2E is equipped with lifting forks (735 mm height) that offer an ergonomic position for loading and unloading items with minimal physical strain.

LOWER COST OF OWNERSHIP

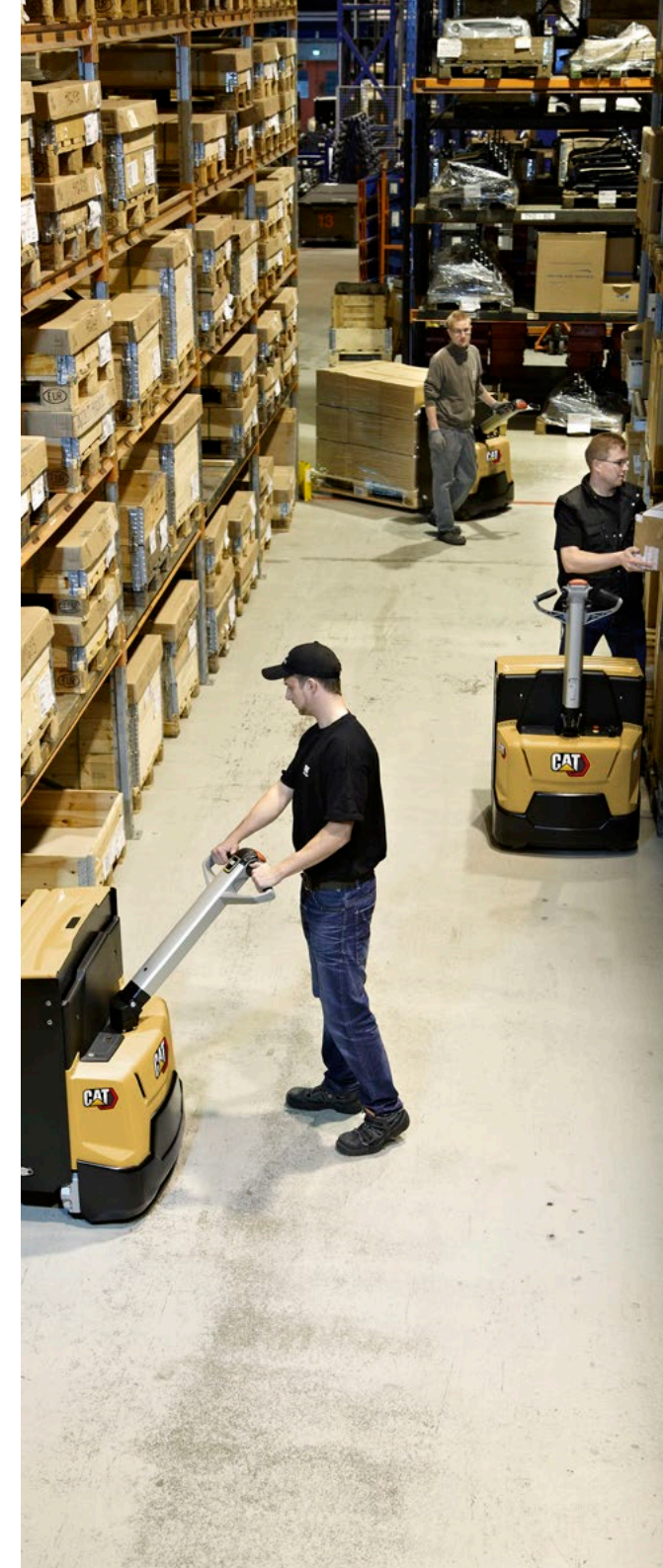
- Sturdy chassis construction and endurance-tested forks provide enhanced robustness and durability even in the toughest conditions.
- Sealed chassis and waterproof electrics resist moisture, dirt and corrosion - increasing uptime, cutting maintenance costs and prolonging truck life.
- Easy access to critical truck components allows faster fault diagnosis and speedier maintenance, reducing downtime still further.
- Integrated drive and lift system features fewer components than previous models, reducing scope for breakdown.
- Closed battery compartment with steel cover protects battery against impacts, postponing costly battery replacement.
- Standard battery sizes allow interchangeability with other brands.

UNMATCHED PRODUCTIVITY

- Ergonomic tiller arm helps keep operators fresh with comfortable controls.
- 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.
- Advanced AC programmable controller lets users prioritise 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.
- The NPP20N2R, with a maximum speed of 6 km/h, is equipped with a foldable platform for occasional use when driving over longer distances.
- The double pallet handler, NPP16PD, can carry two pallets simultaneously (one above the other) for higher productivity with no need for wider passage space.

SAFETY AND 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 castor wheels ensure highest possible truck stability.
- The spacious platform of the NPP20N2R, with suspension for a comfortable ride, is easy to get on and off, and also offers good ground clearance.
- The NPP20N2E is equipped with lifting forks (735 mm height) that offer an ergonomic position for loading and unloading items with minimal physical strain.
- Patented 4-point Friction Force suspension on NPP16PD double pallet handler ensures constant drive wheel pressure on uneven surfaces, for greater stability, traction and control of steering.
- Offset tiller arm on NPP16PD double pallet handler allows operator to walk alongside and improves visibility.

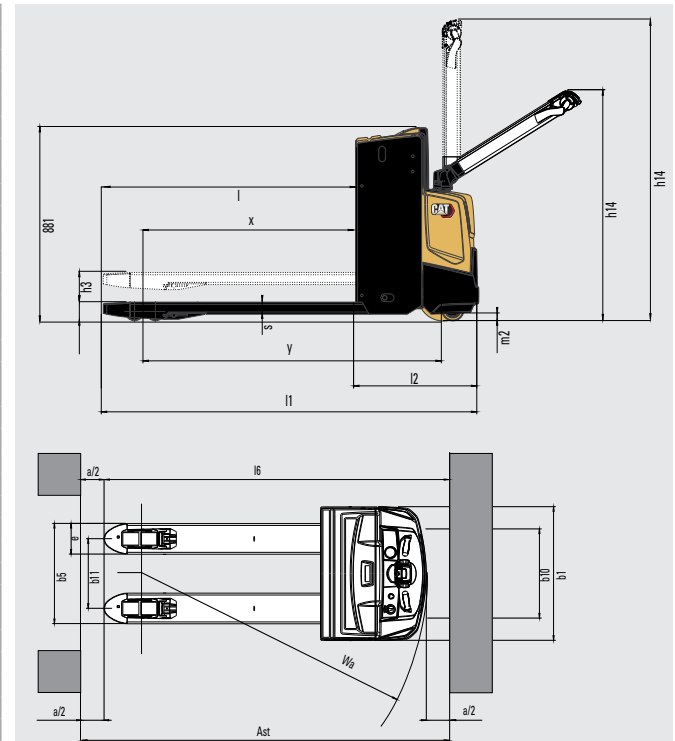


STANDARD EQUIPMENT AND OPTIONS

	NPP16N2	NPP18N2	NPP20N2	NPP16PD	NPP20N2R	NPP20N2E
GENERAL						
LED battery discharge indicator, no hour meter	●	●	●	—	●	●
Micro-computer incl. hour meter and battery indicator with cutout (ATC T4)	—	—	—	●	—	—
PIN code login 100 codes	—	—	—	●	—	—
PIN code login 4 codes	○	○	○	—	○	○
Offset tiller arm with display and keypad	—	—	—	●	—	—
Chill store design, down to 1°C, with rust-protected axles	—	—	—	●	—	—
Electric on/off valve for lifting and lowering, controlled by rocker switch on tiller head	●	●	●	●	●	●
Polyurethane drive wheel or rubber	—	—	—	●	—	—
Initial lift	—	—	—	●	—	●
Single or tandem load wheels Polyurethane	●	●	●	●	●	●
Li-ion batteries	—	—	—	○	—	—
ENVIRONMENT						
Cold store design, 0C° to -35C°	○	○	○	○	○	○
Hot operating condition modification, >30C°	○	○	○	—	○	○
DRIVE AND LIFT CONTROLS						
Heavy duty tiller head - with key switch entry	—	—	—	○	—	—
Tiller in line with chassis contour	—	—	—	○	—	—
Tiller up drive	●	●	●	○	●	●
Fingertip levers on tiller arm, lift & lowering	○	○	○	●	○	○
WHEEL OPTIONS						
Polyurethane traction and load wheels	●	●	●	●	●	●
Power friction traction wheel	○	○	○	○	○	○
Tandem Polyurethane load wheels	○	●	●	●	●	●
Single Polyurethane load wheels	○	●	●	●	●	●
Non-marking drive wheel	—	—	—	○	—	—
Anti-static drive wheel	—	—	—	○	—	—
OTHER OPTIONS						
Rubber foot protection	—	—	—	○	—	—
Diselectric band	—	—	—	○	—	—
Key switch	●	●	●	—	●	●
Capacity 2000kg on straddles	—	—	—	○	—	—
Piezo buzzer instead of standard horn	—	—	—	○	—	—
Load backrest	○	○	○	○	○	○
Special RAL colour	○	○	○	○	○	○
Inbuilt charger 30A	○	○	○	—	○	○
Sideways battery change, 250Ah and 375Ah battery only	—	○	○	—	○	—
Battery changing device	—	○	○	—	○	—
Accessory rack	○	○	○	—	○	○
Working light	○	○	○	—	○	○

● Standard ○ Option

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 centre 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	1424	1424
2.0 Weight					
2.1	Truck weight without load, with maximum battery weight	kg	431	502	634
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side	kg	635 / 1396	806 / 1496	864 / 1770
2.3	Axle loadings without load & with maximum battery weight, drive / load side	kg	332 / 99	381 / 121	475 / 159
3.0 Wheels, Drive Train					
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side		Vul / Vul	Vul / Vul	Vul / Vul
3.2	Tyre dimensions, drive side	(mm)	230 x 70	230 x 70	230 x 70
3.3	Tyre 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)		2 + 1x / 2	2 + 1 x / 4	2 + 1 x / 4
3.6	Track width (centre of tyres), drive side	b10 (mm)	480	480	480
3.7	Track width (centre of tyres), load side	b11 (mm)	355 / 375 / 495	355 / 375 / 495	355 / 375 / 495
4.0 Dimensions					
4.2a	Height	h1 (mm)			
4.3	Free lift	h2 (mm)			
4.4	Lift height	h3 (mm)	135	135	135
4.5	Height with mast extended	h4 (mm)			
4.6	Initial lift	h5 (mm)	-	-	-
4.8	Seat or stand height	h7 (mm)	-	-	-
4.9	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 (minimum / maximum)	b5 (mm)	520 / 540 / 660	520 / 540 / 660	520 / 540 / 660
4.32	Ground clearance at centre 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)	1694	1758	1758
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast (mm)			
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3 (mm)			
4.34c	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast (mm)	1894	1958	1958
4.35	Turning radius	Wa (mm)	1454	1518	1518
5.0 Performance					
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	0.035 / 0.045	0.04 / 0.06
5.3	Lowering speed, with / without load	m / s	0.05 / 0.05	0.05 / 0.05	0.05 / 0.05
5.7	Gradeability, with / without load	%	10.0 / 20.0	10.0 / 20.0	10.0 / 20.0
5.9	Acceleration time (10 metres) with / without load	s			
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)		Electric	Electric	Electric
6.0 Electric motors					
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
6.3	Battery to DIN				
6.4	Battery voltage/capacity at 5-hour discharge	V / Ah	24 / 150	24 / 250	24 / 250 - 375 ¹⁾
6.5	Battery weight	kg	151	212	212-294
8.0 Miscellaneous					
8.1	Type of drive control		Stepless	Stepless	Stepless
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)			
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
10.7.2	Whole-body vibration (EN 13 059:2002)		-	-	-
10.7.3	Hand-arm vibration (EN 13 059:2002)		< 2.5	< 2.5	< 2.5

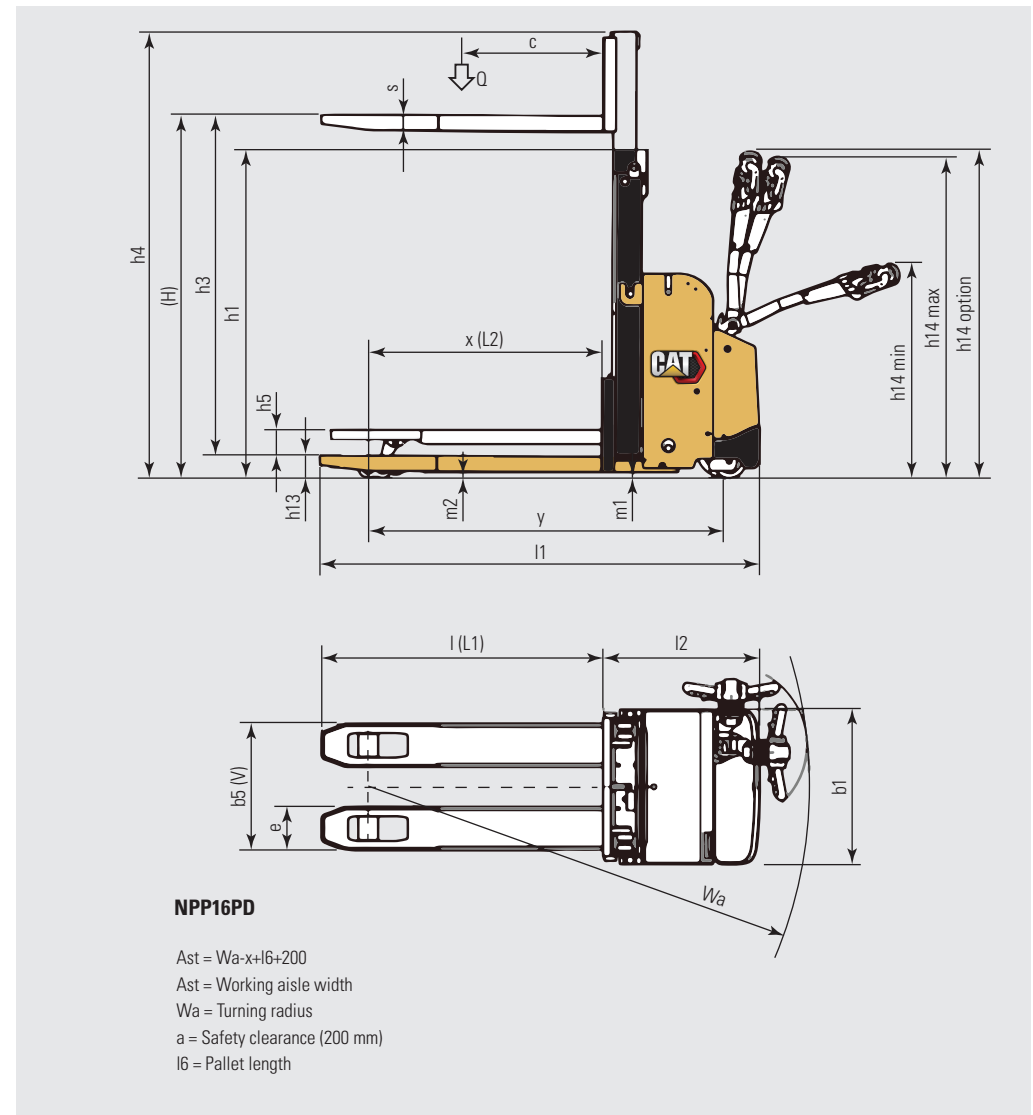


NPP16/18/20N2

Ast = $Wa - x + l6 + 200$
 Ast = Working aisle width
 Wa = Turning radius
 a = Safety clearance (200 mm)
 l6 = Pallet length

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

Characteristics			
1.1	Manufacturer		Cat Lift Trucks
1.2	Manufacturer's model designation		NPP16PD
1.3	Power source		Battery
1.4	Operator type		Pedestrian
1.5	Load capacity	Q (kg)	1600 / 800 + 800
1.6	Load centre distance	c (mm)	600
1.8	Load wheel axle to fork face (forks lowered)	x (mm)	990
1.9	Wheelbase	y (mm)	1510
2.0 Weight			
2.1	Truck weight without load, with maximum battery weight	kg	800
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side	kg	990 / 1410
2.3	Axle loadings without load & with maximum battery weight, drive / load side	kg	590 / 210
3.0 Wheels, Drive Train			
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side		Vul / Vul
3.2	Tyre dimensions, drive side	(mm)	230 x 70
3.3	Tyre dimensions, load side	(mm)	85 x 99
3.4	Castor wheel dimensions (diameter x width)	(mm)	140 x 60
3.5	Number of wheels, load / drive side (x = driven)		1 x + 1 / 4
3.6	Track width (centre of tyres), drive side	b10 (mm)	382
3.7	Track width (centre of tyres), load side	b11 (mm)	355
4.0 Dimensions			
4.2a	Height with mast lowered	h1 (mm)	1400 / 1550
4.3	Free lift	h2 (mm)	-
4.4	Lift height	h3 (mm)	1700 / 2000
4.5	Height with mast extended	h4 (mm)	2145 / 2445
4.6	Initial lift	h5 (mm)	120
4.8	Seat or stand height	h7 (mm)	
4.9	Height of tiller arm / steering console (min/max)	h14 (mm)	913 / 1368
4.15	Fork height, fully lowered	h13 (mm)	90
4.19	Overall length	l1 (mm)	1864
4.20	Length to fork face	l2 (mm)	664
4.21	Overall width	b1/b2 (mm)	660
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)	65 / 185 / 1200
4.25	Outside width over forks (minimum / maximum)	b5 (mm)	540
4.32	Ground clearance at centre of wheelbase, (forks lowered)	m2 (mm)	25
4.33c	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast (mm)	NA
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast (mm)	2532
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3 (mm)	2290
4.34c	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast (mm)	
4.35	Turning radius	Wa (mm)	1880
5.0 Performance			
5.1	Travel speed, with / without load	km / h	5.6 / 6
5.2	Lifting speed, with / without load	m / s	0.10 / 0.20
5.3	Lowering speed, with / without load	m / s	0.12 / 0.12
5.7	Gradeability, with / without load	%	6 / 19
5.9	Acceleration time (10 metres) with / without load	s	7.94 / 6.76
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)		Electric
6.0 Electric motors			
6.1	Drive motor capacity (60 min. short duty)	kW	1.3
6.2	Lift motor output at 15% duty factor	kW	2.35
6.3	Battery to DIN		no
6.4	Battery voltage/capacity at 5-hour discharge	V / Ah	24 / 150 - 230
6.5	Battery weight	kg	140 - 215
8.0 Miscellaneous			
8.1	Type of drive control		Stepless
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)	74.6 +/- 0.7
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)	
10.7.2	Whole-body vibration (EN 13 059:2002)		
10.7.3	Hand-arm vibration (EN 13 059:2002)		



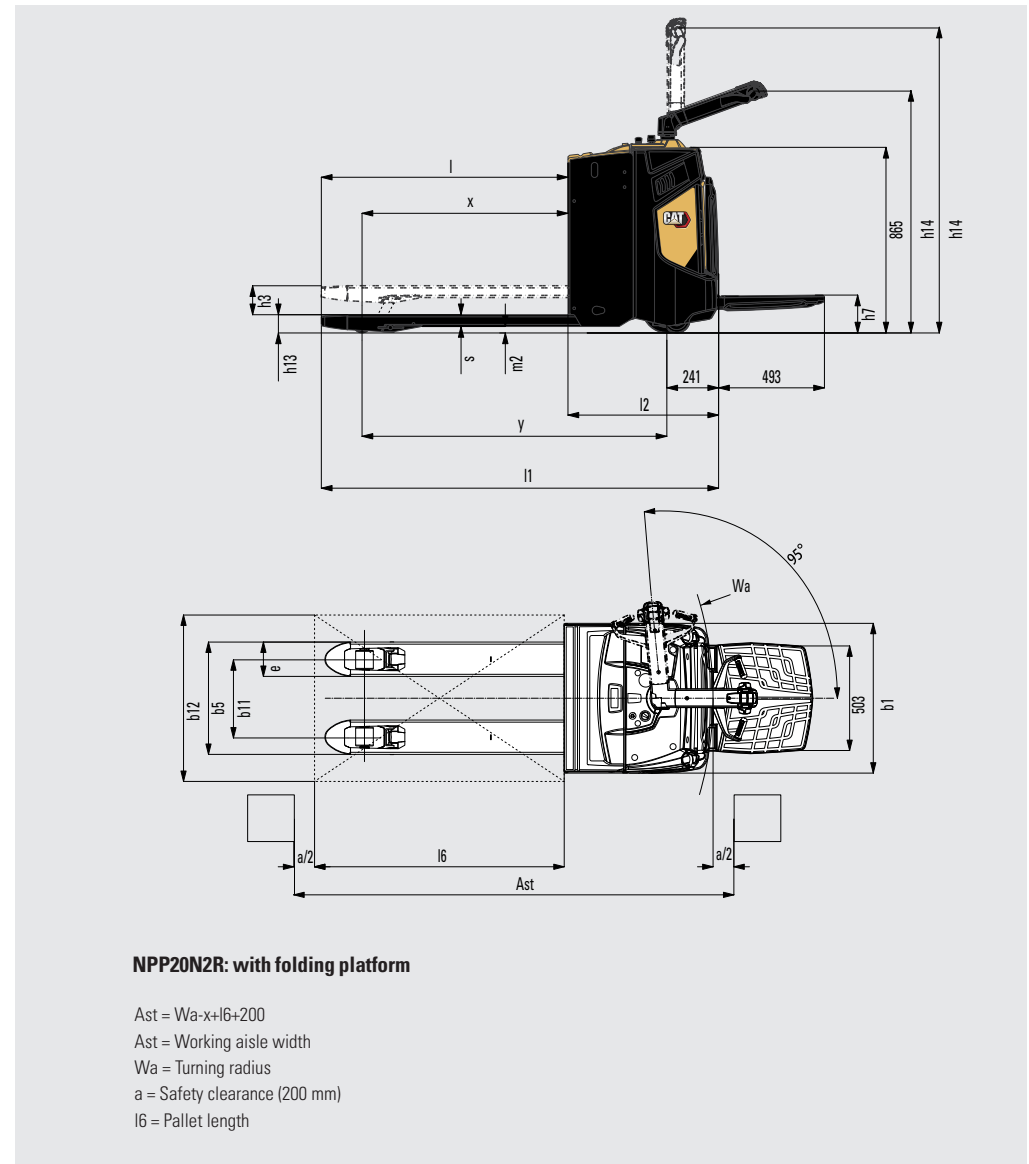
Mast Performance and Capacity

- h1 Height with mast lowered
- h2 Standard free lift
- h3 Lift height
- h4 Height with mast raised
- h5 Full free lift
- Q Lifting capacity, rated load
- c Load centre (distance)

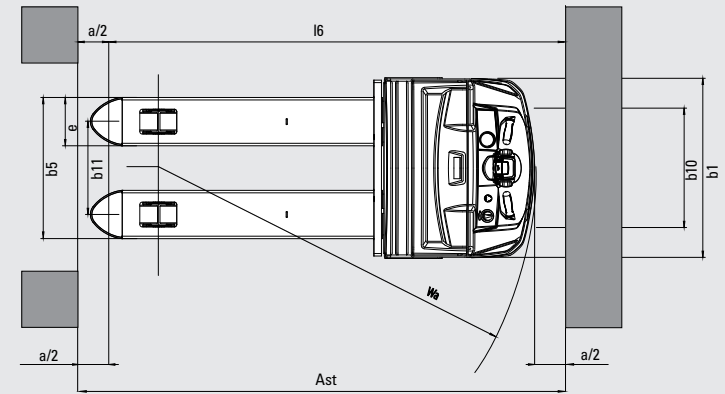
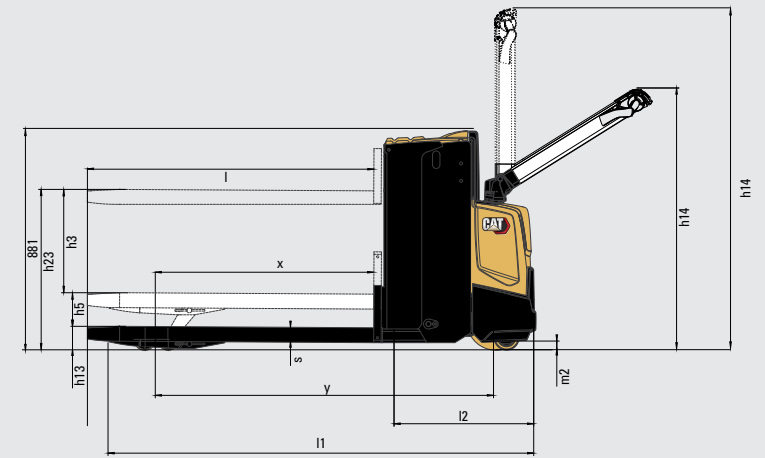
NPP16PD			
Mast Type	h3+h13 mm	h1* mm	h2+h13 mm
Duplex Without Free Lift (DS)	1790	1400	NA
	2090	1550	NA

* h1 closed mast height includes polycarbonate finger protection. Mast height excl. Finger protection is 1343mm / 1493mm

Characteristics			
1.1	Manufacturer		Cat Lift Trucks
1.2	Manufacturer's model designation		NPP20N2R
1.3	Power source		Battery
1.4	Operator type		Pedestrian / Stand-on
1.5	Load capacity	Q (kg)	2000
1.6	Load centre distance	c (mm)	600
1.8	Load wheel axle to fork face (forks lowered)	x (mm)	960
1.9	Wheelbase	y (mm)	1421
2.0 Weight			
2.1	Truck weight without load, with maximum battery weight	kg	595
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side	kg	890 / 1705
2.3	Axle loadings without load & with maximum battery weight, drive / load side	kg	470 / 125
3.0 Wheels, Drive Train			
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side		Vul / Vul
3.2	Tyre dimensions, drive side	(mm)	230 x 70
3.3	Tyre dimensions, load side	(mm)	85 x 75
3.4	Castor wheel dimensions (diameter x width)	(mm)	125 x 55
3.5	Number of wheels, load / drive side (x = driven)		2 + 1 x / 4
3.6	Track width (centre of tyres), drive side	b10 (mm)	480
3.7	Track width (centre of tyres), load side	b11 (mm)	375
4.0 Dimensions			
4.4	Lift height	h3 (mm)	135
4.6	Initial lift	h5 (mm)	-
4.8	Seat or stand height	h7 (mm)	172
4.9	Height of tiller arm / steering console (min/max)	h14 (mm)	1180 / 1350
4.15	Fork height, fully lowered	h13 (mm)	85
4.19	Overall length	l1 (mm)	1854 / 2346
4.20	Length to fork face	l2 (mm)	702 / 1195
4.21	Overall width	b1/b2 (mm)	720
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)	50 / 165 / 1150
4.25	Outside width over forks (minimum / maximum)	b5 (mm)	540
4.32	Ground clearance at centre of wheelbase, (forks lowered)	m2 (mm)	30
4.33c	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast (mm)	1920 / 2400
4.34c	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast (mm)	2120 / 2600
4.35	Turning radius	Wa (mm)	1680 / 2160
5.0 Performance			
5.1	Travel speed, with / without load	km / h	6.0 / 6.0
5.2	Lifting speed, with / without load	m / s	0.03 / 0.05
5.3	Lowering speed, with / without load	m / s	0.07 / 0.08
5.7	Gradeability, with / without load	%	9.0 / 20.0
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)		Electric
6.0 Electric motors			
6.1	Drive motor capacity (60 min. short duty)	kW	1.0
6.2	Lift motor output at 15% duty factor	kW	1.2
6.4	Battery voltage/capacity at 5-hour discharge	V / Ah	24 / 250 - 375 1)
6.5	Battery weight	kg	212-294
8.0 Miscellaneous			
8.1	Type of drive control		Stepless
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)	63 / 78 / 0
10.7.2	Whole-body vibration (EN 13 059:2002)		0.9
10.7.3	Hand-arm vibration (EN 13 059:2002)		< 2.5



Characteristics			
1.1	Manufacturer		Cat Lift Trucks
1.2	Manufacturer's model designation		NPP20N2E
1.3	Power source		Battery
1.4	Operator type		Pedestrian
1.5	Load capacity	Q (kg)	2000 / 700
1.6	Load centre distance	c (mm)	600
1.8	Load wheel axle to fork face (forks lowered)	x (mm)	875
1.9	Wheelbase	y (mm)	1509
2.0 Weight			
2.1	Truck weight without load, with maximum battery weight	kg	579
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side	kg	770 / 1809
2.3	Axle loadings without load & with maximum battery weight, drive / load side	kg	419 / 160
3.0 Wheels, Drive Train			
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side		Vul / Vul
3.2	Tyre dimensions, drive side	(mm)	230 x 70
3.3	Tyre dimensions, load side	(mm)	85 x 75
3.4	Castor wheel dimensions (diameter x width)	(mm)	100 x 40
3.5	Number of wheels, load / drive side (x = driven)		2 + 1 x / 4
3.6	Track width (centre of tyres), drive side	b10 (mm)	480
3.7	Track width (centre of tyres), load side	b11 (mm)	375
4.0 Dimensions			
4.4	Lift height	h3 (mm)	135 / 735
4.6	Initial lift	h5 (mm)	135
4.8	Seat or stand height	h7 (mm)	-
4.9	Height of tiller arm / steering console (min/max)	h14 (mm)	1050 / 1372
4.15	Fork height, fully lowered	h13 (mm)	90
4.19	Overall length	l1 (mm)	1780
4.20	Length to fork face	l2 (mm)	653
4.21	Overall width	b1/b2 (mm)	720
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)	50 / 195 / 1150
4.25	Outside width over forks (minimum / maximum)	b5 (mm)	570
4.32	Ground clearance at centre of wheelbase, (forks lowered)	m2 (mm)	30
4.33c	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast (mm)	1874
4.34c	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast (mm)	2074
4.35	Turning radius	Wa (mm)	1526
5.0 Performance			
5.1	Travel speed, with / without load	km / h	6.0 / 6.0
5.2	Lifting speed, with / without load	m / s	0.11 / 0.14
5.3	Lowering speed, with / without load	m / s	0.13 / 0.12
5.7	Gradeability, with / without load	%	9.0 / 20.0
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)		Electric
6.0 Electric motors			
6.1	Drive motor capacity (60 min. short duty)	kW	1.0
6.2	Lift motor output at 15% duty factor	kW	1.2
6.3	Battery to DIN		
6.4	Battery voltage/capacity at 5-hour discharge	V / Ah	24 / 150
6.5	Battery weight	kg	151
8.0 Miscellaneous			
8.1	Type of drive control		Stepless
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)	59 / 60 / 0
10.7.2	Whole-body vibration (EN 13 059:2002)		-
10.7.3	Hand-arm vibration (EN 13 059:2002)		< 2.5



NPP20N2E: with lifting forks

Ast = $Wa - x + l6 + 200$

Ast = Working aisle width

Wa = Turning radius

a = Safety clearance (200 mm)

l6 = Pallet length

LI-ION BATTERIES

CONSIDER THE BENEFITS OF LI-ION BATTERY TECHNOLOGY ON THE NPP16PD MODEL



Lithium-ion (Li-ion) battery technology is now available as an option in almost all Cat® electric counterbalance and warehouse truck ranges. While lead-acid batteries remain a popular choice for our customers, and still have much to offer, they present various challenges which Li-ion can overcome.

Perhaps the most noticeable change when switching to Li-ion is the use of opportunity charging. Instead of exchanging batteries between shifts, you can simply plug into a fast charger during short breaks and keep the same battery going 24/7. This, together with other efficiency, environmental and safety benefits, makes Li-ion a very appealing alternative.



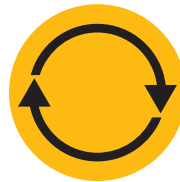
LONGER LIFE



HIGHER EFFICIENCY



LONGER RUNTIME



CONSISTENT PERFORMANCE



FASTER CHARGING



NO BATTERY CHANGING



NO DAILY MAINTENANCE



INBUILT PROTECTION

Cat Li-ion advantages over lead-acid

Switching to Li-ion requires a higher initial investment, but this should be viewed against Li-ion's ongoing savings on energy, equipment, labour and downtime.

- **Longer life** – 3 to 4 times lead-acid lifespan – reduces overall battery investment
- **Higher efficiency** – energy losses during charging and discharging are up to 30% lower, so electricity consumption is reduced
- **Longer runtime** – thanks to more efficient battery performance and use of opportunity charges, which can be given at any time without damaging the battery or shortening its lifespan
- **Consistently high performance** – with a more constant voltage curve – maintains greater truck productivity, even toward the end of a shift
- **Faster charging** – enables full charge in as little as 1 hour with the fastest chargers
- **No battery changing** – fast opportunity charges – 15 minutes for several hours of extra runtime – enable continuous operation with just one battery and minimise the need to buy, store and maintain spares
- **No daily maintenance** – the battery stays on board the truck for charging and there is no need for water top-ups or electrolyte checks
- **No gas** – or acid spills – avoids the space, equipment and running costs of a battery room and ventilation system
- **Inbuilt protection** – intelligent battery management system (BMS) automatically prevents excessive discharge, charge, voltage and temperature, as well as virtually eliminating misuse

Batteries and chargers with different capacities are available. Your dealer will identify the best combination for your needs. You should also ask your dealer about optional 5-year warranties, subject to annual check-ups, which give extra peace of mind.

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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.



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