PEDESTRIAN POWER PALLET TRUCKS

NPP16-20N3(R)(E)

1.2 - 2.0 TONS

CAT® Lift Trucks

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 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 goods vehicle. The NPP18N3 and NPP20N3 add greater capacity for heavier loads and more intensive work.

The NPP20N3R is equipped with a foldable platform for occasional use when driving over longer distances. The spacious platform of the NPP20N3R, with suspension for a comfortable ride, is easy to get on and off, and also offers good ground clearance.

The NPP20N3E is equipped with lifting forks (730mm 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

- 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 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.
- Distance of the fork support wheels from the rear frame has been optimised for increased stability.
- The NPP20N3R, with a maximum speed of 6 km/h, is equipped with a foldable platform for occasional use when driving over longer distances.

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 NPP20N3R, with suspension for a comfortable ride, is easy to get on and off, and also offers good ground clearance.
- The NPP20N3E is equipped with lifting forks (730 mm height) that offer an ergonomic position for loading and unloading items with minimal physical strain.

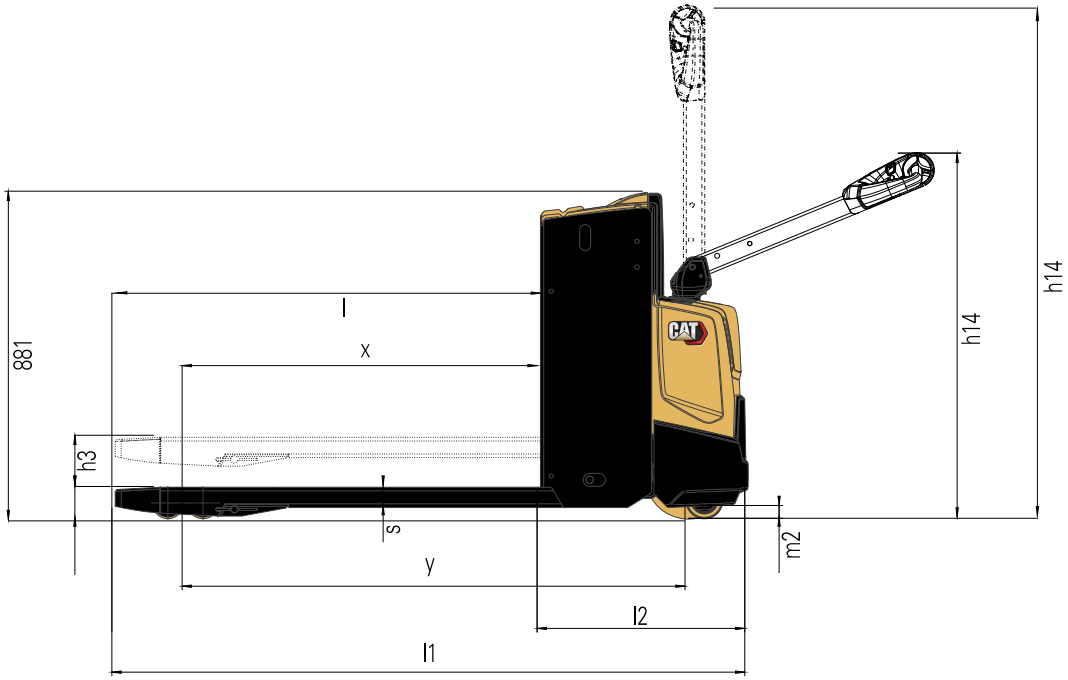
SPECIFICATIONS

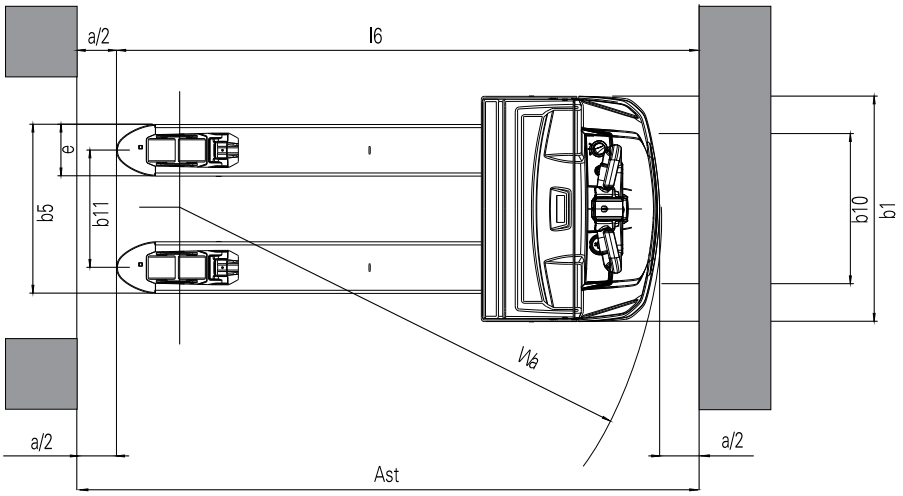
	Characteristics			Cat® Lift Trucks NPP16N3	Cat Lift Trucks NPP18N3
1.1	Manufacturer				
1.2	Manufacturer's model designation				
1.3	Power source			Battery	Battery
1.4	Operator type			Pedestrian	Pedestrian
1.5	Load capacity	Q	(kg)	1600	1800
1.6	Load centre distance	c	(mm)	600	600
1.7	Load wheel axle to fork face (forks lowered)	x	(mm)	960	960
1.8	Wheelbase	y	(mm)	1360	1425
	Weight				
2.1	Truck weight without load, with maximum battery weight		kg	430	500
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	745 / 1290	805 / 1495
2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg	340 / 90	380 / 120
	Wheels, Drive Train				
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			Vul / Vul	Vul / Vul
3.2	Tyre dimensions, drive side		(mm)	230 x 70	230 x 70
3.3	Tyre dimensions, load side		(mm)	85 x 90	85 x 75
3.4	Castor wheel dimensions (diameter x width)		(mm)	100 x 40	100 x 40
3.5	Number of wheels, load / drive side (x = driven)			2 + 1x / 2	2 + 1 x / 4
3.6	Track width (centre of tyres), drive side	b10	(mm)	480	480
3.7	Track width (centre of tyres), load side	b11	(mm)	375	375
	Dimensions				
4.1	Height	h1	(mm)	-	-
4.2	Free lift	h2	(mm)	-	-
4.3	Lift height	h3	(mm)	135	135
4.4	Height with mast extended	h4	(mm)	-	-
4.5	Initial lift	h5	(mm)	-	-
4.6	Seat or stand height	h7	(mm)	-	-
4.7	Height of tiller arm / steering console (min/max)	h14	(mm)	865 / 1420	865 / 1420
4.8	Fork height, fully lowered	h13	(mm)	85	85
4.9	Overall length	l1	(mm)	1650	1710
4.10	Length to fork face	l2	(mm)	500	560
4.11	Overall width	b1/b2	(mm)	720	720
4.12	Fork dimensions (thickness, width, length)	s / e / l	(mm)	55 / 165 / 1150	55 / 165 / 1150
4.13	Outside width over forks (minimum / maximum)	b5	(mm)	540	540
4.14	Ground clearance at centre of wheelbase, (forks lowered)	m2	(mm)	30	30
4.15	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast	(mm)	2339	2475
4.16	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	(mm)	-	-
4.17	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3	(mm)	-	-
4.18	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast	(mm)	2176	2281
4.19	Turning radius	Wa	(mm)	1510	1551
	Performance				
5.1	Travel speed, with / without load		km / h	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
5.3	Lowering speed, with / without load		m / s	0.05 / 0.05	0.06 / 0.042
5.4	Gradeability, with / without load		%	10.0 / 20.0	10.0 / 20.0
5.5	Acceleration time (10 metres) with / without load		s		
5.6	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric	Electric
	Electric motors				
6.1	Drive motor capacity (60 min. short duty)		kW	1.0	1.0
6.2	Lift motor output at 15% duty factor		kW	0.8	0.8
6.3	Battery to DIN			-	-
6.4	Battery voltage/capacity at 5-hour discharge		V / Ah	24 / 150	24 / 250
6.5	Battery weight		kg	150	210
6.6	Energy consumption according to EN16796		kWh / h	0.23	0.26
	Miscellaneous				
1.1	Type of drive control			Stepless	Stepless
7.2	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)	-	-
7.3	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
7.4	Whole-body vibration (EN 13 059:2002)			-	-
7.5	Hand-arm vibration (EN 13 059:2002)			< 2.5	< 2.5

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

NPP16/18/20N3

Cat Lift Trucks
NPP20N3
Battery
Pedestrian
2000
600
960
1425
500
840 / 1660
380 / 120
Vul / Vul
230 x 70
85 x 75
100 x 40
2 + 1 x / 4
480
375
-
-
135
-
-
-
865 / 1420
85
1710
560
720
55 / 165 / 1150
540
30
2472
-
-
2281
1551
6.0 / 6.0
0.04 / 0.05
0.05 / 0.06
10.0 / 20.0
Electric
1.0
1.2
-
24 / 250 - 375 [1)]
210
0.26
Stepless
-
65 / 67 / 0
-
< 2.5





NPP16/18/20N3

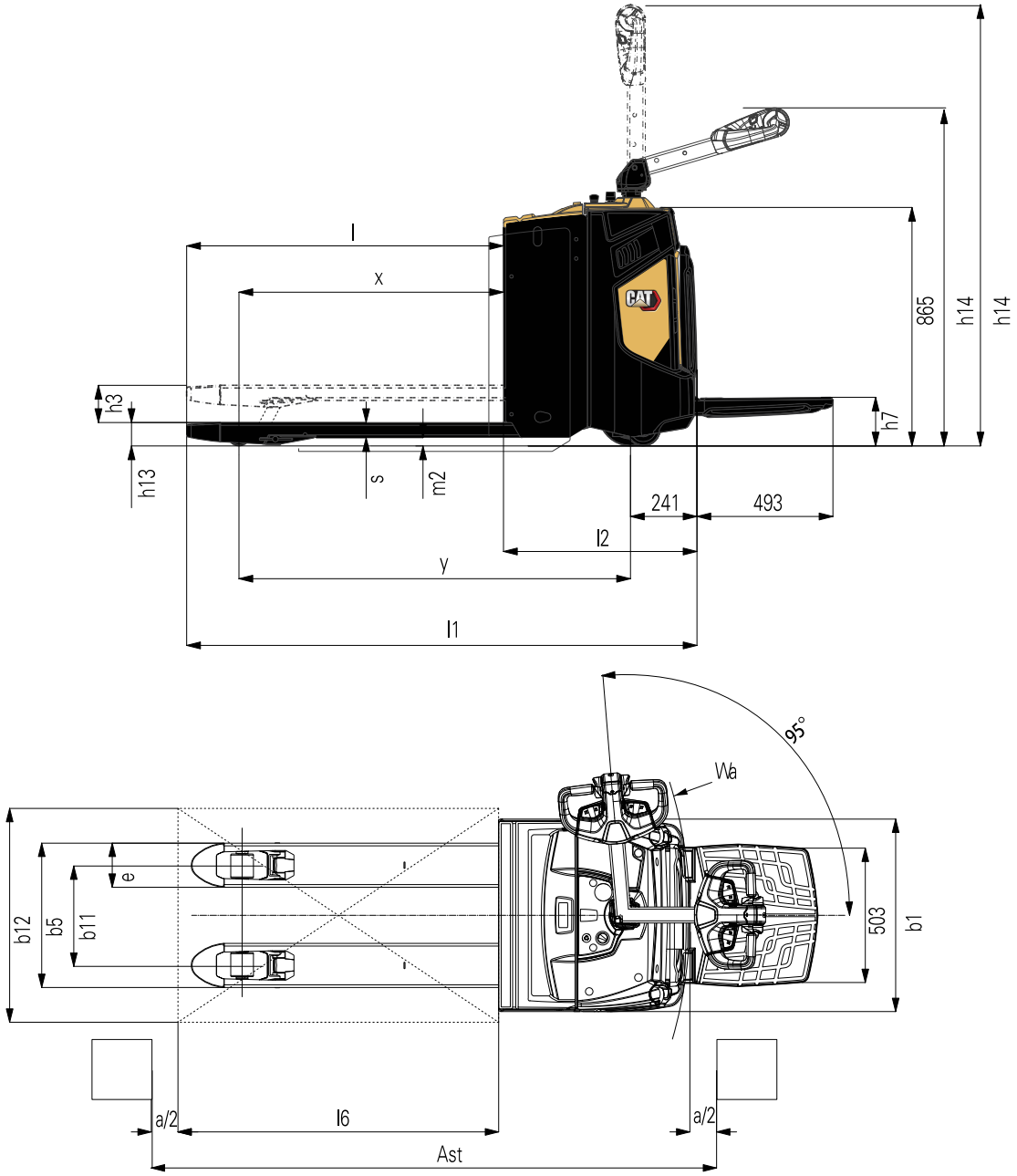
Ast = Wa-x+l6+200
Ast = Working aisle width
Wa = Turning radius
a = Safety clearance (200 mm)
l6 = Pallet length

SPECIFICATIONS

	Characteristics			
1.1	Manufacturer			**Cat Lift Trucks**
1.2	Manufacturer's model designation			**NPP20N3R**
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
1.7	Load wheel axle to fork face (forks lowered)	x	(mm)	960
1.8	Wheelbase	y	(mm)	1420
	Weight			
2.1	Truck weight without load, with maximum battery weight		kg	640
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	950 / 1710
2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg	505 / 135
	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
	Dimensions			
4.1	Lift height	h3	(mm)	135
4.2	Initial lift	h5	(mm)	-
4.3	Seat or stand height	h7	(mm)	-
4.4	Height of tiller arm / steering console (min/max)	h14	(mm)	1155 / 1550
4.5	Fork height, fully lowered	h13	(mm)	85
4.6	Overall length	l1	(mm)	1850 / 2345
4.7	Length to fork face	l2	(mm)	700 / 1195
4.8	Overall width	b1/b2	(mm)	720
4.9	Fork dimensions (thickness, width, length)	s / e / l	(mm)	50 / 165 / 1150
4.10	Outside width over forks (minimum / maximum)	b5	(mm)	540
4.11	Ground clearance at centre of wheelbase, (forks lowered)	m2	(mm)	30
4.12	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast	(mm)	2504 / 2984
4.13	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast	(mm)	2416 / 2896
4.14	Turning radius	Wa	(mm)	1680 / 2160
	Performance			
5.1	Travel speed, with / without load		km / h	6.0 / 6.0
5.2	Lifting speed, with / without load		m / s	0.04 / 0.04
5.3	Lowering speed, with / without load		m / s	0.05 / 0.06
5.4	Gradeability, with / without load		%	9.0 / 20.0
5.5	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric
	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 voltage/capacity at 5-hour discharge		V / Ah	24 / 250 - 375[1)]
6.4	Battery weight		kg	212-294
	Miscellaneous			
7.1	Type of drive control			Stepless
7.2	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)	60
7.3	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)	63/65
7.4	Whole-body vibration (EN 13 059:2002)			0.9
7.5	Hand-arm vibration (EN 13 059:2002)			< 2.5

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

NPP20N3R



NPP20N3R: with folding platform

Ast = Wa-x+l6+200

Ast = Working aisle width

Wa = Turning radius

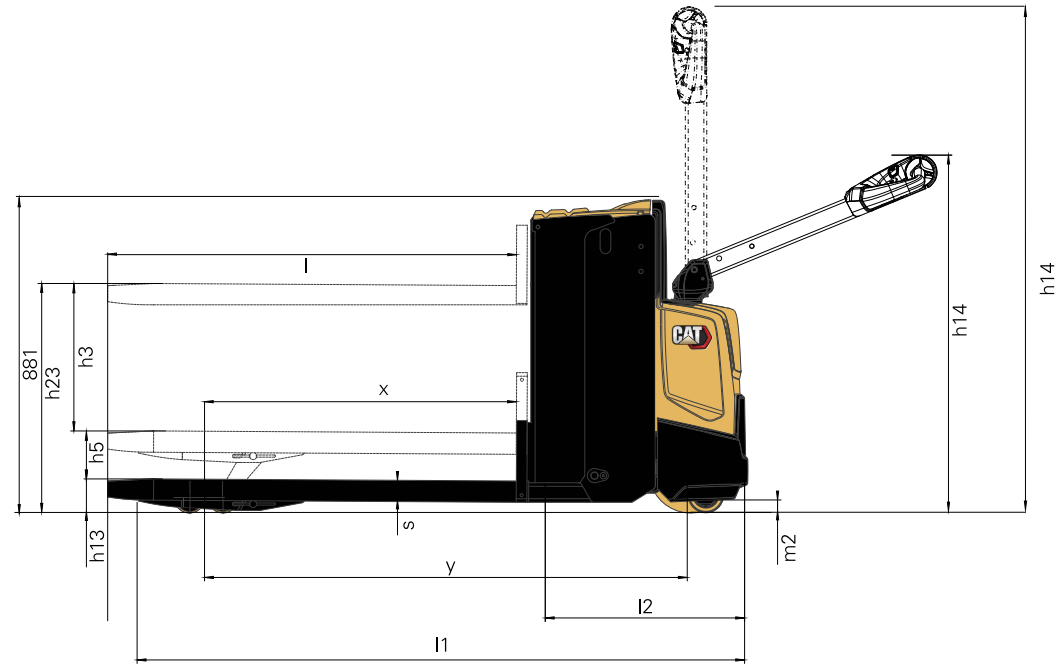
a = Safety clearance (200mm)

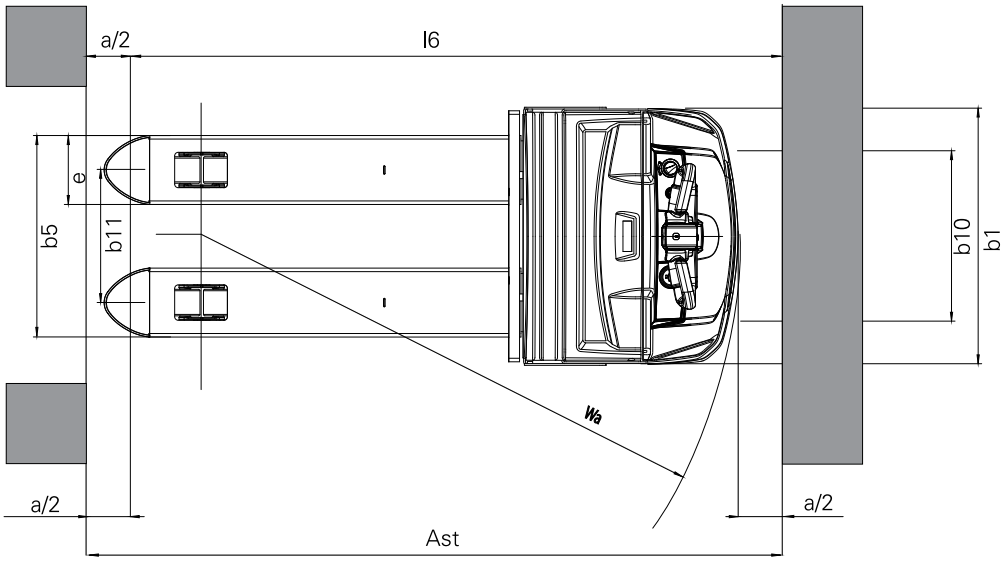
l6 = Pallet length

SPECIFICATIONS

	Characteristics			
1.1	Manufacturer			**Cat Lift Trucks**
1.2	Manufacturer's model designation			**NPP20N3E**
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
1.7	Load wheel axle to fork face (forks lowered)	x	(mm)	890
1.8	Wheelbase	y	(mm)	1425
	Weight			
2.1	Truck weight without load, with maximum battery weight		kg	585
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	435 / 150
2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg	420 / 160
	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
	Dimensions			
4.1	Lift height	h3	(mm)	135 / 645
4.2	Initial lift	h5	(mm)	-
4.3	Seat or stand height	h7	(mm)	-
4.4	Height of tiller arm / steering console (min/max)	h14	(mm)	865 / 1420
4.5	Fork height, fully lowered	h13	(mm)	85
4.6	Overall length	l1	(mm)	1780
4.7	Length to fork face	l2	(mm)	630
4.8	Overall width	b1/b2	(mm)	720
4.9	Fork dimensions (thickness, width, length)	s / e / l	(mm)	59 / 184 / 1150
4.10	Outside width over forks (minimum / maximum)	b5	(mm)	570
4.11	Ground clearance at centre of wheelbase, (forks lowered)	m2	(mm)	30
4.12	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast	(mm)	2365
4.13	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast	(mm)	2275
4.14	Turning radius	Wa	(mm)	1560
	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
5.4	Gradeability, with / without load		%	9.0 / 20.0
5.5	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric
	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
	Miscellaneous			
7.1	Type of drive control			Stepless
7.2	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)	64
7.3	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)	66/70
7.4	Whole-body vibration (EN 13 059:2002)			-
7.5	Hand-arm vibration (EN 13 059:2002)			< 2.5

NPP20N2E





NPP20N3E: with lifting forks

Ast = Wa-x+l6+200

Ast = Working aisle width

Wa = Turning radius

a = Safety clearance (200mm)

l6 = Pallet length

STANDARD EQUIPMENT AND OPTIONS

	NPP16N3
GENERAL	
LED battery discharge indicator, no hour meter	●
Micro-computer incl. hour meter and battery indicator with cut out	–
PIN code login 99 codes	–
PIN code login 4 codes	○
Offset tiller arm	–
Chill store design, down to -10°C, with rust-protected axles	–
Speed regulated lifting and proportional valve for lowering, controlled by rocker switch on tiller head	–
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	●
ENVIRONMENT	
Cold store design, 0°C to -35°C	○
Hot operating condition modification, >30°C	○
DRIVE AND LIFT CONTROLS	
Tiller up drive	●
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	○
Pallet entry and exit rollers	○
Special RAL colour	○
Inbuilt charger 30A	○
Sideways battery change, 250Ah and 375Ah battery only	–
Battery changing device	–
Accessory rack	○
Working light	○
Multi function display	–
Battery creep	–
Battery level audible warning	–
Service alarm	–
Automatic log off	–
Revert to low speed at log off	–

● **Standard** ○ **Option**

NPP18N3	NPP20N3	NPP20N3R	NPP20N3E
●	●	●	●
–	–	–	–
–	–	–	–
○	○	○	○
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Cat Lift Trucks offer a complete range of durable lift trucks, from gasoline, LPG, diesel-powered and electric counterbalance lift trucks to warehouse equipment designed to handle your toughest applications. We know you demand uncompromising quality from lift trucks that maximize uptime and get the job done effciently. Our rugged machines deliver day after day by providing you with all the life-cycle cost of ownership benefits you've come to expect from Cat Lift Trucks.

LET'S DO THE WORK.™

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CAT® Lift Trucks