

NPV20N3D

NPF20N3DR

NPF20N3DS

SPECIFICATIONS

PLATFORM DOUBLE PALLET HANDLERS 24V, 2.0 TONNES



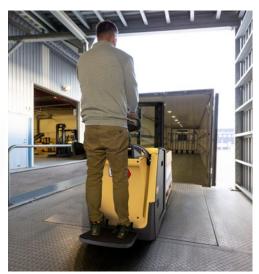
HOW TO WORK TWICE AS FAST

IT'S SIMPLE: CARRY TWO PALLET LOADS AT ONCE. OUR TIME-SAVING PLATFORM DOUBLE HANDLERS ARE IDEAL FOR INTENSIVE LORRY LOADING AND UNLOADING WITH DOUBLE-STACKED GOODS. THEY ALSO HALVE THE NUMBER OF MOVEMENTS IN CROSS-DOCKING AND INTERNAL TRANSPORT OVER ALL DISTANCES.











load on the straddle legs and one on the forks. With this arrangement, the truck remains compact and is highly manoeuvrable even in tight spaces.

Double handling is achieved by placing one pallet
Application-matched choices include a foldable platform or, if you prefer, an enclosed, fixed platform with side or rear entry. You can choose between three steering types, two maximum lift heights, lead-acid or Li-ion battery power, and many extra options.

All platforms are comfortably damped, but fixed versions also offer optional electric adjustment according to the operator's weight and preference. If his/her foot is outside the platform, an automatic safety option on rear-entry models slows or stops the truck.

Ergonomic advances include the ProRide+ system which simultaneously maximises traction, damping and stability, even on slippery, wet or irregular surfaces and when cornering. Meanwhile, the class-leading emPower tiller head's user-friendly operation, linked to your chosen steering technology, enables rapid, precisely controlled performance.

LOWER COST OF OPERATION

- Fully weather-protected and impact-resistant tiller head is sealed to IP65 standard and reinforced for high durability.
- Sealing of connectors, sensors and other key components combines with robust construction, protected display location, shock and accident resilience, long service intervals and fast access features – including removable motor cover – to reduce maintenance needs and improve uptime.
- Standard display includes BDI (battery discharge indicator) to help prevent damaging deep discharge and support optimal timing of battery changes.
- Multifunctional display option offers clear information on truck and battery condition, faults and actions, and enables setting of operator IDs and PIN code access to avoid unauthorised truck use.
- Compatibility of parts reduces stock-related costs for servicing of these and other Cat® trucks.

UNMATCHED PRODUCTIVITY

- Double pallet handling capability halves the number of transport movements required.
- Initial lift (210 mm) allows clearance under load and makes work easier on steep ramps and loading docks.
- Compact dimensions combine with easy, accurate handling to allow quick manoeuvring, even in tight spaces.
- Fully integrated Li-ion technology makes continuous operation possible, without battery changes, using fast opportunity charging during short breaks. (Both Li-ion and lead-acid versions are available.)
- Exceptional levels of comfort, control, traction and stability keep operators alert, confident and productive, however intense their workload.
- Three performance modes are selectable to suit individual users and applications: Pro for advanced operators and intensive operations; Eco to blend low energy consumption with high productivity; Easy for learners and sensitive goods handling. (These are only available with multifunctional display option.)
- Latest AC drive motor technology delivers higher torque and easier controllability, for top-class performance.
- Proportional lift/lower control via rocker buttons enables quick, smooth and fine-tuned fork movements.

SAFETY AND ERGONOMICS

- Unique ProRide+ system is a milestone advance in power pallet truck development which solves the age-old problem of how to combine effective traction, damping and stability.
- Unique floating drive unit design works with additional friction force from the hydraulic system to maximise drive wheel pressure and traction, so wheelspin on slippery floors is prevented and braking performance optimised.
- Unique patented castor wheel design uses variable damping to minimise shocks and vibration, even on rough surfaces, and features a locking function which maintains stability during turns, with or without loads.
- Best-in-class emPower ergonomic tiller head gives easier access to controls with a unique design that achieves the optimum distance between hand and lift/lower buttons.
- Ergonomically designed tiller head operating features include optimised handle shape and cross-section, large hand space, enlarged horn and lift/lower buttons, and an optimally angled throttle wheel with seven convenient finger positions.
- Dual throttle wheel controls allow easy reach with either hand and can be used accurately even when operator is wearing gloves.
- Tiller-type power steering via a short tiller arm features a hydraulic damper and works without physical connection to the drive wheel

 avoiding transmission of bumps, twists and turns, while enabling comfortable, controlled, precise manoeuvring. (Available on folding platform and rear-entry fixed platform models.)
- Comfort Steering via a tiller head without arm as on an electric scooter — maximises power-steered control and precision, with the aid of a damper, while avoiding shock, vibration, strain and fatigue in the operator's hands, wrists and arms. (Available on fixed platform models.)
- Mechanical steering option provides a long tiller arm for a simple, loweffort manoeuvring solution in less intense work environments.
 (Only available on folding platform models.)
- Electronic steering technology automatically adjusts sensitivity according to steered angle and truck speed, and gives resistance and feedback, for controlled travel and full confidence. (On power-steered trucks.)
- Cornering control automatically slows truck down when turning, to maintain safe motion. (On power-steered trucks.)

- High-comfort damping on both folding and fixed platforms minimises impacts on the knees, especially, and acts progressively with increasing operator weight, while ergonomic controls and steering further reduce effort and fatigue.
- Unique electrically adjustable damping option on fixed platform models is optimised for each operator's weight and preference at the touch of a button, providing a cost-effective increase in comfort.
- Overhead guard protects operator from falling goods. (Standard on fixed platform models with higher-lifting mast. Optional on all others.)
- Protective side bars on folding platform models are high-positioned, cushioned, comfortable, and shock-resistant, and are deployed quickly and simply – with one hand – to help avoid falls and defend against impacts.
- Fixed platform models give extra protection and comfort, with low step height and a choice of rear and side entry barrier designs.
- Optional foot protection system automatically slows/stops the truck if foot is outside platform. (Rear entry fixed platform models.)
- Rugged build includes compact but heavy-duty chassis, integrated bumper and cast-iron platform to resist deformation and protect the operator.

STANDARD EQUIPMENT AND OPTIONS

Micro-consopier with standard display incl. hour meter and battery indicator initial stradelic lift		NPV20N3D	NPF20N3DR	NPF20N3DS
Initial struddle lift	GENERAL			
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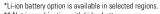
FULL LI-ION* BATTERY INTEGRATION

Full integration of Li-ion battery communication on Cat platform double pallet handlers enables all battery-related information to be presented clearly via the truck's inbuilt full-colour display.



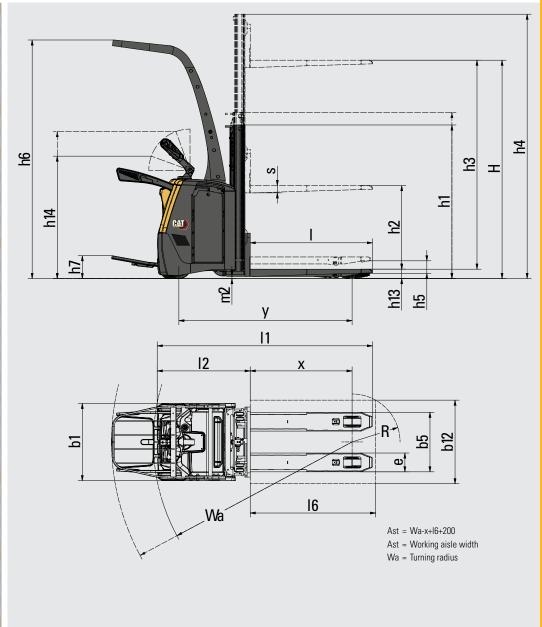
The class-leading, user-friendly emPower tiller head gives easy access to controls and enables rapid, precise operation.



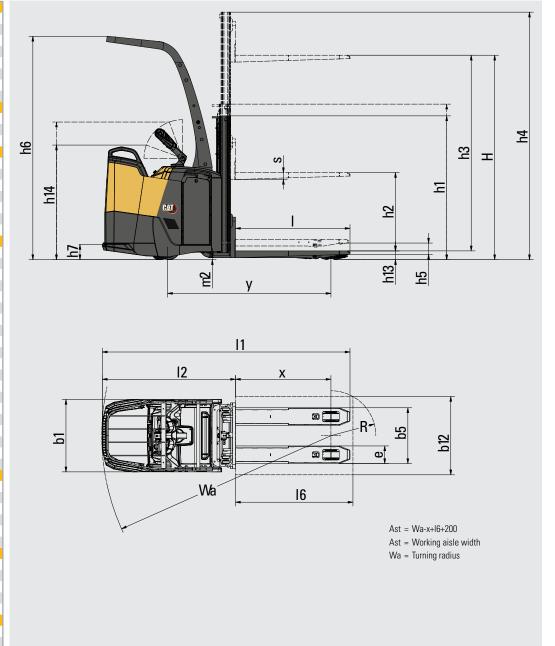


^{**} Not in combination with Li-lon battery

1.1	Characteristics Manufacturer			Cat Lift Trucks
.1	Manufacturer' Manufacturer's model designation			NPV20N3D
	Power source			Battery
1.4				Pedestrian/stand-o
	Operator type	Q	(kg)	
1.5	Load capacity Load centre distance	C	(mm)	2000 / 1000+100
1.6		X	(mm)	600
1.8	Load wheel axle to fork face (forks lowered)			975
1.9	Wheelbase	У	(mm)	1613
0.41	Weight		lun.	1050
2.1b	Truck weight without load, with maximum battery weight		kg	1050
2.2	Axle loadings with nominal load and maximum battery weight, drive/load side		kg	1230/1820
2.3	Axle loadings without load and with maximum battery weight, drive/load side		kg	780/270
	Wheels, Drive Train			
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side		, ,	Vulkollan
3.2	Tyre dimensions, drive side		(mm)	235 x 75
3.3	Tyre dimensions, load side		(mm)	85x75
3.4	Castor wheel dimensions (diameter x width)		(mm)	150 x 55
3.5	Number of wheels, load/drive side (x = driven)			4 / 1x + 2
3.6	Track width (centre of tyres), drive side	b10	(mm)	520
3.7	Track width (centre of tyres), load side	b11	(mm)	390
	Dimensions			
4.2a	Height with mast lowered	h1	(mm)	1320 / 1470
4.3	Free lift	h2	(mm)	0
4.4	Lift height	h3	(mm)	1700 / 2000
4.5	Height with mast extended	h4	(mm)	2170 / 2470
4.6	Initial lift	h5	(mm)	120
4.7	Height to top of overhead guard	h6	(mm)	2283
4.8	Seat or stand height	h7	(mm)	171
4.9	Height of tiller arm / steering console (min/max)	h14	(mm)	
4.10	Height of support legs	h8	(mm)	87
4.15	Fork height, fully lowered	h13	(mm)	90
4.19	Overall length	l1	(mm)	2142/2500
4.20	Length to fork face	12	(mm)	972/1330
4.21	Overall width	b1/b2	(mm)	740
4.22	Fork dimensions (thickness, width, length)	s/e/I	(mm)	70/180/1170
4.24	Fork carriage width	b3	(mm)	670
4.25	Outside width over forks (minimum/maximum)	b5	(mm)	570
4.32	Ground clearance at centre of wheelbase (forks lowered)	m2	(mm)	20-140
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	(mm)	
4.34c	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast	(mm)	2585/2943
4.35	Turning radius	Wa	(mm)	1902/2260
	Performance			
5.1	Travel speed, with/without load		km / h	10.0/10.0
5.2	Lifting speed, with/without load		m/s	0.22/0.43
5.3	Lowering speed, with/without load		m/s	0.50/0.53
5.7	Gradeability, with/without load		%	11.6/19.4
5.9	Acceleration time (10 metres) with/without load		s s	6.1/4.9
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)			Electric
J. 10	Electric motors			21000110
6.1	Drive motor capacity (60 min. short duty)		kW	2.4
6.4	Battery voltage/capacity at 5-hour discharge		V / Ah	24/222-400
6.5	Battery weight		kg	285-350
o.o 6.6a	Energy consumption according to EN16796	LA	Wh/h	200-300
6.6b	Energy consumption according to EN 10790 Energy consumption according to VDI 60 cycle		Wh/h	
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8.1	Miscellaneous Two of drive control			AC
	Type of drive control			AL AL

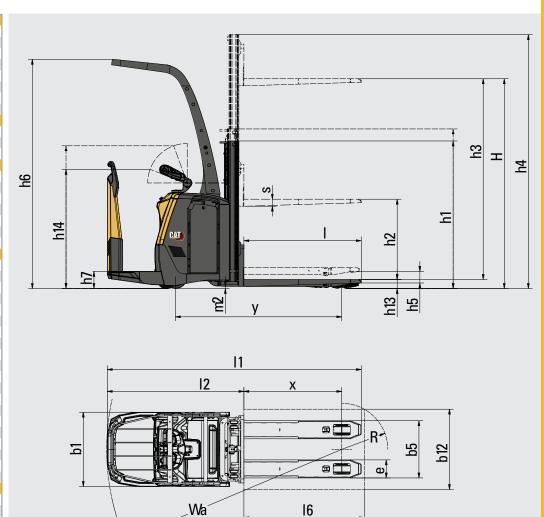


	Characteristics			
1.1	Manufacturer			Cat Lift Trucks
1.2	Manufacturer's model designation			NPF20N3DR
1.3	Power source			Battery
1.4	Operator type			Stand-on
1.5	Load capacity	Q	(kg)	2000 / 1000+1000
1.6	Load centre distance	С	(mm)	600
1.8	Load wheel axle to fork face (forks lowered)	х	(mm)	975
1.9	Wheelbase	у	(mm)	1613
	Weight			
2.1b	Truck weight without load, with maximum battery weight		kg	1220
2.2	Axle loadings with nominal load and maximum battery weight, drive/load side		kg	1400/1820
2.3	Axle loadings without load and with maximum battery weight, drive/load side		kg	960/260
	Wheels, Drive Train			
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side			Vulkollan
3.2	Tyre dimensions, drive side		(mm)	235 x 75
3.3	Tyre dimensions, load side		(mm)	85x75
3.4	Castor wheel dimensions (diameter x width)		(mm)	150 x 55
3.5	Number of wheels, load/drive side (x = driven)			4 / 1x + 2
3.6	Track width (centre of tyres), drive side	b10	(mm)	520
3.7	Track width (centre of tyres), load side	b11	(mm)	390
	Dimensions			
4.2a	Height with mast lowered	h1	(mm)	1320 / 1470
4.3	Free lift	h2	(mm)	0
4.4	Lift height	h3	(mm)	1700 / 2000
4.5	Height with mast extended	h4	(mm)	2170 / 2470
4.6	Initial lift	h5	(mm)	120
4.7	Height to top of overhead guard	h6	(mm)	2283
4.8	Seat or stand height	h7	(mm)	170
4.9	Height of tiller arm / steering console (min/max)	h14	(mm)	
4.10	Height of support legs	h8	(mm)	87
4.15	Fork height, fully lowered	h13	(mm)	90
4.19	Overall length	l1	(mm)	2532
4.20	Length to fork face	12	(mm)	1362
4.21	Overall width	b1/b2	(mm)	740
4.22	Fork dimensions (thickness, width, length)	s/e/l	(mm)	70/180/1170
4.24	Fork carriage width	b3	(mm)	670
4.25	Outside width over forks (minimum/maximum)	b5	(mm)	570
4.32	Ground clearance at centre of wheelbase (forks lowered)	m2	(mm)	20-140
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	(mm)	2980
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)	2292
	Performance			
5.1	Travel speed, with/without load		km/h	10.0/10.0
5.2	Lifting speed, with/without load		m/s	0.22/0.43
5.3	Lowering speed, with/without load		m/s	0.50/0.53
5.7	Gradeability, with/without load		%	11.6/17.5
5.9	Acceleration time (10 metres) with/without load		S	6.2/5.0
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)			Electric
	Electric motors			
6.1	Drive motor capacity (60 min. short duty)		kW	2.4
6.4	Battery voltage/capacity at 5-hour discharge		V / Ah	24/222-400
6.5	Battery weight		kg	285-350
6.6a	Energy consumption according to EN16796	k'	Wh/h	200 000
6.6b	Energy consumption according to EVV0/30 Energy consumption according to VDI 60 cycle		Wh/h	
0.00	Miscellaneous	K		
8.1	Type of drive control			AC
	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)	7.0



Ast = Wa-x+l6+200 Ast = Working aisle width Wa = Turning radius

1.1	Characteristics Manufacturer			0.4176.7
ı 2	Manufacturer's model designation			Cat Lift Trucks
	5			NPF20N3DS
.3	Power source			Battery
.4	Operator type	Q	(lea)	Stand-on
.5	Load capacity	C C	(kg)	2000 / 1000+100
1.6	Load centre distance		(mm)	600
1.8	Load wheel axle to fork face (forks lowered)	Х	(mm)	975
1.9	Wheelbase	У	(mm)	1613
	Weight		lun.	4000
2.1b	Truck weight without load, with maximum battery weight		kg	1220
2.2	Axle loadings with nominal load and maximum battery weight, drive/load side		kg	1400/1820
2.3	Axle loadings without load and with maximum battery weight, drive/load side		kg	960/260
0.4	Wheels, Drive Train			V II II
3.1	Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side		()	Vulkollan
3.2	Tyre dimensions, drive side		(mm)	235 x 75
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4.35	Turning radius	Wa	(mm)	2292
	Performance			
5.1	Travel speed, with/without load		km/h	10.0/10.0
5.2	Lifting speed, with/without load		m/s	0.22/0.43
5.3	Lowering speed, with/without load		m/s	0.50/0.53
5.7	Gradeability, with/without load		%	11.6/17.5
5.9	Acceleration time (10 metres) with/without load		s	6.2/5.0
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)			Electric
	Electric motors			
6.1	Drive motor capacity (60 min. short duty)		kW	2.4
6.4	Battery voltage/capacity at 5-hour discharge		V / Ah	24/222-400
6.5	Battery weight		kg	285-350
6.6a	Energy consumption according to EN16796	и	Wh/h	203-330
6.6b	Energy consumption according to EN 10/30 Energy consumption according to VDI 60 cycle		Wh/h	
0.00	Miscellaneous	, ,		
8.1	Type of drive control			AC
	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)	Αυ



LI-ION BATTERIES

TIME TO SWITCH?



Lithium-ion (Li-ion) battery technology is available in the 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

Li-ion is an investment which should be viewed against 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 checkups, which give extra peace of mind.

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